

2D MARINE AIRCRAFT WING
II MARINE EXPEDITIONARY FORCE
FLEET MARINE FORCES
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IN REPLY REFER TO: 5800 CG

JUN 29 2022

FIRST ENDORSEMENT on

(b)(6), (b)(7)c, (b)(3)

5800/IO of 14 Jun 22

From: Commanding General, 2d Marine Aircraft Wing, FMF

To: Files

Subj: COMMAND INVESTIGATION INTO THE MV-22B AVIATION MISHAP THAT

OCCURRED ON 18 MARCH 2022 DURING EXERCISE COLD RESPONSE

- 1. The findings of fact, opinions and recommendations of the investigating officer are approved. The investigation is closed.
- 2. On 18 March 2022, an MV-22B from Marine Medium Tiltrotor Squadron 261 (VMM-261), call sign "Ghost 31," crashed into the steep side of a valley near Bodø, Norway during Exercise COLD RESPONSE. The mishap resulted in the tragic and untimely deaths of Corporal Jacob M. Moore, Gunnery Sergeant James W. Speedy, Captain Ross A. Reynolds, and Captain Matthew J. Tomkiewicz.
- 3. Any accident that results in the death of a Marine demands an investigation that is both exhaustive and transparent. In order to achieve this in the aftermath of the Ghost 31 mishap, I appointed two highly-experienced investigating officers. (b)(3), (b)(6), (b)(7)c already commanded a squadron and is currently slated to command a Marine Aircraft Group. He was assisted by (b)(3), (b)(6), (b)(7)c an MV-22B pilot with extensive tactical knowledge of the aircraft who has served as both a squadron operations and maintenance officer. Both investigating officers are Weapons and Tactics Instructors. traveled to Norway to inspect the crash site, reviewed hundreds of pages of documents and conducted extensive interviews. During their investigation, they looked closely at aircrew readiness, aircraft maintenance, squadron planning and procedures, and external and environmental factors such as weather. Lastly, they carefully reconstructed the final moments of the flight in order to reach conclusions about what exactly happened to Ghost 31, and why. They produced a very thorough and insightful investigation.
- 4. The investigation focused first on causal factors for the mishap. A causal factor is an error that can be directly tied to the accident and without which the accident would not have occurred. The investigation shows, from the recovered video and flight data, that the causal factor for the Ghost 31 mishap was pilot error. Though we cannot determine which pilot was at the controls, it is clear that the aircraft made a series of maneuvers through the Gråtådalen Valley that caused a loss of altitude, airspeed, and turning-room from which Ghost 31 was unable to recover.

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- 5. The investigation also explored five other factors to determine if they contributed to the mishap: weather and environmental factors, procedures for low-altitude training, errors in maintenance paperwork, inexperience in mountainous environments, and the use of recording devices. While there were errors of commission and failures to adhere to procedure, none of the five factors investigated were causal or could reasonably be considered contributory.
- Weather and environmental factors. Adverse weather including high winds, blowing snow and freezing rain - made it impossible for search-and-rescue personnel to reach the crash site in the hours after they located the wreckage of Ghost 31. investigative team initially surmised that similar weather may have played a role in the crash itself. The evidence later proved this was not the case. Video footage recovered from the site shows that the weather in the Gråtådalen Valley immediately prior to the mishap featured visibility greater than five miles and scattered clouds well above the altitude at which Ghost 31 was flying. There are indications of an approximately 24-knot tailwind just before the accident. While it is possible that this tailwind adversely affected the turning performance of the aircraft, similar winds were experienced the previous day by an MV-22B flight that flew through the same valley without incident. It is the opinion of the investigating officers that weather was not a significant factor in this mishap, and I concur.
- Procedures for scheduling and authorizing low-altitude training (LAT). Both the Training and Readiness Manual and a 2d Marine Aircraft Wing order establish procedures for scheduling and authorizing LAT. VMM-261 did not follow all of these procedures while deployed to Norway for COLD RESPONSE. In particular, the squadron scheduled LAT in areas not officially designated for that purpose, and did not set minimum altitudes for some LAT flights. In light of these facts, the investigating officers make several recommendations that could improve how LAT for the MV-22B is defined, planned and scheduled across the Marine Corps. Although these recommendations could play a role in preventing future mishaps, there is no evidence to suggest that the squadron's failure to follow LAT procedures had any impact on the Ghost 31 mishap. Even when required administrative procedures were not scrupulously followed, VMM-261 safely carried out LAT in Norway when those evolutions were scheduled and authorized by the It would be speculation to suggest that a failure to commander. properly schedule LAT on other days influenced or impacted the decision by the pilots of Ghost 31 to conduct LAT on a flight when it was neither scheduled nor authorized.
- c. Administrative errors in maintenance paperwork. The investigating officers carefully examined the maintenance performed on the mishap aircraft in the days, weeks and months prior to the accident. They found the aircraft was functionally capable of performing the mission, and that there is no evidence of any catastrophic component failure that might have contributed to the crash. There were numerous administrative discrepancies on the maintenance paperwork, such as missing signatures and other

documentation errors. These errors were likely the result of limited computer and printer assets in the deployed environment.

Nevertheless, in **every** instance where a signature or comment was missing from a document, a later entry establishes that the maintenance in question was properly conducted and annotated. I have no doubt the Ghost 31 aircraft was safe for flight, and that maintenance malpractice did not play a role in the mishap.

- d. Inexperience in mountainous terrain. Aviators who are stationed in eastern North Carolina have fewer opportunities to fly in mountainous terrain than their counterparts on the West Coast. The investigation recommends that squadrons deploying to Norway or other mountainous areas pursue pre-deployment opportunities to cover this potential training gap. In this case, VMM-261's pilots completed an additional tailored training syllabus prior to Exercise COLD RESPONSE that considerably exceeded the requirements of the Training and Readiness Manual. While it is possible that inexperience in the mountains played a role in the Ghost 31 mishap, it is clear the squadron took every reasonable step to mitigate that possibility.
- e. Use of unauthorized personal recording devices and absence of official recording devices. A personal GoPro device was found at the crash site, and the recovered footage shows it was in use as the aircraft conducted low-altitude maneuvers in the Gråtådalen Valley. Such devices are prohibited on grounds that they can incentivize risktaking and serve as a distraction; that may have been the case with Ghost 31. But the investigating officers raise an important corollary: if an unauthorized device could contribute to risky decisions, it is very likely that the mandatory employment of a video and voice recording system provided by the Marine Corps would have the opposite effect. Unfortunately, the MV-22B does not yet possess such a capability. The investigation recommends that this deficiency be remedied as quickly as possible, by whatever means are available, and I wholeheartedly concur.
- 6. The Marine Corps aviation community will utilize the findings of this investigation to make us better in both practice and execution. On behalf of the entire 2d Marine Aircraft Wing, I extend my deepest condolences to the families of our fallen Marines. I hope this investigation will provide some reassurance of the efforts put forth to discover what happened to their loved ones, why it happened, and what steps are being taken to reduce the possibility of such mishaps in the future.

M. S. CEDERHOLM

M.S. Call

Copy to:
Casualty Branch
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CO, MAG-26
CO, VMM-261
COMMSTRAT



2D MARINE AIRCRAFT WING
II MARINE EXPEDITIONARY FORCE
FLEET MARINE FORCES
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CHERRY POINT, NC 28533-0050

5800 IO

JUN 1 4 2022

From: (b)(3), (b)(6), (b)(7)cTo: Commanding General, 2d Marine Aircraft Wing, II MEF, FMF COMMAND INVESTIGATION INTO THE MV-22B AVIATION MISHAP THAT OCCURRED ON 18 MARCH 2022 DURING EXERCISE COLD RESPONSE Ref: (a) JAGINST 5800.7G (b) NAVMC 3500.14E Training and Readiness Program Manual (c) NAVMC 3500.11F Ch 1-4 MV-22B Training and Readiness Manual (d) CNAF M-3710.7 (e) WgO 3710.38D 2d MAW Flight Operations SOP (f) GruO 3710.32B MAG-26 Flight Operations SOP (g) SqdnO 3710.1B VMM-261 Flight Operations SOP (h) NTRP 3-22.4-MV22B Naval Aviation Technical Information Product (i) 2d MAW Portable Electronic Device Policy (j) MAG-26 Portable Electronic Device Policy (k) COMNAVAIRFORINST 4790.2D (1) A1-V22AB-NFM-000 MV-22B NATOPS 15 Jan 2020 (m) NTTP 3-22.5 MV-22B Tactical Pocket Guide (n) NTTP 3-22.3 MV-22B Air Naval Tactics, Techniques, and Procedures Encl: (1) Appointment Ltr from CG, 2d MAW, dtd 23 Mar 22 (2) Extension Ltrs (3) VMM-261 18 Mar 22 COLD RESPONSE Flight Schedule (4) Capt Tomkiewicz NATOPs Jacket (5) Capt Tomkiewicz Logbook (6) Capt Tomkiewicz Aircrew Performance Record Summary (7) Capt Reynolds NATOPs Jacket (8) Capt Reynolds Logbook (9) Capt Reynolds Aircrew Performance Record Summary (10) Cpl Moore NATOPs Jacket (11) Cpl Moore Logbook (12) Cpl Moore Aircrew Performance Record Summary (13) GySgt Speedy NATOPs Jacket (14) GySgt Speedy Logbook (15) GySgt Speedy Aircrew Performance Record Summary (16) Interview Summary: (b)(3), (b)(6), (b)(7)c(17) VMM-261 Personnel Interviews (18) VMM-261 COLD RESPONSE Training Syllabus (19) VMM-261 Standardization Board Minutes

(20) MV-22B Academic Lecture 2610, Low Altitude Tactics I (excerpts)

(21) VMM-261 Schedule Validation Report: 18 Mar 22 Schedule
(22) VMM-261 Risk Assessment Worksheet: GT31 / 18 Mar 22
(23) VMM-261 Operations Duty Officer Brief: GT31 / 18 Mar 22
(24) VMM-261 Operations Duty Officer Logbook for 18 Mar 22

(26) VMM-261 COLD RESPONSE Flight Schedules (1/5/17 March 22)

(25) VMM-261 GT31 Mission Brief 18 March 22

(28) Norwegian Air Force Route Authorization Email

(27) VMM-261 GT31 Mission Brief 17 Mar 22

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  - (29) GT31 Flight Plan Submissions, 18 Mar 22
  - (30) LAT Flight Recreations
  - (31) NAOC COLD RESPONSE Flight Safety Brief
  - (32) NAOC COLD RESPONSE Flight Safety Brief Training Record
  - (33) 2d MAW COLD RESPONSE Weather Cancellation Tracker
  - (34) BUNO 168330 KVADR Data Recorder Record: 18 Mar 22
  - (35) BUNO 168330 KVADR Data Recorder Record: 17 Mar 22
  - (36) Norwegian Air Traffic Control Track Data, Ghost 31, 18 Mar 22
  - (37) GT31 Recovered Video Footage, GoPro Camera (still images)
  - (38) Fleet Support Team Flight Recreation for Mishap Flight
  - (39) Interview Summary: Search and Rescue Aircrew, 330 Squadron
  - (40) 330 Squadron Mission Report (translated), 18 Mar 22
  - (41) BUNO 168330 Scheduled Inspections Report
  - (42) BUNO 168330 NALCOMIS OMA Misc History Report
  - (43) BUNO 168330 Flight Record
  - (44) BUNO 168330 Electronic Acceptance Sheet 18 March 2022
  - (45) BUNO 168330 Safe For Flight Screening Checklist
  - (46) VMM-261 ASM Qual/Cert/License/Medical Cross-Tab Report
  - (47) Discrepancy Work Orders, MCN: 28QT7KX, 28T088A, 28T0883, 28T088B 28T0888
  - (48) BUNO 168330 Turnaround / Daily Inspection Maintenance Record 18 March 2022
  - (49) (b)(3), (b)(6), (b)(7)c QCL/QPT ASM Report: Plane Captain Designation
  - (50) BUNO 168330 Active Work Order Query, MCN: 28T887
  - (51) Completed Work Orders, MCN: 28T08E9, 28T08E8, 28T08EH, 28T08CM, 28T08C1, 28T08D3, 28T088C
  - (52) BUNO 168330 Historical Work Order Query
  - (53) FST Engineering Assessment
  - (54) MWSS-272 Bodø Fuel Test Results
  - (55) Mishap Site Photos
  - (56) Glossary of Acronyms and Terms

#### Executive Summary

- 1. On 18 March 2022, an MV-22B Osprey with Marine Medium Tiltrotor Squadron 261 (VMM-261), call-sign Ghost 31 (GT31), departed from Bodø, Norway on a training flight in support of Exercise COLD RESPONSE 22. There were four Marines aboard: Captain Matthew J. Tomkiewicz, the aircraft commander; Captain Ross A. Reynolds, the co-pilot; Corporal Jacob M. Moore, the crew chief; and Gunnery Sergeant James W. Speedy, the aerial observer.
- 2. GT31 returned to base for fuel without incident after conducting local area familiarization flights and confined area landings to the north of Bodø. After re-fueling, GT31 departed on an approved flight plan in clear conditions to the south of Bodø. GT31 maintained voice communications with Norwegian air traffic control until 1510 local time, and remained in radar contact until 1538 when the track deviated to the north in the vicinity of the airport at Brønnøysund. GT31 contacted two additional Norwegian airports to advise of transiting their airspace northbound. The last noted air traffic control position for GT31 was N66 41.23 / E014 10.53 at an altitude of 2900 feet above mean sea level at 1619L hours. Through analysis of flight planning products and aircraft data, it is estimated that GT31 entered the Gråtådalen Valley at 1622L. It is estimated that the aircraft impacted the eastern side of the valley at approximately 1623L. The crash resulted in the total loss of the aircraft and the death of all four Marines aboard.

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- 3. It is assessed that the mishap was the result of pilot error. Specifically, analysis of the recovered aircraft data shows that GT-31, while maneuvering within the Gråtådalen Valley, made a left turn at 68 degrees angle-of-bank. The steepness of this turn resulted in a loss of both airspeed and altitude when GT 31 over corrected with a right turn in excess of 80 degrees from which the aircraft could not recover. It is not known which pilot had control of the aircraft at the time.

#### Preliminary Statement

- 1. In accordance with reference (a), this report marks completion of the command investigation conducted into the fatal aviation mishap involving an MV-22B, BUNO 168330, during exercise COLD RESPONSE in Bodø, Norway.
- 2. Both the Investigating Officer (IO) and Assistant IO (AIO) are Weapons and Tactics Instructors. The IO has commanded a squadron and is slated for command of a Marine Aircraft Group. The AIO is an MV-22B pilot with extensive tactical knowledge of the airframe having served as both a squadron operations and maintenance officer.
- 3. The IO collected all reasonably available evidence and met each convening authority directive found in enclosure (1). Of note, the IO decided not to delay conclusion of the investigation in order to wait for a toxicology report from the Armed Forces Medical Examiner. Based on interviews, along with three hours of uneventful flight prior to the mishap, there is no reason to believe that any of the Marines aboard GT31 were impaired by alcohol or illicit substances.
- 4. The 2d Marine Aircraft Wing (2d MAW) Office of the Staff Judge Advocate (OSJA) provided legal support.
- 5. Prior to questioning, the IO advised witnesses of the purpose of the JAGMAN investigation and reasons for apparent duplication of effort with the Aviation Mishap Board (AMB). All personnel cooperated fully with this investigation. Since none of the personnel interviewed were suspected of an offense under the Uniform Code of Military Justice, warnings pursuant to Article 31(b) were not necessary.
- 6. The IO and AIO conducted extensive analysis of data recovered from mission recorders found at the crash site. Additionally, the IO requested a flight recreation based on flight data, recorded mission time, and modeled atmospherics from the analysts and engineers of the MV-22B Fleet Support Team (FST) in Patuxent River, Maryland.
- 7. Line-of-duty determinations were made separately pursuant to section 0212 of reference (a). All four Marines involved in the mishap were found in the line of duty.
- 8. Enclosures (1) through (56) contain material pertinent to this investigation. All enclosures are original or true and accurate copies of the documents they represent. The enclosures, additional photos, and all full-motion video associated with the investigation will remain on file with the 2d MAW OSJA.
- 9. All times in this report are local Norway time unless otherwise indicated. At the time of the mishap, the local time in the vicinity of Bodø was UTC+1.

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- 10. All photographs listed in the enclosures were either taken by 2d MAW Strategic Communications Marines or Norwegian search-and-rescue (SAR) personnel. Norwegian SAR aircrew provided photos and video of the mishap site taken the day after the mishap.
- 11. Video footage from a personal "GoPro" device found at the crash site showed approximately twelve minutes and thirty-six seconds of flight time prior to the mishap. This video footage was given to the IO by Norwegian authorities via the AMB.
- 12. Original items of physical evidence are in the custody of the AMB aboard MCAS New River, NC.
- 13. References (b) and (d) provide the specific definitions used for human factors, currency, proficiency, crew resource management, and other relevant considerations.
- 14. The IO focused on four areas while investigating facts pertaining to the mishap on 18 March 2022: 1) aircrew readiness and/or ability to complete the assigned mission; 2) aircraft readiness and/or ability to complete the assigned mission; 3) procedures relevant to the mishap; and 4) external/environmental factors. The IO/AIO worked top-down through the evidence and data, first investigating potential flaws in training pipelines and aircraft readiness before moving to the chain-of-command and then down to the mishap crew. The investigative team employed this methodology to gain the most comprehensive understanding of all factors associated with the mishap.
- 15. The IO's reviewed flight planning, briefing, and execution procedures designed to mitigate the dynamic arctic weather conditions and mountainous terrain of Norway. These included the Naval Service Training and Readiness (T&R) Manuals and tactics publications for MV-22B platforms, guiding documents from higher headquarters, flight operations briefs from the country of Norway, and a supplemental training syllabus designed at the squadron level that included specific procedures designed for the Norwegian environment. The review provided a comprehensive understanding of how the Marine Corps trains aviators for mountainous and cold weather operations and what measures tactical units took beyond the institutional minimums.
- 16. Aircrew readiness was researched with information derived from squadron interviews, Marine Sierra Hotel Aviation Readiness Program (MSHARP), review of the aircrew's Naval Air Training and Operating Procedures Standardization (NATOPS) jackets, and Aircrew Performance Records.
- 17. A limited review of data from the U.S. Naval Safety Center was conducted to gain a historical perspective on mishaps in mountainous regions. No historical mishaps were discovered that were closely correlated enough to be of use.
- 18. For aircraft readiness, the IO and senior maintenance representative reviewed digital and printed records from VMM-261 Advanced Skills Management (ASM), Naval Aviation Logistics Command Management Information System (NALCOMIS)/Optimized Organizational Maintenance Activity (OOMA), and interviews of squadron maintenance personnel.

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- 19. The IO obtained information concerning the local weather from the AMB, which consulted Norwegian experts who produced a rigorous model for the weather patterns on 18 March 2022.
- 20. The findings of fact are organized as follows: 1) summary of training and qualification for mishap aircrew to include flight time, aeromedical clearance, medical history, and human factors/personal stressors; 2) summary of the scheduling, planning, and mission briefing of the flight; 3) summary of the mishap aircraft's maintenance records; 4) the operational guidance and added measures employed to prepare for Cold Response; and 5) a summary of the mishap flight re-created from aircraft recorded data, viewing of flight recreations, and a brief timeline of SAR efforts to recover aircrew on 18 March 2022.

### Findings of Fact

#### Part One: Training and Qualification of Mishap Aircrew

Captain Tomkiewicz (Aircraft Commander):

- 1. Captain Tomkiewicz was the aircraft commander for GT31. [Encl (3)]
- On 18 March 2022, Captain Tomkiewicz was on active duty, executing "Duties Involving Flying - Operational" orders in the regular Marine Corps. [Encl (4)]
- 3. Captain Tomkiewicz was designated a Naval Aviator on 25 April 2019. [Encl (4)]
- 4. Captain Tomkiewicz completed undergraduate pilot training with a Navy Standard Score (NSS) of 52.7 and one unsatisfactory event. Captain Tomkiewicz's NSS is considered above-average. [Encl (4)]
- 5. Captain Tomkiewicz's sole unsatisfactory event occurred during the C4205 advanced syllabus event, where he had trouble with headwork and situational awareness. [Encl (4)]
- 6. Captain Tomkiewicz was designated a T2P (co-pilot) on 9 October 2019. [Encl. (4)]
- 7. On 18 March 2022, Captain Tomkiewicz held a current aeromedical certification to participate in aviation duties. The certification was valid through 30 June 2022. [Encl. (4)]
- 8. On 18 March 2022, Captain Tomkiewicz was not prescribed any medications by the military health system. [Encl. (17)]
- 9. Captain Tomkiewicz possessed a current MV-22B NATOPS qualification and associated open / closed book exams. These were valid through 28 February 2023. [Encl (4)]
- 10. Captain Tomkiewicz possessed a current Standard Instrument Rating which was valid through 31 July 2022. [Encl. (4)]

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- 11. On 18 March 2022, Captain Tomkiewicz was current with annual Emergency Egress, Water Survival, and Crew Resource Management (CRM) requirements for flight operations. [Encl. (4)]
- 12. Captain Tomkiewicz was designated a tiltrotor aircraft commander (TAC) on 9 February 2022. [Encl. (4)]
- 13. Captain Tomkiewicz was designated a TAC after 450.1 total flight hours with 159.1 MV-22B simulator hours. [Encl. (4), (5)]
- 14. Minimum flight hours to be designated a TAC is 500 hours, of which 10% may be accounted for with Type / Model / Series syllabus simulator time. This equates to minimum requirements of 450 flight hours and 50 MV-22B syllabus simulator hours to be designated a TAC. [Ref (d)]
- 15. A review of Captain Tomkiewicz's Aviation Performance Record history and squadron interviews indicated no enduring deficiencies as an MV-22B pilot. Captain Tomkiewicz was generally described as "solid" with average to above-average situational awareness. [Encl. (6), (17)]
- 16. Captain Tomkiewicz's TAC syllabus event aviation training forms described him as a little slow with aircraft checklists and requiring work on his CRM skills. CRM became a strength by the end of the syllabus along with knowledge, situational awareness, and risk management. [Encl. (6)]
- 17. Prior to the mishap, Captain Tomkiewicz had not reported any abnormal life stressors, nor had any events of significance been discussed during the preceding three months of VMM-261 Human Factors Councils. [Encl. (16), (17), (22)]
- 18. Captain Tomkiewicz's roommate did not report any abnormal sleep patterns from Captain Tomkiewicz prior to 18 March 2022. [Encl. (17)]
- 19. Captain Tomkiewicz logged completion of VMM-261's COLD RESPONSE low-altitude training (LAT) and mountain area training (MAT) simulator event on 2 February 2022. [Encl (5), (18)]
- 20. Captain Tomkiewicz was provided the Norwegian Air Operations Center (NAOC) Safety Brief on 21 February 2022. [Encl. (31), (32)]
- 21. Captain Tomkiewicz's 30/60/90-day total flight times on the date of the mishap were 18.6/29.7/32.9. [Encl. (5), (22)]
- 22. Captain Tomkiewicz's flight time on 18 March 2022 was 468.7 total hours, with 269.9 MV-22B hours. [Encl. (5)]
- 23. Captain Tomkiewicz's last fly date prior to the mishap was 17 March 2022, the day prior. [Encl. (5), (26)]
- 24. Captain Tomkiewicz's last emergency procedure simulator event was completed on 1 February 2022. [Encl. (5)]
- 25. Prior to 18 March 2022, Captain Tomkiewicz had conducted flight operations in Norway seven times. [Encl (5)]

#### Captain Reynolds (Co-Pilot):

- 26. Captain Reynolds was the co-pilot for GT31. [Encl. (3)]
- 27. On 18 March 2022, Captain Reynolds was on active duty, executing "Duties Involving Flying Operational" orders in the regular Marine Corps. [Encl. (7)]
- 28. Captain Reynolds was designated a Naval Aviator on 7 August 2020. [Encl. (7)]
- 29. Captain Reynolds completed undergraduate pilot training with an NSS of 50.4 and no unsatisfactory events. Captain Reynolds' NSS is considered average. [Encl (7)]
- 30. Captain Reynolds was designated as a T2P (co-pilot) on 1 March 2021. [Encl. (7)]
- 31. On 18 March 2022, Captain Reynolds held a current aeromedical certification to participate in aviation duties. The certification was valid through 31 March 2023. [Encl. (7]
- 32. On the day of the mishap, Captain Reynolds was not prescribed any medications by the military health system. [Encl (17)]
- 33. Captain Reynolds possessed a current MV-22B NATOPS qualification and associated open / closed book exams. These were valid through 31 March 2023. [Encl. (7)]
- 34. Captain Reynolds possessed a current Standard Instrument Rating which was valid through 28 February 2023. [Encl. (7)]
- 35. A review of Captain Reynolds' Aviation Performance Record, along with squadron personnel interviews, indicated generally above-average performance with no specified enduring deficiencies as an MV-22B pilot. [Encl. (9), (17)]
- 36. On 18 March 2022, Captain Reynolds was current with annual Emergency Egress, Water Survival, and CRM requirements for flight operations. [Encl. (7), (21)]
- 37. Prior to 18 March 2022, Captain Reynolds had not reported any abnormal life stressors, nor had any events of significance been discussed during the preceding three months of VMM-261 Human Factors Councils. [Encl. (16), (17)]
- 38. Captain Reynolds' roommate did not report any abnormal sleep patterns from Captain Reynolds prior to 18 March 2022. [Encl. (17)]
- 39. Captain Reynolds logged LAT and MAT codes in accordance with the COLD RESPONSE training syllabus on 7 February 2022 while conducting his annual NATOPS evaluation. [Encl (7), (8)]
- 40. Captain Reynolds was provided the NAOC Safety Brief on 21 February 2022. [Encl. (31), (32)]
- 41. Captain Reynolds' 30/60/90-day total flight time on the date of the mishap were 6.8/17.8/17.8. No flights were logged between 10 December 2021 and 26 January 2022. [Encl (8), (22)]

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- 42. Captain Reynolds' flight time on 18 March 2022 was 280 total hours, including 91.4 MV-22B hours. [Encl (8)]
- 43. Captain Reynolds' last fly date before the mishap was 17 March 2022, the day prior. [Encl (8), (26)]
- 44. Captain Reynolds' last emergency procedure simulator event was completed on 8 February 2022. [Encl (8)]
- 45. Prior to 18 March 2022, Captain Reynolds had conducted flight operations in Norway five times. [Encl (8)]

#### Corporal Moore (Crew Chief):

- 46. Corporal Moore was the crew chief for GT31. [Encl. (3)]
- 47. On 18 March 2022, Corporal Moore was on active duty, executing "Temporary-Indefinite Crewmember Flight Orders" in the regular Marine Corps. [Encl. (10)]
- 48. Corporal Moore's "volunteer for flying duty" form was signed 29 January 2019. [Encl. (10)]
- 49. Corporal Moore was designated an MV-22B Crew Chief on 5 December 2019. [Encl. (10)]
- 50. On 18 March 2022, Corporal Moore held a current aeromedical certification to participate in aviation duties. The certification was valid through 31 December 2022. [Encl. (10)]
- 51. On 18 March 2022, Corporal Moore was not prescribed any medications by the military health system. [Encl (17)]
- 52. Corporal Moore possessed a current NATOPS qualification and associated open / closed book exams. These were valid through 28 February 2023. [Encl. (10)]
- 53. On 18 March 2022, Corporal Moore was current with annual Emergency Egress, Water Survival, and CRM requirements for flight operations. [Encl. (10), (21)]
- 54. A review of Corporal Moore's Aviation Performance Record indicated generally high situational awareness with occasional lapses of self-confidence and microphone-wind mitigation techniques during landing. [Encl. (12)]
- 55. Prior to 18 March 2022, Corporal Moore had not reported any abnormal life stressors, nor had any events of significance been discussed during the preceding three months of VMM-261 Human Factors Councils. [Encl. (16), (17), (22)]
- 56. Corporal Moore's roommate did not report any abnormal sleep patterns from Corporal Moore prior to the mishap. [Encl. (17)]
- 57. No specific COLD RESPONSE training events were mandated for enlisted aircrew. [Encl. (17), (18)]

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- 58. Corporal Moore's 30/60/90-day total flight time on the date of the mishap were 31.8/38.4/42.8. [Encl (11), (22)]
- 59. Corporal Moore's total flight time as of 18 March 2022 was 486.1 total hours, all of which were in the MV-22B. [Encl. (11)]
- 60. Corporal Moore's last fly date was 17 March 2022, the day prior to the mishap. [Encl. (11), (26)]
- 61. Corporal Moore's last emergency procedure simulator event was completed on 1 February 2022. [Encl (11)]
- 62. Prior to 18 March 2022, Corporal Moore had conducted flight operations in Norway eleven times. [Encl (11)]

#### Gunnery Sergeant Speedy (Aerial Observer):

- 63. Gunnery Sergeant Speedy was the aerial observer for GT31. [Encl. (3)]
- 64. On 18 March 2022, Gunnery Sergeant Speedy was on active duty, executing "Temporary-Indefinite Non-Crewmember Flight Orders" in the regular Marine Corps. [Encl. (13)]
- 65. Gunnery Sergeant Speedy's "volunteer for flying duty" form was signed 2 December 2020. [Encl. (13)]
- 66. Gunnery Sergeant Speedy was assigned to the MV-22B Aerial Observer / Gunner syllabus. [Encl. (14), (15), (21)]
- 67. Gunnery Sergeant Speedy had not completed the MV-22 Aerial Observer / Gunner Core Syllabus and was not NATOPS qualified, but was authorized to fly with a qualified crew chief instructor. Cpl Moore was a Basic Instructor Crew Chief. [Encl. (10), (13), (15), (21)]
- 68. On 18 March 2022, Gunnery Sergeant Speedy held a current aeromedical certification to participate in aviation duties. The certification was valid through 30 June 2022. [Encl. (13)]
- 69. On the day of the mishap, Gunnery Sergeant Speedy was not prescribed any medications by the military health system. [Encl (17)]
- 70. On 18 March 2022, Gunnery Sergeant Speedy was not current with annual Emergency Egress and CRM Flight requirements. Gunnery Sergeant Speedy possessed a valid Water Survival training qualification and CRM Ground training. [Encl. (13), (21)]
- 71. In order to log the CRM Flight training event, the MV-22B Aerial Observer / Gunner syllabus requires the completion of a NATOPS evaluation, which occurs at the end of the Core Skill training phase. The Emergency Egress refresher is also conducted with the NATOPS check. [Ref (c)]
- 72. Prior to 18 March 2022, Gunnery Sergeant Speedy had not reported any abnormal life stressors, nor had any events of significance been discussed during the preceding three months of VMM-261 Human Factors Councils. [Encl. (16), (17), (22)]

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- 73. Gunnery Sergeant Speedy's roommate did not report any abnormal sleep patterns from Gunnery Sergeant Speedy prior to the mishap. [Encl. (17)]
- 74. No specific pre-COLD RESPONSE training events were mandated for enlisted aircrew. [Encl. (17), (18)]
- 75. Gunnery Sergeant Speedy's 30/60/90-day total flight times on the date of the mishap was 0/0/0. [Encl. (14), (22)]
- 76. Gunnery Sergeant Speedy's total flight time as of 18 March 2022 was 78.4 hours. [Encl. (14)]
- 77. Gunnery Sergeant Speedy's last fly date prior to the mishap was 4 November 2021. [Encl (14), (22)]
- 78. Gunnery Sergeant Speedy's last emergency procedure simulator event was completed on 20 September 2021. [Encl. (14)]
- 79. Prior to 18 March 2022, Gunnery Sergeant Speedy had not conducted flight operations in Norway. [Encl. (14)]

#### Part Two: Scheduling, Planning and Briefing of GT31 Mission

- 80. The four Marines aforementioned were scheduled to fly as GT 31 on 18 March 2022. [Encl (3)]
- 81. GT31 was assigned to conduct single-aircraft Confined Area Landings (CALs) and Air Logistics Support (ALS) to support on-call COLD RESPONSE tasking. [Encl. (3)]
- 82. The crew had the required proficiency to conduct the assigned missions and Training and Readiness Manual assigned events. [Encl. (3), (4), (6), (9), (12), (15), (21), (22)]
- 83. The composition of the GT31 crew met the requirements for planned flight operations for CALs and ALS. [Encl. (3), (4), (7), (10), (13), (21), (22), Ref (c)
- 84. Captain Tomkiewicz was current and qualified to sign for the aircraft. [Encl. (3), (4), (5), Ref (b-q)]
- 85. The GT31 crew was afforded sufficient rest between completion of the previous day's flight events and the brief time for the mishap mission on 18 March 2022. [Encl. (3), (17), (22), (26), Ref (d)]
- 86. The 18 March 2022 VMM-261 flight schedule was validated in M-SHARP for anomalies. Annotations were made by the schedule writer consistent with common squadron practices. [Encl. (21)]
- 87. The 18 March 2022 VMM-261 flight schedule was digitally signed by the commanding officer and annotated as having been reviewed by representatives from the Operations, Maintenance, and Safety & Standardization departments. [Encl. (3), (16)]
- 88. The Risk Assessment Worksheet (RAW) was signed by the squadron commanding officer acknowledging Low Risk for the flight. [Encl. (22)]

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- 89. The crew was scheduled to conduct operations within the allowable standard crew day. [Encl. (3), Ref (d-g)]
- 90. Captain Tomkiewicz conducted a scheduled low-altitude tactics (LAT) event on 17 March 2022 along the same route utilized by GT31 on 18 March 2022. [Encl. (17), (26), (30), (35)]
- 91. The LAT profile flown on 17 March 2022 through the Gråtådalen Valley, in vicinity of the next day's mishap location, was between 1800' 2000' above mean sea level (MSL), 220 knots calibrated airspeed (KCAS), with angles of bank of approximately 55 degrees. Above ground level (AGL) altitudes varied between 575' and 1000'. [Encl. (30), (35)]
- 92. Tiltrotor LAT is defined as flight where the briefed intent is to conduct tactical flight where terrain avoidance is a significant factor. Tiltrotor LAT is further defined as the briefed intent to fly at or below 500' AGL in order to develop terrain avoidance skills. Tiltrotor LAT is composed of both low-level and contour flight profiles. [Ref (b)]
- 93. GT31 was not scheduled to conduct LAT on the date of the mishap. [Encl. (3)]
- 94. Unscheduled LAT is strictly prohibited. [Ref (b), (e)]
- 95. Tactical flight is not defined in the references. [Ref (b), (d-q)]
- 96. Low-level flight is defined as flight conducted at a selected altitude to minimize or avoid enemy detection or observation. Aircrews conducting low-level flight pre-select a route that generally consists of straight-line navigation, constant airspeed and constant altitude above mean sea level. [Encl. (20), Ref (b), (e)]
- 97. Low-altitude flight shall be conducted in restricted airspace, military operating areas, on military training routes, or other low-altitude training areas as designated by the Wing or Task Force commander. [Encl. (20), Ref (b), (e)]
- 98. The "Bravo" route is one of two navigation routes provided by the Norwegian Air Force in which aircraft may fly as low as 500' AGL. [Encl. (28)]
- 99. The "Bravo" route flown by GT31 was not designated a low-altitude training area by the Wing commander on 18 March 2022. [Encl (16), (17), (28)]
- 100. MV-22B pilots are instructed that reasons to conduct LAT can be classified as threat (enemy) considerations and weather. [Encl (20)]
- 101. Captain Tomkiewicz and Corporal Moore were qualified, proficient, and current to conduct LAT if properly scheduled on 18 March 2022. [Encl. (3), (4), (5), (6), (10), (11), (12), Ref (b), (c)]
- 102. Captain Reynolds was qualified and proficient to conduct LAT, but lacked currency due to not having flown LAT within the preceding 30 days prior to 18 March 2022. [Encl. (7), (8), (9), Ref (b), (c)]

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- 103. Gunnery Sergeant Speedy's APR contained an unsigned Day LAT designation letter. He was not listed as LAT-qualified according to his MSHARP qualification report. Unqualified personnel must fly with a proficient LAT Instructor. [Encl. (13), (15), Ref (b), (e)]
- 104. Corporal Moore was not designated a LAT Instructor. [Encl. (10)]
- 105. VMM-261 scheduled training events that included an intent to perform LAT on 1 March, 5 March and 17 March 2022. [Encl. (26)]
- 106. The flight schedules on 1, 5, and 17 March 2022 did not include a minimum altitude in accordance with ref (d). [Encl. (26)]
- 107. Of the 1, 5, and 17 March 2022 flight schedules, only the 17 March 2022 schedule indicated the low altitude training area to be utilized. [Encl. (26)]
- 108. GT31 was not scheduled to conduct mountain area training (MAT) on 18 March 2022. [Encl. (3)]
- 109. The purpose of mountain area training is to develop proficiency in day and night vision device (NVD) mountainous terrain operations. Aircraft landings shall be conducted at zones above 6000' DA and where mountainous terrain is a significant factor. [Ref (b)]

#### GT31 Mission Brief

- 110. The GT31 mission brief was conducted at 0900 local time on 18 March 2022. [Encl. (3), (17), (23), (24)]
- 111. GT31 was scheduled to fly from 1100 to 1800 hours for a total of 6.6 hours of flight time. [Encl. (3)]
- 112. The radar picture at approximately 0620 that morning displayed isolated areas of moisture along both the northern and southern portions of the planned route. The forecast for the duration of the mission called for "visual meteorological conditions," (VMC), meaning that the weather would be sufficient for the aircraft to maintain visual separation from the terrain and other aircraft. [Encl. (23)]
- 113. The weather model outlook for Bodø forecasted ceilings between 1400 feet for departure and 1600 feet for recovery with thunderstorms in the vicinity of the airfield. [Encl. (23)]
- 114. There were no warnings involving Significant Meteorological Information (SIGMETs) or Airman's Meteorological Information (AIRMETs) active at the time of the mission brief. SIGMETs and AIRMETs are used to warn pilots of potentially hazardous weather conditions. [Encl. (23)]
- 115. A 1000' ceiling with visibility at or greater than three statute miles is considered visual meteorological conditions (VMC), in which aircraft may execute flights under visual flight rules (VFR). Flights conducted under VFR conditions are done when aircraft have sufficient cloud layers and visibility to maintain separation from terrain and other aircraft. [Ref. (d)]
- 116. The weather minimums, as directed by the VMM-261 commanding officer, were a 1000-foot ceiling and three statute-mile visibility for airplane-mode

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- operations. Below that aircrew were expected to operate in conversion mode, and were expected to operate in conversion mode to an altitude as low as the weather minimums for instrument approaches, similar to a helicopter. [Encl. (16), (17)]
- 117. The standard VMM-261 mission brief template includes a reminder to aircrew that "There is no mission in training worth compromising the safety of our Marines." [Encl. (23)]
- 118. The flight mission brief was conducted by Captain Tomkiewicz. [Encl. (17), (25)]
- 119. The mission brief contained visual depictions of the planned northern and southern routes, including map chips of individual flight legs which included terrain relief depictions via Digital Terrain and Elevation Data (DTED) and Minimum Safe Altitudes (MSAs). This provided enhanced terrain awareness as well as altitudes along the route which would provide at least 500' of clearance from terrain in case of an emergency. [Encl. (25)]
- 120. Captain Tomkiewicz briefed the risk to forces as "poor weather calls with confining terrain and icing." The mitigation was briefed as (a) in case of weather less than 5000' / 5sm at coastal airports, no inland LAT would be performed; (b) in case of weather less than 1000' / 3sm, flight would be in conversion mode only; and (c) weather less than 500' / 1sm would be a "no-go." [Encl. (25)]
- 121. "No Go" refers to conditions that would prevent the aircraft from launching. [Ref (n)]
- 122. The risk assessment provided in the brief by Captain Tomkiewicz on 18 March 2022 mirrored the briefed risk assessment annotated on the 17 March 2022 mission brief. [Encl. (25), (27)]
- 123. A digital copy of the risk assessment worksheet was filled out and marked as signed by Captain Tomkiewicz. Weather factors to mission were highlighted as "low risk" for weather greater than 1000' / 3mi visibility. The area of greatest risk was annotated by Captain Tomkiewicz as "FLIGHT IN MOUNTAINOUS TERRAIN IN POOR WX [WEATHER]." The mitigation measures were listed as "WX TRIGGERS TO NOT CONDUCT THAT FLIGHT PROFILE". [Encl. (22)]
- 124. Flight plans were submitted for GT31 along both the northern and southern routes of flight. The requested transit altitudes were listed as 1,500 feet above ground level. [Encl. (29)]
- 125. The southern route of flight was planned to require 6,700 pounds of fuel in order to land with VMM-261 standard operating procedure (SOP) fuel of 1,400 pounds. Planned takeoff fuel was 10,500 pounds. [Encl. (25), (30), Ref (g)]
- 126. The planned fuel remaining after completion of the southern route (3800 pounds above minimum landing fuel) equates to approximately 1 hour and 15 minutes of additional flight time available. [Encl. (25), (30), Ref (m)]
- 127. GT31 was planned for a transit altitude of 1000 feet above ground level. [Encl. (30)]

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- 128. The minimum safe altitudes along the route of flight were annotated between 2700 feet and 6100 feet above mean sea level. [Encl. (30)]
- 129. The route in vicinity of the mishap location was planned directly between checkpoints provided by the Norwegian Air Force. GT 31 planned no intermediate checkpoints along the intended route through the terrain. [Encl. (25), (30)]
- 130. Any planned flight below 1000 feet above ground level required a confirmation with the Norwegian Air Operations Center and either a face-to-face or video conference brief between the NAOC and the aircrew prior to launch. [Encl. (31)]
- 131. An exception to the requirement for a face-to-face brief existed for flights operating on an authorized route down to 500' AGL. [Encl. (28)].
- 132. GT31 did not conduct a low-altitude brief with the NAOC prior to executing their mission on 18 March 2022. [Encl. (17)]
- 133. The weather update brief with Bodø Air Operations (Lion Ops) was conducted by the Operations Duty Officer for the crew of GT31. [Encl. (17)]
- 134. On 18 March 2022, 19 fixed-wing USMC flights supporting COLD RESPONSE cancelled operations due to winds exceeding take-off minimums for ejection seat envelopes. [Encl (33)]

#### Part Three: Maintenance History for the Mishap Aircraft (BUNO 168330)

- 135. The mishap aircraft was an MV-22B Osprey, Aircraft 14, BUNO 168330, assigned to VMM-261. [Encl (42)].
- 136. The aircraft was inducted into Planned Maintenance Interval (PMI) involving extensive airframe and aircraft systems inspections, component replacements, and technical directive integration at MCAS Cherry Point from 13 February 2021 through 8 November 2021. [Encl (42)]
- 137. The aircraft was transferred from VMM-365 to VMM-261 on 18 November 2021. [Encl (42)]
- 138. On 18 March 2022, the aircraft had 1685.7 flight hours on the airframe prior to the mishap flight. [Encl (41)]
- 139. The aircraft had 222.0 flight hours remaining prior to the next Phase Inspection. [Encl (41)]
- 140. The aircraft was flown nine times in Norway, including twice on 17 March 2022, for a total of 6.6 flight hours. [Encl (43)]
- 131. The aircraft was released as safe for flight (SFF) on 18 March 2022 by (b)(3), (b)(6), (b)(7)c [Encl (44)]
- 142. (b)(3), (b)(6), (b)(7)c used a SFF checklist to safe the aircraft prior to releasing the aircraft for flight on 18 March 2022. [Encl (45)]
- 143. (b)(3), (b)(6), (b)(7)c is qualified to safe an aircraft for flight as of 21 May 2020. [Encl (46)]

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- 144. On 18 March 2022, the aircraft had five open Partial Mission Capable (PMC) discrepancies (MCN: 28QT7KX, MCN: 28T088A, MCN: 28T0883, MCN: 28T088B, MCN: 28T0888) which contained documentation errors. [Encl (47)]
- 145. Work orders are required to have the number of the toolbox used, and the signature of the technician that performed the tool container inventory to verify that all tools were accounted for. (par. 15.3.8.1.B) [Ref. (k)]
- 146. Work orders are also required to have the name of the assigned worker and the toolbox number utilized annotated under the "Worker Hours" section on the form. (par. 15.3.8.2.C) [Ref. (k)]
- 147. Work orders are required to have in-process inspection comments annotated on the form to document the type of work that was accomplished. Required comments include, but are not limited to, functional testing, adjusting, assembly of components, servicing, installation, or witnessing application of torque during installation. (par. 7.1.4.b.2) [Ref (k)]
- 148. Work orders are required to document that the work center supervisor or Collateral Duty Inspector (CDI) and the technician assigned to the task conducted a joint inventory and inspection of the tool container and its contents prior to starting work and at each work stoppage. (par. 10.12.3.6.2) [Ref (k)]
- 149. On WO MCN: 28QT7KX (Right Outboard Vortex Generator Removed and Discarded in Flight Line), only (b)(3), (b)(6), (b)(7)c signed under the "Worker Hours" section on the work order. The Worker and the CDI in-process comments for the maintenance performed were not annotated. [Encl. (47)]
- 150. (b)(3), (b)(6), (b)(7)c is a qualified Airframes Collateral Duty Quality Assurance Representative (CDQAR). [Encl. (46)]
- 151. On WO MCN: 28T088A, the Right Green Blade Temperature Sensor F (P) was troubleshot on 13 March 2022 by (b)(3), (b)(6), (b)(7)c and (b)(3), (b)(6), (b)(7)c The CDI in-process comments for the maintenance and reinstallation of the right-hand spinner dome were not annotated. [Encl. (47)].
- 152. (b)(3), (b)(6), (b)(7)c and (b)(6), (b)(7)c, (b)(3) are not CDIs and do not have authority to make CDI in-process comments. [Encl. (46)]
- 153. The reinstallation of the right-hand spinner dome with associated application of torque and properly documented CDI in-process comments was annotated on WO MCN: 28T0887 on 14 March 2022. [Encl. (50)]
- 154. On WO MCN: 28T088A, the CDI block on the work order was signed (b)(6), (b)(7)c, (b)(3) (b)(3), (b)(6), (b)(7)c (b)(3), (b)(6), (b)(7)c is not a CDI or a work center supervisor for the personnel who worked on the task. [Encl. (47), (46)]
- 155. (b)(3), (b)(6), (b)(7)c did not physically verify the inventory of toolbox 200-3-4 on WO MCN: 28T088A on 13 March 2022. Toolbox 200-3-4 was correctly inventoried on 14 March 2022 on WO MCN: 28T0887. [Encl. (47), (50)]
- 156. On WO MCN: 28T0883, the Left Pen Damp Heaters F (P) were troubleshot on 14 March 2022 by (b)(3), (b)(6), (b)(7)c and (b)(3), (b)(6), (b)(7)c The CDI in-

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- process comments for the maintenance and reinstallation of the left-hand spinner dome were not annotated. [Encl. (47)]
- 157. (b)(3), (b)(6), (b)(7)c and (b)(3), (b)(6), (b)(7)c are not CDIs and do not have authority to make CDI in-process comments. [Encl. (46)]
- 158. The reinstallation of the left-hand spinner dome with associated application of torque and properly documented CDI in-process comments were annotated on WO MCN: 28T08Cl on 17 March 2022. [Encl. (51)]
- 159. On WO MCN: 28T088B, the Left Spinner Temperature Sensor Zone 10 was troubleshot on 13 March 2022 by (b)(3), (b)(6), (b)(7)c The toolbox used and the worker were not annotated. [Encl. (47)]
- 160. On WO MCN: 28T0888, the Right Spinner Temperature Sensor 2 F (P) was troubleshot on 13 March 2022 by (b)(3), (b)(6), (b)(7)c The toolbox used and the worker were not annotated. [Encl. (47)]
- 161. (b)(3), (b)(6), (b)(7)c is a qualified Avionics CDQAR as of 16 November 2021. [Encl. (46)]
- 162. The mishap aircraft's Daily and Turnaround Inspection was completed on 18 March 2022 at 0925 by (b)(3), (b)(6), (b)(7)c prior to the mishap flight. [Encl. (48)]
- 163. (b)(3), (b)(6), (b)(7)c is a qualified Plane Captain as of 7 April 2020. [Encl. (49)]
- 164. The mishap aircraft had 23 open work order discrepancies when the aircraft was signed safe for flight. Of the 23 open work orders, 16 were PMC-Equipment Operational Capability (EOC) coded discrepancies, which inform maintenance control and the pilot as to what missions the aircraft is mechanically capable of executing. The other seven were non-EOC coded general discrepancies. [Encl. (50)]
- 165. The mishap aircraft had 41 Technical Directive work orders open when the aircraft was signed safe for flight. The Technical Directives were either due to be implemented, or had been deferred for completion, until after the aircraft returned from Norway. [Encl. (50)]
- 166. Three WO's were signed off between 17 March 2022 at 2205Z and the mishap flight: MCN: 28T08E9, MCN: 28T08E8, and MCN: 28T08EH. [Encl. (51)]
- 167. WO MCN: 28T08E9 and MCN: 28T08E8 concerned the removal and replacement of aircraft fire extinguishers. The work orders were inspected byb)(3), (b)(6), (b)(7)c (b)(3), (b)(6), (b)(7)cd maintenance control was signed off by (b)(3), (b)(6), (b)(7)c [Encl. (51)]
  - 168. (b)(3), (b)(6), (b)(7)c is a qualified flight equipment CDI as of 1 February 2022. [Encl. (46)]
  - 169. (b)(3), (b)(6), (b)(7)c is a qualified Safe for Flight maintenance controller as of 5 January 2022. [Encl. (46)]

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- 170. On WO MCN: 28T08EH, the right-hand engine was serviced with 36 ounces of MIL-PRF-23699 oil. The work order was inspected by c, (b)(3), (b)(6), (b)(7)c and maintenance control was signed off by (b)(3), (b)(6), (b)(7)c [Encl. (51)]
- 171. (b)(3), (b)(6), (b)(7)c is a qualified Power Line CDI as of 9 September 2021. [Encl. (46)]
- 172. The mishap aircraft had four major components removed and replaced within the last 10 flights; MCN: 28T08CM, MCN: 28T08C1, MCN: 28T08D3, and MCN: 28T088C. [Encl. (51)]
- 173. On WO MCN: 28T08CM, the Right-Hand System 3 Thermal Control Valve was removed and replaced. The work order was inspected by (b)(3), (b)(6), (b)(7)c (b)(3), (b)(6), (b)(7)c [Encl. (51)]
  - 174. (b)(3), (b)(6), (b)(7)c is a qualified Airframes CDI as of 16 November 2021. [Encl. (46)]
  - 175. On WO MCN: 28T08C1, the left hand Central De-ice Distributor (CDD) was removed and replaced. The work order was inspected by maintenance control was signed off by (b)(3), (b)(6), (b)(7)c (b)(3), (b)(6), (b)(7)c (b)(3), (b)(6), (b)(7)c (b)(3), (b)(6), (b)(7)c (b)(7)
  - 176. On WO MCN: 28T08D3, the Upper Crew Door Window was removed and replaced. The work order was inspected by (b)(3), (b)(6), (b)(7)c and maintenance control was signed off by (b)(3), (b)(6), (b)(7)c [Encl. (51)]
  - 177. (b)(3), (b)(6), (b)(7)c is a qualified Airframe CDI as of 25 May 2021. [Encl. (46)]
  - 178. On WO MCN: 28T088C, the Shaft Driven Compressor was removed and replaced. The work order was inspected by (b)(3), (b)(6), (b)(7)c and maintenance control was signed off by (b)(3), (b)(6), (b)(7)c [Encl. (51)]
  - 179. A review of the previous five months of completed work orders indicated no administrative discrepancies that would pertain to this mishap. [Encl. (42), (47), (50), (51), (52)]
  - 180. Post-mishap K-series Voice and Data Recorder (KVADR) analysis by the MV-22B Fleet Support Team (FST) indicates the only recorded mechanical anomaly as a spike in right-hand prop-rotor gearbox (PRGB) torque just after GT31's closest proximity to the western valley wall. [Encl. (34), (53)]
  - 181. KVADR data does not indicate any catastrophic component failure as potentially attributable to the PRGB torque spike. [Encl. (53)]
  - 182. Computer and other information technology shortcomings which occurred after arriving in Norway left the squadron with limited paper printer capability. This resulted in mission products such as cover pages and navigation logs being produced on computers and then photographed for reference on Marine Air Ground Tablets (MAGTAB). This also resulted in the electronic routing and signature of documents like flight schedules, RAWs, and other paper products used daily in squadron activities. It may also have been a contributing factor in missing signatures or entries on maintenance documents. [Encl. (16), (17)]

#### Part Four: Guidance and Added Measures to Prepare for COLD RESPONSE

- 183. The Commanding General of 2d MAW directed the commanding officer of VMM-261 to provide pilots with approximately 15 hours of flight time within the 30 days prior to executing COLD RESPONSE. (Encl. (16)]
- 184. The VMM-261 commanding officer directed pilots that were to participate in COLD RESPONSE to complete at least ten flight hours and five simulator hours prior to departing for the exercise. [Encl. (16), (17)]
- 185. A dedicated syllabus was created by the VMM-261 Operations Department, modeled after the MV-22B Training and Readiness Manual. It consisted of three simulator events covering COLD RESPONSE specific training. These events covered icing systems and emergency procedures, MAT, LAT, and Reduced Visibility Landings (RVL) in snow ("white out") conditions. [Encl. (16-18)]
- 186. The squadron procured additional cold weather survival equipment prior to departing for COLD RESPONSE to aid in crew sustainment if forced to land away from an airfield. This equipment was packaged and installed onto aircraft for the duration of the exercise. Aircrew were briefed on the possibility of this occurrence, and conducted a live, overnight test of the equipment to validate supportability and confidence in the systems. [Encl. (16-17), (31)]

#### Part Five: The GHOST 31 Flight and Post-Mishap Identification

- 187. GT31 conducted initial takeoff from Bodø Airport at  $\underline{1100}$  on 18 March 2022 to conduct the first portion of the planned flight to the north. [Encl. (24), (34), (36)]
- 188. GT31 flew the northern portion of the flight without incident and returned to Bodø Airport for fuel at  $\underline{1402}$ . [Encl. (17), (24), (34)]
- 189. GT31 departed Bodø Airport for a second time at  $\underline{1433}$  with 11,142 pounds of fuel on board. [Encl. (17), (24), (34), (36)]
- 190. A post-mishap fuel sample obtained by MWSS-272 indicated no issues with fuel taken aboard the mishap aircraft. [Encl. (54)]
- 191. At <u>1442</u>, MC reported "Southbound" to Norwegian air traffic control (callsign Polaris Control) on radio frequency 118.55Mhz. [Encl. (36)]
- 192. At approximately  $\underline{1510Z}$ , Polaris Control transmitted "Unreadable" and directed GT31 to "contact Stokka frequency 120.4Mhz". There was no further communication from GT31 on frequency 118.55Mhz between  $\underline{1511}$  and  $\underline{1630}$ . [Encl. (36)]
- 193. The radar track from Polaris Control indicates GT31 traveled along the pre-planned route until approximately  $\underline{1538}$  when the aircraft deviated to the north in the vicinity of the airport at Brønnøysund. [Encl. (36)]
- 194. Polaris Control recorded operating altitudes for GT31 between 300 and 1200 feet above ground level along its route of flight. Altitudes below 500 feet above ground level were correlated with available data and indicated the aircraft was either over water, operating in conversion mode, or both. [Encl. (36)]

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- 195. Polaris Control's last observed position for GT31 was N66 53.6 / E012 51.16, at 900 feet above ground level and turning southeast. [Encl. (36)]
- 196. GT31 was in contact with Mosjøen Airport between 1558 and 1601. [Encl. (36)]
- 197. GT31 made contact with Mo i Rana Airport between 1604 and 1610, entering its airspace from the west and leaving to the north. [Encl. (36)]
- 198. The last noted air traffic control position for GT31 was at N66 41.23N / E014 10.53, at 2900 feet above mean sea level at <u>1619</u> as determined through Identify Friend/Foe return. [Encl. (36)]
- 199. At approximately <u>1622</u>, flight recorder data indicates GT31 entered the Gråtådalen valley at 1241 feet above ground level (2926 feet above mean sea level) at an airspeed of 223 knots, heading northeast. [Encl. (34), (38)]
- 200. The floor of the Gråtådalen valley lies approximately between 1500 and 1000 feet above mean sea level, sloping down towards the north. [Encl. (27), (30)]
- 201. At the time, the weather in the Gråtådalen Valley appeared to be scattered clouds higher than 5000 feet above mean sea level and visibility approximately five statute miles or more. [Encl. (37)]
- 202. Winds within the valley were recorded at approximately from 229 degrees at 24 knots by onboard aircraft systems, indicating a south-to-north tailwind for the aircraft. [Encl. (34)]
- 203. At approximately  $\underline{1622:08}$ , GT31's cyclic position was moved forward, initiating a descent from 3045 feet above mean sea level/ 1145 feet above ground level. The cyclic did not return to the previous longitudinal position until approximately  $\underline{1622:40}$ , as the aircraft reached approximately 1568 feet above mean sea level / 532 feet above ground level. [Encl. (34), (38)]
- 204. Following the descent, the radar altimeter for GT31 did not register an altitude above 557 feet above ground level for the rest of the flight. [Encl. (34), (38)]
- 205. After conducting the descent, GT31 began maneuvering at greater than 45 degrees angle of bank (AOB) while transiting around terrain along the Gråtådalen valley at speeds of up to 259 knots calibrated airspeed (KCAS), 39 knots faster than VMM-261's default LAT planning airspeed. [Encl. (34), (38), Ref. (g)]
- 206. GT31 conducted a left-hand turn to follow the river valley. During this turn, the aircraft reached 68 degrees AOB. [Encl. (34), (38)]
- 207. The NATOPS limit for AOB in an MV-22B is 60 degrees. [Ref. (1)]
- 208. An MV-22B is unable to maintain both altitude and airspeed at 68 degrees AOB in any published airplane configuration flight regime published in Energy-Maneuverability Diagrams. [Ref. (h)]
- 209. GT31 lost altitude and airspeed following the left-hand turn and began rapidly closing the distance to the western wall of the valley. In an effort

- Subj: COMMAND INVESTIGATION INTO THE MV-22B AVIATION MISHAP THAT OCCURRED ON 18 MARCH 2022 DURING EXERCISE COLD RESPONSE
- to avoid the terrain, GT31 conducted a right-hand turn that reached 89 degrees AOB. At the time of this right-hand turn, GT31's airspeed was 202 KCAS and its altitude was 1261 feet above mean sea level. GT31 came as close as 27 feet from the western valley wall during the maneuver. [Encl. (34), (37), (38)]
- 210. Attempting to complete the turn at 89 degrees AOB placed the aircraft well outside of the tested aircraft maneuverability capabilities. The highest AOB depicted on any MV-22B airplane configuration Energy-Maneuverability Diagram is 75 degrees. Flight in this regime is unsustainable and results in the aircraft rapidly descending. [Encl. (38), Ref (h)]
- 211. During the right-hand turn, the thrust control lever (TCL) position was reduced to full aft for approximately 2-3 seconds, followed by a rapid increase to the full forward soft stop (4"). [Encl. (34), (38)]
- 212. A reduction in airspeed while maintaining angle of bank and altitude may cause an increase in turn-rate and a decrease of intended turn radius, meaning a tighter and "faster" turn. [Ref (h)]
- 213. The near 90-degree AOB turn resulted in a rate of descent as high as 4000 feet per minute. [Encl. (34), (38)]
- 214. The recorded aircraft telemetry and fault data ends at approximately <a href="mailto:1623:02">1623:02</a>. [Encl. (34)]
- 215. Extrapolation based on the last recorded aircraft speed and locations indicates that GT31 crashed into the eastern wall of the Gråtådalen Valley at approximately 1623:04. [Encl. (30)]
- 216. The impact resulted in complete structural failure and separation of all major airframe components. [Encl. (55)]
- 217. The photographic evidence suggests that all four Marines aboard GT31 were killed by the impact. [Encl. (55)]
- 218. When GT31 failed to return as expected at 1800, efforts were made to establish communications with the aircraft. These were unsuccessful. Of note, satellite communication networks were not available for use by the aircraft. Communication with the ODO was often limited to the local area due to line-of-sight communications being restricted by the terrain. Aircrew were often only able to update status and location during missions via cellular phone text messages when on deck at intermediate locations. (Encl. (16-17)]
- 219. Overdue aircraft procedures were initiated by VMM-261 at 1830, 30 minutes after GT31's expected return. This is standard procedure and accounts for normal delays in operations. The squadron began executing the COLD RESPONSE pre-mishap plan which included notification of higher headquarters, and initial coordination for search and rescue assets. [Encl. (16-17)]
- 220. A Norwegian search-and-rescue (SAR) squadron received tasking from the Joint Rescue Coordination Center for an overdue aircraft at  $\underline{1900}$ . A SAR helicopter was launched at  $\underline{1935}$  due to delays associated with weather planning. [Encl. (39), (40)]

- Subj: COMMAND INVESTIGATION INTO THE MV-22B AVIATION MISHAP THAT OCCURRED ON 18 MARCH 2022 DURING EXERCISE COLD RESPONSE
- 221. The Norwegian SAR standard operating procedure is to launch within 15 minutes of notification. [Encl. (39)]
- 222. The SAR helicopter was initially directed to the last known GT31 radar return location. While enroute, it was updated with GT31's route of flight. It then proceeded to the Gråtådalen Valley. [Encl. (39), (40)]
- 223. The SAR helicopter initially identified the crash site via GT31's automatic Emergency Locator Transmitter (ELT). The ELT transmits on the VHF-Guard frequency (121.5 Mhz). The SAR helicopter did not pick up the ELT signal until the second overflight; due to the terrain, it was only able to receive the signal while directly overhead. This was followed by visual observation of an infrared strobe light and evidence of the crash in the terrain at approximately 2105. [Encl. (39), (40)]
- 224. The SAR helicopter attempted to lower first responders to the crash site to search for survivors. They were forced to abort and depart the area due to deteriorating weather. The weather at 2100 was assessed to be overcast ceilings at approximately 2000 feet above mean sea level with blowing snow and freezing rain. The SAR crew reported low confidence of survivors based on observations of the crash site. [Encl (39), (40)]
- 225. Two personal electronic devices (PEDs) were located at the crash site, including an iPad and a GoPro camera. The GoPro footage was collected by Norwegian personnel and shared with both the IO and the AMB. [Encl. (37), (55)]
- 226. The VMM-261 commanding officer reported that non-approved PEDs are not authorized for use during flight operations, in accordance with 2d MAW and Marine Aircraft Group 26 policy. [Encl. (16), (17), Ref (i), (j)]
- 227. The squadron is equipped with an approved Marine Air Ground Tablet (MAGTAB) set. Aircrew routinely utilized them to record and transport preflight planning documents to the aircraft for use in flight. [Encl. (17)]

### Opinions

- 1. The IO and AIO were tasked by enclosure (1) with addressing six different issues. The opinions of the IO and AIO are summarized as follows:
- a. The circumstances of GT31's tasking and the degree to which the mission was necessary. GT31 was tasked on 18 March 2022 with supporting the COLD RESPONSE training exercise with Air Logistics Support (ALS). If the COLD RESPONSE scenario did not require ALS, then GT31 was authorized to conduct unit-level training such as familiarization, instrument, and Mountain Area Training in order to maintain aircrew proficiency, develop Captain Tomkiewicz's flight leadership experience, and progress the squadron towards its annual flight hour goals. The degree to which the flight was necessary is a matter of nuance. No sortic scheduled by 2d MAW in support of COLD RESPONSE was absolutely necessary, since the exercise took place in training rather than a real-world combat or crisis-response environment. However, conducting realistic training is an important component of ensuring real-world readiness in the event of a conflict or crisis. Since the weather conditions were met for the training flight, the aircrew were qualified, and the airframe was properly maintained and airworthy, the GT31 mission on 18

March 2022 was as necessary as any that is assigned on a daily flight schedule across the Marine Corps. [FF 1-79, 80-89, 110-123, 134, 135-178]

- b. Whether the mission could or should have been delayed or cancelled due to weather or any other factor.
- (1) It is clear that the mission <u>could</u> have been delayed or cancelled had weather concerns or any other safety-of-flight factor been present. 2d MAW squadrons supporting COLD RESPONSE in Norway had adequate sources of weather forecasting, authority to adjust or cancel missions, and lines of communication between aircrew and operations duty officers to receive weather updates in a timely manner. The ability of squadrons to cancel flights due to weather is evident from the fact that numerous fixed-wing sorties were cancelled on 18 March 2022 due to winds exceeding ejection-seat limits. [FF 110-134]
- (2) It is also clear that there was no weather-related reason to delay or cancel the GT31 mission specifically. The weather brief received by the GT31 aircrew on the morning of 18 March 2022 contained data from the United States National Weather Service, the United States Air Force Global Air-Land Weather Exploitation Model (GALWEM), and Norwegian agencies. The holistic forecast showed the weather remaining sufficient for GT31 to conduct flight under "visual flight rules" conditions for the planned duration of the mission. [FF 110-123]
- (3) In addition, two findings are indicative that the weather developed as forecast. The first is the conduct of the pilots during flight operations. GT31 initially launched at 1100 and flew for approximately three hours before returning to Bodø for fuel. After re-fueling, the aircraft commander (Captain Tomkiewicz) made the decision to continue with the mission; it can be assumed that he would not have done so if the weather had been adverse. The second is the GoPro footage recovered from the wreckage, which reveals that the weather immediately prior to the mishap and in vicinity of the mishap location was greater than five miles of visibility with a scattered cloud deck at an altitude greater than 5000 feet above mean sea level. It is possible that the tailwind encountered in the valley may have adversely affected the turning performance of the aircraft in proximity to the terrain just prior to impact. However, similar winds were experienced by the 17 March LAT flight. Any adverse influence of the winds on the mishap aircraft's performance were a result of the profile and maneuvers conducted in the valley by the crew of GT31. It is the opinion of the IO that the weather was sufficient to conduct the assigned mission and was not a causal factor in the mishap. [FF 110-134, 187-189, 201]
- c. Whether the pilots and aircrew were sufficiently qualified, experienced and prepared to fly the mission under the conditions that were known to exist or which could reasonably have been expected.
- (1) VMM-261's commanding officer made a reasonable and risk-mitigated decision to assign the crew to the 18 March 2022 flight schedule supporting COLD RESPONSE tasking and squadron training. The squadron had established procedures that demonstrated an elevated level of respect for the dynamic nature of the Norwegian weather patterns and aviation risks associated with mountainous operations. Prior to deploying to Norway, the squadron exceeded requirements by conducting a customized training syllabus with proscribed academics and simulation events to prepare aircrew for mountainous and cold weather operations. Both Captain Tomkiewicz and Captain Reynolds took part

in the pre-deployment training, received the flight safety briefs from Norwegian officials, and had ample exposure to squadron risk mitigation measures concerning terrain and weather. [FF 1-79, 184-186]

- (2) An extensive review of training records shows that all four personnel aboard GT31 were qualified and prepared to carry out the mission as assigned. Regarding experience levels, Captain Tomkiewicz had flown seven events in Norway, equating to 18.6 flight hours, and overflew the planned route of flight the day prior. Captain Reynolds had flown five events in Norway totaling 6.8 flight hours. Corporal Moore had 31.8 hours of flight time in Norway. Although Gunnery Sergeant Speedy had not flown for over 130 days and was still in the Aerial Observer training syllabus, he was qualified to carry out the assigned mission. Holistically, the crew of GT31 had sufficient pre-deployment training, country briefs, mission planning and execution considerations, and exposure to Norwegian conditions to safely conduct the assigned mission. [FF 1-79, 81-90, 110-123, 183-186]
- d. Whether the aircraft had any known or suspected mechanical problems, and the extent to which these problems were resolved prior to the mission.
- (1) Interviews of VMM-261 maintenance personnel, an extensive review of BUNO 168330 maintenance records, and data recovered from BUNO 168330 were examined to determine if maintenance malpractice or catastrophic component failure were contributors to the mishap. The historical maintenance records for the preceding twelve months indicate that the aircraft was functionally capable to support the mission for which it was assigned. Although several administrative discrepancies are noted in the findings, these are not believed to be indicative of maintenance malpractice. The administrative discrepancies involved documentation errors and were most likely the result of limited computer and printer assets in the maintenance department. On maintenance work orders where component installation was improperly documented, the components in question were properly installed, documented, and annotated on follow-on work orders prior to the aircraft's next flight. [FF 135-182]
- (2) Additionally, the IO consulted with the MV-22B Fleet Support Team to validate assumptions concerning recovered KVADR data. The validation process included a flight recreation and an associated engineering evaluation based on GT31's flight characteristics during the mishap flight. The postmishap engineering assessment of recovered KVADR data indicate a single anomaly involving a right-hand PRGB torque spike. The cause of this spike was not assessed to have resulted from component failure or the loss of any component. We assess that the torque spike was most likely the result of the rotor hitting a treetop shortly before the crash. [FF 180-181]
- (3) Although the existence of open work orders without in-process documentation should have administratively prevented the release of the aircraft as safe for flight, the maintenance performed was sufficient to render the aircraft actually safe to fly. The investigation discovered no indications that a maintenance action or catastrophic component failure contributed to the mishap. [FF 135-182]
- e. Any evidence of wrongdoing, negligence, or failure to follow required procedures or best practices.
- (1) It is evident that the squadron did not conform to the Training and Readiness Program Manual requirements for low-altitude tactics

scheduling. No LAT training areas were properly certified by qualified aircrew, nor was the required certification acknowledgement by the 2d MAW Commanding General (G-3) ever processed. Additionally, schedules written by the squadron with the intent to conduct LAT failed to specify the minimum altitudes authorized in accordance with 2d MAW standard operating procedures. Though the squadron may have attempted to apply the scheduling of LAT as a risk mitigation measure, their application process was flawed. [FF 90-109]

- (2) The profile flown by GT31 was commensurate with weather conditions and the terrain until approximately 90 seconds before the crash. Upon entering the Gråtådalen Valley, GT31 deviated from the planned and filed altitudes and descended into the valley. After descending, GT31 began conducting high-angle of bank turns along the valley floor, at speeds approaching 260 KCAS, while maneuvering to avoid terrain at approximately 500 feet above ground level. This required significant maneuvering and placed the flight in a low-altitude tactics regime which it was not authorized to conduct and not qualified to execute with the crew onboard. This profile resulted in the crew maneuvering the aircraft in such a way as to exceed NATOPS limits, and placed the aircraft into a regime of flight that neither the crew nor the aircraft could recover from due to proximity to terrain. [FF 93-94, 100-104, 187-215]
- (3) A member of GT31's aircrew was using an unauthorized GoPro video recorder during the mission and in the timeframe immediately preceding the crash. Without audio to accompany the GoPro flight footage, the IO cannot determine to what degree the unauthorized device influenced the aircrew's decision-making process. [FF 225-226]
- f. Any steps that should have been taken that would have allowed GT31 to have been flown more safely?
- (1) The chain of command for GT31 took all reasonable steps to prepare the squadron for operations in Norway's artic environment. Sufficient pre-deployment expectations and guidance were issued by 2d MAW, MAG-26, and the VMM-261 commanding officer which resulted in the squadron conducting an extensive training syllabus of flights/simulators and education outside of Training and Readiness Manual requirements, the development of unique flight procedures, and cold weather equipment supplementation which demonstrated a respect for the risks of flight operations in Norway. [FF 19, 39, 184-186]
- (2) Although VMM-261 did fail to conduct proper administrative procedures regarding the scheduling and certification of the LAT route, this failure did not result in a "normalization of deviance" within the squadron with regards to the execution of LAT by aircrew. When LAT was deliberately scheduled - as evidenced by the 17 March 2022 mission - the squadron conducted it safely and within the performance capabilities of both the aircraft and aircrew. To illustrate this further, the crews on 17 March 2022 were scheduled to conduct LAT on the "Bravo" route. It is reasonable to assume that they understood that they were executing the mission in accordance with all governing directives since they were executing a schedule signed by the squadron commanding officer. They understood the route to be authorized and approved to fly on, and then flew it according to policy. It is unlikely that further efforts by VMM-261 to certify the route beforehand would have significantly changed the flight events or profile of 17 March 2022. Any possible influence of the 17 March 2022 flight on the decisions made by the crew of GT31 could only have been mitigated by not scheduling the

- Subj: COMMAND INVESTIGATION INTO THE MV-22B AVIATION MISHAP THAT OCCURRED ON 18 MARCH 2022 DURING EXERCISE COLD RESPONSE
- 17 March 2022 LAT mission. However, it is impossible for the squadron to have predicted any such possible influence on the mishap crew because GT31 was not scheduled or authorized to conduct LAT on the day of the mishap. Without specific guidance given via the flight schedule, the choice to conduct the route of flight that ended in GT31's crash was a deliberate decision to disregard policy. [FF 90-99]
- 2. The IO and AIO thoroughly pursued the possibility that dynamic arctic weather patterns were a significant contributor to the mishap. This theory was supported, at least initially, by SAR weather accounts at the mishap site, temporary forecast lines taken from weather reports, pilot interviews, first-hand observation of local weather patterns, and post-mishap weather analysis products. The last thirty-five seconds of the GT31 flight recreation, and the reconstruction of the flight path into the Gråtådalen Valley would also support this hypothesis when viewed through the lens of weather avoidance. The recovered GoPro footage, however, clearly shows that while degraded weather was encountered earlier in the flight, it was not a significant factor in the vicinity of the mishap location. [FF 112-116, 120-123, 187-202, 220-225]

#### Recommendations

- 1. No further investigation is needed, and no punitive actions are required.
- 2. Video debriefing techniques are accepted practices across several platforms in the Marine Corps. However, the MV-22B community does not possess a video or active voice recording system. Without such a system, the ability to analyze post-flight information is reduced to raw number interpretation, aircrew recollection, maintenance data visualization, or twodimensional position and orientation information. The lack of full-motion video (FMV) recording in the MV-22B has been highlighted as a deficiency during numerous Aviation Safety Operational Advisory Groups and was included as a recommendation following a 2014 MV-22B wire strike mishap. The capability has yet to be incorporated into the MV-22B, but should be acquired as quickly as possible through aircraft engineering or commercial off-theshelf means. An ancillary effect of adding FMV to the MV-22B cockpit may be the impact on the cognitive processes of the aircrew. If the unauthorized employment of a video recording device can be construed as negatively influencing aircrew to make bad decisions, then the authorized employment of an institutional video recording device may encourage sound decisions and positive safety outcomes.
- 3. The squadron put extensive rigor into developing an additive syllabus beyond Training and Readiness Manual requirements to prepare aircrew for expected operating conditions in Norway. This syllabus should be promulgated as a "Best Practice" for future MV-22B cold-weather/arctic operations and serve as a standard to replicate for units deploying to unique and challenging environments.
- 4. East Coast MV-22B squadrons are at a disadvantage regarding exposure frequency to operations in mountainous terrain compared to other MV-22B units. As part of pre-deployment training, squadron deployments to locations providing exposure to general flight and LAT operations in mountainous terrain should be supported and funded as critical mission requirements.
- 5. The verbiage utilized by the Training and Readiness Program Manual conflates the term "low altitude tactics" as "low altitude training" in such

a way as to restrict an MV-22B commander's ability to utilize LAT proficiency and currency as a risk mitigation tool. The unique operating envelope of the MV-22B crosses fixed-wing and rotary-wing profiles, allowing for situations in which an MV-22B may operate routinely below 500 feet above ground level safely. If a commander wishes to take advantage of the proficiency and currency management of MSHARP in a situation in which crews may expect to encounter conditions which drive them to "low altitude", it must be scheduled. However, as the policy is written, a commander who does so may face scrutiny for the scheduling of LAT without an "approved LAT training area". The verbiage of the Training and Readiness Program Manual should be updated for MV-22B LAT to clarify the differences between the execution of LAT and the application of guidelines towards specified LAT "training."

6. The flight characteristics and normal operating envelope of the MV-22B create unique challenges when attempting to define and mitigate the risk of low altitude flight. The Training and Readiness Program Manual definition allows for much open-ended interpretation. This definition may allow for flexibility on a commander's behalf for conducting flight operations, but also may lead to a false sense of security when certain listed components of LAT are not met. LAT considerations are also not applied when discussing MAT, where the focus of training is not on en-route operations (where terrain and/or weather may drive personnel into a LAT regime) but on the landing environment. The MV-22B community, along with MAWTS-1, must convene a working group to discuss the issue of petter defining LAT and integrating LAT / MAT together into more cohesive condepts.

(b)(3), (b)(6), (b)(7)c



2D MARINE AIRCRAFT WING II MARINE EXPEDITIONARY FORCE FLEET MARINE FORCES POSTAL SERVICE CENTER BOX 8050 CHERRY POINT, NC 28533-0050

IN REPLY REFER T 5800 SJA MAR 2 3 2022

From: Commanding General, 2d Marine Aircraft Wing, FMF To: (b)(3), (b)(6), (b)(7)c USMC

Subj: COMMAND INVESTIGATION INTO THE MV-22 AVIATION MISHAP THAT OCCURRED ON 18 MARCH 2022 DURING EXERCISE COLD RESPONSE

Ref: (a) JAGINST 5800.7F w/ch 1 (JAGMAN)

- 1. This letter appoints you, per chapter II of the reference, to investigate the MV-22 aviation mishap that occurred in the vicinity of Bodo, Norway on 18 March 2022 and resulted in the death of four Marines. At a minimum, your investigation will address the following issues:
- a. The circumstances under which the MV-22 mission, call-sign Ghost 31, was tasked and the degree to which the mission was necessary.
- b. Whether the mission could or should have been delayed or cancelled due to weather or any other factor.
- c. Whether the pilots and aircrew were sufficiently qualified, experienced and prepared to fly the mission under the conditions that were known to exist or which could reasonably have been expected.
- d. Whether the aircraft had any known or suspected mechanical problems, and the extent to which those problems were resolved prior to the mission.
- e. Any steps that should have been taken that would have allowed the Ghost 31 mission to have been flown more safely.
- f. Whether there was wrongdoing, negligence, or failure to follow required procedures or best practices by any member of 2d Marine Aircraft Wing.
- 2. You will provide your findings of fact, opinions and recommendations in writing no later than 21 April 2022. This investigation is your primary duty until it is completed. Request additional time via the Staff Judge Advocate if you believe an extension is needed.
- 3. (b)(3), (b)(6), (b)(7)c U.S. Marine Corps, is appointed hereby as an assistant investigating officer (IO). (b)(3), (b)(6), (b)(7)c will provide technical expertise regarding the MV-22 platform, and is

Enclosure (1)

available to help in the compilation of your report in whatever manner may be necessary.

4. You are directed to seek the assistance of the Office of the Staff Judge Advocate before beginning your investigation. The point-of-contact is Colonel Joseph M. Jennings, who can be reached at (252)466-8163 or via e-mail at: joseph.m.jennings@usmc.mil.

Without S.

M. S. CEDERHOLM



2D MARINE AIRCRAFT WING II MARINE EXPEDITIONARY FORCE FLEET MARINE FORCES POSTAL SERVICE CENTER BOX 8050 CHERRY POINT, NC 28533-0050

in REPLY REFER TO. 1920 SJA

MAY 22 2022

From: Commanding General, 2d Marine Aircraft Wing, FMF To: (b)(3), (b)(6), (b)(7)c USMC

Subj: COMMAND INVESTIGATION INTO THE MV-22 AVIATION MISHAP THAT

OCCURRED ON 18 MARCH 2022 DURING EXERCISE COLD RESPONSE

Ref: (a) JAGINST 5800.7F w/ch 1 (JAGMAN)

1. The request for an extension has been approved. Your investigation is now due close of business 21 June 2022.

2. The point of contact for questions or concerns is the Office of Staff Judge Advocate, (b)(6), (b)(7)c at (252) 466-3559 or via e-mail at: (b)(6), (b)(7)c

(b)(6), (b)(7)c

/J. M. JENNINGS
By direction

Copy to: Files



2D MARINE AIRCRAFT WING
II MARINE EXPEDITIONARY FORCE
FLEET MARINE FORCES
POSTAL SERVICE CENTER BOX 8050
CHERRY POINT, NC 28533-0050

IN REPLY REFER TO: 1920 SJA

APR 2 1 2077

From: Commanding General, 2d Marine Aircraft Wing, FMF To: (b)(3), (b)(6), (b)(7)c USMC

Subj: COMMAND INVESTIGATION INTO THE MV-22 AVIATION MISHAP THAT

OCCURRED ON 18 MARCH 2022 DURING EXERCISE COLD RESPONSE

Ref: (a) JAGINST 5800.7F w/ch 1 (JAGMAN)

1. The request for an extension has been approved. Your investigation is now due close of business 21 May 2022.

2. The point of contact for questions or concerns is the Office of Staff Judge Advocate, (b)(6), (b)(7)c at (252) 466-3559 or via e-mail at:

(b)(6), (b)(7)c

JENNINGS.JOSE Digitally signed by JENNINGS.JOSEPH.MC
PH.MCPHERSO PHERSON (b)(6), (b)(7)c

(b)(6), (b)(7)c

Date: 2022.04.27
10:27:24-04'00'

J. M. JENNINGS
By direction

Copy to: Files



MARINE MEDIUM TILTROTOR SQUADRON 261 (-) REINFORCED, COLD RESPONSE DETACHMENT MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF POSTAL SERVICE CENTER BOX 21016

JACKSONVILLE, NC 28545-1016

MISSION: SUPPORT THE MAGTF COMMANDER BY PROVIDING ASSAULT SUPPORT TRANSPORT OF COMBAT TROOPS, SUPPLIES AND EQUIPMENT, DAY OR NIGHT, UNDER ALL WEATHER CONDITIONS DURING EXPEDITIONARY, JOINT, OR COMBINED OPERATIONS.

FLIGHT SCHEDULE FRIDAY, 18 MARCH 2022 (2077)



ODO: DO (OPS 5 : AD (OPS 5): SCHEDULE (24)

(b)(3), (b)(6), (b)(7)c

0830-LPOD

SCHEDULED HOURS

6.6

MAR(GOAL/SCHEDULED/EXECUTED) 210.1 /130.9/ 87.1 QTR 600.3 /493.4/ 378.9 FY 2426.0 / 799.9 / 673.9

FIELD HOURS: OUIET HOURS:	24 HRS NONE	BMNT / SR:	0412 / 0611	SS / EENT:	1812 / 2013	MR / MS:	1815 / 0703	ILLUM: 100%	LLL: HLL:	NONE 2013-0407*
QUILT HOURS.	TACTAL			The State of the S			many to his track of	The same of the same of the same of	HLL:	2013-0407

EVENT	TMR	BRF	ETD	ETR	HRS	AIRCREW	TRAINING CODES	MISSION	NOTES	CONFIG
GHOST			-	100						
3-0	2K2	0900	TBD	TBD	TBD	(b)(3), (b)(6), (b)(7)c		FCF		
MV-22B						(2)(3), (2)(3), (3)(1)		177		
tions.						CAPT TOMKIEWICZ, M.	2240, 3040	4	LS/	
GHOST 3-1 MV-22B	1.1.1	0000	1100	1000		CAPT REYNOLDS, R.	2240, 3040	ALS /		
	1A1	0900	100 1100 1800 6.6 CPL MOORE, J. 2240, 3040	MARLOG	1	1				
		5				GYSGT SPEEDY, J.	2240P, 3040P			

\*\* UNLESS OTHERWISE INDICATED, ALL FLIGHTS WILL ORIGINATE AND TERMINATE AT BODØ AIR BASE (ENBO) \*\*

FLIGHT NOTES:

1. TBD: CREW TO MARLOG AT ENKJ.

**ADMIN NOTES:** 

START		LOCATION	REMARKS	NOTES	POC
10000	0930	OPS 5	MAINTENANCE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	
)	1030	CAVES	INTEL BRIEF	S-2 PERSONNEL TO ATTEND	
)	TBD	OPS 5	TRAP PLANNING CELL	ALL AVAILABLE PILOTS	
0	1200	CAVES	RETROGRADE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	
1330	1400	MS TEAMS	APB	ASRs FOR FOLLOWING DAYS VERIFICATION	
1400	1445	OPS 5	TRAP FORCE REHEARSAL MEETING	ALL 19 MARCH TRAP FORCE TO ATTEND	(b)(3), (b)(6), (b)(7)c
NLT	1500	INDIVIDUAL SPACES	SITREP INPUTS DUE TO S-3	ALL SHOPS TO SUBMIT	(b)(0), (b)(0), (b)(1)0
NLT	1600	OPS 5	SITREP DUE TO MAW G-3	S-3 TO SUBMIT	
NLT	1600	OPS 5	ATO INPUTS DUE TO MAW G-3	OPS CLERKS TO SEND TO (b)(3), (b)(6), (b)(7)c (b)(3), (b)(6), (b)(7)c	
1900	1930	OPS 5	MAINTENANCE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	

OPS: DSSN: MAINT: 75/

(b)(3), (b)(6), (b)(7)c

COMMANDING OFFICER



# VMM-261 NATOPS AUDIT SHEET



NAME: TOMKIEW ZCZ

DATE: 46/30/21 AUDITOR: (b)(3), (b)(6), (b)(7)c

ECTION I - GENERAL	,
PRIVACY ACT STATEMENT - SIGNED AND DATED / RECORD OF DISCLOSURE	1
PART A	
♠ NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET REVIEW AND	
CERTIFICATION RECORD (3760/32A)  o REVIEWED & CERTIFIED - REPORTING / ANNUALLY / CHANGE IN FLIGHT STATUS	
PART B	
PILOTS - ONLY MOST CURRENT PCS (DIFOP) ORDERS	$\checkmark$
FNLISTED AIRCREW - VOLUNTARY FLIGHT STATUS LETTERS	NA
▲ LETTERS OF SUSPENSION / REVOCATION PERMANENTLY RETAINED	
PART C	
♦ MOST RECENT ANNUAL FLIGHT PHYSICAL CHIT (6410/2)(Only the most recent)	<u> </u>
♠ ALL GROUNDING AND SUBSEQUENT UP CHITS SINCE ANNUAL	<u>-</u>
♦ WAIVER FORMS PERMANENTLY RETAINED	
PART D	
♣ FLIGHT EQUIPMENT RECORDS CS (DIFOP) ORDER (3760/32B)(NATOPS sign the bottom)	
SECTION II - QUALIFICATIONS AND ACHIEVEMENTS	
PARTA	. /
<ul> <li>▶ PERMANENT RECORD OF ALL FUNCTIONAL DESIGNATIONS (3760/32C) (All previous letter from CO)</li> <li>▶ RETENTION OF DESIGNATION LETTERS FOR ALL DESIGNATIONS (3760/32C)</li> </ul>	
◆ RETENTION OF DESIGNATION LETTERS FOR ALL DESIGNATIONS (3760/32C)  (Eusure an ATF entered ion APR and logbook updated)	
PART B	
♠ PERMANENT RECORD OF ALL QUALIFICATIONS NOT INCLUDED IN PART A	
▲ RETENTION OF DESIGNATION LETTERS FOR ALL QUALIFICATIONS (3760/32C)	V
(Ensure an ATF entered and logbook updated)	
PART C	
◆ PERMANENT RECORD OF CRM TRAINING AND FLIGHTS	
(Matches NATOPS/Inst Check / retain amual class roster / CRMI/F logged)  ECTION III – TRAINING	
PART A	
♣ RECORD OF ALL SCHOOLS AND COURSES ATTENDED (3260/32E)(GWOE1-5 no longer req)	
COPY OF ALL TRAINING COMMAND / FRS SUMMARIES SINCE 01 JAN 88	7
PART B	
♠ PERMANENT RECORD OF ALL SURVIVAL TRAINING (3760/32F	-1/
♦ NITE LAB TRAINING DOCUMENTATION	
▲ ANNUAL EGRESS TRAINING DOCUMENTATION (3760/32F)	
(Check EMER EGRESS completed on NATOPS check)	
PART C	
ALL EXAMS PERTINENT TO AVIATION QUALIFICATIONS (Current IGS, OPEN/CLOSED book, update cov/ppage SEC III.C exams.)	
PART D	
▲ ALL NATOPS EVALUATION RECORDS (3710/7) (Kneeboard card and report, numerical grade for open/closed book,	
ensure egress/CRM complete, update SEC H.C. Mise and SEC HI.B. Egress, update logbook)	
PART E	./
▲ ALL INSTRUMENT RATING REQUESTS (3710/2)	
(Kneeboard card/application, applicant signed application, update CRM/Egress as req. update logbook)  INSTRUMENT QUALIFICATION WAIVERS	
SECTION IV – FLIGHT RECORDS	
PART A	
• (No longer req, MSHARP)	V
PART B	<del>_v</del> _
♠ PERMANENT RECORD OF ALL AIRCRAFT/MISHAPS FLIGHT VIOLATIONS INVOLVING AN AIRCREW CA	USAL FACTOR.
AND FNAEB RESULTS. FNAEB ENTRY SHALL CONTAIN: ENTRIES AUTHORIZED BY PARAGRAPH 10.5.2.2	3, DATE OF THE
FNAEB, AND CO COMMENTS. CO MAY NOT DELEGATE THIS RESPONSIBILITY. (3760/32H)	)

## ATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

SECTION IA - REVIEW AND CERTIFICATION RECORD

NAME (Last, first, middle initial) TOMKIEWICZ, MATTHEW, J.

SSN

- 1. This jacket shall be reviewed by the Commanding Officer or a designated representative as follows:
  - a. Upon reporting to a unit.
  - b. Annually, within 30 days of birthday.
  - c. Upon change in flying status.
- 2. This jacket shall be certified by the Commanding Officer or a designated representative upon detachment of the individual.

	. ^	RECORDS	OF REVIEW		
DATE	Al dichard in-	DATE	SIGNATURE	DATE	SIGNATURE
3 Feb18					
356616 2671218					
P) MUZ CO	(b)(3) (b)(6) (b)(7)c				•••
11 DEC19	(b)(3), (b)(6), (b)(7)c				
235UNZ0					
305W21					
		ļ			

A DETACHMENT CERTIFICATION

דואט	DATE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	บทเา	DATE	SIGNATURE
VT3	8JNN18				
H+8	SNUV18,				
<u>U735</u>	3 may 19	(b)(3), (b)(6), (b)(7)c			
Umul - 204	3 may 19 18 Nov 19				

OPNAV 3760/32A (APR 1981)



#### UNITED STATES MARINE CORPS

MARINE CORES NO CORTON, NON ROME PAO BOM STORS TRIBERTY OF THE PROPERTY SERVICES

VINET TYPORRENGET on DAO Tashington DO Easto Orders of 10 Dorober 2109

From: Director, instablation Personnes Administration Center, Marine Corps

Ald Station New River

First Lieutenant Matthew J. Tomkiewicz 1512971110/7899 USKC

Subj: PERMANENT CHANGE OF ASSIGNMENT ORDERS

1. Pelivered, Effective 0800, 21 November 2019 you will stand detached from your present station and duties and report by 1500, 21 November 2019 to COMMANDING OFFICER, VMM\_261 MAG-26 2D MAW, PSC BOX 21015, JACKSCHVILLE, NORTH DAROLINA 26543 (MCC VM2) for duty.

- No entitlements are authorized in connection with these orders.
- 3. Upon arrival at your new duty station you are required to recertify your entitlement to BAH per the JTR Ch 10 para 10100.C.
- 4. REQUEST FOR RETIREMENT/RESIGNATION WILL BE IN ACCORDANCE WITH MODIFICIALS.
- 5. Thouseworders ere Permanent Change Of Assignment Orders Duty in a flying stagus involving operational flights (DISOS).

(b)(6), (b)(7)c

By direction

Copy to: Files

#### RECEIVING ENDORSEMENT

1. I have read and understand the contents of my orders. I received these orders at Jacksonville, North Carolina at 0500 on 21 November 2019. I understand that I am to report no later than 1500, 21 November 2019, to COMMANDING OFFICER, VMM-261 MAG-26 ZD MAW, PSC BOX 21015, JACKSONVILLE, NORTH CAROLINA 28545 VM2 for duty. I have in my possession my medical and dental records.

M. J. TOMKIEWIC2



### MARII E CORPS BASIC O DER

RANK: CAPT NAME: MATTHEW J TOMKJEWICZ EDIPI: 1512971110 PMOS: 7532 O: VM2 PRESENT COMMAND: 2D MAW (STUD PERS) JACKSONVILLE NO

**HQMC ORDER DETAILS - 20191022** 

FMCC:

FUTURE COMMAND:

VM2

VMM 261 MAG 26 2DMAW NEW

TOUR:

48 MONTHS, CONUS (OPERATIONAL-NO COST

REASSIGNMENT OR PCA)

ESTIMATED DETACH DATE:

20191120

REPORT NO LATER THAN:

BILLET:

20191121

RIVER NC

7532, O3, DIFOP

THIS IS AN INVOLUNTARY ASSIGNMENT.

A SECRET SECURITY CLEARANCE IS REQUIRED FOR THIS ASSIGNMENT.

20191022 - Original Order

PCA (DIFOP) (TOUR LENGTH 48 MONTHS)

- 1. DIR SNO RPT NLT 21 NOV 2019 TO COMMM261MAG262DMAW NEW RIVER NC (MCC VM2) DUTY IN FLYING STATUS INVOLVING OPERATIONAL FLIGHTS (DIFOP).
- 2. INCLUDE IN ORDERS ISSUED: REQUEST FOR RETIREMENT/RESIGNATION WILL BE IN ACCORDANCE WITH MCO 1900.16.
- 3. NO ENTITLEMENTS ARE AUTHORIZED IN CONNECTION WITH THIS ASSIGNMENT.

TRAVEL FUNDING DETAILS

There is no travel funding associated with these no-cost orders



# ORIGINAL ORDERS

#### UNITED STATES MARINE CORPS

MARINE AVIATION TRAINING SUPPORT GROUP 22
TRAINING COMMAND
271 FIFTH STREET
NAS CORPUS CHRISTI, TEXAS 78419

1320 S-1 7 May 19

SECOND ENDORSEMENT on CMC Washington DC Basic Orders of 25 Apr 19

From: Commanding Officer, Marine Aviation Training Support Group 22 To: First Lieutenant Matthew J. Tomkiewicz 1512971110/7531 USMC

Subj: MODIFICATION TO PERMANENT CHANGE OF STATION ORDERS (DUINS)

1. The following modifications to paragraph (1) of PCS Orders are authorized:

Delivered. Effective 0800, 17 May 2019 you will stand detached from your present station and duties and report by 2359, 31 May 2019 to COMMANDING OFFICER, VMMT-204, MAG 26, 2D MAW NEW RIVER, JACKSONVILLE, NORTH CAROLINA 28540 (MCC J9V) for duty under instructions (DUINS).

2.	The point of contact for this matter is	(b)(6), (b)(7)c	at (361) 961-3486
or	(b)(6), (b)(7)c		, ,
		(b)(6), (b)(7)c	
		(2)(0), (2)(1)0	

By direction

Required documents:
Reporting endorsements, All Original PCS/TEMINS/DUINS orders, Web Orders,
Port Calls (Coming from Overseas), Lodging Receipts (As applicable),
Bus/Flight Itineraries

Sgt's and below W/O Depns not issued a meal card: NAVMC 10522 signed by CO

Married Member to Member: Last 12 Months of LES for spouse (If spouse in another service)

Accession Pipeline: Boot Camp Orders and MCT Orders MOS School Orders Training Certificates, Awards, Reclassification Message

Appointment Date: 20110531 Time: 1400

MCAS NEW RIVER IPAC
YOU REPORTED TO IPAC INBOUND
AT 09/4 ON 2019053/
MEAL CARD ISSUED Y/N
WILL GOV'T QTRS BE ASSIGNED
CHECKED IN BY

(b)(6), (b)(7)c



#### UNITED STATES MARINE CORPS

MARINE AVIATION TRAINING SUPPORT GROUP 22
TRAINING COMMAND
271 FIFTH STREET
CORPUS CHRISTI, TEXAS 78419

IN REPLY REFER TO: 1320 S-1 14 May 19

FIRST ENDORSEMENT on CMC Washington DC Basic Orders of 25 April 2019

From: Commanding Officer, Marine Aviation Training Support Group 22 To: First Lieutenant Matthew J. Tomkiewicz 1512971110/7599 USMC

Subj: PERMANENT CHANGE OF STATION ORDERS

Encl: (1) PERMENANT CHANGE OF STATION (PCS)

- 1. Delivered. Effective 0800, 17 May 2019 you will stand detached from your present station and duties and report by 2359, 31 May 2019 to COMMANIDING OFFICER, VMMT-204, MAG 26, 2D MAW NEW RIVER, JACKSONVILLE, NORTH CAROLINA 28540 (MCC J9V) for duty.
- 2. You are authorized 0 day(s) proceed, 0 day(s) PDMRA, 9 day(s) delay chargeable as annual leave, and 5 day(s) travel via 2 Private Vehicles in reporting to your new duty station. Your projected leave balance upon completion of authorized delay is 41.5 day(s) accrued. Your dependents authorized travel under these orders are:

(b)(6), (b)(7)c

3. Should an emergency arise and you determine that more leave is required, contact your new command. Your request must include the reason, number of days requested, leave address, telephone number and your leave balance. You leave address as:

(b)(6), (b)(7)c

telephone number:
(b)(6), (b)(7)c

(b)(6), (b)(7)c

(b)(6), (b)(7)c

(b)(6), (b)(7)c

(b)(6), (b)(7)c

(c)

(d)(6), (b)(7)c

(e)(6), (b)(7)c

(f)(6), (f)(7)c

(f)(6), (

- 4. Before making any rental or lease agreements or purchasing a home, you will report to the local military family housing office at your new duty station. You will submit your travel claim to the disbursing officer at your new duty station within 5 days after completion of travel to settle travel expenses. Failure to comply will result in your pay account being checked for your travel advance. Additionally, elapsed time will be charged as leave if your travel claim has not been submitted to the disbursing officer within 30 days after completion of travel under these orders.
- 5. Your estimated travel entitlement is \$4,219.00 based on MCTFS data at the time the order was issued. It does not include any adjustments based on your outbound interview answers. Limit your GTCC use to no more than 80% of this amount. If traveling on Government procured transportation your reimbursement amount will be lower than this estimate. The actual amount of final entitlements will be computed upon settlement of your travel claim. Also at the time of settlement you are required to split disburse all charges placed on your card during your PCS move. Any GTCC use outside of PCS entitlements constitutes misuse. Contact your APC for any GTCC related questions and your supporting personnel administrative center for any PCS entitlement questions.

Subj: PERMANENT CHANGE OF STATION ORDERS

Your estimated travel entitlements are as follows:

#### Travel Allowance Estimates

TIGOT TITTOWATICE PROTINGCER	
Member Military Air Commercial Travel:	\$0.00
Member Per Diem:	\$745.00
Member Mileage Allowance:	\$265.00
Family Member Military Air Commercial Travel:	\$0.00
Family Member Per Diem:	\$558.00
Dislocation Allowance:	\$2,651.00
	-
Member Total Allowances:	\$3,661.00

Member Total Allowances: \$3,661.00
Family Member Total Allowances: \$558.00

- 6. A Temporary Lodging Expense (TLE) allowance is authorized for a total of 10 days (or 5 days, if from a Permanent Duty Station (PDS) in CONUS to a PDS outside CONUS) in connection with permanent change of station. These temporary lodgings must be in fact a temporary place of residence, acquired in the vicinity of your old or new PDS or both. You should try to obtain government quarters first. If available, you must obtain a statement of non-availability from the local commander, if you intend to claim TLE. If your old or new PDS where the TLE was incurred is not located at a post, camp, station, base, or depot or if it is in a city or metropolitan area, the statement of non-availability is not required.
- 7. Upon arrival at your new duty station you are required to recertify your entitlement to BAH within 30 days of joining the command per reference(s).
- 8. You are further advised that in accordance with MCO 1000.6 you may be eligible for 10 days permissive TAD house hunting, upon arrival to your new duty station.
- 9. For emergency medical care while traveling go to the nearest emergency room and contact your Primary Care Manager (PCM) or Tricare Regional Representative within 24 hours in order to notify Tricare that services have been received. For non-emergency, urgent or routine care please contact your present Tricare Region as these items may require a referral from your PCM. It is recommended that all routine care be completed prior to detaching from your current command. A list of Tricare regions, resources and guidance on obtaining care while en route is available at: http://tricare.mil/GettingCare/Traveling.aspx or by calling 1-800-TRICARE (874-2273).

(b)(6), (b)(7)c

By direction

Subj: PERMANENT CHANGE OF STATION ORDERS

#### RECEIVING ENDORSEMENT

1. I have read and understand the contents of my orders. I received these orders at Corpus Christi, Texas 78419 on 17 May 2019. I understand that I am to report no later than 2359, 31 May 2019, to COMMANIDING OFFICER, VMMT-204, MAG 26, 2D MAW NEW RIVER, JACKSONVILLE, NORTH CAROLINA 28540 (MCC J9V) for duty. I have in my possession my medical and dental records.

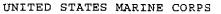
M. J. TOMKIEWICZ

MEDICAL RECOMMENDATI (Read Privacy Act State	ON FOR FL	YING OR SPECIAL ructions on back before co.	OPERATIONAL I	DUTY		
1. TO:	2. FROM:			3. DATE (YYYYMMDD)		
CO: VMM-261	Flight Surg	eon: MCAS New River		20210823		
4. MEMBER NAME (Last, First, Middle Initial)	5. IDENTIFIC	ATION NUMBER	6. GRADE	7. DATE OF BIRTH		
TOMKIEWICZ, MATTHEW J		1512971110	CAPT	(YYYYMMDD) 19940620		
8. ORGANIZATION	9. TYPE OF	DUTY	10. FLIGHT PHYSI	CAL DATE (YYYYMMDD)		
USMC	I	DIACA SG1	(If applicable)	20210823		
11. UP: THE ABOVE INDIVIDUAL HAS BEEN FOUND QUALIFIED BY MEDICAL AUTHORITY.						
	CLEARED AFTER (X): Temporary medical disqualification Waiver recommended (Not USAF) Aircraft mishap  Reporting to new duty station Waiver granted Other (See remarks)					
b. EFFECTIVE DATE (YYYYMMDD)		c. EXPIRATION DATE	(YYYYMMDD)			
20210823			20220630			
12. DOWN: THE ABOVE INDIVIDUAL HAS BEEN	FOUND DISC	UALIFIED BY MEDIC.	AL AUTHORITY.			
a. X one:  TEMPORARY DISQUALIFICATION DUE TO (X):  MAY PARTICIPATE IN (X):  Simulator du  PERMANENT DISQUALIFICATION  b. EFFECTIVE DATE (YYYYMMDD)	lliness of	r Injury Aircra Ground based flig c. ESTIMATED DURA		Other (See remarks) Other (See remarks)		
		i sommittee bord	TION OF OROUNDIN			
VISION CORRECTION DEVICES REQUIRED IN THE PERFORMANCE OF FLIGHT DUTIES.  MUST CARRY EXTRA SPECTACLES.						
14. (X one): X FLIGHT SURGEON OTHER (Co	ountersignature re	equired for Air Force and Navy	upslip)			
a. TYPED NAME (Last, First, Middle Initial)	b. GRADE	c. PROVIDER SIGNA	ATURE	d. DATE SIGNED (YYYYMMDD)		
(b)(6), (b)(7)c	LCDR	(b)(6	), (b)(7)c	20210823		
e. TYPED NAME (Last, First, Middle Initial)	f. GRADE	g. FLIGHT SURGEO	NCOUNTERSIGNAT	URE h. DATE SIGNED (YYYYMMDD)		
15. MEMBER CERTIFICATION						
a. I certify that I understand the above recommendations a	nd that I:	b. AIRCREW MEMBER S	GNATURE	c. DATE SIGNED		
X MAY MAY NOT perform flight duties.				(YYYYMMDD) 20210823		
16. ACTION TAKEN BY COMMANDER (Not required for Air F	orce and Navy)	APPROVI	DI	SAPPROVE		
a. TYPED NAME (Last, First, Middle Initial) b. TITLE		c. SIGNATURE	Total Control	d. DATE SIGNED (YYYYMMDD)		
DD FORM 2992, JAN 2015 REPLACES DA FOR	M 4186, AF FOR WHIC	M 1042, AND NAVMED FOR CH ARE OBSOLETE.	MS 6410/1 AND 6410/2,	Adobe Designer 9.0		

ENCLOSURE (4)

# NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

ME (Last, first	, middle linitial) Tomklew	ICZ, MATTA	téu s	SSN	· · · · · · · · · · · · · · · · · · ·
DATE	DESIGNATION	MODEL	UNIT	PROMULGATION BY	VERIFIED
5 Apr 19	Naval Aviator TZP	744C	<i>V735</i>		
90CT19	T2P	MV-22B	VMMT-204	(b)(3), (b)(6), (t	o)(7)c
					All many districts
<u> </u>					
			_		





MAPINE AIRCPAFT BROWD 14 30 MAPINE AIPCEAFT WING U.S. MAPINE COPPS FORCES COMMAND (987 BIX 11)10 UANESINVILLE (NO 18845-171)

> Nasel/asessand 3710 DSSN 8 Feb 22

From: Commanding Officer, Marine Aircraft Group 26

To: Captain Matthew J. Tomkiewicz 1512971110/7532 USMC

Subj: TILTROTOR AIRCRAFT COMMANDER DESIGNATION

Ref:

(a) CNAF-M 3710.7

(b) NAVMC 3500.11

(c) GruO 3710.32

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby designated Tiltrotor Aircraft Commander.

2. This letter will be maintained in your Naval Aviation Training and Standard Operating Procedures Standardization Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c



#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR TRAINING SQUADRON 204

MARINE AIRCRAFT GROUP 26

2D MARINE AIRCRAFT WING

PSC BOX 21018

JACKSONVILLE, NC 28545-1018

3710 DSSN 09 Oct 19

From: Commanding Officer, Marine Medium Tiltrotor Training Squadron 204

To: First Lieutenant Matthew J. Tomkicwicz 1512971110/7532 USMC

Subj: DESIGNATION

Ref: (a) CNAF M-3710.7

(b) NAVMC 3500.11F (c) A1-V22AB-NFM-000

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby designated as a Tiltrotor Second Pilot (T2P).

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR Logbook entry

ENCLOSURE (4)



#### DEPARTMENT OF THE NAVY

TRAINING AIR WING FOUR 245 FIFTH STREET SUITE 105 CORPUS CHRISTI TX 78419-5008

> 1500 Ser N00/ **0.359** APR **25** 2019

From: Commander, Training Air Wing FOUR

To: First Lieutenant Matthew J. Tomkiewicz 7531 USMC

Subj: DESIGNATION AS A NAVAL AVIATOR

Ref: (a) CNATRAINST 1500.4H

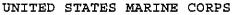
- 1. Pursuant to the provisions of reference (a), and having demonstrated those qualities of sound judgment and professional competence in your completion of the Advanced Multi-Engine Flight Training Syllabus of the Naval Air Training Command, you are designated a Naval Aviator effective 3 May 2019.
- 2. Congratulations on a job well done!

(b)(3), (b)(6), (b)(7)c

Copy to: VT-35 PERS-4320 MATSG-22

# NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET OPNAV 3760/32D (4-90)

ME (Last, first,	middle linitial) TomkiEwi	CZ, MATTHEW, J.		SSN
FFECTIVE DATE	TYPE AIRCRAFT	MISSION QUALIFICATION	UNIT	REMARKS
MOVIA	MV-2283	opo	VMM-761	
APRZO	MV-278	DAY LAT	VM-261 VM-261	
APP-Zo	MV-VB	HLL	VM-76/	(b)(3), (b)(6), (b)(7)c
BAPAZO	Mr-22B	NSQ	1/mn-261	
MAY 20	MU-ZZB	NSLAT	Vnn-761	
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3710 DSSN 13 May 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261
To: First Lieutenant Matthew J. Tomkiewicz 1512971110/7532 USMC

Subj: NIGHT SYSTEMS LOW ALTITUDE TACTICS QUALIFICATION

Ref:

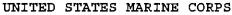
(a) CNAF-M 3710.7

(b) NAVMC 3500.11E

- 1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems Low Altitude Tactics qualified.
- 2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to:
Operations/APR





IN REPLY REFER TO: 3710 DSSN 23 Apr 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261
To: First Lieutenant Matthew J. Tomkiewicz 1512971110/7532 USMC

Subj: NIGHT SYSTEMS QUALIFICATION

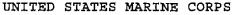
Ref:

(a) CNAF-M 3710.7

(b) NAVMC 3500.11E

- 1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are Night Systems qualified.
- 2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c





IN REPLY REFER TO: 3710 DSSN 4 Apr 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261
To: First Lieutenant Matthew J. Tomkiewicz 1512971110/7532 USMC

Subj: DAY LOW ALTITUDE TACTICS QUALIFICATION

Ref:

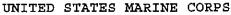
(a) CNAF-M 3710.7

(b) NAVMC 3500.11

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Day Low Altitude Tactics qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c





in REPLY REFER TO: 3710 DSSN 2 Apr 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261
To: First Lieutenant Matthew J. Tomkiewicz 1512971110/7532 USMC

Subj: HIGH LIGHT LEVEL NIGHT SYSTEMS QUALIFICATION

Ref:

(a) CNAF-M 3710.7

(b) NAVMC 3500.11

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby High Light Level Night Systems qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c



#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING
POSTAL SERVICE CENTER BOX 21015
JACKSONVILLE, NC 28545-1015

IN REPLY REFER TO: 3710.7
DOSS
29 Nov 19

From.

Commanding Officer, Marine Medium Tiltrotor Squadron 261

To:

Director of Safety and Standardization

Subi:

OPERATIONS DUTY OFFICER

Ref:

(a) GruO 3710.32A

1. Based on the training conducted in accordance with Marine Air Group 26 Standard Operating Procedures, the following are hereby qualified as Operations Duty Officer.

Rank Name

(b)(3), (b)(6), (b)(7)c

lstLt Tomkiewicz

(b)(3), (b)(6), (b)(7)c

#### **CRM TRAINING & EVALUATION RECORD**

	1. NAME (Last, first, middle initial):	2. RANK:	3. EDIPI NUMBER:
ı	TOMKIEWICE, MATTHEW, J.	2nd Lt	1512971110

Note: This form shall be permanently maintained in the NATOPS Flight Personnel Training/Qualification Jacket (Section II, Part C).

CRM IMM Instructor Course

4. Date:

5. Location:

#### CRM FACILITATOR TRAINING

6. T/M AIRCRAFT	7. UNIT	8. DATE		
		<del></del>		
	·			

#### GROUND TRAINING / FLIGHT EVALUATIONS

Note: Valid for 12 months from the last day of the month in which training/evaluation was completed.

Note: Renewal flight evaluations may be completed within 60 days preceding the expiration of the current qualification.

9. T/M AIRCRAFT	10. UNIT	11. GROUND / FLIGHT	12. INITIAL / RENEWAL	13. DATE COMPLETED	14. EXPIRATION DATE
T-63	Tus	G	T	29 SEPT 2217	30 SEPT 2018
TH57	t+8	GAD	F	2058918	30 sep 19
TYUC	V135	Ġ	/	14 Dec 19	31 Dec 20
MV22B	VM77-204	6	エ	4 JUN 19	30 JUN 20
MV22B	VMM5-204	F	エ	9 OCT 19	31 OCT 20
MVZIG	261	6	I.R	3 1AN 20	31 JAN 21
MVZZB	7.61	F	h	2556820	3096821
MV 22B	261	6	R	4 JANZI	31JANEU
MVZZB	761	E	R	20 AU 621	30 52P2I
MV228	241	G	R	4 JAN 22	31 JAN 23
	•				
					1.4. M. 11. VIII
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#### **EXTENSIONS**

15. TIM AIRCRAFT	16. UNIT	17. GROUND/ FLIGHT	18. AUTHORITY	19. EXPIRATION DATE
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(REV 3/2016)

Enclosure (3)



### VMM-261 TRAINING ROSTER

Topic:	CRM	Aurina	
Data.	1. 12	า	

Instructor: \_\_\_\_\_ (b)(3), (b)(6), (b)(7)c



	Last Name, Fl. Ml.	Rank	Signature			
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ENCLOSURE (4)





### VMM-261 TRAINING ROSTER

Topic: <u>(</u>	IRM	
Date: _		
Instructor:	(b)(3), (b)(6), (b)(7)c	



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	Last Name, Fl. Ml.	Rank	Signature
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## VMM-261 2021 Back In The Saddle



Topic: <u>CRM</u>

Date: <u>04 JAN 2021</u>

Instructor: \_\_\_\_\_ (b)(3), (b)(6), (b)(7)c

	Last Name, Fl. Ml.	Rank	Signature
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# VMM-261 2021 Back In The Saddle



Topic: <u>CRM</u>

Date: <u>04 JAN 2021</u>

Instructor:	

	Last Name, Fl. Ml.	Rank	Signature
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3710 DSSN 3 Jan 20

From: VMM-261 Department of Safety and Standardization

To: NATOPS Officer, VMM-261

Subj: CRM/ORM TRAINING 2020

(b) CNAF 1542.7B

Ref: (a) CNAF-M 3710.7

1. The following personnel completed Annual CRM/ORM training as required by reference (a) and (b).

	LAST	FULL FIRST	RANK
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29	TOMKIEWICZ	MATTHEW	1STLT
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#### Subj: CRM/ORM TRAINING 2020

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(b)(3), (b)(6), (b)(7)c

### CRM Initial/Refresher Course

Rank	Last Name	First Name	Middle Int.	Unit
	(b)(3), (b)	(6), (b)(7)c		VMMT 204
Ist Lt	TOMKIEWICZ	MATTHEW	J.	VMMT - 204
		)(6), (b)(7)c		VMMT-204 VMMT-204 VMMT-204 VMMT-204 VMMT-204

CRM Training has been conducte Date: 4 For 2019 Signature:

(b)(6), (b)(7)c, (b)(3)

CLASS 20-1

ENCLOSURE (U

IF PREREQUISITES ARE ACOMPLETE YOU WILL NOT RECIEVE CREDIT FOR THE CLASS.
YOU WILL RECEIVE A PINK SHEET. YOU WILL COMPLETE THE PREREQUISITES AND
REATTEND THE CLASS

teach SUBJECT: PRI CRM INSTRUCTOR: VI-3 (b)(3), (b)(6), (b)(7)cPRINT LAST NAME **FIRST NAME** RANK SOD CLASS DATE: 29Sept 17 1749 (b)(3), (b)(6), (b)(7)cTOMKIEWICZ 201 Lt MATTHEW VT-3 1749 1749 1749 BLDG: 36 1749 1749 ROOM: 1749 1749 1749 (b)(3), (b)(6), (b)(7)c1749 тот  $_{\mathsf{HRS}:}$   $_{\mathcal{A}}.\mathcal{O}$ 1742 1749 ENTERED BY: (b)(3), (b)(6), (b)(7)c 1749 1749 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET
OPNAY 3760/32E
SECTION IIIA – SCHOOL/COURSE ATTENDANCE RECORD

NAME (Last, first, middle)

NAME (Last, first, middle)	L'COURSE ATTENDANCE RE				
	MICIEWICZ, MATTHEW	, J.		SSN	
RECORD ALL SPECIALIZED, FO	ORMAL AVIATION SCHOOLS, INCLUI	DING:			
JNDERGRADUATE PILOT/INFO PRS SYLLABI FIRE FIGHTING		MAINTENANCE (3M) CC	DURSES		
SCHOOL/COURSE	DATES ATTENDED	PASS/FAIL/SCORE	UNIT	REMARKS	VERIFIED BY
PRE FLT	2154NA=8A447	P	NASC		VT3
PRITU	18581A-650018	P	VI3	(b) <del>(</del> 3	), (b)(6), (b <del>)(7)c3</del> VT3
entermediate		P	11+8		
74405 ystoms Advance	7 Dec 18	ρ	V735		(b)(3), (b)(6), (b)(7)
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VT3		208B	29		37.7		37.7					<u> </u>	7.8	E			19.4
VT3		T6B	54	4	81.5	2.4	68.1		13.4	2.4			9.8	1.2		5	13.4
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VT35	7	Г44C	38		77.2		59.1		18.1			15	10.8			12.8	15.5
VT35	T44	1C/OFT	34		92.8		50.6		42.2				1.3				40.5
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TOMKIEV NATRA 1542 / 95 (Rev	VICZ, MATTHE	.W J.	1STLT/U	SMC		XXXX	. 1

		··						CIATIANSI 1000.
NAVAL AVIATO	OR TRAINING	STAGE GRA	NDES - PRO	OP				
a. Enter Stage 0	Grade on Eacl	n Newly Desig	nated NA	(CNATRA F	PROVIDED ADV	ANCE STA	GE AVERAGE PERIOI	DICALLY.)
b. Retain Origin	al IN ATJ.						•	,
NAME:				Advance S	quadron	Des	ignation Date	Assignment
1et	Lt Tomkiewicz	Matthow I			VT-35		3-May-19	MCAS New River, NC
130	Squadron	Student's	Flight	Remarks:		ments requ	ired on below averag	
STAGE	Average	Grades	Waived					
CONTACT	N/A	1.140						
INSTRUMENT	N/A	1.092						
NAV(ONAV)	N/A	0.000						
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CO'S APPRAIS	AL OF FRS F	REPAREDN	ESS.					
								n the T-44 aircraft and 34 events in the
T44-OFT flight:		will be a wel	comed asse	et to his nex	t command. Thi	is officer me	ets all criteria and is pr	repared for the successful completion of .
SIGNATURE						DA	1 1	
(b)(3), (b	o)(6), (b)(7)c	(	b)(3), (b)(6), (l	o)(7)c			5/3/19	
CNATRA 1542	/5B (REV.8-88	3)			<del> </del>			

ENCLOSURE

### PINK SHEET SUMMARY (FRONT)

Record all flight violations, accidents, incidents, unsatisfactory events, delinquency reports and administrative actions on this sheet. Information concerning accidents/incidents REQUIRE SPECIAL HANDLING IAW OPNAVINST 3750.6. An entry shall be made from each activity/squadron listing NONE where appropriate-if no adverse events occurred in each section 1, 2, and 3.

V/SQUADRON NASC VT-3 HT-8 /T-35  DN 2 - UNSATISF SQUADRON NASC VT-3 HT-8 /T-35	BRIEF DESCRIPTION  API PRIMARY INT/HELO ADVANCED  ACTORY EVENTS (Include all PI STAGE/EVENT API PRIMARY INT/HELO ADV/ C4205	CAUSE  NONE  NONE  NONE  NONE  NONE  INK and YELLOW sheet ev  MAJOR DIFFICULTY  NONE  NONE  NONE  NONE	CLERK CLERK LH KT ents) CLERK
VT-3 HT-8 /T-35  ON 2 - UNSATISFA SQUADRON NASC VT-3 HT-8	PRIMARY INT/HELO ADVANCED  ACTORY EVENTS (Include all PI STAGE/EVENT API PRIMARY INT/HELO	NONE NONE NONE NK and YELLOW sheet ev MAJOR DIFFICULTY NONE NONE	CLERK LH KT ents)
HT-8 /T-35  DN 2 - UNSATISF SQUADRON NASC VT-3 HT-8	INT/HELO ADVANCED  ACTORY EVENTS (Include all PI STAGE/EVENT API PRIMARY INT/HELO	NONE NONE  NK and YELLOW sheet ev  MAJOR DIFFICULTY  NONE  NONE	LH KT - ents)
ON 2 - UNSATISFA SQUADRON NASC VT-3 HT-8	ADVANCED  ACTORY EVENTS (Include all PI STAGE/EVENT  API PRIMARY INT/HELO	NONE  INK and YELLOW sheet ev  MAJOR DIFFICULTY  NONE  NONE	ents)  CLERK
DN 2 - UNSATISFA SQUADRON NASC VT-3 HT-8	ACTORY EVENTS (Include all Pi STAGE/EVENT API PRIMARY INT/HELO	INK and YELLOW sheet ev MAJOR DIFFICULTY NONE NONE	ents)  CLERK
NASC VT-3 HT-8	STAGE/EVENT API PRIMARY INT/HELO	MAJOR DIFFICULTY  NONE  NONE	CLERK
NASC VT-3 HT-8	STAGE/EVENT API PRIMARY INT/HELO	MAJOR DIFFICULTY  NONE  NONE	CLERK
VT-3 HT-8	API PRIMARY INT/HELO	NONE NONE	I
VT-3 HT-8	PRIMARY INT/HELO	NONE	I
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	ECTION 3 - STUD SQUADRON NASC VT-3 HT-8	SQUADRON TRB/IPC/FPC/APC  NASC API  VT-3 PRIMARY  HT-8 INT/HELO	NASC API NONE  VT-3 PRIMARY NONE  HT-8 INT/HELO NONE

ENCLOSURE (4)

#### PINK SHEET SUMMARY

(REVERSE SIDE CONTINUATION SHEET - PAGE 2)

Record all flight violations, accidents, incidents, unsatisfactory events, delinquency reports and administrative actions on this sheet. Information concerning accidents/incidents REQUIRE SPECIAL HANDLING IAW OPNAVINST 3750.6. An entry shall be made from each activity/squadron listing NONE where appropriate-if no adverse events occurred in each section 1, 2, and 3.

made nom ea	SECTION 1 - ELIC			
DATË	ACTIVITY/SQUADRON	BRIEF DESCRIPTION	CAUSE CAUSE	d)
	ACTIVITI/SQUADION	DRIEF DESCRIPTION	CAUSE	
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			·	
	SECTION 2 - UNSATISFACTO		and YELLOW sheet events)	(Continued)
DATE	TRNG SQUADRON	STAGE/EVENT	MAJOR DIFFICULTY	
		,		
	SECTION 2 - STUDENT	RAINING REVIEW BOARDS	INDOCRESS CUECKS (C	
DATE	TRNG SQUADRON	TRB/IPC/FPC/APC		ntinuea)
DAIL	TRING SQUADROIN	TRO/IPC/PPC/APC	DISPOSITION	
REMARKS				
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	AME (LAST, FIRST AND MIDDLE	INITIAL)	RANK	DOD ID NUMBER
TOMKIEWI	ICZ, MATTHEW J.		1STLT	XXXX
CNATRA 1542/9	90 (Rev 10/17)			<u> </u>

ENCLOSURE (4)

### NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET OPNAV 3760/32F (Rev 4-90) S/N 0107-LF-009-7700

SECTION IIIB - OPERATION			Y & S	URVIVAL	TRAIN	NG	······································						
NAME (Last, first, middle initial	j						RANK/R	ATE SSN		······································			
					TYPI	OF T	RAINING	3					
COURSE CATEGORY	AVIATION PHYSIOLOGY				EMERGENCY EGRESS			WATER SURVIVAL			LAND SURVIVAL, DWEST, SERE		
MV 22 AEROMED 2022	DATE 4JAN22	GRADE	261	DATE	GRADE	UNIT	DATE	GRADE	UNIT	DATE	GRADE	UNIT	
:	(b)(3),	(b)(6), (b)(	(7)c	SIGNATURE S			SIGNATURE		SIGNATURE				
· · · · · · · · · · · · · · · · · · ·	DATE	GRADE	TUNIT	DATE	GRADE	UNIT	DATE	GRADE	UNIT	DATE	GRADE	UNIT	
	SIGNATU	RE	<u>i                                     </u>	SIGNATURE			SIGNATURE		<u>.l</u>	SIGNAT	URE	<u> </u>	
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	SIGNATURE			SIGNATU	RE	·	SIGNATU	RE	<u>.</u>	SIGNAT	URE	<u>.l</u>	
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			TF	L IAINING A	CTIVIT	ES							
. Pensacola, FL	8.							15. Brunswick, ME					
2. Miramar, CA			9. Cecil Field, FL						16. FASOTRAGRUPAC				
3. Norfolk, VA			10. Cherry Point, NC						17. FASOTRAGRULANT				
. Corpus Christi, TX	11.	Whi	ibey Island	, WA	. =	1	18. MCAS New River, NC						
. Lemoore, CA	12.	Beau	ıfort, SC			1	19. Okinawa						
. El Toro, CA	13.	Poin	t Mugu, CA	A		2	Other (List)						
. Jacksonville, FL		14.	Patuxent River, MD 21.										

	NATOPS FLIGHT PER	SONNEL TI	RAINI	NG/QI	JALIFICATION	ON JA	CKET	· · · · · · · · · · · · · · · · · · ·					
٠, ٠	SECTION IIIB - OPERATION	IAL PHYSIOLO	GY &	SURVIV	AL TRAINING							****	
	NAME (Last, First, Middle Initial)  RANK/RATE DoD ID Number  TOM KIEWICZ, MATTHEW S  1124 ISJ 297 1110												
	TOM KIEWICZ, MA					12	ţ.	15	1297 1110				
			TRAINING	AING									
	COURSE CATEGORY	AVIA PHYSI			EMERGENCY EGRESS				WATER URVIVAL		LAND S DWES	URVIVA Γ, SERE	
		SE DATE / <del>S/30/-2011</del>		E UNIT	DATE 13 50-2019	GRADE	E SO	DATE	GRADE	UNIT	DATE	GRADE	UNIT
V	V-22 EMERGENC FORESS	(b)(3), (b)		)(7)c	(b)(3), (b			SIGNATU	IRE		SIGNATURE		
		DATE	GRAD	E UNIT	DATE 90CTZ019	GRADE	UNIT VARAN ZOH	DATE	GRADE	UNIT	DATE	GRADE	UNIT
	MV-22 EMERGEN ECTESS	SIGNATURE	<b>.</b>	.1	SIGNATURE				SIGNATURE		SIGNATURE	<u>i.</u>	<u></u>
	~ DK	DATE	GRADI	EUNIT	DATE	GRADE		DATE	GRADE	UNIT	DATE 15 NOOP	GRADE	UNIT
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	29 AEROMEDICAL BRIEF		GRADI	E UNIT	DATE	GRADE	UNIT	DATE	GRADE	UNIT		GRADE	
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เกกนะ	Aeromed Training			UNIT	(b)(3), (b)(6	b), (b)(7)	ur ur	DATE	GRADE	UNIT	DATE	GRADE	UNIT
XSE (eoit	Other:	SIGNATURE (b)(3), (b)(	6). (b)(	7)c	SIGNATURE			SIGNATU	IATURE		SIGNATURE		
ŀ	CLASS 3 RECKESH			UNIT	DATE	GRADE	UNIT	DATE 2.CEB &	GRADE	UNIT ZAj	DATE	GRADE	UNIT
	W/AEVEST	SIGNATURE		SIGNATURE				SIG			SIGNATURE		
ŀ	M V-7.2	DATE	GRADE	UNIT		GRADE		DATE	), (b)(6), (b)		DATE	GRADE	UNIT
	MV-ZZ E-ugeny Egrors	SIGNATURE			ZOAUGUI	Q 70		SIGNATU	ATURE		SIGNATURE	IRE	
L	tyrers			(b)(3), (b)(6), (b)(7)b									
-					TRAINING	ACTIVI	TIES						
1	1. Pensacola, FL	4.	4. Lemoore, CA					7. Patuxent River, MD					
2	2. Miramar, CA	5.	5. Jacksonville, FL					8. Whidbey Island, WA					
-	3. Norfolk, VA	6.	Cherry	Point, NC	9	9. Other (List) MCK New RIJE(							
	O. Other Information												
			•										

OPNAV 3760/32F (Rev 02/2017)

NATORS ELICILY DEPOCAULA			<del></del>								AVINST DV 2009	3710.7U		
NATOPS FLIGHT PERSONNE OPNAV 3760/32F (REV4-90) S			CATION JA	ACKET										
SECTION IIIB -OPERATIONAL NAME (Last, First, Middle Initial		GY & SU	RVIVAL TR	AINING										
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LAND SURVIVAL	DATE	GRADE	UNFT	DATE	GRADE	UNIT			דואש	DATE	GRADE	UNIT		
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(b)	(3), (b)(6	), ( <del>(b)((*)</del> )( IGRADE <b>~</b>		DATE	(b)(3), (	(b)(6), (b)	(7)c	GRADE	TUNIT	DATE	IGRADE	UNIT		
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/EL A TRAINING	7/31/18	a	18		<u>l.                                    </u>									
SENSORY PROBLEMS/ SPATIAL D	ISIGNATU		(b.) (Z) a	ISIGNATU	JRE		SIGNATU	RE		SIGNAT	JRE			
	(D)(3)	(b)(6), (	. , . ,	DATE	GRADE	UNIT	DATE	GRADE	UNIT	DATE	GRADE	UNIT		
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ystem: ANVIS-9	CV VI	, (b)(6),			1			·	·					
namy Arablem/	Del Min	GRADE	UNIT.	DATE	GRADE	UNIT	DATE	GRADE	UNIT	DATE	GRADE	UNIT		
Spatial n	CHESTS III		L 25	SIGNATU	JRE	<u></u>	SIGNATU	RE		SIGNATI	JRE			
De mit	(b)(3), (l	o)(6), (b)	(7)c	TDA	NING ACT	n arcco				<u> </u>				
1. Pensacola, FL			8. Bart		NING ACT	IVITES		15 Bru	nswick, N	ЛF		<del></del>		
				8. Barbers Point, HI										
2. Miramar, CA										16. FASOTRAGRUPAC				
3. Norfolk, VA				10. Cherry Point, NC 17.						17. FASOTRAGRULANT				
4. Corpus Christi, TX				11. Whidbey Island, WA 18. MCAS N						w River, NC				
5. Lemoore, CA			12. Beaufort, SC 19. Okinawa						nawa					
6. El Toro, CA			II. Phincipiunu I.A						Other (List) 20. NASC, Pensacola, Fl.					
7. Jacksonville, FL	20. NASC, Per 14. Patuxent River, MD 21.							ioacula,	l ha					



#### DEPARTMENT OF THE NAVY

NAVY MEDICINE OPERATIONAL TRAINING CENTER NAVAL SURVIVAL TRAINING INSTITUTE DETACHMENT 340 HULSE ROAD PENSACOLA FL 32508-1089

> 3760 2 Feb 2021

From: Officer in Charge, Naval Survival Training Institute

To: CAPTAIN MATTHEW TOMKIEWICZ

Subj: NASTP TRAINING QUALIFICATION LETTER

Ref: (a) CNAF M-3710.7

1. In accordance with reference (a), CAPTAIN MATTHEW TOMKIEWICZ has received AC REF CLASS 3 on 2 Feb 2021 at Aviation Survival Training Center CHERRY POINT.

- 2. CAPTAIN MATTHEW TOMKIEWICZ received a grade of Q. All required modules were completed.
- 3. This qualification expires on 28 Feb 2025 unless additional conditions listed in reference (a) chapter 8, paragraph 8.4 apply.
- 4. This qualification applies to the following aircrafts only:

Class 3: AH-1, H-3, H-46, H-53, H-60, H-72, H-92, OH-58C, TH-57, UH-1, V-22

Aircrew Endurance Vest training consisted of an overview and in water familiarization of either the AE Vest or PRU-70 as applicable. In water familiarization included performing underwater problem solving, underwater egress, survival swimming, treading water, survival floating, life-preserver inflation, multi-place life raft boarding and helicopter rescue procedures. Subject named training specific to the AE Vest at Aviation Survival Training Center Cherry Point.

(b)(3), (b)(6), (b)(7)c

By direction

ENCLOSURE (7)

3710/5100 DSS 04 Jan <del>21</del>

22 RAH

From: Aeromedical Safety Officer, Marine Aircraft Group 26 To: VMM-261 Department of Safety and Standardization

Subj: AEROMEDICAL TRAINING

Ref:

- (a) CNAF M-3710.7
- (b) WgO 5100.29
- 1. The following personnel completed Annual Aeromedical training as required by reference (a) and (b). Topics include Sensory Problems / Situational Awareness, Radios, Human Factors, Human Performance, and FAILSAFE Program.

	LAST	FULL FIRST	RANK	PLATFORM	SQUADRON
1					261
2					261
3		(b)(3), (b)(6), (b)(7)c			201
4					26
5					761
6	TOMELEUICZ	MATTHRU	CAPT	V-22	241
7					261
8					26/
9					261
10					26/
11					261
12					761
13					261
14					261
15		(b)(3), (b)(6), (b)(7)c			261
16					9C/
17					261
18					761
19					76/
20					261
21					192
22					261

/s/

(b)(3), (b)(6), (b)(7)c

enclosure ( $\mathcal{U}$ )

# **VMM-261 AEROMEDICAL**

	6-Jan-20	
<u> </u>	Name	Signature
		(b)(3), (b)(6), (b)(7)c
-		

# CENTER FOR SECURITY FORCES Certificate of Completion

Survival, Evasion, Resistance, and Escape Course A-2D-4635

Commanding Officer
Center for Security Forces
Takes pleasure in granting a certificate of completion to

## **1STLT MATTHEW TOMKIEWICZ**

Given this 15th day of November 2019



(b)(6), (b)(7)c

(b)(6), (b)(7)c

CAPTAIN, USN

COMMANDING OFFICER
CENTER FOR SECURITY FORCES



ENCLOSURE

#### MEMORANDUM

From:

Aeromedical Safety Officer, TW-4

To:

NATOPS Officer

Subj:

CNAF M-3710.7 LEVEL A ANNUAL ADJUNCTIVE TRAINING

1. The personnel listed below have completed the following CNAF M-3710.7 NASTP Level A Annual Adjunctive Training on 29 Nov 2018:

Sensory Problems/Spatial Disorientation

Rank	Name	Squadron
		VT-31
	(b)(3), (b)(6), (b)(7)c	VT-31
		VT-31
		VT-35
1STLT	TOMKIEWICZ, MATTHEW J.	VT-35 🄞
		VT-35
		VT-35
	(b)(3), (b)(6), (b)(7)c	VT-31
	(=)(=), (=), (=), (=)	VT-35
		VT-35

From: Aeromedical Safety Officer, TW-5
To: CTW-5 NATOPS Officers

Subj: CNAF M-3710.7 LEVEL A ANNUAL AEROMEDICAL TRAINING

1. The listed personnel have completed the following CNAF M-3710.7 Level A Annual Training Requirements on July 31, 2018.

## a. Sensory Problems/Spatial disorientation

(b)(3), (b)(6), (b)(7)c	8
Tomkiewicz, Matthew   1stLt	8
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(b)(3), (b)(6), (b)(7)c	18
(5)(0), (5)(0), (5)(1)0	18
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#### DEPARTMENT OF THE NAVY

NAVY MEDICINE OPERATIONAL TRAINING CENTER NAVAL SURVIVAL TRAINING INSTITUTE DETACHMENT 55 RADFORD BOULEVARD, SUITE 211 PENSACOLA FL 32508-1091

> IN REPLY REFER TO 3760 27 Jun 2018

From: Officer in Charge, Naval Survival Training Institute

To: 2ND LIEUTENANT MATTHEW TOMKIEWICZ

Subj: NASTP TRAINING QUALIFICATION LETTER

Ref: (a) CNAF M-3710.7

1. In accordance with reference (a), 2ND LIEUTENANT MATTHEW TOMKIEWICZ has received AC INDOC CLASS 3 on 27 Jun 2018 at Aviation Survival Training Center PENSACOLA.

- 2. 2ND LIEUTENANT MATTHEW TOMKIEWICZ received a grade of Q. All required modules were completed.
- 3. This qualification expires on 31 Aug 2021 unless additional conditions listed in reference (a) chapter 8, paragraph 8.4 apply.
- 4. This qualification applies to the following aircrafts only:

Class 3: AH-1, H-3, H-46, H-53, H-60, TH-57, UH-1, V-22

From: Aeromedical Safety Officer, TW-5

To: CTW-5 NATOPS Officers

Subj: CNAF M-3710.7 LEVEL A ANNUAL AEROMEDICAL TRAINING

- 1. The listed personnel have completed the following CNAF M-3710.7 Level A Annual Training Requirements on October 04, 2017.
  - a. Sensory Problems/Spatial Disorientation
  - b. Aeromedical Aspects of Ejection
  - c. T-6B Ejection Seat Training
  - d. T-6B Emergency Ground Egress
  - e. Hypoxia Awareness Training
  - f. G-LOC and G-Tolerance Improvement Program
  - g. Aviation Life Support Systems (ALSS)
  - h. Decompression Sickness (DCS)

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	***	2
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(b)(3), (b)(6), (b)(7)c		2
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		3
Tomkievicz, Matthew	2ndLt	3
		3
		6
(b)(3), (b)(6), (b)(7)c		[6
		6
		 6



#### DEPARTMENT OF THE NAVY

NAVY MEDICINE OPERATIONAL TRAINING CENTER NAVAL SURVIVAL TRAINING INSTITUTE DETACHMENT 55 RADFORD BOULEVARD, SUITE 211 PENSACOLA FL 32508-1091

> NREFLY REFER TO 3760 8 Aug 2017

From:

Officer in Charge, Naval Survival Training Institute

To:

2ND LIEUTENANT MATTHEW TOMKIEWICZ

Subj:

NASTP TRAINING QUALIFICATION LETTER

Ref:

(a) CNAF M-3710.7

1. In accordance with reference (a), 2ND LIEUTENANT MATTHEW TOMKIEWICZ has received AIRCREW INDOCTRINATION NASTP TRAINING FOR CLASS 1 AIRCRAFT on 8 Aug 2017 at Aviation Survival Training Center PENSACOLA.

- 2. 2ND LIEUTENANT MATTHEW TOMKIEWICZ received a grade of Q. All required modules were completed.
- 3. This qualification expires on 31 Aug 2021 unless additional conditions listed in reference (a) chapter 8, paragraph 8.4 apply.
- 4. This qualification applies to the following aircrafts only:

Class 1: AV-8, EA-6, F/A-18, F-16, S-3, T-2, T-38, T-45, T-6B

Class 4: C-12, C-130T, C-20, C-21, C-26, C-35, C-37, C-40, C-9, E-4, E-6, P-8, T-IA, T-39, T-44

(b)(3), (b)(6), (b)(7)c

4)

# NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET OPNAV 3760/32G (Rev 4-90)

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## VMM-261 PILOTS OPEN BOOK NATOPS

Revised 03 Feb 2021

NAME: Tan	KIEUL	3 Mm	46W
DATE: <u><b>05</b></u>	JAN	zne	_
GRADE: <u> </u>	>		_
GRADED BY:(b)(3),	(b)(6), (b	)(7) <u>c</u>	_

1. The MV-22 is a multi-mission aircraft within many applications. These applications include the following:
a. Medin Lift Assault Support
b. TRAP
c. Emergany Evan
d. Fleet Logistics Support
e. Lagrotius Support Ashore
f. Lang Page Logisties Support
g. Medrel Evec
2. The maximum VTOL gross weight of the V-22 is $52,600$ lbs sea level; maximum Short Takeoff (STO) gross weight is $57,000$ lbs; and maximum alternate gross weight is $60,500$ lbs.
3. The nose to tail length of the V-22 is 57 ft 4 in.
4. Each <u>Dέυ</u> controls operation of <u>Z</u> MFDs, with the capability of controlling <u>GII </u> <u>G</u> MFDs in the event of a <u>Dέυ</u> failure.
5. There are five main Aircraft Interface Units (AIUs) on the aircraft: the Avionics Bay Interface Unit (ABIU), two Nach John the Unit , and the Drive Systems Interface Unit (DSIU).
6. The DSIU, located on the midwing forward equipment shelf, monitors and controls the <u>Foregraphy</u> , and monitors for oil debris in the <u>PAGD</u> , TAGBS, MWGBS, and <u>both</u> engus.
7. The APN-194 radar altimeter provides aircraft altitude above ground level (AGL) from <u>O</u> to approximately <u>45∞</u> ft.
8. Stall warning is provided for nacelle angles between o and 55°.
9. The Sink rate warning is initiated when the vertical velocity exceeds the vertical velocity limit with airspeed less than 60 kts and nacelle angle greater than 65°.
10. If the aircraft was <u>Shot doo</u> without a proper system log off, the MCs will attempt to restore the aircraft configuration available prior to loss of power. This is referred to as a <u>Larry</u> <u>Shot</u> .



# VMM-261 PILOTS CLOSED BOOK NATOPS

(b)(2)

ENCLOSURE (4)



This is to certify that

# 1st Lt Matthew Tomkiewicz

has successfully completed the following training course:

## **IGS - Tiltrotor Credit Course**

Identifier: B7863B9592494A2F984B07F80C74209A

07/19/2021

Marine Corps Aviation Learning Management System Enterprise

	VIVID-207 OT INTO EVALUATION FORM	Y24021		
	Evalue ULCZ, MATTREU		(	
	EDIPL ISIZATINO			
	Instructor_ (b)(3), (b)(6), (b)(7)c			
	Date of Flight			
	Total Hours 446.9			
1	Model Hours 249. 1			
1	Flight Duration			
Į	Buno			
	Date of Last Evaluation Zo Auc 21			
ı	Expires 30 SEP 2-12			
	Open Book Date and Grade to JAN 27-/ 4.0 Closed Book Date and Grade to JAN 22/ 4.0			
	B			
	Furn in completed ATF to S-3 Pilot Training	11		
(	Porrect TMR code entered into MSHARP	( )		
1	Phase I Ground Evaluation	O	CQ	U
•	Open/Closed Book	Ň.	11	[]
	Oral Exam	M	ÌÌ	ii
ŀ	Phase II Flight Evaluation			
1	Preflight;			
	*a. Records check	$M_{\odot}$	[]	
	* b. Crew briefing	Ų∕	H	11
	*e. Flight Planning			
	DTM load procedure	مرابا		
,	d. Preflight check	tief	[ ]	[ ]
-	<ol> <li>Start/engage/post-engagement;</li> <li>a. Start/Engage</li> </ol>	11.	[1]	[]
	b. Post-engagement	14		11
4	3. Taxi:	(=)	. ,	1.1
	a, Procedures	W	11	11
	b. Taxi	ŬΥ	ii	ii
4	. Takeoff/transition:	·V·	• •	• •
	* a. procedures	M	11	[]
	b. Type takeoff	er.		
	*(1) Vertical	M/		[]
	*(2) STO	N	[ ]	11
	(3) Crosswind	1/1/	[]	[]
	(4) Maximum Gross	مر أما		
_	*e. Transition to airplane mode	(M	[ ]	
.5	. Climb/cruise			
	* a. Procedures	M	[ ]	
	*b. Power control	[Y	11	
	*e. Aircraft control	NA.	11	1.1
Ħ	*d. CMS utilization/knowledge (1) CDU/EICAS	1816	f i	1.1
Ï	(2) MFDs	i W	1 1	11
$\overline{\Omega}$	(3) Digital Map	$\sim$	ii	11
<u>۲</u> .	(4) FLIR	14	ii	ii
Ň	(5) Key Pad functions	1	İÌ	ii
ENCLOSURE	e. Slow flight airplane mode	दरद्ददददद	ii	ίi
Æ		i.J		11
	f. Steep turns			1 J
	g. Spatts D ~ D	IY	ιJ	[ ]
	6. Approach and landing:	1- 100	, .	r i
1	a. Procedures	14		
_	b. Power control	(4	[]	[]

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c. Aircraft corred		1 ]
d. Type of la( = 2		
*(1) Verticar	`wz 11	[]
*(2) ROL	IV.	ii
*(3) No-Hover	MZ II	ÌÌ
(4) Crosswind	Mz ii	- 11
(5) Maximum gross	M ii	Ĺ
(6) Steep		
a. Normal	11 11	11
b. Nose Low	ii ii	ii
(7) Confined area landing	u ii	ii
*7. Emergency Procedures (critical area/sub area)	•	
a. Procedures	₩/ Li	11
b. Aircraft control	140	Ιİ
*8. Cockpit Resource Management	1	- '
a. Decision Making	[1] <sup>(2</sup> / <sub>2</sub> / <sub>2</sub> ]	( )
b. Assertiveness	ا برگا	ij
e. Mission analysis	[V.]	ii
d. Communication	ister i i	ij
e. Leadership	ا با	ii
f. Adaptability/Flexibility	i j	ίi
g. Situational Awareness	ii i	ii
). Shutdown/ post-flight		
a. Shutdown	[] []	1.1
b. Post flight inspection		i i
10. Debriefing	(1 11	11
Phase III Mission Evaluation Areas		
1. Confined area landing (critical area/sub area):		
a, Procedures		
(1) Zone evaluation		
h. Approach		
e. Power control		
d. Aircraft control		
2. Navigation		
3. Instrument Procedures		
I. LAT		
5. Special/Other		
Varrative of Flight:		
Strengths		
Weaknesses		
W CHAILESUS	Market - 11.4 - 5.	
Notes		

NATOPS EVALUATION REPORT										
NAME (Last, first, middle init	ial)		2. RANK:	3. EDIPI NL	MBER:	4. DATE OF LAST EVALUATION:				
Tomkiew	vicz, Matthew J.		Capt	151297	′1110	20-Aug-2	2021			
5. UNIT:	6. CREW POSITION & QU	ALIFICATIO	NS;	7. HOURS I	N MODEL:	8. DATE OF CHECK FLIGHT:				
VMM-261	Aircraft C	ommand	der	248	.1	08-Feb-2022				
9. TOTAL FLIGHT HOURS:	10. AIRCRAFT MODEL:	11. AIRCR	AFT BUNO:	12. FLIGHT D	JRATION:	13. EXPIRATION D	ATE:			
446.9	MV-22B	16	8019	2.6		28-Feb-2	2023			
	NATOPS EVALUATION									
14a.	14a. REQUIREMENT		14b. DATE	14b. DATE COMPLETED		GRADE				
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OPEN BOOK EXAMINATION				Jan-2022	Q					
CLOSED BOOK EXAMINATI ORAL EXAMINATION	ON			-Jan-2022 Feb-2022	Q					
EVALUATION FLIGHT		··		Feb-2022	Q					
					······································					
OVERALL FINAL GRADE:	QUALIFIED									
14d. REMARKS OF EVALUA	ATOR:		****							
Narrative: Capt Tomkiewicz flev CNAF M-3710.7, and knowledge of aircraft is qualified to hold a to be designated an	d applicable Federal capabilities and limi NATOPS rating in th	Aviation itations a e MV-22	Regulations nd displaye B aircraft. *	s (Part 91). d effective ( **NOTE: Ca	He deme crew res apt Tom	onstrated soun ource manager dewicz will be d	d ment. He			
Strengths: Aircraft Co Weakness: Adaptabil Annual Egress was pe Annual CRM evaluatio	lity/Flexibility erformed IAW CNAF			7D			ender in			
		WW CINAI								
15a. PRINT NAME OF EVAI	15	b. RANK:	15c. DAT	777	SIGNATURI	-A				
M. J. Toml 16a. PRINT NAME OF INSTRI		Capt	08-Feb-	17-0	SI NATUR					
IGE. TRINT HAVE OF TROTH		b. RANK:	16c. DAT							
17. REMARKS OF UNIT CO	(b)(3), (b)(6), (b)(7)c		100-1 60-	Λ	(b)(3), (	b)(6), (b)(7)c				
	450 MRS ACMIEVED ON 9 FGB ZOZZ. (WGRATS!									
18a. UNIT COMMANDER:	1 18	Bb. RANK;	18c. DAT	E: 18d	SIGNATUR	<u> </u>				
	(b)(3), (b)(6), (b)(7)c		9-FeB	.2022	(	b)(3), (b)(6), (b)(7)c				
CNAF M-3710.7 (Series)(REV	4/2016)				()	/	Page 1 of 1			

ENCLOSURE

,4

Evaluee FOIP! DOB Co /20 Instructor (b) Date of Flight Buno CFro - C Total years flyi Total flight time Total flight time	(3), (b)(6), (b)(7) 21 JULY 2-1 21 JULY 2-1 22 (all years) 38 22 (MV-22) 183 rument Check 0	1.9 .17/31/2020		
Deminion	Last 6 Months	Last 12 Mont	hs	Total All Years
Precision Non-Precision	7	12		N/A N/A
14011-3 TECISION	· · · · · · · · · · · · · · · · · · ·			1975
Flight Time				
Actual	5.2	14.5		38.1
Simulated	8.5	15.2		76.5
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CNAF M-3710/2 (REV 4/2016)

FOR OFFICIAL-USE-ONLY - PRIVACY ACT SENSITIVE: Any misuse or unauthorized disclosure of this information may result in both criminal and civil penalties

	r
NAME TOMKIEWICZ, MATTHEW J	
FILE OR SERIAL NO. 426925	11RE
FILE OR SERIAL NO.	ENCT.OSURE
DESIGNATION: NO. USMC	E N
DATE NOV 2017	
LOG NO. A FROM NOV 2017	
LOG NO FROM	

IF FOUND, PLEASE RETURN TO

CHIEF OF NAVAL OPERATIONS NAVY DEPARTMENT WASHINGTON, D.C. 20154

OPHAY FORM 3740-31 REV (4-65)

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#### QUALIFICATIONS AND ACHIEVEMENTS

(e. g. instrument card, patrol plane commander, aircraft type, CarQual, etq.).

(To be signed by Commanding Officer or authorized deputy)

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## QUALIFICATIONS AND ACHIEVEMENTS

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#### SUMMARY OF PILOT TIME

(To summarize flight data in this log and last months of previous log)

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MUNIN 1 4117 ... YEAR \_\_ AIRCRAFT PILOT TIME KIND TOTAL PILOT TIME SERIAL NUMBER FLIGHT FIRST PILOT CO. COMBE MODEL 2.8 () puris 148330 1A1 7.8 3.3 146724 1A1 02 mirs MBBB 168305 1A1 168330 JAH 3.3 18 3.3 1.5 1,8 3.5 148223 NUB TOTAL THIS PAGE BROUGHT FORWARD TOTAL TO DATE TOTAL ACCUM. \*See page 2 for codes. TOTALS, THIS FISCAL YEAR

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#### UNCLASSIFIED FOR OFFICIAL USE ONLY

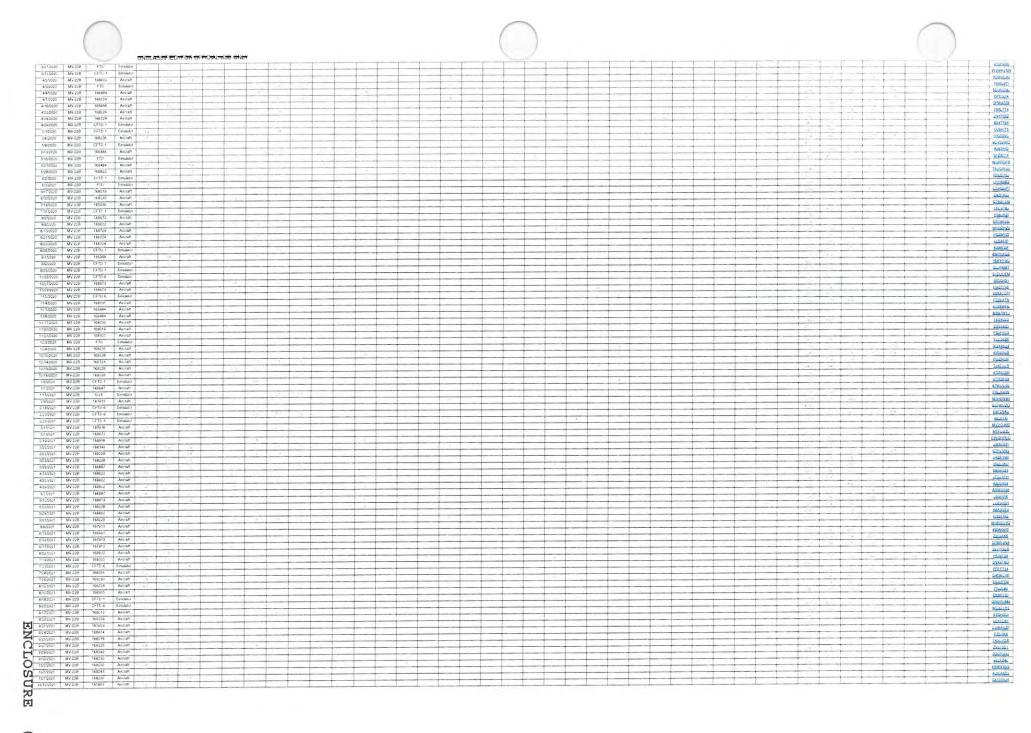
#### Log Book for Capt TOMKIEWICZ, MATTHEW 1/1/2017 - 3/31/2022

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Instructor Name	Event	Method	Needs Additional Training	Overview	Plan/Brief	Execution	Instructor Comments
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	FAM(1)-1081	-					
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(3), (b)(6), (b)(7)c	HAVING SE	Baselined	No				Event Baselined
	FAM(2)-2030						
)(3), (b)(6), (b)(7)c	444(42:01)	Logged	No No	Conducted a PAR at KNCA with good proficiency	Planned a PAR at KNCA	Execution of the PAR was good. Glideslope control was on point through out the approach. Good job on the use of the flight director and converting at the appropriate time.	See above
b)(3), (b)(6), (b)(7)c		Logged	No	Tac Form was flown in the W- 122 area. Each aircraft in the section took the lead to conduct maneuvers. Break up and rejoin was conducted per ANTTP. All Tac Form maneuvers were conducted appropriately and within		All the maneuvers were performed well. Good job executing the hard turns within parameters. All the maneuvers were conducted correctly. Good SA on when and how to turn. Basic air work was on point.	
b)(3), (b)(6), (b)(7)c	en v se tijt	Logged	No	Trail form was conducted using the VR-084 route in order to demonstrate trail maneuvers. All maneuvers conducted in accordance with ANTTP. Brief was solid.	Good brief	Good job calling turns and course intercepts. Remember that if stiff gets hairly in the clouds or you are vectored more than the turns in MC just go ahead and break up the flight. It is important to be predictable to ATC and do no wait until you are with the terminal controller to break up a flight.	
(b)(3), (b)(6), (b)(7)c	CAL(2)-2230	Logged	No	TACFORM executed in the W 122.	Good understanding of ANTTP and all required briefing items	Well executed Good, aggressive maneuvering with limited coaching.	Keep utilizing the rest of the crew to build SA.

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enclosure (6)

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Capt TOMKIEWICZ, MATTHEW J - MV-22B Pilot
Crew Performance between 1/1/2015 - 3/18/2022
Generated on 03/24/2022 1044 UTC-04 00

CAL(2)-2231 CAL(2)-2240 CAL(2)-2241 (b)(3), (b)(6), (b)(7)c Executed multiple landings in ead and -2 positions. Both CONV and high speed tactical approaches insufficient time to run through insufficient time to run through Executed SEC Cals in nak roficient with all briefing items iuld standard LZ diagram Good landing procedures. Keep working on utilizing radius of turn to mainta after TACEORM Event incomplete due to time cyclic lost controllability Sim conducted in CFTD-6 Flight departed KNCA, blue fine for LZ Bluebird Environmental conditions were gridt in lear skips, with Plan and brief adequately prepared crew for scheme of maneuver and sequence of events. Parts were derailed with sm issues loss of comms and loss of feel in the cyclic resulting in a system treet. (b)(3), (b)(6), (b)(7)c IVL(2)-2270 approach mode profiles complete were right, clear skies, with Completed automated RVL profiles that were incomplete in previous sim a system reset Good job reviewing the discuss tems. Stay in the books (b)(3), (b)(6), (b)(7)c Good job with your profiles, just watch your speed down low and don't be afraid to pull the controls out of detent to help George slow down. ompleted RVI s at 17 Logged Completed RVLs at LZ Falcon. Started with most automation and did an approach mode to hover coupled landing. It can be overwhelming looking at all the OIDs on the PFD and overhead panel, just keep looking at the ANTTP and NATIP to get more familiar with what you are looking at with what you are looking at with what you are looking at with what you are looking at the ANTTP. with what you are looking at on the glass. Even though George has the controls, always back him up in case ne cuts off and remember to get the gear. The next approach we did was the nover coupled Remember anticipate the hard deck that you set in the hover attitude box so that you don't go below it and potentially go in the cloud. Big thing to remember for these approaches is that you don't have to be in costion hold 10. To all ref down. As long as you are on a safe profile, all refling down in possed is fine. The last type of approach we did was assisted no hover. We spent the maintain of time in this intim. We started this portion of the Keep doing great things am with hover drills in LZ. Bluebird (coming) of the color of the control of the you set in the hover altitude (b)(3), (b)(6), (b)(7)c Sim conducted in CFTD-6 Flight departed KNCA blue fine for LZ Bluebird. Environmental conditions Logged lan and brief adequately prepared crew for scheme of maneuver and sequence of events. Parts were derailed with ern issues loss of comms and oss of feel in the cyclic resulting Bluebird (coming off section HLL CALs) Remember this were night, clear skies, with light winds from the North. s a technique for the sim. in is a technique for the sim. In the aircraft we don not want to spend excessive time in the dust. You scena (riside and out) improved each landing, and you recognized your tendency to have a heavy left foot in the last 50 feet. Remember its an outside scan (pattern), transitioning to the glass as the dust begins to build. The same takes you immediately from 0-100% obscurance real world, you might have time to recognize. Also call when you're transitioning to the glass. For the patterns, as lead you were a stable base. In -2 you recognized how devasions from the planned profile (getting slow, nigh) can jamue subsequent aircraft. he aircraft we don not want t comms with lead were ntermittent. Following a loss a system reset of cyclic control, repositioned to KNCA to complete training up subsequent aircraft. Initially tending to be stepped up high, you corrected to a good -2 position. All patterns, profiles, landings, and CAL/RVL work complete per the T&R Landing plan and ingress appropriately and safely planned Student was able to brief various profiles correctly as well as wave-off criteria and limitations Proceeded as section VFR rom KNCA to LZ Emu IVO Dak Grove (13NC) established at EMU, student c, (b)(3), (b)(6), (b)(7)c established at EMU, student completed RVL training per the T&R. Training complete Proceeded as section VFR from KNCA to LZ Emu IVO Oak Grove (13NC) established at EMU, student All patterns, profiles, landings, Solid flight progress, and CAL/RVL work complete per the T&R Landing plan and ingress (b)(3), (b)(6), (b)(7)cogged carriag par and riggles appropriately and safely planned. Student was able to brief various profiles correctly as well as wave-off criteria and limitations. established at EMU, student completed RVL training per the T&R. Training complete Proceeded as section VFR from KNCA to LZ Emu IVO Oak Grove (13NC) established at EMU student completed RVL training per completed RVL training completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL training per completed RVL traini Landing plan and ingress
appropriately and safely planned
Student was able to brief vancue
per the T&R (b)(3), (b)(6), (b)(7)c Logged profiles correctly as well as wave off criteria and limitations completed RVL training per the T&R Training complete

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Capt TOMKIEWICZ, MATTHEW J - MV-22B Pilot
Crew Performance between 1/1/2015 - 3/18/2022
Generated on 03/24/2022 1044 UTC-04 00

	03/24/2022 1044 U		Inc	Transferred No vero co	Transaction 1	0 1 21 2 2 T	No. and an Education
)(2)Low, (b)(6), (b)(7)c		Logged	No	Conducted NS NVG SS CALS at LZ Bat We conducted a few corv mode patterns, and one of each of the tactical approaches.	T&R brief was good. Good demonstration of knowledge	Overall solid oxecution of SS IC CALs Each pass got progressively batter Make sure you keep examing out the 45 hearing to enhance your ability to visually acquires rates it can be a little difficult with the 45 hearing to enhance your ability to visually acquires rates it can be a little difficult with the 40 degree FOV on the NVGs but if you keep your visual scan moving, you can reduce the impact of a small FOV Basis amonds was maintained well within parameters. HUD precision approach is a very good tool to use buy remember to short ou see buy remember to short a visual approach to maintain safe distances from obstacles. Sensor integration can also hely you here. Use a good scan between the HUD, visual scan, and the FLR to help increase your SA in the night environment.	Overall solid event
(b)(3), (b)(6), (b)(7)c		Logged	No.	Sim conducted in CFTD-6 Flight departed KNCA, Blue line for LZ Bluebrid Emstrommental conditions were night, clear skies, with light winds from the North Comms with lead were intermittent Following a loss of cyclic control, repositioned to KNCA to complete training	Plan and brief adequately prepared crew for scheme of manetuver and sequence of events. Patts were derailed with sm issues loss of logarithms and loss of feel in the cyclic resulting in a system reset.	Good recognition of the course rules and zone as we proceeded to LZ Bluebird You elected to land absorn and slightly reverse excleton of lead. With mitally title contrast, this made it difficult to judge your position relative to his aircraft, but you safely picked a spot that granted you a clear tanding and wave-off land Your coan (riendle and out) improved each landing, and you recognized your tendency to have a heavy left foot in the last 50 feet. For the patterns as lead you were a stable base in .2 you recognized how deviations from the planned any lam up subsequent aircraft initially tending to be stepped up high, you corrected to a good .2 position.	Overall, great work. Don't break the cyclic next time
(b)(3), (b)(6), (b)(7)c		Logged	No	Flight conducted day into right out of KABO. Sky was clear with light winds from the North. We departed for the auxiliary pad south of the aurillary pad south of the south due to boundaries surround the pad. After refuelling, conducted night landings to the aux pad until 130 paraops began in the area. We transitioned to double eagle artifield, a small towered airport north east of KABO for the right mat and CALs.	>	You correctly interpreted and recognized the elevation changes, and used an appropriate dome marrier to compensate for it. Conversion mode patterns were solid. For the straightims from the south, you flew the edge of the boundary to allow a good approach into the spot—well done. For the might MAT and CALs, you power pulls reflected a good understanding of high! hot / heavy conditions. Your communication was a little faint, which seemed to be predicated on the mic not overtasking. Ensure you are reading back calls from the back, and this approved as the night progressed. On one of the 180s into Double Eagle we had a quick, uninterthonal descent which you corrected and verthalized-good recognition. Keep forcing yourself to use the HLID when the works, but it is good you are not reliant on it is good you are not reliant on it.	Good work. ATFs will be identical for day / right mat and is cal
(b)(3), (b)(6), (b)(7)c	(SECTION)	Logged	No	Flight departed VFR from KNCA and conducted HLL	Landing plan and ingress planne appropriately and safely	d All pattern, profiles, landings, and HLL NS CAL work complete per the T&R	Solid flight, progress

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Capt TOMKIEWICZ, MATTHEW J - MV-22B Pilot

Generated or Capt LADHA, SHAFIQ WILLIAM			IN-	Florida 175 (5	Control of the contro	Francisco Control	Secretary and the form of the secretary and the
CADRIA, SHARIQ WILLIAM		Legged	No	B-E, L-Hour into LZ Bat, followed by SS RVLs to Rwy	Good job on discuss items in major issues noted on mission planning products. Talked through different techniques on NAVLOG creation / utilization.	Flew as 2 for this portion of the sm to the VR-094 We talked about staying closer to fead so that we can pick up closure rate. It's a lot harder to do if you're more than an 3 away especially in LLL conditions. Executed without maneuvers and TACFORM with no real issues. Good procedures and TACFORM with no real issues. Good procedures and factority in the procedure and talked through different ways to work it. After initial landing at LZ 58 it. we repositioned to RWY 19 as a single to conduct our NS. RVLs. Overall good job roight. Big thing we talked about was to get the arcraft in a timmed state before giving a tower to Seconge Help him help you and by giving him a stable platform to start with to less likely that well have to intervene and defeat the purpose of using automation.	Gverall good job. It was a long am with lots of codes but you stayed engage and we were able to complete all of the training.
			1			the RVLs, we joined lead at	
(1) (2) (1) (2) (1) (7)	31 7 -					LZ Bat and conducted conversion mode and low	
(b)(3), (b)(6), (b)(7)c		Logged	No	Fiew from LZ Bat to VR-084 B-E L-Hour into LZ Bat. followed by SS RVLs to Rwy 19 then joined with other sim to complete SEC Cals	Good job on discuss items, no major issues noted on mission planning products. Talked through different techniques on NAVLOG creation / utilization	athliefunctions are also as a consideration of the sim to the VR-084. We tailed about staying closer to lead so that we can pick up closure rate. It's a lot harder to de if you're more than an 3 away, especially in LLL conditions. Executed vertical maneuvers and TACFORM with no real issues. Good procedures and control inputs. We were passed an L-Hour and tailed through different ways to work. It after intal landing at LZ Bat, we repositioned to RWY 19 as a single to conduct our NS RVLs. Overall good job tonight. Big thing we tailed about was to get the attoratt at immed state before giving it over to George. Help him help you, and by giving him a statile platform to start with its less likely that well have to intervene and defeat the purpose of using automation. After we were complete with the RVLs, we joined lead at LZ Bat and conducted conversion mode, and low statute, taceted a consequence.	
(b)(3), (b)(6), (b)(7)c		-vagetu		Northeast Creek Bridge to	flight. Knowledge for brief demonstrated good preparation. s	ittle to the right 50' and below you fought this throughout the right and were able to correct a quickly. You mavigated at trickly zone (livets and holes throughout), responding to the rerew feedback well, and finding a good spot. With the waypoint active, you filew a solid pattern, and filew smooth/appropriate control inputs in the endgame for landing. For our first lianding is 10' Till (Tehemstick), we stalled out a little coming into the zone Keeping your sear to the 45' and 90 will help you joke up that closure rate Your subsequent landings without a waypoint were sold as your tactical approaches. Overall good work—you had a solid scan gong and made corrections eartly	

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(b)(3), (b)(6), (b)(7)c	03/24/2022 1044 L	Logged	No	Departed KNCA as a single Northeast Creek Bridge to	Plan / LZ diagram adequate for	little to the right 50' and below	Good work. Comments are reflected in 2380
				the redine and stimately IZ. Gail It was a LLL regist skee olear with light-variable winds. Conducted training to the Southern portion of the zone varivity auting a wayport and an IR chematek for our landings. Returned via Redfine to KNCA.	flight. Knowledge for brief demonstrated good preparation	you fought this throughout the right and were abile to correct traukibly. You navigated a trickly zone (drivets and holes throughout) responding to the crews feedback well and finding a good spot. With the wayspoint active, you flew a solid pattern and flew smooth/appropriate control reputs in the endigians for landing. For our first flanding to TIG (IR chemistol), we stalled out a title coming into the 25 and 90 will help you pick up that closure at 8 your subsequent landings without a waypoint were solid, as well as well as well as a formation of the stall approaches. Overall good work-you had a solid scan going and made corrections early.	
(b)(3), (b)(6), (b)(7)c		Logged	No	Departed KNCA as .2 and headed to VR-084 Conducted NAV route at 1500' doing TACFORM maneuvers Proceeded to LZ BAT to conduct HLL CALS as 22 and lead. Early RIB due to	no issues	Good job today. We had to call a knock it off during TACFORM due to close proximity with lead A.C. Talked as a flight about situation and continued training. For your CALS no	Press
(b)(3), (b)(6), (b)(7)c	Curior.	Logged	No	WX  Departed KNCA as -2 and headed to VR-084 Conducted NAV route at 1500' doing TACFORM maneurers. Proceeded to LZ BAT to conduct LLL CALLS as -2 and lead Early RTB due to	no issue	issues noted, good job keeping your sean outside and not fixating on one spot. Good job today. We had to call a knock toff during TACFORM due to close proximity with lead A/C. Talked as a flight about situation and continued training. For your CALS, no	press
(b)(3), (b)(6), (b)(7)c	(40.5) (20	Logged	No	Sim departed KNCA and followed Blue Line pourse rules from L-K. Pendezvous with KC-1030 of coast of K. Day TAAR executed on both left and right hoses. Event complete IAW the T&R manual.	Knowledge was solid	issues noted, good job keeping your scan outside and not foating on one spot. Remember to focus on flying form off the tanker. Don't stare at and chase the basket when making play Establish yourself in a stable astem before making your play. Once in the basket focus your scan on maintaining the "T" with the hose and tanker's wing and adjust your position with the hose and the pod. When breaking contact, try and put the basket back.	Continue to progress
(b)(3), (b)(6), (b)(7)c	Section 10	Loggad	Na	Sim departed KNCA and followed Bille Line course rules from L-K Bendezvous with KC-130J of foosts of KNS TARA executed on both left and right hose E-vent complete IAW the T&R manual	Knowledge was solid	where you found it.  Remember to focus on flying form off the tarker. Don't state at and chase the basks the attent at an extended the state at an extended the state at a three the state at a state at a three three the state at a state a attent before making your play. Once in the basket focus your sean on maintaining the 'I' with the hose and tarker's wing and adjust your position with the hose and the pod When breaking contact, try and put the basket back where you found it. Utilize your probe light if nocessary for better vz of the basket and hose.	
(b)(3), (b)(6), (b)(7)c	AAR(2)-2440 AAR(2)-2441	Logged	Na	Day TG to BT-11 SS/SEC for two prew chests day repunch 1200 rounds 7 52	Solid brief and discussion. Remember that base ROEs are consistent throughout an AO, however local commanders can be more restrictive. Weapons conditions, sectors of fire, STAR reports and fields of fire IAW ROEs to ID POO and PID allows for breatly and responsive suppressive fires.	and flying a stable platform	Continue with syllabus. No discrepancies noted
(b)(3), (b)(6), (b)(7)c		Logged	No	Departed KNCA to BT-9 LL night doing TG over the water 1+30, departed and proceeded direct to VR 084		See overview	Good job keeping level platform for the guys in the back. We had a very important take away with making sure those guys are cleaned up prior to executing our next phase of flight. Always ensure that those guys are set p going fast.

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(3) (b)(6) (b)(7)	Donald Control	Loggest	No	The flight departed out of	instructors beafad the	The flight departed cut of Th	The student's knowledge on LAT conduct was well proficient
(3), (b)(6), (b)(7)c		Logged	No		prepared a NAVLOG that included a L-Hour into a	The tight departed out of MOAS Yuma not flew a LAT route north of the artifield. The LAT route north of the artifield. The LAT route was prentyled to the student and was Pennsylvana routing. The flight executed the route engineity as singles to conduct single sing maneuvers. Then titer joined up for section LAT. An L-hour was shot into an LZ designated by the students.	The student's knowledge on LAT conduct, was well proficient
b)(3), (b)(6), (b)(7)c		Logged	No	The flight departed out of LMCAS Yuma, and flew a LAT route north of the artifield. The LAT route was created by the student and was Pennsylvania routing.	Instructors briefed the route the students prepoed. Students also prepared a NAVLOG that included a L-Hour rito a designated landing zone.		The atudents' knowledge on LAT conduct and CMS management, were well proficient
(b)(3), (b)(6), (b)(7)c		Logged	No	Flew from LZ Bat to VR-084 B-E. L-Hour mto LZ Bat followad by SS FVLs to RW, 19 ithen joined with other sm to complete SEC Cals	Good job on discuss items, no major issues noted on mission planning products. Talked through different techniques on NAYLOG creation / utilization.	the sim to the VR-084. We talked about staying closer to	Overall good job, it was a long sim with lots of codes but you stayed engage and we were able to complete all of the training
(b)(3), (b)(6), (b)(7)c	LAT(2)-2640	Logged	No	Flew Sec Lat on VF-084 with a L-hour into BAT	Solid plan, student focused on building a detailed and thorough NAVLOG. Try building flexblity into your products to allow you to quickly analyze the mission and make changes on the fly	vertical maneuvers, and quick stop. Ensure to make use of	Well axecuted continue progressing
(b)(3), (b)(6), (b)(7)c	Innesi	Logged	No		Knowledge was solid regarding discuss items, Remember to s think about how the discuss item Z apply tactically IOT make the connection between our initial 2000 level events and follow-on mission codes. Everything builds on itself	No major issues noted. We talked about the different s ways to manage our position relative to our wingman IOT help us maintain visual. Staying ahead of the plane is	1
(b)(3), (b)(6), (b)(7)c	Marie	Logged	No.	Departed as heavy division from KNCA as -3 Proceeds to VP-086 and conducted LAT as a section with -4 Joined on deck LZ Caledon for the hotseat		Nice job tonight staying engaged with a flexible plan and flying with 3 squadrons. For the LAT portion, remember standard CPM calls keeps everyone on the same page with regards to where everyone is in the flight No big issues noted for maneuvers. Talked about LHour management and also dealt with not having a	

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ENCLOSURE (6)

(b)(3), (b)(6), (b)(7)c	03/24/2022 1044	UTC-04-00 Logged	No.	Day MAT conducted at Bridgeport	Overall T&R brief was good with no deficiencies in knowledge noted MAT ACADs completed prior to sm so knowledge was fresh	We executed multiple landings at Bridgeport in the MAT environment. Hemember the name of the game is power required is power available! Deep longer that planning and calculations in real time are critical to safety of flight. Keep working the CMS and horing those skills. Overall aircraft performance suffers at altitude so waveff early, slow down sooner and south the FER gauge in conv.	Overali great sin
(b)(3), (b)(6), (b)(7)c	e de la com	Logged	No	Same SOM as 2730 but now in the right environment	Brief was solid, MAT ACADs completed prior to the sm	mode	No assues noted
(b)(3), (b)(6), (b)(7)c		Logged	Yes	Sim was conducted at Bridgeport in conjunction with 2730 and 2730. Overall recommend Lt Tomkiewez get some more reps on high hot and heavy operations due to available sim time. We hat the requirements but it would be beneficial to keep practicing.	See notes from 2730 and 2731	Overall good sim, just a bit rushed. ALWAYS double check your numbers on the CMS Remember garbage in garbage out. If you are operating on the wrong numbers (is power available, gross weight altitude, templ) you may put the aircraft in a dangerous situation where you can not recover. This is the key concept to take away from this eim Krow the aircraft and know your operating environment and plan accordingly.	No deficiencies noted, good sim event overall. Recommend more practice sims
(b)(3), (b)(6), (b)(7)c	etion.	Logged	No	Event conducted in conjunction with DIVCAL install event Flown as -2 division lead by Capt Lazontz (VMM-264) DIV TACFORM in the W-122 CALS in LZ Falcon	Plan was to execute form on the VR-984 at altitude, div cals in Falcon. Flexed to TACFORM in the W-122. Briefed by div-lead, Capt Lazontz	1stit Tomkiewcz was at the controls for much of the flight during his DIV CALIFORM initial. He is confident in his tactorm, which is rare for copilitios of his experience, and he has well-above-average airmanship when maneuvering in airplane mode. However, he sometimes was sucked and long during conversion mode, which created problems during pattern work.	Coachable, average SA, above average airwork in the TACFORM. Push,
(b)(3), (b)(6), (b)(7)c		Logged	No	Event conducted in conjunction with DIV FORM event. Flown as 2 in a three ship division. Conducted the Form in w122, div cals in LZ Falcon.	Briefed by actual division leader. Capt Lazontz of VMM-264. 1st.t. Tornkiewez has a good knowledge base regarding the division formations.	Departed as a section initially while -3 troubleshot, which was good opportunity to warr up. After did from: we returned to falcon for CALs. As -2 or -3, you have to aliveys be conscious of where yourse putting -3 or -4. respectively. Being wide, sucked, high, fast, etc. can set you up for a bad end game, which is where our impesion is most official. Your pattern work was average, and has room to improve but you are safe in my eyes. Just watch out for some of the official conditions like being 10 degrees nose up at 80. Nacelle, and trying to slow below 140 while still on the downstops.	

ENCLOSURE (6)

(b)(3), (b)(6), (b)(7)¢	1777	Logged	No	Flight conducted in	Mission products were adequate	The HLL Division CAL training	You were consistently high during your conversion mode patterns throughout th
				corrunction with a \$331 Division Land sever. The flight awarded section and single she training at Rota before the division regioned and departed. The flight executed division and errorde to Moron followed by division CAL training at Moron until the flight's land time.	for mission success. The PUI had a good understanding of the discuss items and was able to	was conducted during the last hour of the flight window Multiple conversion mode	rujit. Remember that once you have your approach line, get yourself to a soll glidelegue as quelly as possible. You want to make the big corrections early the approach so that you make the end game that much easer it would also held if you utilized the "thus on the horizon" technique to match your descent, with the other arcraft in the flight. You were within performance standards by rend of the right and your factoral approaches were the frightlights of your performance. Keep working on your conversion mode sight picture and stay in the books.
(1)(0) (1)(0) (1)(7)		Deferred	No				Event Deferred
(b)(3), (b)(6), (b)(7)c		Logged	No	LLL Cats as part of a testical event with sister spuzadron PU planned with adjacent unt and occupied the -last postern for CALS CALs conducted at Bladen Lakes	Event planned to depart KNCA for Bogue to PZ required incops then fly via MRR (VR-042) to LZ Bladen Lakes Event briefed by DLUI. TAR brief with PUI showed no deficiencies. PUI assisted in the creation of planning-briefing products.	Flight sequence ran as briefed At Bladen Lakes the DL had to RTB for a mathuston leaving the remaining 3 planes in the zone. CONV and APLN mode CALs completed from the last position. Tendency was to remain too night around the pattern and stucked with lead to a long final with too much energy at the end improvements made throughout.	Continue in stage
(b)(3), (b)(6), (b)(7)c		Logged	No No	Flight was conducted in conjunction with VMM-162 as a flight of three. Div Lat was conducted on the VR-084	In the brief we discussed the responsibilities of the arcrew and the CRM required during division tac form	Division LAT was executed as a three ship. Multiple maneuvers and tac form maneuvers were conducted IAW the NTTP	Great job ready to continue to the airplane
(b)(3), (b)(6), (b)(7)c		Logged	No	Event completed in conjunction with Section GTR aim and GTR waiktmough We started with the brief in the ready room, walked to the hangar to talk through GTR command range procedures Sim followed with Capt Zingler and 1st1. Scott in the wingman sim Sim secution took place at KNVL ranges with threats across the spectrum, including small arms. ZPU, ZSU, SA-8, SA-8 and MANPADIS.	Good knowledge of the ASE installed, remember to chair flight your profile to make the most of the range time.	Tatt. Tomkiewicz demonstrated a standardfair Tatt. Tomkiewicz demonstrated a standardfair performance during the single ship GTH sim. He was slow to produce the correct maneuve and intrafflight CRM call in response to the threats. Needs work on memorang the inen numbers before the GTR flight. While not preficient by the end of the sim, this represented a good first exposure and tatt. Tomkiewicz is in-line with his peers for progression through the core skills.	Ready for foliow on GTR events
(b)(3), (b)(6), (b)(7)c		Logged	No	Follow on sim to 1stLt Tomkiewiczs GTR syllabus Event conducted with Capt Zingler and 1stLt Scott in the wingman position on the Yuma GTR tanges. Threats included variety of RF (SAM	Good discussion regarding systems, training for GTR VS actual GTR, and the difficulty of acquiring proficiency in this skill. Fair knowledge of NTTP procedures and CRM cadences	ship sim and GTR walkthrough, we performed a the GTR line numbers agains	its a difficult set of skills to master but the surface-air-threat counter tactics matrix, it read and understood, will greatly aid in your progression. It's fair to that you are limited in your ability to individually secured STA due to experient land knowledge. Your flight will help in building your comfort with the CRM an procedures, but should direationally retriant your confidence in our ASE equipment. Ready to proceed to GTR flight.
(b)(3), (b)(6), (b)(7)c		Logged	No	Day VFB section to Atlantic with both RF and IR smitters Winds 280/7	Baef conducted by WTI, PUI assisted in the creation of planning products. PUI demonstrated sufficient knowledge in the T&R baef for flight execution.	Flight departed as a section from KNGA to 12NC Conducted lines 1, 5, 6, 9, 10 and 11 PUI has a firm grasp of both the functions of the ASE and the maneuvers required to successfully react to a threat. Control inputs an expendable releases were laby the ANTTP and likely would have resulted in successful disengagement.	
(b)(3), (b)(6), (b)(7)c		Logged	No	Executed multiple landings to LHD and LPD in simulator	Discussed CQ considerations an T&R items	d Dropped an LHD and LPD S of point K. Executed multiple breaks and practice approaches to multiple spots on each ship with winds changing throughout the flight Also demoed single engine failure and discussed genera emergency procedure considerations at the ship.	t.
(b)(3), (b)(6), (b)(7)c		Logged	No	Conducted night CQ on LHD off California coast Conducted Type A and B conversion mode approaches	None noted	Remember that on your bas turn to final, you're orly have to lose -200' of altitude vice the normal 300' for normal CALS, so don't set the same RIOD you normally do or you end up shallow like we saw today. Your lineup and spec control were good all night ju work on the glidestope. You see that in the plane. CC ca will help tremendously with drift and line up over the spo- drift and line up over the spo-	op de la companya de

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(b)(3), (b)(6), (b)(7)¢	13/24/2022 1044	Logged	No	Took off KNCA to do FLCPs at N. Davis, brc 190 Completed multiple charite patterns, landings. STOs, and reveiwed tax procedures. We went through all the normal	Completed	Above average stick skills over the spot. On the STO, student tends to pitch up too much during the capture 3-5 deg nose up portion of the STO. No ather issues notes	Good brief, stay in the books and always reveiw the boat book before going to the boat.
(b)(3), (b)(6), (b)(7)c		Logged	No	Elvis21 was SL for flight of 2 departing/returning to KNCA Wx marginal VFB with occasional showery gusts, winds 220@25G40, vis 3-6	Elvis 21 was intended to be -3 of 4 ship division in VMM-266. Due to maintenance, VMM-266 backed out of division so a hasty planshief was passed and executed to capture FCLP X's in both aircraft PUI did a good job adapting to a short-notice change in the mission plan in order to maximize training value. Of note, PUI participated in the planning and creation of division work products at 266 (though they ultimately were not utilized).	Elvis 21 flight departed KNCA for the red line to Davis N FCLP deck, where they executed approximately 20 FCLP patterns (PUI had 13	PUI showed strong improvement throughout the right initially. PUI had tendency to stall at dick edge OR crose with excessive closure, resulting in large amptitude control injust over the spot Once PUI had discussingly fricture under control. It is focus was on the mechanics of the "nose-left full right ". Remember it is fine to come completely over the spot and execute that next turn As you become proficient and experienced, you can combine your forward closure with the realignment in order to minimize time over the spot. Nice you Stightly above average event. PUI is well qualified to proceed to conduct NSCQ. The difficult winds and weather conditions experienced during this event, were great preparation for actual conditions at the local.
						Once complete with FCLPs, section conducted a Tango to Kilo transition over surf dity in conversion mode to transition to LZ Bluebird At this point to LZ Bluebird At this point waither became temporarily marginal due to band from a nearby tropical storm passing through, on loo of the gusty winds (40 Knots at pattern altitude). Section conducted 5 conversion mode patterns in to LZ Bluebird before returning to KNCA for a section breaking and 12 KCEA.	
May TORRES MANUEL ANTONIO		Logged	No	Division flight executed IVC Fort Bragg ISO and ECT and exercise Parther Storm II. Flight departed New River for P.2 operations at in the R- 5311 PAX and MRZPs loaded onto the aircraft at I.2. Jession and inserted into I.2. Sielly. The flight returned to Jession to pick up a second wave and inserted them into a separate farching site in I.2. Sielly. Mfor 2nd insert. I.2.	Capt Tomklevez performed well in mission planning during the day of the mission with managing product development and gaining additional exposure to the assault support planning process.	Flight was executed as planned within the R-5311 ASTACSOP objective area calls and testics were reviewed prior to the first testion of P2 operations A total of 48 PAX and 1 MRZPA were picked up at L2 Jessica and inserted into Ix separata landing sites within L2 Sicily supporting the recon force's scheme of maneuver in the AO	Good work staying engaged throughout mission planning and during the execution of the mission. While the execution of hid not provide a definitive examine for the mission while the execution staying the execution of the hidden of the execution of the property of the execution of the property of the execution of
(b)(3), (b)(6), (b)(7)c	Bress	Logged*	No	Conducted multiple CASEVAC drills while posturing for both alert 5 and alert 15 in the local airspace of MCAS New River DASC	Brief was conducted by a WTI	PUI demonstrated a high knowledge of the CMS and quickly inserted information as required to minimize our response time.	No issues, progress
(b)(3), (b)(6), (b)(7)c	Para San	Logged	No	HASTY TRAP EVENT EXECUTED AS PART OF LOCAL SECTION READINESS. MORON, SP	PLAN PER ASTACSOP, WITH SIMULATED UAS AS OSC AND RESCORT USING CHECKPOINT BRAVO AS IPHA AUTHENTICATION COMPLETE BY OSC, AND USE THE SNATCH METHOD. BRIEF PER ASTACSOP AND BRIEFEC BY SECTION LEAD.	PER ASTACSOP, WITH SECTION LEAD RUNNING THE EVENT EXECUTE FROM CHECKPOINT BRAVO, WITH A SNATCH	NONE
(b)(3), (b)(6), (b)(7)c	SALE OF THE SALE O	Logged	No	Flight conducted as a TRAP mission within the Impenal Valley area originated from Tuscon	Flight brief conducted as a chalk talk amphasizing the communications and information flow from all personnel recovery players to the rescue vehicle and then emphasized objective area mechanics.	Executed as planned	Capt Tomkiewicz did a great job maintaining SA and ensuring the information flow in the cockpit kept everyone informed.
(b)(3), (b)(6), (b)(7)c		Logged	No	LLL LAT and Cals as part of a tactical event with sister equation. PUI planned with adjacent und and occupied the flast position for CALS CALs conducted at Bladen Lakes Mission was to insert a force with escort from RW CAS and RPA aircraft.	Evert planned to depart KNCA for Bogue to PZ required troops, then fly via MRR (VR-042) to LZ Bladen Lakes Event brefed by DLU, T&R bert with PUI showen o deficiencies PUI assisted in the creation of planning-briefing products	Flight departed as fragged and transited to PZ Bogue Remamber with a real boat or ead PAX, don't plan anything less than 45 mms when your PZing a flight of four or more Timing was constructive for the event. OLUI elected to depart later due to planned excess time for a flight join Flight entered the VR route a planned and flew LAT without incident. Remember there are no scenarios where the MY-22s will be the only ones around. Provide position updates, reach out for misses SA and generally engage with the rest of the team morthan trappened in this event. RPA and RW CAS parted a variety of technical threats and attitude prior to V-22s coming on station. Good job staying on outreeline duming the approach. be sure to include the allottude into your scan, we ended up with too much energy at the end and had to let down to the landin At Bladen Lakes the DL heal was the services.	

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enclosure (6)

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EXPERIENCED AN ELS FAIL AND ATED. A TERM TED TO COMPLETE LATICAL.

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TO COMPLETE LATICAL.

HOWEVER 1-1 ATED TO COMPLETE IN THE PLAN OR DISTRACTING MISSION FOR THE DISTRACTION OF THE DEPARTED AS A DIVISION FOR THE PLAN DEVELOPED
THROUGHOUT THE WEEK
WITH 165TH FOCUSING ON
MUTUALLY SUPPORTIVE
TRAINING DEJECTIVES
SIMPLE PLAN TO INSERT
CONDUCT LOW ALTITUDE
MRR BACK TO OBJECTIVE
AREA FLOW TO INCLUDE
CASEVAC & INES EXTRACT A
PORTION OF THE 18X FORCE
THEN RTB FOR COLD FUEL
AND HOTSEAT BRIEF
COMPLETE BY DIVISION LEAD
VIA PPT ADEQUATE FOR
MISSION SUCCESS Generated on 03/24/2022 1044 UTC-04 00 (b)(3), (b)(6), (b)(7)c Logged COMPLETE DURING SAVANNAH GA AND R3007 OP TOWNS VEGA ISO 165TH ASOS JTAC (18X) PZ HUNTER LZ SONGBIRD OBJ AREA MECHANICS AND CONTINGENCIES DIVISION FOR THE OBJECTIVE AREA. JTACS "VENOM" MADE MULTIPLE OBJECTIVE AREA CALLS AND EACH AIRCRAFT (OR AS ELEMENTS) WERE AS ELEMENTS) WERE
CALLED LINEAR AND CULTES
Flew from KNCA to DZ
Fleasant to conduct face to
face brief Talked through the
TFG brief and impostance of
covering all of the checklist
item. Took off and dimbed to
10,000 MSL to onduct MFF
Big thing here is to be smooth
and precise on the controls
You don't want the guys in the
back getting sink or injured onducted PARAOPS at DZ heasant at North Davis This is something we don't do very often so when planning on JMPS break out the AD guide it: a separate JMPS manual that deals with this exclusively (b)(3), (b)(6), (b)(7)c ogged back getting sick or injured with abrupt control inputs. We talked through using the checklist and how those are your bid to success in making sure you are set up appropriately for the evolution conducted several iterations with you flying and running checklist. No issues PUI participated in all aspects of planning, to include building a chute from ballistic data, planning a no-wind CARP, winded HARP, and building interfibrick products. PUI is commended on his level of participation PUI cam well prepared to discuss AD checklists and walked away from T&H with a adequate decomplicition in the solid grasp on how to accomplish the event. PUI was responsible for PNF
PUI was well prepared for event. Knowledge was good, SA and Comms as
duties throughout the conduct
PNF were also solid for PUIs position in sylabus. Only feedback was to be
only feedback was to be
accomplished successfully
concerned with the position of the flaps so that we can speed up and get out of Event conducted in support or squadron FRAG with 3rd Marine Raider Bn conducting LLSL and MFF operations. PUI was -2 CP (b)(3), (b)(6), (b)(7)c PUI is well qualified to conduct this code as a member of a proficient crew AD(4)-4042 Conducted multiple External picks and drops IAW the NATOPS and T and R Conducted External Operations in a confined Plan and brief IAW the NTTP, T and R, and NATOPS (b)(3), (b)(6), (b)(7)cogged inding zone AD(4)-4081 AD(4)-4083 AJE(4)-4140 AIE(4)-4141 AIE(4)-4142 AIE(4)-4143

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ENCLOSURE (6)

(b)(3), (b)(6), (b)(7)c	03/24/2022 1044 U	Logged	No	Flight conducted day into night out of KABQ. Sky was		You correctly interpreted and recognized the elevation	Good work. ATFs will be identical for day i night mat and is call
				clear with light winds from the North. We departed for the auxiliary pad south of the airfield for day mat landings	5	changes, and used an appropriate dine margin to compensate for it Conversion mode patterns	
		1		After multiple conversion mode patterns, we were		were solid. For the straight- ns from the south, you flew.	
				confined to straight-ins from		he edge of the boundary to	
			1	the south due to boundaries		allow a good approach nto	
			1	surround the pad. After refueling, conducted night	1	the spot-well done. For the night MAT and CALs, you	
			1	landings to the aux pad until c-	1	power pulls reflected a good	
				130 paraops began in the	1	understanding of high / hot /	
			1	area. We transitioned to double eagle airfield a small		heavy conditions. Your communication was a little	
			1	towered amount north east of		faint, which seemed to be	
				KABQ for the night mat and CALs		predicated on the mic not	
				GALS.		overtasking. Ensure you are reading back calls from the	
	10	1			1	back, and this approved as	
				3 1		the night progressed. On one of the 180s into Double Eagle.	
				1 3		we had a quick, unintentional	
				1		descent which you corrected	
						and verbalized-good recognition Keep forcing	
	17 1		11/2			yourself to use the HUD when	
						it works, but it is good you are	
						not reliant on it	
(b)(3), (b)(6), (b)(7)c	EMPALE :	Logged	No	Flight conducted day into night out of KABQ Sky was	Adequate for mission success	You correctly interpreted and recognized the elevation	Good work. ATFs will be identical for day / night mat and ss cal.
				clear with light winds from the		changes, and used an	
		4		North. We departed for the auxiliary pad south of the		appropriate dime margin to compensate for it	
	1	1		airfield for day mat landings		Conversion mode patterns	
	Page 1			After multiple conversion		were solid. For the straight-	
	k "			mode patterns, we were confined to straight-ins from		ins from the south, you flew the edge of the boundary to	
	l II	1		the south due to boundaries		allow a good approach into	
		1		surround the pad. After		the spot-well done. For the	
		1		refueling, conducted night landings to the aux pad until c-		night MAT and CALs, you power pulls reflected a good	
		1		130 paraops began in the		understanding of high / hot /	
		1		area. We transitioned to		heavy conditions Your	
				double eagle airfield, a small towered airport north east of		communication was a little faint, which seemed to be	
				KABQ for the night mat and		predicated on the mic not	
		N .		CALs		overtasking. Ensure you are reading back calls from the	
		8	1			back, and this approved as	
		N .		1		the night progressed. On one	
						of the 180s into Double Eagle we had a quick, unintentional	
				1		descent which you corrected	
						and verbalized-good	
				1		recognition. Keep forcing yourself to use the HUD when	
						it works, but it is good you are	
	3 1 1	8				not reliant on it.	
	DWS(4)-4242						
	DWS(4)-4245						
	DCM(4)-4330 DCM(4)-4340	+	+				
	CBRN(4)-4430		+				
	CBRN(4)-4431						
(1)(0) (1)(6) (1)(7)	CQ(4)-4470					0 115	V
(b)(3), (b)(6), (b)(7)c	(A) = (A)	Logged	No	Departed out of LEMO as a PAX and hot seated into the	Plan was more than adequate for mission success. Discuss items	Juan Carlos, I demonstrated	You were not able to execute the initial approach to the boat due to hot seating to the aircraft. I suggest the next time you go to the boat that you ensure you
	(	8		left seat while at spot 2	were previously briefed in several	the first takeoff from spot 2	are able to do this. Once in the left seat I demonstrated the first landing. You made the standard calls as we approached the flight deck and did all CRM.
		N.		Conducted 7 initial landings at various spots on the Spanish	attempts to complete the X in the past. We still covered the briefing		required items as the pilot not flying. As the flying pilot your takeoffs and side
	100	N .		ship "Juan Carlos" Executed	items and you were very	landings to spot 6 then a	stepping from the flight deck were very strong. Just remember not to excee
				a VFR departure back to LEMO where we conducted	prepared for the flight Remember to review the LH-2	landing to spot 5.1 then took a pattern and then you	75 nacelle prior to 40 knots. Your basic air-work was on point. The hardest p about landing on the boat is the last. 2-1 on final. As the flight progressed yo
		N	1	instruments and pattern work	and other instrument procedures	completed to additional	perception of closure rate and altitude above the flight deck greatly increase
	100	II.		The same party of the same of	before going to a US ship	landings before executing the	When approaching the last 5 feet above the spot, make sure to stick the lan
						departure back to LEMO	with a good rate of descent to avoid the lateral drift. Overall, great flight!
			_		-		
	CQ(4)-4481						
	CQ(4)-4481 CQ(4)-4482 CQ(4)-4483						

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enclosure (6)

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Capt TOMKIEWICZ, MATTHEW J - MV-22B Pilot
Crew Performance between 1/1/2015 - 3/18/2022
Georgiet on 9324/2023 1044 1076-04 90

Generated	i on 03/24/2022 1044 l	UTC-04 00					
(b)(3), (b)(6), (b)(7)c		Logged	No	of darkness. Mission required the timely insert and extract of personnel and vehicles IOT subotage an ally's power plant. This event preceded TLAM strikes on several dams and bridges to	location. Post insert, the flight moved to Holtsville to continue "training" while waiting for the extract call. After extracting, the flight recovered to the strip via MRR, in EMCON, at night, but letted to recover the flight via the LH-2 with CCA finals. All	Flight launched on time inserted as expected and then was called to extract prior to expected smeline. Small mobility assets like diff bikes and MRZRs have an outsized effect on the speed of missions. In this case, the customer swen had enough time to kill a camel to augment MIDRATs. Above on headwork DL stepped out of the scenario during the EMCON retrograde to request ASE demos for each of the crews. Excellent use of the training time allotted to increase the proficiency of the alrorews assigned.	Well prepared to continue in stage
	RVE(4)-4580						
	ADGR(4)-4540	-	-				
	BI(4)-4740	-	-				- the
	AD(4)-4840	+	+				
	AC2(4)-4940	1	1				
	BIP(5)-5030						
	BIP(5)-5031						
	FRSI(5)-5130						
	FRS(5)-5131						
	FRSI(5)-5132						
	FRS(5)-5133						
	FRSI(5)-5134						
	FRSI(5)-5135						
	FRS(5)-5136						
	FRS(5)-5137	-					
	FRSI(5)-5138	-					
	FRSI(5)-5139	1					
	NSFI(5)-5150 NSFI(5)-5151	-	_				
110	NSF(5)-5152	+	_				
	FRSI(5)-5170	1	-				
	FRS(5)-5171	-					
	AARK5)-5330						
	AARI(5)-5340						
	LATI(5)-5630	1					
	LATI(5)-5631						
	LATI(5)-5632						
	RVLI(5)-5730						
	RVLI(5)-5731						
	RVLI(5)-5732						
-	DCM(5)-5830						
-	DCMI(5)-5831	-					
1	DCMI(5)-5832	-					
	NS(5)-5930 NS(5)-5931	+					
	NS(5)-5931	-					
	NS(5)-5933	1					
	NS(5)-5934	-				-	
	NS(5)-5935						
	NTPS(6)-6030						
	NTPS(6)-6031						
	NTPS(6)-6032						
o)(3), (b)(6), (b)(7)c	(A) (A)	Logged	No	EP review complete for real time handling of ECS off overtempt flying IVO R5306 and LZ Guil	EP review complete for real time handling of ECS off overtempt flying IVO R5306 and LZ Gull.	EP review complete for real time handling of ECS off overtempt flying IVO R5306 and LZ Gull.	EP review complete for real time handling of ECS off overtempt flying IV R5306 and LZ Gull
	INST(6)-6060						
	INST(6)-6061						
	CRM(6)-6080	1					
	CRM(6)-6091						

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ENCLOSURE (6)

UNGLASSIFIED/FOR OFFICIAL USE ONLY Capt TOMKIEWICZ, MATTHEW J - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022 Generated on 03/24/2022 1044 UTC-04 00

(b)(3), (b)(6), (b)(7)c	03/24/2022 1044 UT	agged	No	out of Yuma (KNYL) in a theoretical medium threat	PUI had the opportunity to brief this event during his oral TAC board. This brief was a definite	PUI was initially slow to get out of the chocks and was easily distracted during	PUI has not flown in 40 days and I think this showed. He was a bit rusty with basic aircraft tasks: checklists, CRM (assertiveness, communication, and flight leadership). However, his situational awareness was generally high telling me
				scenario PUI was tasked with assisting the MACCS and MWSS in establishing security and communications, as well as providing fuel for a HERS bladder within hostel territory in support of establishing an EABO Mission assets were 1 x V-22, 1 x KC-1303 (TAAR) and 1 x MC-9 (Reconfiscont)  Enemy threat situation included SA-15 and SA-21 RF threats, as well as EW radars will low proficiency (read no IADS). SMARMS and MANPADS were threat considerations as well.  Genesis of the problem for PUI to tackle was RGR coordinatorylplanning, tight fuel and power margins, and red threat mitigation tacks. Specified task was ALS with implied tasks of threater CASEVAC and TRAP		misdagnosed comm fail when his selector switch was on comm 3. PU faced several EPs during the en route portion PRGB CHIP'S imemory) FCC 1/2 FAIL imemory), FCC 1/2 FAIL imemory), and ECS OPF-OVERTEM! These EPs were all handled promptly from memory as required) and thoroughly I was pleased with PUIs decision-making during these violutions.  PUIs shortcomings on this	that he prepared for the tactical event while not accounting for how his low currency might affect his performance. This event was executed without any clear "safety of flight" issues, but a re-emphasis on proper CRM during ontical phases of flight was necessary during the debrief.  PUI passed this event due to his solid knowledge, brief preparation, and situational awareness during a unique scenario. He was admittedly below-expectations on some basic prospective-TAC core skills as PE-PIN-1 do believe that given a more consistent schedule in the aircraft and simulator that this would have been much less of a factor in this scenario. Inecommend at fleast one flight at night, preferably two flights (one day and night prior to evaluation in the aircraft for a night TAC review. This will allow him to dust of to obvetes, improve his PIN-1 flow and refine PIN-1 CRM tasks during critical phases of flight.  Tomkat-This was a novel planning scenario and you handled it well. Don't forget about the filliance in the basics by overthinking the task at hand, Lunding the PIV. In the next-15 seconds matters more than the SAC-1 you'll have to miligate in the next-15 munutes. Walk away from the event knowing that you have room to grow but confident in your underlying abilities and expensions in the aircraft. If fully expect that you will do well on a night. TAC review given the opportunity to get back in a steady training rhythm.
(b)(3), (b)(6), (b)(7)c	TAC(6)-6331 L	ogged	Yes	Weather prevented the bulk of the part task training events that would make the evaluation a better measure of the students capability.	and obtainments malesation the SSMM assisted in preparing a LLL dission LAT/CAL flight with another squadron and had a plan for our own single ship work to melude a troop sit FRAG. Due to weather: the division never bind and SSM conducted a TPG brief for the new plan. The TPG brief was adequate. Hemmber to focuse on the crucial phases of flight and identify frection points. What is different, dangerous, or difficult about this phase of flight and brief to it. Eventually weather continued to degrade, driving a decision to simply conduct an IFR round robin flight.	Sont acted as the aircraft SNM acted as the aircraft commander and PNF for the duration of the flight. Remember to pull information from ATC unity you are confident of what your aircraft is doing in time and space and why	Needs a more thorough Night TAC Review than an IFR flight
b)(3), (b)(6), (b)(7)c	TAC(0)-0131	ogged	Yes	LLL LAT / CALS IVO KNCA Planned to kiss aff IOT complete the TAC Review post section work. Due to Mx delays, the instructor only had	PUI was the Dash 2 12P. PUI was heavily involved in the Flight Planning process and assisted the Section Lead as the prospective TAC. The training plan was sound, however. I do not recommend planning to conduct LAT to a 10T using 240KCAS in the climb / enroute, and 220KCAS on the climb / enroute, and 220KCAS on the route its not physically possible for the aircraft to do that 4T and you are guaranteed to miss L. Hour. Survey you could cut legs, but you may not always have that option. Review your legiting conditions and swetchology again, prior to conducting this event again.	chocks, as Pre-taxt breakdown was largely skipped due to Lead pushing us to the pits. This resulted in not having your A/A TACAN squared away and comms all	

ENCLOSURE (6)

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Capt TOMKIEWICZ, MATTHEW J - MV-22B Pilot
Crew Performance between 1/1/2015 - 3/18/2022

(b)(3), (b)(6), (b)(7)c	on 03/24/2022 1044 i	Logged	No	THIS EVENT COMPLETES THE PREVIOUS AIRCRAFT	PLAN: PER THE MISSION OVERVIEW AND MET INTENT		PULIS READY FOR THE AIRCRAFT STRENGTH CRM (ASSERTIVENESS/DECISION MAKING) - PULWAS ABL
				6131 INCOMPLETE DUE TO MX MISSION - SINGLE SHIP ASR FROM USS SHIP/LHD) TO CAMP BILLY		PLACE TO UPDATE INS ALONS THE WAY (UNFORTUNATELY THE SM UNFORTUNATELY THE SM UNFORTUNATELY THE SM UNFORTUNATELY THIS ACCURATELY AND CAUSED CONFLICTING MAP INFORMATION. PROCEDURES WERE DEPARTURE ENROUTE TO THE SHORE, AIRCRAFT EXPERIENCED A NAC BLOWER FAIL, DUE TO PROXIMITY TO THE SHORE MIRHAMARI AND LACK OF NIGHT SHIP EXPERIENCE PUL OFFED TO PROCEED DIRECT TO THE AIRFIELD FOR A ROLL RESET AO AND DEPARTED FROM KNIXE ENROUTE TO UZ DURING THE ENROUTE PORTION AIRCRAFT HAD NOBERATE INFORMATION ADSIGNATION AIRCRAFT HAD SEFALL KINTH ADS 2 FAIL, WITH AND 32 FAIL, INDITIONALLY CENTER FORCED A CLIMB AND REPORTE PUL WAS DOTRING THE AIRCRAFT HAD SEFALL ADDITIONALLY CENTER FORCED A CLIMB AND REPORTE PUL WAS	TO CLEARLY TASK THE CREW TO EXECUTE DURING A DYNAMIC MISSION. PUTS BECISIONS WERE SOUND AND ALIGNED WITH EXPERIENCE AND COMPORT LEVEL. PUTS PIM WAS ABOVE AVERAGE CONSERVATIVE AND SAFE. PUI ERR DID FITHE SIDE OF CAUTION DUE TO LACK OF EXPERIENCE DURING PARTICULAR SCENARIOS PUIS ABILITY TO ARTICULATE INTENT REASONING, AND PLAN OF ACTION WAS COMMENSURATE WITH LEVEL OF EXPERIENCE WEAKINESS BAW. PUI WAS BASE PUI WAS SAFE HOWEVER LACK CONSISTENCY IN ALPROACH CHECKPOINTS. SOME OF THIS WAS DUI TO CLERS HIM VISUALS WHICH WAS A DISTRACTION. CONFIDENT THIS WAS DUI TO CLERS HIM VISUALS WHICH WAS A DISTRACTION. CONFIDENT THIS WAS DUI TO CLERS HIM VISUALS WHICH WAS A DISTRACTION. CONFIDENT THIS WALL NOT BE AN ISSUE IN THE AIRCRAFT.
(b)(3), (b)(6), (b)(7)c	TANCE NO Log	Logged No	Day IMC flight to Columbia Regional from MCAS New River followed by NATOPS manusers at KCAE and IFR return to KNCA PUI sat right seat and performed all aircraft commander duties without instructor assistance	t via PowerPoint followed by a standard NATOPS brief and risk assessment	ABLE TO MANAGE THE SETILICITION IN ICENSITY TAKENDER WITH TAKENDER WAS EXPORTED TO THE MEDICAL TO THE MEDICAL TO THE MEDICAL TO THE MEDICAL THE MEDICA	Good aircraft control and basic air-work. We knew we would be short on time due to the late takeoff and would not have had the time to execute a planned CLLIN compiler round-robin on the backede. Although we flew over numerous VFR numays between KNOA and KOAE, PUI aleaded to continue to the planned destination. More adaptability/flexibility on the PUTs part could have accomplished all NATOPS maneuvers at a obser unfield and present expectations are unfield and present and the opportunity to run through the restricted areas on the way home. All in all, a good check PUI will be just short of 450 hours after the flight due to the late takeoff. He is ready to be an Arcraft Commander once that threshold is crossed.	
	SL(6)-6230		-			arror. The flight recovered to	
	SL(6)-6231 SL(6)-6232						
	SL(6)-6233 SL(6)-6234	-					
	SL(6)-6240	1	-				
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(b)(3), (b)(6), (b)(7)c	ten (libraria)	Logged	No	Abandoned mining complex IVO KCRW Charleston WV		SNM conducted the landings under day time conditions Excellent training opportunitie due to complex terrain and approach profiles	The state of the s

UNGLASSIFIED#FOR OFFICIAL-USE-GNLY





#### Event Proficiency VMM-261 - MV-22B Pilot

Generated on 05/10/2022 1033 UTC-04:00

Days Until Expired as of 05/10/2022 >= 90 Days 60-89 Days 30-59 Days < 80 Days Expired

"W" indicates Waived, "D" indicates Deferred

		Familiarization (FAM(2))								
	ACAD: MV-22 SINCGARS	ACAD: MV-22 SATCOM	ACAD: MV-22 Tablet Fam	LAB: Radio Demo	LAB: Tablet Fam	SFAM: FAM	SFAM: INST	ACAD: CAL Procedures		
	2010	2011		2020	2021			2210		
Permanent										
Capt TOMKIEWICZ, MATTHEW J.	Wo Refly	No Refly	No Refly	No Platty	No Relly	No Refly	03/11/2023	No Fleily		

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Low							Confined Area Landings (CAL(2))				
LAB: LAT Walk Through	ACAD: Tactics in Night Env	ACAD: Ps E/M	ACAD: LAT III	ACAD: LAT II	ACAD: LAT I	CAL: Section CAL	CAL: Single CAL- Wypt	CAL: Single CAL-	SCAL: Section CAL	SCAL: Single CAL	
2620	2614	2613	2612	2611	2610	2242	2241	2240	2231	2230	

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Ititude Tactics (LAT(2))								Mountain Area Training (MAT(2))			
SLAT: LAT Maneuvers / Rte	SLAT: Section LAT	SNS LAT: NS Section LAT	LAT: LAT Maneuvers / Rte	LAT: Section LAT	NS LAT: HLL Section LAT	NS LAT: LLL Section LAT	ACAD: High Altitude Ops	ACAD: Advanced MV-22 Aero	SMAT: Day MAT Sim	SMAT: NS MAT	
2630	2631	2632	2640	2641	2642	2643	2710	2711	2730	2731	

SMAT: High/Hot/Heavy SIM	Air Logistics Support (ALS(3))		Requirement, Qualification, Designation (RQD(6))				Emergency Procedures (EP(6))	Instrument (INST(6))		
	ACAD: ALSO Intro / Planning	ALS: ALS Msn	NATOPS Open Book	NATOPS Closed Book	NATOPS Oral Exam	NATOPS Eval	6033	IGS	Instrument Exam	Instrument Oral Exam
2732	3010	3040	6010	6011	6012	6030	6033	6040	6041	6042

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02/02/2023	Ma Refig	0.3/11/2023	08/31/2022	08/31/2022	USIZOIZUZU	- UNI STIEVEE	Ornamedee	Maria Income	
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	Crew Resource (CRM		TAC(6)					
INST Eval	CRM Refresher	CRM Eval	Oral TAC Board	TAC Review	Night TAC Review	TAC Check		
6060	6070	6080	6110	6130	6131	6132		
07/31/2022	- 01/31/2023	02/28/2023	No Refly	No Refly	No Refly	No Refly		



# VaviM-261 NATOPS AUDIT SLEET



<b>486</b>						
**.	NAME:	REYMOLOS	DATE:3 Jun 2	AUDITOR:	(b)(3), (b)(6), (b)(7)c	
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#### original orders



# UNITED STATES MARINE CORPS MARINE CORPS INSTALLATIONS EAST-MARINE CORPS BASE PSC BOX 20005 CAMP LEJEUNE, NORTH CAROLINA 28542-0005

IN REPLY REFER TO: 1320 PCA 12 Mar 21

FIRST ENDORSEMENT on CMC Washington DC Basic Orders of 19 February 2021

From: Commanding General, Marine Corps Installations East To: First Lieutenant Ross A. Reynolds 1470694730/7599 USMC

Subj: PERMANENT CHANGE OF ASSIGNMENT ORDERS

- 1. Delivered. Effective 0800, 12 March 2021 you will stand detached from your present station and duties and report by 1500, 12 March 2021 to COMMANDING OFFICER, CMM-261 MAG-26 2D MAW, PSC BOX 21015, JACKSONVILLE, NORTH CAROLINA 28545 (MCC VM2) for duty.
- 2. No entitlements are authorized in connection with these orders.
- 3. Upon arrival at your new duty station you are required to recertify your entitlement to BAH per the JTR Ch 10 para 10100.C.
- 4. These orders are Permanent Change Of Assignment Orders Duty in a flying status involving operational flights (DIFOP).
- 5. Request for retirement/resignation will be in accordance with Marine Corps Order 1900.16.

Digitally signed for authenticity with a trusted DOD Certificate on behalf of:

(b)(6), (b)(7)c

By direction

#### RECEIVING ENDORSEMENT

1. I have read and understand the contents of my orders. I received these orders at Jacksonville, North Carolina at 0800 on 12 March 2021. I understand that I am to report no later than 1500, 12 March 2021, to COMMANDING OFFICER, VMM-261 MAG-26 2D MAW, PSC BOX 21015, JACKSONVILLE, NORTH CAROLINA 28545 VM2 for duty. I have in my possession my medical and dental records.

R. A. REYNOLDS



## MARIGE CORPS BASIC CRDER

NAME: ROSS A REYNOLDS

EDIPI: 1470694730

PMOS: 7532

JC: VM2

PRESENT COMMAND: 2D MAW (STUD PERS) JACKSONVILLE NC

**HQMC ORDER DETAILS - 20210221** 

FMCC:

FUTURE COMMAND:

RIVER NC

TOUR:

VM2

VMM 261 MAG 26 2DMAW NEW

48 MONTHS, CONUS (OPERATIONAL-NO COST

REASSIGNMENT OR PCA)

ESTIMATED DETACH DATE:

REPORT NO LATER THAN:

BILLET:

20210311

20210312

7532, O3, DIFOP

THIS IS AN INVOLUNTARY ASSIGNMENT.

A SECRET SECURITY CLEARANCE IS REQUIRED FOR THIS ASSIGNMENT.

20210221 - Modification

PCA (DIFOP) (TOUR LENGTH 48 MONTHS)

- 1. DIR SNO RPT NLT 12 MAR 2021 TO CO VMM 261-MAG 26 2DMAW NEW RIVER NC (MCC VM2) DUTY IN FLYING STATUS INVOLVING OPERATIONAL FLIGHTS (DIFOP).
- 2. INCLUDE IN ORDERS ISSUED: REQUEST FOR RETIREMENT/RESIGNATION WILL BE IN ACCORDANCE WITH MCO 1900.16.
- 3. NO ENTITLEMENTS ARE AUTHORIZED IN CONNECTION WITH THIS ASSIGNMENT.

TRAVEL FUNDING DETAILS

There is no travel funding associated with these no-cost orders

ORDERS HISTORY

Original Order:

**HQMC ORDER DETAILS - 20210218** 

FMCC:

**FUTURE COMMAND:** 

TOUR:

VM2

VMM 261 MAG 26

48 MONTHS, CONUS

2DMAW NEW RIVER NC

(OPERATIONAL-NO COST

REASSIGNMENT OR PCA)

ESTIMATED DETACH

REPORT NO LATER

BILLET:

DATE:

THAN:

7532, O3, DIFOP



# UNITED STATES MARINE CORPS MARINE AVIATION TRAINING SUPPORT GROUP 22 TRAINING COMMAND 271 FIFTH STREET CORPUS CHRISTI, TEXAS 78419

IN REPLY REFER TO: 1320 S-1 14 Aug 20

FIRST ENDORSEMENT on CMC Washington DC Basic Orders of 28 July 2020

From: Commanding Officer, Marine Aviation Training Support Group 22
To: First Lieutenant Ross A Powelds 1473664733 (577)

To: First Lieutenant Ross A. Reynolds 1470694730/7599 USMC

Subj: PERMANENT CHANGE OF STATION ORDERS

Encl: (1) PERMENANT CHANGE OF STATION (PCS)

1. Delivered. Effective 0800, 17 August 2020 you will stand detached from your present station and duties and report by 2359, 22 August 2020 to COMMANDING OFFICER, VMMT-204, MAG 26, 2D MAW NEW RIVER, JACKSONVILLE, NORTH CAROLINA 28545 (MCC J9V) for duty.

- 2. You are authorized 0 day(s) proceed, 0 day(s) PDMRA, 0 day(s) delay chargeable as annual leave, and 5 day(s) travel via Private Vehicle in reporting to your new duty station. Your projected leave balance upon completion of authorized delay is 68.5 day(s) accrued. Your dependents authorized travel under these orders are: none
- 3. Should an emergency arise and you determine that more leave is required, contact your new command. Your request must include the reason, number of days requested, leave address, telephone number and your leave balance. You have given the person to be notified in case of emergency as: (b)(6), (b)(7)c address as: (b)(6), (b)(7)c

  telephone number: (b)(6), (b)(7)c Any change of leave address shall be reported to the Commanding Officer of your new duty station.
- 4. Before making any rental or lease agreements or purchasing a home, you will report to the local military family housing office at your new duty station. You will submit your travel claim to the disbursing officer at your new duty station within 5 days after completion of travel to settle travel expenses. Failure to comply will result in your pay account being checked for your travel advance. Additionally, elapsed time will be charged as leave if your travel claim has not been submitted to the disbursing officer within 30 days after completion of travel under these orders.
- 5. Your estimated travel entitlement is \$3,143.00 based on MCTFS data at the time the order was issued. It does not include any adjustments based on your outbound interview answers. Limit your GTCC use to no more than 80% of this amount. If traveling on Government procured transportation your reimbursement amount will be lower than this estimate. The actual amount of final entitlements will be computed upon settlement of your travel claim. Also at the time of settlement you are required to split disburse all charges placed on your card during your PCS move. Any GTCC use outside of PCS entitlements constitutes misuse. Contact your APC for any GTCC related questions and your supporting personnel administrative center for any PCS entitlement questions.

Subj: PERMANENT CHANGE OF STATION ORDERS

Your estimated travel entitlements are as follows:

#### Travel Allowance Estimates

Member Military Air Commercial Travel: \$0.00

Member Per Diem: \$755.00

Member Mileage Allowance: \$250.00

Dislocation Allowance: \$2,138.00

Member Total Allowances:

\$3,143.00

- 6. A Temporary Lodging Expense (TLE) allowance is authorized for a total of 10 days (or 5 days, if from a Permanent Duty Station (PDS) in CONUS to a PDS outside CONUS) in connection with permanent change of station. These temporary lodgings must be in fact a temporary place of residence, acquired in the vicinity of your old or new PDS or both. You should try to obtain government quarters first. If available, you must obtain a statement of non-availability from the local commander, if you intend to claim TLE. If your old or new PDS where the TLE was incurred is not located at a post, camp, station, base, or depot or if it is in a city or metropolitan area, the statement of non-availability is not required.
- 7. Upon arrival at your new duty station you are required to recertify your entitlement to BAH within 30 days of joining the command per reference(s).
- 8. You are further advised that in accordance with MCO 1000.6 you may be eligible for 10 days permissive TAD house hunting, upon arrival to your new duty station.
- 9. For emergency medical care while traveling go to the nearest emergency room and contact your Primary Care Manager (PCM) or Tricare Regional Representative within 24 hours in order to notify Tricare that services have been received. For non-emergency, urgent or routine care please contact your present Tricare Region as these items may require a referral from your PCM. It is recommended that all routine care be completed prior to detaching from your current command. A list of Tricare regions, resources and guidance on obtaining care while en route is available at: http://tricare.mil/GettingCare/Traveling.aspx or by calling 1-800-TRICARE (874-2273).
- 10. These orders constitute assignment to VMMT-204, MAG 26, 2D MAW NEW RIVER for duty under instructions (DUINS) in a flying status involving operational or training flights and intermediate flight training for a period in excess of 20 weeks.

(b)(6), (b)(7)c

By direction

Subj: PERMANENT CHANGE OF STATION ORDERS

#### RECEIVING ENDORSEMENT

1. I have read and understand the contents of my orders. I received these orders at Corpus Christi, Texas 78419 on 17 August 2020. I understand that I am to report no later than 2359, 22 August 2020, to COMMANDING OFFICER, VMMT-204, MAG 26, 2D MAW NEW RIVER, JACKSONVILLE, NORTH CAROLINA 28545 (MCC J9V) for duty. I have in my possession my medical and dental records.

R. A. REYNOLDS

MCAS NEW RIVER IPAC

YOU REPORTED TO IPAC INBOUND

AT 0000 707

MEAL CARD ISSUED Y/N
WILL GOV'T QTRS BE ASSIGNED Y/N

CHECKED IN BY

(b)(6), (b)(7)c

MEDICAL RECOMMENDATION (Read Privacy Act State	ON FOR FL ement and Inst	YING OR SPECIAL ( ructions on back before cor	OPERATIONAL mpleting form.)	DUTY
1. TO:	2. FROM:			3. DATE (YYYYMMDD)
CO:VMM-261		URGEON NAVAL HE. ER AVIATION MEDIC		20220203
4. MEMBER NAME (Last, First, Middle Initial)	5. IDENTIFIC	CATION NUMBER	6. GRADE	7. DATE OF BIRTH
REYNOLDS, ROSS		1470694730	CAPT	(YYYYMMDD) 19950303
8. ORGANIZATION	9. TYPE OF	DUTY	10. FLIGHT PHYS	ICAL DATE (YYYYMMDD)
USMC	]	DIACA SG1	(If applicable)	20220203
11. UP: THE ABOVE INDIVIDUAL HAS BEEN FOU	IND QUALIF	IED BY MEDICAL AUT	HORITY.	
a. X one:  X CLEARED AFTER (X): Temporary medical dis  Reporting to new duty  X CLEARED AFTER FLIGHT DUTY MEDICAL EXAMIN	station	Waiver recommer Waiver granted	nded (Not USAF)	Aircraft mishap Other (See remarks)
b. EFFECTIVE DATE (YYYYMMDD)		c. EXPIRATION DATE	(YYYYMMDD)	
20220203			20230331	
12. DOWN: THE ABOVE INDIVIDUAL HAS BEEN F	OUND DISC	QUALIFIED BY MEDICA	AL AUTHORITY.	
a. X one:  TEMPORARY DISQUALIFICATION DUE TO (X):  MAY PARTICIPATE IN (X):  Simulator du  PERMANENT DISQUALIFICATION	Illness o	Ground based fligh		Other (See remarks)  Other (See remarks)
b. EFFECTIVE DATE (YYYYMMDD)		c. ESTIMATED DURAT	TON OF GROUNDI	NG
VISION CORRECTION DEVICES REQUIRED IN THE	E PERFORMA	NCE OF FLIGHT DUTIES.		
14. (X one): X FLIGHT SURGEON OTHER (Co	untornionatura e	equired for Air Force and Navy		
a. TYPED NAME (Last, First, Middle Initial)	b. GRADE	c. PROVIDER SIGNA		d. DATE SIGNED
(b)(3), (b)(6), (b)(7)c	0-3		o)(6), (b)(7)c	(YYYYMMDD) 20220203
e. TYPED NAME (Last, First, Middle Initial)	f. GRADE	g. FLIGHT SURGEON	N COUNTERSIGNA	
REXNOLDS, ROSS A.	0-3	(b)(3), (b)(	6), (b)(7)c	(YYYYMMDD) 20210203
a. I certify that I understand the above recommendations ar  MAY MAY MAY NOT perform flight duties.	ed that I:	b. AIRCREW MEMBER S	IGNATURE	c. DATE SIGNED (YYYYMMDD)
16. ACTION TAKEN BY COMMANDER (Not required for Air Fo	orce and Navy)	APPROVE	DI	SAPPROVE
a. TYPED NAME (Last, First, Middle Initial) b. TITLE		c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)
DD FORM 2992, JAN 2015 REPLACES DA FORM		M 1042, AND NAVMED FORM H ARE OBSOLETE,	IS 6410/1 AND 6410/2,	Adobe Designer 9.0

122

ENCLOSURE

#### NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

<u> </u>	First, Middle Initial) (NoCi)), LoSS A	<del></del>			DoD ID Number 1470694730
DATE	DESIGNATION	MODEL	UNIT	PROMULGATION BY	VERIFIED
1 Aug 20	Naval Aviator	744C	V7.35		
MAR 21	Naval Aviator 12P	MV.22	UMAT 204	(b)(3), (b)(6), (b)(7)c	(b)(3), (b)(6), (b)(7)c
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#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR TRAINING SQUADRON 204
MARINE AIRCRAFT GROUP 26
2D MARINE AIRCRAFT WING, FMF
PSC BOX 21018
JACKSONVILLE, NC 28545-1018

3710 DSSN 01 Mar 21

From: Commanding Officer, Marine Medium Tiltrotor Training Squadron 204

To: First Lieutenant Ross A. Reynolds 1470694730/7532 USMC

Subj: DESIGNATION

Ref: (a) CNAF M-3710.7

(b) NAVMC 3500.11F (c) A1-V22AB-NFM-000

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby designated as a Tiltrotor Second Pilot (T2P).

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR Logbook entry



#### DEPARTMENT OF THE NAVY

TRAINING AIR WING FOUR 245 FIFTH STREET SUITE 105 CORPUS CHRISTI TX 78419-5008

> 1500 Ser N00/0766 07 AUG 2020

From: Commander, Training Air Wing FOUR

To: First Lieutenant Ross A. Reynolds, 7531, USMC

Subj: DESIGNATION AS A NAVAL AVIATOR

Ref: (a) CNATRAINST 1500.4J

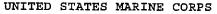
- 1. Pursuant to the provisions of reference (a), and having demonstrated those qualities of sound judgment and professional competence in your completion of the Advanced Multi-Engine Flight Training Syllabus of the Naval Air Training Command, you are designated a Naval Aviator effective 07 August 2020.
- 2. Congratulations on a job well done!

(b)(3), (b)(6), (b)(7)c

Copy to: VT-35 MATSG-22

#### NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

	ON QUALIFICATION RECORD			
NAME (Last, First, I	Middle Initial) , Ross A		DoD ID Number 1470694	73¢
EFFECTIVE DATE	TYPE AIRCRAFT	MISSION QUALIFICATION	UNIT	REMARKS
20 MAY 21	MVZZ B	DAY LATO	VMM 2001	
ISMILE	MUZZB	HLL	Vmm 261	(1)(0) (1)(0) (1)(7)
27 OCTZ1	MUZZB	NSQ	VMMZ61	(b)(3), (b)(6), (b)(7)c
2700721	MVZZB	NSCAT	VMMZ61	
	**************************************			
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<u>l</u>				





MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 3500 DSSN 27 Oct 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: First Lieutenant Ross A. Reynolds 1470694730/7532 USMC

Subj: NIGHT SYSTEMS LOW ALTITUDE TACTICS QUALIFICATION

Ref:

(a) NAVMC 3500.14

(b) NAVMC 3500.11

(c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

- 1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems Low Altitude Tactics qualified.
- 2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to:
Operations/APR
NATOPS
Logbook entry
M-SHARP



UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 3500 DSSN 27 Oct 21

From:

Commanding Officer, Marine Medium Tiltrotor Squadron 261

To:

First Lieutenant Ross A. Reynolds 1470694730/7532 USMC

Subj:

NIGHT SYSTEMS LOW LIGHT LEVEL QUALIFICATION

Ref:

(a) NAVMC 3500.14

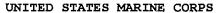
(b) NAVMC 3500.11

(c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

- 1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems Low Light Level qualified.
- 2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to:
Operations/APR
NATOPS
Logbook entry
M-SHARP





MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 3710 DSSN 15 Jun 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261 To: First Lieutenant Ross A. Reynolds 1470694730/7532 USMC

Subj: NIGHT SYSTEMS HIGH LIGHT LEVEL QUALIFICATION

Ref: (a) NAVMC 3500.14 Aviation Training and Readiness Program Manual

(b) NAVMC 3500.11 MV-22B Training and Readiness Manual

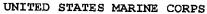
(c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems High Light Level qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to:
Operations/APR
NATOPS
Logbook Entry
MSHARP





MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 3500 DSSN 20 May 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261 To: First Lieutenant Ross A. Reynolds 1470694730/7532 USMC

Subj: DAY LOW ALTITUDE TACTICS QUALIFICATION

Ref: (a) NAVMC 3500.14 Aviation Training and Readiness Program Manual

(b) NAVMC 3500.11 MV-22B Training and Readiness Manual

(c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Day Low Altitude Tactics qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR Logbook entry

#### **CRM TRAINING & EVALUATION RECORD**

1. NAME (Last, first, middle initial):  Remolds	, R.	2. RANK;	3. EDIPI NUMBER: 147.069 4730
- J		ed in the NATOPS Flight Perso	onnel Training/Qualification Jacket (Section II, Part C).
CRM IMM Instructor Course	4. Date:	5. Lo	ocation:

6. T/M AIRCRAFT	7. UNIT	8. DATE
		·
	•	

#### **GROUND TRAINING / FLIGHT EVALUATIONS**

Note: Valid for 12 months from the last day of the month in which training/evaluation was completed.

Note: Renewal flight evaluations may be completed within 60 days preceding the expiration of the current qualification.

	Note. Renewat in	giit evaluations may	be completed within c	o days preceding the t	axpliation of the earrent qu	4111104110111
	9. T/M AIRCRAFT	10. UNIT	11. GROUND / FLIGHT	12. INITIAL/ RENEWAL	13. DATE COMPLETED	14. EXPIRATION DATE
	T-LeB	V728	GIF	- ま	19 Feb 19	29 Feb 20
	T44 C	VT35	$C_{7}$	1	26 mas 20	31 man 21
	MV22B	VMM1-204	6	I	29 SEP 20	30 SEP 21
k	M 122B	204	G-	R	4 JAN 21	31 JAN 22
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\* SEE SURVIVAL TAB FOR ROSTER

#### **EXTENSIONS**

15. T/M AIRCRAFT	16. UNIT	17. GROUND <i>I</i> FLIGHT	18. AUTHORITY	19. EXPIRATION DATE
			,	•

(REV 3/2016)

Enclosure (3)

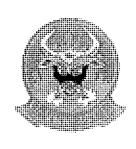


## VMM-261 TRAINING ROSTER

Topic:	CRM	AUDUAL	

Date: 1/4/22

(b)(3), (b)(6), (b)(7)c Instructor: \_



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132

# CRM Initial/Refresher

CRM training was conducted IAW CNAF 1542.7(series)

Rank	Last Name	First Name	M.I.	Service	Category				
				USM C	IA				
				USMC	I/A				
				USMC	I/A				
				USMC	I/A				
	(b)(3),, (b)(6), (b	usma	I/A						
		USAF	J/A						
				USAF	Į/A				
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1 <sup>st</sup> Lt	REYNOLDS	ROSS	<u>+</u>	USMC	I/A				
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D	Pate: 19 Sept 2010 Signate	(b)(3), (l	o)(6), (b)(7)						

**ENCLOSURE** 

### NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

SECTION IIIA - SCHOOL/COURSE ATTENDANCE RECORD NAME (Last, First, Middle Initial) SEYNOLDS, ROSS A DoD ID Number 1470694730 RECORD ALL SPECIALIZED, FORMAL AVIATION SCHOOLS, INCLUDING: UNDERGRADUATE PILOT/INFO FASOTRAGRP SYLLABI MAINTENANCE (3M) COURSES FRS SYLLAB! WEAPONS SYSTEMS FRAMP FIRE FIGHTING SCHOOL/COURSE DATES PASS/FAIL/SCORE ATTENDED UNIT REMARKS VERIFIED BY INTERMEDIATE 31 OCT 19 TAILROTOR 25 Feb 20 44c Systems (b)(3), (b)(6), (b)(7)c20mas 20 6marau-7 BUA 20 1/I.35 OPNAV 3760/32E (Rev 02/2017)

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INTERMEDIAT	E 2																198
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VT-28		T-6B	47	1	76.3		59.7		16.6				11.7			4.2	15.2
VT-28	UT	D-OFT	38		49.4		49.4	<del>-  </del>									27.3
HT-18	• ;	2B42	9	1.0	11.7	1.3	10.4	1.3	1.3					<u> </u>			9.1
HT-18	2	2C67	5		6.5		6.5			<b> </b>				<del></del>			
HT-18	Т	H57B	14	<del></del>	23		17.7		5.3				<del></del>				
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VT-35	7	Γ-44C	35		72.7		59.4		13.3	<del>                                     </del>		12.3	5.4			7.5	13
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PHASE	DATE QU	JAL	A/C MODEL	T&G	LANDINGS ARRESTED		REMARKS
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#### ADVANCE PHASE

		Trawiy Desig	jnateu NA	(CINATRA PROVIDED AD)	/ANCE STAGE AVERAGE PERIO	DDICALLY.)
b. Retain Origina	al In ATJ.					
NAME:		•		Advance Squadron	Designation Date	Assignment
1	stLt Reynolds	, Ross A.		VT-35	07-Aug-20	MCAS New Bires NO
STAGE	Squadron Average	Student's Grades	Flight Waived		ments required on below avera	MCAS New River, NC ge block of training)
CONTACT	N/A	1.140				
NSTRUMENT	N/A	1.074				
NAV(ONAV)	N/A	0.000			·	
NAV(VNAV)						
NAV(SAR)						
NAV(LL)	,					
USMC FORM	N/A	1.051				
CO'S APPRAIS	AL OF FRS P	REPAREDNE	SS			
1stLt Reynolds : OFT flight simul FRS curriculum	successfully c ator. He will t	ompleted the	advanced f	flight training syllabus. The nis next command. This off	syllabus consisted of 35 flights in icer meets all criteria and is prepa	the T-44 aircraft and 34 events in the T red for the successful completion of the
RICNATUDE		(b)(3), (b)(6), (b	)(7)c		DATE 4 NG 202	

#### PINK SHEET SUMMARY (FRONT)

Record all flight violations, accidents, incidents, unsatisfactory events, delinquency reports and administrative actions on this

	SECTION	1 - FLIGHT VIOLATIONS/ACCI	DENTS/INCIDENTS	
DATE	ACTIVITY/SQUADRON	BRIEF DESCRIPTION	CAUSE	
12DEC2018	NASC	API	NONE	
12SEP2019 VT-28		PRIMARY	NONE	
25FEB2020	HT-18	INTERMEDIATE/HELO	NONE	
07AUG2020	VT-35	ADVANCED	NONE	
	SECTION 2 - LINCATIS	SFACTORY EVENTS (include all	PINK and VELLOW sheet	avents)
DATE	TRNG SQUADRON	STAGE/EVENT	MAJOR DIFFICULTY	eventsy
12DEC2018	NASC	API	NONE	
12SEP2019	VT-28	PRIMARY	NONE	
25FEB2020	HT-18	INTERMEDIATE/HELO	NONE	
07AUG2020	VT-35	ADVANCED	NONE	
	SECTION 3 - STU	DENT TRAINING REVIEW BOA	ARDS/PROGRESS CHEC	KS
DATE	TRNG SQUADRON	TRB/IPC/FPC/APC	DISPOSITION	<u> </u>
12DEC2018	NASC	API	NONE	
12SEP2019	VT-28	PRIMARY	NONE	
25FEB2020	HT-18	INTERMEDIATE/HELO	NONE	
07AUG2020	VT-35	ADVANCED	NONE	
REMARKS				
STUDENT'S NAM REYNOLDS,	1E (LAST, FIRST AND MIDDI ROSS A.	E INITIAL)	RANK 1STLT	DOD ID NUMBER

ENCLOSURE

ENCFORNSE ( )

				CNATRAINST 1500.4						
	(I	PINK SHEET SUMN REVERSE SIDE CONTINUATION SHI	· · ·							
Record all fligh	t violations, accidents, inci	dents, unsatisfactory events, delir	nulency reports and admin	istrativo actions on this						
sheet. Informa	ation concerning accidents	incidents REQUIRE SPECIAL HANG	I ING IAW ODNAVINGT 27E	O 6 An option of this						
made from eac	sheet. Information concerning accidents/incidents REQUIRE SPECIAL HANDLING IAW OPNAVINST 3750.6. An entry shall be made from each activity/squadron listing NONE where appropriate-if no adverse events occurred in each section 1, 2, and 3.									
made nom est										
		LIGHT VIOLATIONS/ACCIDENT	「S/INCIDENTS (Continue	d)						
DATE	ACTIVITY/SQUADRON	BRIEF DESCRIPTION	CAUSE							
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S	ECTION 2 - UNSATISFAC	TORY EVENTS (Include all PINK	and YELLOW sheet events	(Continued)						
DATE	TRNG SQUADRON	STAGE/EVENT	MAJOR DIFFICULTY							
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			**							
REMARKS										
VEINIMUZ										
STUDENT'S NAI	ME (LAST, FIRST AND MIDD	LE INITIAL)	RANK	DOD ID NUMBER						
REYNOLDS,	ROSS A.		1STLT							
CNATRA 1542/90	(Rev 10/17)			<u> </u>						
C14W11W T34E/20	(UCA TOLY)		•							

OPNAVINST 3760.32 (Series)

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firamar, CA		5.	Jackson	ville, FL			8.	. Whidbey Is	land, V	VA		
lorfolk, VA Other Information		6. (	Cherry P	oint, NC			9.	. Other (List)	,			

NATOPS FLIGHT PERSON	NEL TRA	INING/OU	AI II	FICATION	JACKE	Г				COMNA	IXI OIX III-	37 10.7
SECTION IIIB - OPERATIONA						•						
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					Т	/PE O	F TRAINING	<del>)</del>				
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LAND SURVIVAL TRAINING	DATE SIGNATUI	GRADE L	TIVI	DATE SIGNATUR		UNIT		(b)(6), (b)		03-Dec-18 SIGNATUR	E -	UNIT 1
T-Leb Level A	DATE DATE	GRADE L	TINIT Y	DATE 22 Tebl	GRADE	UNIT WY	DATE	GRADE	UNIT	(b)(3), (b)(6 DATE	GRADE	UNIT
eren '	SIGNATUE	(b)(6), (b)(7	')c	(b)(3), (b)	C	IC	SIGNATUR	E		SIGNATUR	E .	1
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ITE Lab Training	9424/100 Dale	1	WS		GRADE	UNIT		GRADE	UNIT		GRADE	UNIT
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1. Pensacola, FL	. Pensacola, FL 4. Lemoore, C				17 80 10			7. Patux	cent R	iver, MD		
2. Miramar, CA 5. Jacksonville								8. Whidbey Isalnd, WA				
. Norfolk, VA 6. Cherry Poi				it, NC				9. Other	(List)			
10. Other Information												

OPNAV 3760/32F (REV 02/2017)

# Class: Annual Aeromedical and CRM Ground Refresher Class Date\_\_4 JAN 2021\_\_\_\_\_

Rank	Name (Last)	Full First Name & MI	Shop	Signature
151/2	REYNOLDS	ROSS A	33	Will -
			(b)(3), (b)(6), (b)(7)c	
			(5)(5), (5)(6), (5)(7)6	
		ı	Į.	

Instructor(s) (print)\_

(b)(3), (b)(6), (b)(7)c

\_Sign\_

(b)(3), (b)(6), (b)(7)c

Subj: AEROMEDICAL TRAINING (04 Jan 21)

	Last	FULL FIRST	RANK	PLATFORM	SQUADRON
23	//_	(2) (b)(0) (b)(7)-		V-22	261
24		)(3), (b)(6), (b)(7)c		V-27	76/
25	LEYNOLDS .	ROSS	CAUT	V-22	261
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30	(h	)(3), (b)(6), (b)(7)c		Vrda	261
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33				11-77	261
34				V-22	26/
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/S/ (b)(3), (b)(6), (b)(7)c

2

3710/5100 DSS 04 Jan 21

From: Aeromedical Safety Officer, Marine Aircraft Group 26 To: VMM-261 Department of Safety and Standardization

Subj: AEROMEDICAL TRAINING

Ref:

(a) CNAF M-3710.7

(b) WgO 5100.29

The following personnel completed Annual Aeromedical training as required by reference (a) and (b). Topics include Sensory Problems / Situational Awareness, Radios, Human Factors, Human Performance, and FAILSAFE Program.

	LAST	FULL	FIRST	RANK	PLATFORM	SQUADRON
1						
2						
3			(b)(3), (b)(6), (b)	(7)c		
4						
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6	TOMKIENIEZ	MA	THRW	CAOT	V-22	261
7						
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16						
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21						
22						

/s/

(b)(3), (b)(6), (b)(7)c

### MEMORANDUM

From:

Aeromedical Safety Officer, TW-4

To:

NATOPS Officer

Subj:

CNAF M-3710.7 LEVEL A ANNUAL ADJUNCTIVE TRAINING

1. The personnel listed below have completed the following CNAF M-3710.7 NASTP Level A Annual Adjunctive Training on 13 Mar 2020:

T-44 Emergency Egress Training ALSS Items Sensory Problems/Spatial Disorientation Laser Hazards

Rank	Name	Squadron
		VT-31
		VT-31
		VT-31
		VT-31
		VT-31
		VT-31
		VT-31
		VT-31
	(b)(3), (b)(6), (b)(7)c	VT-31
		VT-35
		VT-35
		VT-35
		VT-35
		VT-35
		VT-35
		VT-35
		VT-35
1STLT	REYNOLDS, ROSS A.	VT-35
	(b)(3), (b)(6), (b)(7)c	VT-35

(b)(3), (b)(6), (b)(7)c



### DEPARTMENT OF THE NAVY

NAVY MEDICINE OPERATIONAL TRAINING CENTER NAVAL SURVIVAL TRAINING INSTITUTE DETACHMENT 55 RADFORD BOULEVARD, SUITE 211 PENSACOLA FL 32508-1091

> 3760 20 Nov 2019

From: Officer in Charge, Naval Survival Training Institute

To: 2ND LIEUTENANT ROSS REYNOLDS

Subj: NASTP TRAINING QUALIFICATION LETTER

Ref: (a) CNAF M-3710.7

1. In accordance with reference (a), 2ND LIEUTENANT ROSS REYNOLDS has received AC INDOC CLASS 3 on 20 Nov 2019 at Aviation Survival Training Center PENSACOLA.

2. 2ND LIEUTENANT ROSS REYNOLDS received a grade of Q. All required modules were completed.

3. This qualification expires on 31 Dec 2022 unless additional conditions listed in reference (a) chapter 8, paragraph 8.4 apply.

4. This qualification applies to the following aircrafts only:

Class 3: AH-1, H-3, H-46, H-53, H-60, H-72, H-92, OH-58C, TH-57, UH-1, V-22

(b)(6), (b)(7)c

By direction 77

(b)(6), (b)(7)c

From: Assistant Aeromedical Safety Officer, TW-5

To: CTW-5 NATOPS Officers

Subj: CNAF M-3710.7 LEVEL A ANNUAL AEROMEDICAL TRAINING

- 1. The listed personnel have completed the following CNAF M-3710.7 Level A Annual Training Requirements on November 05, 2019.
  - a. Sensory Problems/Spatial Disorientation Training
  - b. ALSS
  - c. AN/PRC-90 Radio

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	(b)(3), (b)(6), (b)(7)c	8
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Reynolds, Ross	1 <sup>st</sup> Lt	18
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	(b)(3), (b)(6), (b)(7)c	28
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		28
		28
		28

(b)(3), (b)(6), (b)(7)c

### MEMORANDUM

From:

Aeromedical Safety Officer, TW-4

To:

NATOPS Officer

Subj:

CNAF M-3710.7 LEVEL A ANNUAL ADJUNCTIVE TRAINING

1. The personnel listed below have completed the following CNAF M-3710.7 NASTP Level A Annual Adjunctive Training on 22 Feb 2019:

T-6B Ejection Seat Training
T-6B Emergency Egress Training
Aeromedical Aspects of Ejection
Hypoxia Awareness Training
G-LOC/G-tolerance Improvement Procedures
Sensory Problems/Spatial Disorientation
ALSS Items

Rank	Name	Squadron
		VT-28
	/h\/2\ /h\/6\ /h\/7\a	VT-28
	(b)(3), (b)(6), (b)(7)c	VT-28
		VT-28
2NDLT	REYNOLDS, ROSS A.	VT-28
		VT-28
		VT-28
		VT-27
		1

(b)(3), (b)(6), (b)(7)c

#### DEPARTMENT OF THE NAVY

NAVY MEDICINE OPERATIONAL TRAINING CENTER NAVAL SURVIVAL TRAINING INSTITUTE DETACHMENT 55 RADFORD BOULEVARD, SUITE 211 PENSACOLA FL 32508-1091

> IN REPLY REFER TO 3760 10 Dec 2018

From: Officer in Charge, Naval Survival Training Institute

To: 2ND LIEUTENANT ROSS REYNOLDS

Subj: NASTP TRAINING QUALIFICATION LETTER

Ref: (a) CNAF M-3710.7

1. In accordance with reference (a), 2ND LIEUTENANT ROSS REYNOLDS has received AC INDOC CLASS 1 on 10 Dec 2018 at Aviation Survival Training Center PENSACOLA.

2. 2ND LIEUTENANT ROSS REYNOLDS received a grade of Q. All required modules were completed.

3. This qualification expires on 31 Dec 2022 unless additional conditions listed in reference (a) chapter 8, paragraph 8.4 apply.

4. This qualification applies to the following aircrafts only:

Class 1: AV-8, EA-6, F/A-18, F-16, S-3, T-2, T-38, T-45, T-6

Class 4: C-12, C-130T, C-20, C-21, C-26, C-35, C-37, C-38A, C-40, C-9, E-4, E-6, NU-1B, P-8, T-1A, T-39, T-44, U-6A

For

(b)(6), (b)(7)c By direction

(b)(6), (b)(7)c

# NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

SECTION IIIC - EXAMINATION RECORD

NAME (Last, First, Middle Initial)

DoD ID Number

1470(694)

1470694730

## NATOPS EXAMS

		OPEN	воок	Т			CLOSE	POOK
DATE	!	PASS/FAIL	i	1	DATE	GRADE	PASS/FAIL	
2 Dec 19	3.9%	P	4718	1	17 Denic		P	
18 JAN ZI	4.0	P	UMMT 204	1	ILFEB21	4.0	P	MMT-204
0256877	3.99	P	VMM - ZGI	]	1 FE 877	4.0	<del> </del>	VMM-261
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-	INSTRUM	MENT EXAM		С	OURSE RULE	S	T	OTHE	R EXAMS	
DATE	GRADE	PASS/FAIL	GRADED BY	DATE	GRADE	TITLE	DATE	T	PASS/FAIL	GRADED BY
10 Jun 20		P	V735					<del> </del>		
15 MAIC 15	Q	9	VIMMIZOM							
14 DECZI	G	P	VHM-261					<del> </del>		
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OPNAV 3760/32G (Rev 02/2017)



# VMM-261 PILOTS OPEN BOOK NATOPS

Revised 03 Feb 2021

NAME:	CAPT	Ross	RE	MOLP!
DATE:	44	OZFEBO	322_	
GRADE:	3.99			
GRADED BY:	(b)(3),	(b)(6), (b)(	(7)c	

1. The MV-22 is a multi-mission aircraft within many applications. These applications include the following:
a. Medica lift assault support
b. Tactical Recovery of Amart and Pasconnel (TRAP)
c. Emergercy funciation
d. Fleat gistics support
e. Log stri support ashore
f. Long range logistas support
g. Modical Eucliphian
2. The maximum VTOL gross weight of the V-22 is <u>72 (con</u> lbs sea level; maximum Short Takeoff (STO) gross weight is <u>57 (con</u> lbs; and maximum alternate gross weight is <u>60,500</u> lbs.
3. The nose to tail length of the V-22 is 57 ft 4 in.
4. Each <u>DEV</u> controls operation of <u>Levers</u> MFDs, with the capability of controlling <u>Cll Levers</u> MFDs in the event of a <u>DEV</u> failure.
5. There are five main Aircraft Interface Units (AIUs) on the aircraft: the Avionics Bay Interface Unit (ABIU), two Macelle Todace Units, the Was Todace White, and the Drive Systems Interface Unit (DSIU).
6. The DSIU, located on the midwing forward equipment shelf, monitors and controls the <u>Engage</u> , <u>Lukration</u> , and monitors for oil debris in the <u>MGB</u> , TAGBS, MWGBS, and <u>but engine</u> .
7. The APN-194 radar altimeter provides aircraft altitude above ground level (AGL) from $\frac{\circ}{}$ to approximately $\frac{\cup \varsigma \infty}{}$ ft.
8. Stall warning is provided for nacelle angles between on and 35°.
9. The <u>Sale rele</u> warning is initiated when the vertical velocity exceeds the vertical velocity limit with airspeed less than <u>(60)</u> kts and nacelle angle greater than <u>(60)</u> .
10. If the aircraft was Shit down without a proper system log off, the MCs will attempt to restore the aircraft configuration available prior to loss of power. This is referred to as a warm Shart.

NEED CLOSEN

ENCLOSURE (7)



This is to certify that

# 1st Lt Ross Reynolds

has successfully completed the following training course:

**IGS - Tiltrotor Credit Course** 

Identifier: B7863B9592494A2F984B07F80C74209A

12/14/2021

Marine Corps Aviation Learning Management System Enterprise

Evaluee CFF. JOS REPORTS EDIPI 1470644730	Annahala AAAA	)	
Instructor (b)(3), (b)(6), (b)(7)c  Date of Flight 07-4-6-22			
Total Hours 208.4			
Model Hours 79.8			
Flight Duration 2.0			
Buno	<del></del> -		
Expires 3 MkL 2012			
Open Book Date and Grade 7 FF 622 / 3.99 Closed Book Date and Grade 7 FF 622 / 4.8			
Turn in completed ATF to S-3 Pilot Training	[]		
Correct TMR code entered into MSHARP	[]		
Phase I Ground Evaluation	Q	CQ	U
Open/Closed Book	<u>) 4</u>	[]	[]
Oral Exam	<b>(4</b> )	[]	[]
Phase II Flight Evaluation			
1. Preflight:			
*a. Records check	19	[]	[]
* b. Crew briefing	Ø	ii	ij
*c. Flight Planning			
DTM load procedure d. Preflight check	<i>P</i> 5	[]	[]
Start/engage/post-engagement:	42 XX	[]	[]
a Start/Engage	A.	[]	[]
b. Post-engagement HOTSTAR - FIRE	(P)	Ü	ij
*3. Taxi:	Ι,		
a. Procedures b. Taxi	X	[]	[]
4. Takeoff/transition;	M	[]	[]
* a. procedures	M	[]	[]
b. Type takeoff	<i>y</i> -	• • •	
*(1) Vertical	M 14	[]	[]
*(2) STO (3) Crosswind		[]	[]
₹(4) Maximum Gross	[X <sub>0</sub>	[]	[]
*c. Transition to airplane mode	مَلاِ	ij	ij
5. Climb/cruise	<i>y</i> -		
* a. Procedures	44	ij	[]
*b. Power control  *c. Aircraft control	)(A)		[]
*d. CMS utilization/knowledge	174	[]	[]
(1) CDU/EICAS	t≯P	[]	[]
(2) MFDs	154*	ii	[]
(3) Digital Map	<b>1</b> 24	[]	[]
(4) FLIR (5) Key Pad functions	2	[]	[]
e. Slow flight airplane mode	Z <sup>#</sup>		IJ
f. Steep turns	K	[ ]	[]
g. Stalls	***	[]	[]
*6. Approach and landing:	4	[]	[]
a. Procedures	[ <b>X</b> ]	[]	[]
b. Power control	4		[]
	<i>J</i> '		

e. Aircraft control	۔ (کثر	) II	[]
d. Type of landing /	, r.v.)	/ <sub>13</sub>	
*(1) Vertical *(2) ROL <b>~Swyle exque</b>	12	[]	Ų
*(3) No-Hover	124	[]	1
(4) Crosswind	96	[]	ίÝ
(5) Maximum gross - HEH DA	₩.	[]	l J
(6) Steep	[F] <sup>2</sup>	[]	[] [i
a. Normal	(1	F 3	7.0
b. Nose Low	[]	[]	L
(7) Confined area landing	[]	[]	[ 5
*7. Emergency Procedures (critical area/sub area)	<b>540</b>	[]	ΙĔ
a. Procedures NOS \$3 FAIL ~ GERI UNSAFE	6.20	r ı	7.5
b. Aircraft control - ENG TALL	XP XP	[]	1.5
*8. Cockpit Resource Management	مرازا	[]	LÞ
a. Decision Making	1.70	1.3	
b. Assertiveness	154	[]	[]
c. Mission analysis	127		
d. Communication	F	[]	[]
c. Leadership	'!/T	[]	
	)4 <u>1</u>	[]	[]
f. Adaptability/Flexibility g. Situational Awareness	1 <del>2</del> 2		
9. Shutdown/ post-flight	1/1		[]
a. Shutdown	150	( )	
b. Post flight inspection	\P_2	[]	[]
*10. Debriefing	(2)	[]	[]
Phase III Mission Evaluation Areas	حعرا	[]	[]
Confined area landing (critical area/sub area):     a. Procedures			
(1) Zone evaluation			
b. Approach			
c. Power control			
d. Aircraft control			
2. Navigation			
3. Instrument Procedures			
4. LAT			
5. Special/Other			
Narrative of Flight: CZZZ PTP - ERIDGEFBR7 TO MUC	THE FIEL	TO SE	4°3
DAY PICK+ TOROW, PATTERN WORK, W	111191815	100 H	
SYS FAIL SINGLE ENG, ICING, ADS.	UNSAFE		19 <sup>3</sup>
ARNORMAL START.	UNUSATE		<del>-</del> /
7/3/7	.,,,,,,		
Strengths NAYLOG + LOAD GOMP	· · · · · · · · · · · · · · · · · · ·		
Weaknesses EP PROCEDURE + CRM			
Motor			
Notes			
1997-1994 Committee on the Committee of		<del></del>	
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	NAT	OPS EV	ALUATION	REP	ORT			,
1. NAME (Last, first, middle init	ial)		2. RANK:	3. E	DIPI NUM	BER:	4. DATE OF LAST E	VALUATION:
REYNO	LDS, ROSS, A		CAPT	14	470694	730	01-Mar-2	2021
5. UNIT:	6. CREW POSITION & Q	UALIFICATIO	NS:	7. F	HOURS IN	MODEL:	8. DATE OF CHECK	CFLIGHT:
VMM-261	-	Г2Р			83.1		07-Feb-2	2022
9. TOTAL FLIGHT HOURS:	10. AIRCRAFT MODEL:	11. AIRCE	RAFT BUNO:	12. FL	IGHT DUR	ATION:	13. EXPIRATION D	ATE:
271.7	MV-22B	CF	TD-1		2.0		31-Mar-2	2023
		NATOP	S EVALUATI	ON				
14a.			14b.			14c.	GRADE	
,	REQUIREMENT		DATE	COMPL	ETED	Q	ca	u
OPEN BOOK EXAMINATION	1		02-	Feb-202	22	3.9		
CLOSED BOOK EXAMINATI	ON		02-	Feb-202	2	4.0		
ORAL EXAMINATION				Feb-202		Q		
EVALUATION FLIGHT			07-	Feb-202	22	Q		
OVERALL FINAL GRADE:	QUALIFIED							
14d. REMARKS OF EVALUA	ATOR:							
pickup, MGW takeoff, into LZ. Multiple patte EPs (e.g. single engin multiple display failure Capt Reynolds perforr adherence to flight proenvironment, during the Capt Reynolds is well Strengths: Mission P Weakness: EP Proce Annual Egress was Annual CRM evalual	erns at zone (white or e approach due to ic es). med his NATOPS chocedures. Capt Reyr ne safe execution of the qualified as a T2P in lanning - NAVLOG dures and CRM (Comperformed IAW CNA tion flight conducted	ut RVL). See build up eck in the nolds respethe mission the MV-2 and Loa Communic	TTO at Bridge and comp some some some some some some some some	gepor stall, IF nulato o dyn:	t had ab ⊃S failur •r. He de	norma es, AD monst	l starts, enroute S Fail, unsafe g rated sound judg	multiple ear, and gment and
15a. PRINT NAME OF EVAL	UEE: 1	5b. RANK:	15c. DATE	<u>:</u> :	15d. <b>S</b> IG			
R. A. REYN	NOLDS	CAPT	09-Feb-	2022	REYNOLDS. 694730	ROSS ART	HUR.1470 Digitally signed by REYNOLDS.ROSS.AR Date: 2022.02.09 16:25	THUR 1470694730 29 -05'00"
16a. PRINT NAME OF INSTRU	JCTOR: 11	6b. RANK:	16c DATE	:	16d. <b>S</b> IG	NATURE		
	(b)(3), (b)(6), (b)(7)c		09-Feb-	2022		(b)	)(3), (b)(6), (b)(7)c	
17. REMARKS OF UNIT CO	MMANDER:							
18a. UNIT COMMANDER:	I 1:	8b. RANK:	18c. DATE	Ξ:	18d, SIG	ŅATURĘ	: <i>O</i>	
			10 FGB	05		<u> </u>	-,1/	
CNAF M-3710.7 (Series)(REV	(b)(3), (b)(6), (b)(7)c		10 1013	しと	11	(D)(3	(b), (b)(6), (b)(7)c	Page 1 of 1

	VMM-261 INS		ALUATION FOR	M
	Evaluee EDIPI	147069473	Ö	
	DOB OS MAC Instructor (b)	(3), (b)(6), (b)(7)c		
	te of Flight_ no	31 JAN'U		
·	Total years flyi	ng 3		<del> </del>
	Total flight time	e(all years) U.S.	<i>V</i>	
	Date of last inst	e (MV-22) <u>74.</u> rument Check <u>2</u>	8 FEB 21	
	Approaches			
		Last 6 Months	Last 12 Months	Total All Years
	13	1"' "14	1 1	3.174

	Last 6 Months	Last 12 Months	Total All Years
Precision	13	10	N/A
Non-Precision	2	14	N/A
	L	1	
		1	
Flight Time Actual	0.0	15,4	۲.8٪

Instrument Ground School Date Attended 14 DEC 21 Test Grade PASS	IT IT		
Phase I Ground Evaluation Brief Flight Planning	Q IT IT	CQ [] []	U [] []
Phase II Flight Evaluation			
1. Instrument Take-Off	M		[]
2. Turn Pattern	H	П	[]
Climbs/Descents	ĺΤ		[]
Inusual Attitudes	14	[]	[]
5. Partial Panel	17		[]
6. Instrument Approaches			
a. Tacan	[4]	[]	[]
b. ILS	M	[]	[]
c. PAR	M	[]	[]
d. ASR	11	11	11
7. Communication	H	[]	[]
8. Navigation	ĺĺ	[]	11
9. Emergency Procedures	H	[]	[]

		NATOF	S IN	STR	UME	NT	RATING	G F	REQUEST				
1.	NAME (Last, first, middle REYNOLDS, ROSS.	initial):			2.		NK: APT	3.	EDIPI NUMBER: 1470694730		E OF LAS EB 2021	T EVAI	UATION
J.	UNIT: VMM-261	6. CREW POSITIO T2P	N & QU	IALIFI	CATION	S:		7.	HOURS IN MODEL: 74.8		E OF CHE AN 22	CK FL	IGHT:
	26 AIRCRAFT MODEL: MV-22B	10. AIRCRAFT BUNG CFTD-6	O:		11. 2.0		GHT DURA	TIOI	N:		RATION D EB 2023	ATE:	
	13. MISCE	ELLANEOUS SUMMA	ŔY					•	18. INSTRUMEN	IT PILOT TII	ME		
	ITEM			NST MO.	LAST 12 MO.	T		ΙT	EM	LAST 12 MO.	LAST 6 MO.		OTAL YEARS
Г		T-10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	_	3	20	AC	CTUAL			3.5	0.0	1	L8.3
	PRECIS APPROAC					SII	MULATED			15.0	7.2	ļ	68.0
		••		,	1.1	- IN	STRUMENT	PIL	OT TIME TOTAL	18.5	7.2	7	76.3
	NON-PREC APPROAC			7	14		filitary and Co	тте	·		3	. I	
L									S IS TO CERTIFY T	HAT THE A	PPLICANT	HAS	
]	14. TOTAL PILO	OT TIME	263.4					SA	TISFACTORILY	UNSAT	ISFACTO	RILY	
	. CURRENT RATING: ANDARD	· (V				EXAMINATION	COMPLET	ED	THE WRITTEN EXA EQUIRED BY THE I				
	. ISSUED RATING: ANDARD						20. 1ST EX	(AM	(Grade): 21. 2ND E)	(AM <i>(Grade)</i>	22. 3RD	EXAM(	Grade):
17	. SIGNATURE OF APPLIC	AMT:			**************************************	WRITTEN			IG OFFICER: BSITE, VERIFIED		24. RAN O-3	IK:	
) [	-M > M	)				^	25. UNIT: VMM-261		*		26. DAT 14 DEC		EXAM:
		(Basic Instruments)		Q	U		28. P/ areas wit	ART h em	TWO (Instrument fligh	nt within contro N where feasil	ol ole)	a	U
ŏ	1 INSTRUMENT TAKEC			Х		_	FLIGHT P					Χ	
ALUATION	2 CLIMBING, DESCEND	DING, AND TIMED TU	RNS*	X			1		COMPLIANCE			X	
	3 STEEP TURNS*			Х		3			APPROACHES	ATION FOLL	10) 4ENT	X	
FLIGHT EV	4 RECOVERY FROM U		*	Х		4	!		TIONS AND NAVIGA	ATION EQU	IPMENT	<u> X</u>	
F F	5 VOR/TACAN POSITIO			X			<u> </u>		PROCEDURES	- 1000		X	
13	6 PARTIAL PANEL AIR\	WOUN.		Χ		6 7	VOICE PR	OUL	-DOVES			Х	
	* Not required when evaluation	ation is conducted und	ler actus	l al inetr	liment o		ions						<u> </u>
29	. FLIGHT EXAMINER:	and its outlandered the		RANK		_	. DATE:		I32 SIGNATURE				
		, (b)(6), (b)(7)c	100.	TANK.	<b>`</b> .		EB 2022		(b)(3), (b)(6			_	
SII KN rap flig ev Go Str	. REMARKS: M was a quick round roll was a quick round roll was a QUICK round roll with an and non-spit evolution, minor an alution for all aircrew rood learning points all rengths: IFR planning eas for Improvement:	approach. The flig standard climb gra d major emergend nembers. SNM ha around. Good to p	tht were adients by prod andled progres	nt mis s prov cedur a bla ss.	ssed aj vided a es cou ick coc	opro val pled	ach and l uable lea d with a ra	nad rnin athe	to conduct no-g ng point for all pa er varsity IFR pro	lyro vecto Irticipants Icedure pi	rs to a P . During rovided a	AR. T this ra a good	he apid d
į	LINIT COMMANDED		1	5		00	DATE:		27 CICNATURE	<b></b>			
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MAME Raynolds, Ross A
FILE OR SERIAL NO. 147-6694 730
DESIGNATION: NO. USMC DATE 4 Feb 19
LOG NO FROM

IF FOUND, PLEASE RETURN TO

CHIEF OF NAVAL OPERATIONS
NAVY DEPARTMENT
WASHINGTON, D.C. 20153

OPNAY FORM 3740-31 REV. (4-45)

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### QUALIFICATIONS AND ACHIEVEMENTS

(e. g. instrument card, patrol plane commander, sircraft type, CarQual, etc.)
(To be signed by Commanding Officer or authorized deputy)

	QUALIFICATION	DATE	SIGNA	TURE
	COMPLETE	D M", ITARY	CHECKOUT	
	AS PILO	T IN COMM	AND/T-6B	
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	MUZZO DAYLAT	ISYAMOS	\(\alpha\) \(\alpha\)	vmm-261
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#### QUALIFICATIONS AND ACHIEVEMENTS

(e. g. instrument card, patrol plane commander, sircraft type, CarQual, etc.)
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FC15RUARY 2022 \_ YEAR . F-ADF L -LF range T -TACAN MONTH \_\_ A Automatic G-GCA O-OMNI 5 -Simulated € aCCA I -ILS R -- Radar J —Jet AIRCRAFT PILOT TIME KIND OF FLIGHT CODE WHITE TIME LANDINGS CIÁÌ CHEW TIME  $\omega$ TOTAL PILOT TIME A/C DAY FIRST PILOT CO-SERIAL NUMBER NIGHT CARRIER MODEL PILOT REMARKS SEA/ TIME 100 SIM 2 101 LAND KO. TYPE IHI (A.) 国 2383 2643 日 166719 MVZZB IAT 5.0 2.5 M-5 (b)(3), (b)(6), (b)(7) ğ\$. 168651 IAL 6-1 1 2245 SHO B MVZZPS 116 0,3 レービ b)(B), (b)(6), (b)(7)c 6.7 0.8 1) 2081 2540 (b) 8) (b) (6) (b) 5030 (3) (b) (6) (b) 700 2240 2241 3840 3 A 3 B lA9 MUZZB 166719 0.7 1.5 0.5 16665 0,5 202 Mrub 1.0 10-1 (A) 5.3 9/14, 10.8 5.5 CERTIFIED A CORRECT RECORD: TOTAL THIS PAGE 1.0 4,0 262.9 5.0 1/15 BROUGHT FORWARD Ψ, U.O Pilot 108 10.3 Approved: TOTAL TO DATE 80 TOTAL ACCUM. TOTALS, THIS FISCAL YEAR \*See page 2 for codes. C.O. or authorized deputy **TOTALS, THIS FISCAL YEAR** 

YEAR WULL MONTH \_ ITMYLLY F -ADF L -LF range T -TACAN A Automatic G-GCA O-OMNI 5 -Simulated + CCA R — Radar 1 - 1LSJ −Jet AIRCRAFT PILOT TIME API CIAL CRIM TIME KIND MINISTRUCTION TIME STD INST. APPR, COM-PLETED LANDINGS CATAPULT TOTAL PILOT TIME DAY SERIAL NUMBER FLIGHT A/C COMDR, FIRST MODEL CARRIER NIGHT PILOT PILOT REMARKS SEA/ 31M N 25 25 MO. Veleb85 im mous 0.2 0.2 (b)(b), (b)(6), (b)(7)c (c) (b)(7), (b)(6), (b)(7) 6-1 1.4 162330 JA4 1.4 6-1 2.3 1.1 10 mr 790 168330 109 14)(3), (b)(6), (b)(1) 112 **3.3** TOTAL THIS PAGE CERTIFIED A CORRECT RECORD: 3/24 21.1 6.8 10.3 **BROUGHT FORWARD** 80 9.9 Pilot Approved: TOTAL TO DATE TOTAL ACCUM. \*See page 2 for codes. TOTALS, THIS FISCAL YEAR TOTALS, THIS FISCAL YEAR C.O. or authorized deputy

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7	CFTD-1	_	Ø	141	2.0		1.0	1.0		Designation of the second
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7	MVZZB		0	IAI	2,0		1.0	40		
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C-	-Automatic	G-	-AI -GC -IL	CA	•	<b>)</b> — (	LF rang OMNI Radar	ge	5	–T⊿ –Sir –Jeo	nul	AN ated
INSTRUM	ENT TIME	]	L	L	AND	ING	\$	TE	ST	D IN	ST.	
ACT	SIM	NIGHT TIME	C MW	ARRII	R 102	ra	SEA/ LAND	CATAPUL	APF S	R. C	0M-	REMARKS
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	TOTALS,	THIS FIS	CAL	YEA	 R			┨	C.0	), or	auc	thorized deputy
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\*See page 2 for codes.

TOTAL ACCUM.

TOTALS, THIS FISCAL YEAR

ENCLOSURE

#### UNGLASSIFIED#FOR OFFICIAL-USE ONLY

### Log Book for Capt REYNOLDS, ROSS 1/1/2017 - 3/31/2022

Date		2 1230 UTC-0	1 00				_	Hours					Ι				_		Landings						-		Ap	ip					lR .			
Date	Range T	Otals Device	Туре	TPT	FPT	CPT	ACMDR		SIM	NIGHT	HLL	LLL	6	F	P	5	J	W	R	M	9	L	0	S	E	1	2	A	В	T&R 1	T&R 2	T&R 3	T&R 4	TAR 5	TAR 6	NAVFLIR
Totals	1185	Device	Туро	467.0	295.7	111.3	2.1	18.8	61.1	73.9	37.6	13.0	365	28	86	20	18	5	26	15	132	25	В	13	. 6	4	6	47	66							
4/29/2019	T-68	Baseline	Aircraft	3.6	2.4	12	-	10-00			-	1	U										+										-	1		
5/24/2019	T-6B	Baseline	Aircraft	11.5	8.8	25		0.7					46								2															
6/28/2019	T-68	Baseline	Aircraft	15.4	10.1	3.5							61	- 5																						
7/24/2019	T-6B	Baseline	Aircraft	22.0	17.3	5.2				17			50							100					1											
8/29/2019	T-6B	Baseline	Aircraft	47	9.9	2.1		1.9	6.7	5.8			1						1.00			3						7	1.4							_
9/10/2019	T-6B	Baseline	Aircraft	167	12.7	3.		1.0	8.5	4.2			1	2																					-	
12/30/2019	TH-57B	Baseline	Aircraft	19:0	16.4	a t	-		1				93		1												1	11	-3- 1				-			
1/16/2020	TH-57B	Baseline	Aircraft	6.5	4.8	1.7							- 22																	-			-		-	
2/25/2020	TH-57B	Baseline	Aircraft	81	5.4	3.7		- 1	-	50			Ь	21					1				1								-		-		-	
4/23/2020	T-44C	Baseline	Aircraft	7.8	-0.9	-0.0			(4.5)														- 1					- 1			_					
5/18/2020	T-44C	Baseline	Aircraft	115.5	12.6	5.8	0.4		9.7	2.7	14	13																	-	-	-					-
6/30/2020	T-44C	Baseline	Aircraft	30.4	20	Đ 4		6.8	8.6	27	2.7															-	-	- 2	- 6							
7/29/2020	T-44C	Baseline	Aircraft	21.1	14.9	6,2	1.2	1.3	33										-								- 0	- 6		1030						DP0325U
10/16/2020	MV-22B	FFS2	Simulator								_																			1030			-			PIKHBJU
10/21/2020	MV-22B		Simulator	2	1	1				-		_	-									-	_							1031	-					V4MSAVM
10/22/2020	MV-22B	ICLE FFS3	Simulator	2	1	1		_	-			-			_							_								1032						4DA8JOF
10/27/2020	MV-22B MV-22B	FFS2	Simulator	- 2	10	b.t						-				-		-		-				-						1003						8VHKFWF
10/30/2020	MV-22B	FFS3	Simulator	- 7	16	5/1			-	-		-	-	-	_			-												1034			1			A4Q4WSX
11/2/2020	MV-22B	FFS2	Simulator	4	134	76.1	-	-	+	-		1	_								-				-					1036			- 1		100	LWIVSUY
11/5/2020	MV-22B	FFS2	Simulator	- 2	2	71				1					-															1/136	7					2YC2L58
11/6/2020	MV-22B	FFS3	Simulator	- 2	2	-			1	-					-						100									11/07				-	1	ENIMOG1
11/10/2020	MV-22B	FFS2	Simulator	2	1.0	0.1											-													1038			/			T193FZ4
11/16/2020	MV-22B	FFS3	Simulator	2	2	-			1			1											1 2		-					1039					1	07RZ9Z1
11/17/2020	MV-228	CFTD-1	Simulator	2	2																									1/070						UUGOQ1
11/19/2020	MV-22B	FTD	Simulator	2	2																									1071				-		5YLJKXZ
11/30/2020	MV-22B	FFS2	Simulator	2	2																									1072						<b>DOEDWPA</b>
12/1/2020	MV-22B	168691	Aircraft	15	1	0.6															14.		2							1080						OICC22D
12/2/2020	MV-22B	FFS3	Simulator	2.	2					8															1					1/173						EYRWPYB
12/4/2020	MV-22B	168329	Aircraft	2	1.6	0.5													1		n.									1081						DHPHU1U
12/7/2020	MV-22B	CFTD-6	Simulator	2	- 2																				1: 0					1135						NWBFHAD
12/9/2020	MV-22B	168683	Aircraft	1.5	13	0.2															8									1082					_	90K05H0
12/10/2020	MV-22B	FFS2	Simulator	Z	.2																									1131			-	_		EV2XR04
12/11/2020	MV-22B	168295	Aircraft	1.5	1.2	0.3													1		10									1680			-		$\overline{}$	HF1NSEQ
12/14/2020	MV-22B	CFTD-1	Simulator	2	1	1. Yo.																								1132		-				UZQHYMC I3ZLKSJ
12/15/2020	MV-22B	FFS3	Simulator	2	. 2																-								-	1084	-					MOUSSCE
12/18/2020	MV-22B	168684	Aircraft	1.6	1.1	0.4		-				_									. 5		- 0-							1930				-		CEE765Z
12/21/2020	MV-22B MV-22B	CFTD-6 FFS2	Simulator	-2	- 8						-	-		_		-	_					_	_	-				_	-	1337						PNDCECM
12/22/2020	MV-22B MV-22B	FTD	Simulator	2				-	-	-	-	-				-				_	_	-			-					1391						54M1L1K
12/23/2020	MV-22B MV-22B	168683	Aircraft	1.6	1.2	0.3			7.3	-	-	-		_	-	-		_			A'		115							1096						COMBRU
1/5/2021	MV-22B	168693	Aircraft	1.6	13	0.2			11.3			-		_	-	-					4									1086						Y9,90030
1/6/2021	MV-228	FTD	Simulator	2	1.7	03			1				-																	1233						8HN24YA
1/7/2021	MV-22B	FFS3	Simulator	2	2				-																					1430						IYN5706
1/8/2021	MV-22B	168684	Aircraft	16	1.0	9.2															8									1340						L7YZJ5F
1/11/2021	MV-22B	FTD	Simulator	2	2					2	- 2													1						1630						<b>SWYGEUS</b>
1/12/2021	MV-22B	CFTD-1	Simulator	2	1.7					2	2			1																1631						BNPCMET
1/13/2021	MV-22B	CFTD-1	Simulator	2	17	0.3	1			2	2	1-		F						1										1632						IP6Y5KS
1/14/2021	MV-22B	168029	Aircraft	2	2.7	0.3											2			1	- 8	ing and								1341						SHEE4DY
1/15/2021	MV-22B	FFS1	Simulator	2	2					2	2							1		1.0									-	1630			-	-		1WE45V
1/19/2021	MV-22B	CFTD-6	Simulator	2	¥	1				2	2		01							1		1							-	1634	_			-		LNO3KJM DHRDK 19
1/20/2021	MV-228	168646	Aircraft	2	1.7	0.8														-	11					1				1440	7001		-	-		DHBPK1S
1/21/2021	MV-22B	168691	Aircraft	3.6	18	1.7				3.5	2.6		1		2/0					-										1640	1641					9K8E8E6 PBPGEGO
1/22/2021	MV-22B	168691	Aircraft	2	1.6	0.5			1020	- 2	2				40							-							-	1642			-			W9CTP2Y
1/25/2021	MV-22B	FFS2	Simulator	2	1				10.5	-	-	-			-			_	-		2			-	-	-	-	,	100	1231				1		EKRK030
1/26/2021	MV-22B MV-22B	FFS3	Simulator	2	- 2			-	1.6	-	-	-	_								4							(q)	1	1232						108NDQG
1/27/2021	MV-22B MV-22B	CFTD-1	Simulator	2	-2			-	1.8	2		-				-												1	2	1233						BHYVIWB
1/30/2021	MV-22B	168676	Aircraft	100	1.3	12	-	-	1.8		-	-	-	-		_	79								-			2	2	1240						Y5JKEM3
2/1/2021	MV-22B	168644	Aircraft	2.5		0.6	_	1.14		11.6		-	-				- 7									2	- 3			1241						AT4QOSM
2/4/2021	MV-22B	CFTD-6	Simulator	- 2	1.5	1		- 129	16	2.0											7 - 2				1			2	. 2	1830	1	-		1		2JAA6CH
2/5/2021	MV-22B	ICLE	Simulator	2	1	1		<del>                                     </del>	(18)															100	1			.7	2	6060			117			STOCHOT
2/5/2021	MV-22B	ICLE	Simulator	2	-1	1			1.8	2													1					2	2	1830			1			<b>WUBHOHU</b>
2/10/2021	MV-22B	CFTD-6	Simulator	2	2				0.3																					1537						100ZTAG
2/16/2021	MV-22B	FFS3	Simulator	- 2	1.7	11.2			0.8																					1831	11.75			5-01		gSHRZ0g
2/22/2021	MV-22B	168683	Aircraft	0.5	0.4	0.1		11 - 1											100		1,															EJZUA4P
2/23/2021	MV-22B	FFS1	Simulator	2	2				0.3								1											1		1832	1				_	FD6H9Q4
2/25/2021	MV-22B	168649	Aircraft	7 I.	1	0.6							1			В														1640						NXP2LBV
2/26/2021	MV-22B	168648	Aircraft	11.6	4.7	1,8		-65								1				-	8						1			1.640						BQVMX3E
3/1/2021	MV-22B	168684	Aircraft	1.8.	12	(1/2)							1								7		2							6085	0031	1941	-	-		4N3UXH3
3/3/2021	MV-22B	CFTD-1	Simulator	5	1	1.440			1.5					11.		1 1			1					71				2	2	*830			-	-		G6Q3F8V
3/22/2021	MV-22B	CFTD-1	Simulator		1	1		1	1		1	1	Y								St.	27					1		1	7091	2050	1	1	1	(	FMIHGRS





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3/26/2021	MV-22B	CFTD-6	Simulator	2	1	1		T	0.6												(3)					1 / -			2190	2127	2230	2,01		ENEN
/31/2021	MV-22B	CFTD-1	Simulator	-			-	-	20										10-		1								2271	7271				WOHE
/14/2021	MV-22B	FTD	Simulator	- 4	1	1	-	-	-	-							_		1										2600	2631				CNOK
16/2021	MV-22B	FTD	Simulator	2	4	- 1		-	-	2	- 19	0.0		-			10				-	-		19				1	7330	2331				OTHZ
20/2021	MV-22B	166724	Aircraft	2.5	1.3	12	-	+	+	· A.	1.8	0.					2.51				17	_						1	2140	2240	7241	2247		MOWN
21/2021	MV-22B	CFTD-1	Simulator	74	1.01	1.0	_	-	-	_											В	-							2735	2732				FY3ZN
1/23/2021	MV-22B	FTD	Simulator	2	1	1		+	0.6	1.0				-		-6.	-				-				3				2900	9931				O2W6
4/27/2021	MV-22B	165956	Aircraft	2	- 1		-	-	0.6		-		- 1			- 1	-					.a.						3	2640	2240	2241			LEGTE
5/3/2021	MV-22B	168231	Aircraft	1.5		0.7		-	0.0	-	_		- 51	_		-	-				_	- //			-	_	_	+	2287	2/81	2282	2242	6093	INGY
5/6/2021	MV-228	FTD	Simulator	4	2	2	-	+	-	-	-		- 44		_		_	-	- 4					_			_	+	2850	2831		-		C7J70
/20/2021	MV-228	168351	Aircraft	2.5	13	1.2		-	-		-		1		-				-	_		-		_			_	-	1242	264).				EHA4
5/26/2021	MV-22B	FTD	Simulator		1.3	1.6	-	+	-		- 1		- 1		-			-	-	4.							_	+	3/430	2431				NHY
6/3/2021	MV-22B	FFS3	Simulator	2			-	-	-	2	2					-			-	2	_	-		-			-	-	2751	675				OWEZ
V14/2021	MV-22B	CFTD-6	Simulator	2.	1			-	-	_	2				-		5.	-	_				-	9			_	_	2931	2032				NK2YV
V15/2021	MV-22B			- Y	2			_	-	- 6	- "			1	-	-		-	_	_	_	-							2340	2641	2341			HVQ95
		168019	Aircraft	4.4		2.6	_	-	-	2.2	1.9		- C	- 1	9					_	_	_		-			-	+	niveo	3,857	E.O.			EXPN
6/16/2021	MV-22B MV-22B	166718	Aircraft	1	9.6	0.6	_	-	-03				2							_		-		-		_	-	-	2281	2281				PDZE
6/28/2021	MV-22B	167918		2.8	1.4	1.4	-	-	1	2.8	2.5		-		.11			_		_	_	_	_	_		- 1	-	1	2/331	0.00				AGDE
		168019	Aircraft	:5	2.5	2.5	-	2	25	-		-	- X	-			_			_		-		7		_	-	-	2370	2971				ORIU
7/1/2021	MV-22B	CFTD-1	Simulator	- 2	1.6	175	-	-	-	2		2		_	_		_		-	10				- /		_	-	-	6033	A-28-1	-	_	-	HNIB
7/13/2021	MV-22B	168305	Aircraft	- 1	0.6	6.6		1	0.6	1	_	1			-			-		12			-	_			_	-	2341	2842		-	-	0020
/20/2021	MV-22B	166724	Aircraft	13	0.7	0.6	-	1.		1.3	1.3						-			_		_				_	-	-	2047	-Citres				0HZF
11/2021	MV-22B	166724	Aircraft	0.6	0.3	0.3			3.3				1		770					-			-			_	- 2	-	2381	2391		-		77.53
/12/2021	MV-228	168305	Aircraft	3.3	1.7	1:6		-		19		3.5			13												-	-	6301	599.1	-			EKM
3/18/2021	MV-22B	CFTD-1	Simulator	3	1.	1 1		_	-							-												_	2240	2241	2941	2280	2261	9FQ0
3/24/2021	MV-22B	168351	Aircraft	1 B	-0.9	7.6		1	0.5							8		4								_	1 2	-	2230	2031	2430	0600	2201	383C
3/27/2021	MV-22B	FFS1	Simulator		2			1	1				- 1			-		2	-			-				_	- 4	9	2140	2241	8430		-	J76E
9/14/2021	MV-22B	168305	Aircraft	3.3	5.7	1.6			0.5							-	_	-		-		-						-	2140	62411	-		-	BOL5
9/15/2021	MV-22B	CFTD-6	Simulator	- 2	1	1							6							-		-	_				-	-	227.1	2271				OLVC
0/20/2021	MV-22B	CFTD-6	Simulator	2	- 1	1	_			-								_	.0.	_		-	1				_	+	2383	2043	2382		-	AOSL
0/27/2021	MV-228	168305	Aircraft	-20	= 5	1.6	_	-		2		- 5			2		-	_						-		- 9	-	-	2242	2641	2,302			PS2W
11/9/2021	MV-22B	166724	Aircraft	3.3	1.7	1.6	_	-	-				1				-								-		_	+	2780	2781	2784			ZIRO
1/16/2021	MV-22B	166724	Aircraft	1.8	9.A	0.7	-	-						<i>V</i>								-6						9	2230	2270	2221	2920		
11/22/2021	MV-22B	CFTD-6	Simulator	2	1	1			0.2																			-	4730	2031	3227	GEAU.		B50P SMOR
12/7/2021	MV-22B	CFTD-1	Simulator	3	1	1	_	_	1/2									8			_		-				7.	1		0033				513G
12/9/2021	MV-22B	166724	Aircraft	1.3	0.7	0.6		_	9.7	_															_			3.	2031	U433	-		_	
1/7/2022	MV-228	CFTD-6	Simulator	2	1	1 7 1			1.9				1										1				2	2	2031	-	-			KN/N DSDS
1/26/2022	MV-228	168019	Aircraft	1.2	97.6	0.6	_		12	1 1		0.1		1.1													- 10	-	-00-		2271			SKZ
1/27/2022	MV-22B	CFTD-6	Simulator	- 6	2		_		-0.5			-	1									6						-	2231	2270 6033	6060			76HX
/31/2022	MV-22B	CFTD-6	Simulator	2		. 21		-	1,8				4.	-													7.	2	2631	2643	(0.000)			XNOE
2/1/2022	MV-22B	166719	Aircraft	5	2.6	2.5			-	8.5	0.8	21		1		-				5-					14			-	2383		2271	6030	g080	RM65
/2/2022	MV-22B	FTD	Simulator	2	1	1		-	-				1													_	-	-	1100.00	2270	-	_		2271 LC3U
17/2022	MV-22B	CFTD-1	Simulator	2		1			.03				1				1		5	-						-		-	2690	2730	6833	1030	6080	
/8/2022	MV-22B	168651	Aircraft	3.3	1.7	1.6			0.0				1									- 6					1		2242	2140		-		9907
/9/2022	MV-22B	166719	Aircraft	15	7.6	0.7			07	1.8	1.6				-1									-			- 3	3	7031	2340	6033	-		E48P
/19/2022	MV-22B	166685	Aircraft	11	0.8	3.0							- 1	1															2240	2241	3341	-		9094
/8/2022	MV-22B	166685	Aircraft	0.2	0.3						-		1				1	3 10			-							1	6103		-	-		Z11E
3/9/2022	MV-22B	168330	Aircraft	2.8	1.0	1.4							- 2	1						100								-	2242	3047	-	-	1000	Daxi
3/10/2022	MV-22B	168330	Aircraft	2.9	1,2	11		0.5		7.2	23			11			the second			- 0	-							-	2031	2250	2281	228	2782	BGW
3/17/2022	MV-22B	166718	Aircraft	3.0	0.3	9.2	1											0.00		A														J169

Career	Totals					Hours											Landings								Appro	aches	
	TMS	TPT	FPT	CPT	ACMDR	ACT	SIM	NIGHT	HLL	LLL	6	F	Р	5	J	W	R	M	9	L	0	S	E	1	2	A	В
Totals	All	407.0	295.7	111,3	2.1	18,8	61.1	73,0	37.6	13,0	365	58	80	20	18	5	25	15	132	25	8	13	6	4	6	47	56
	MV-22B	218.4	149.8	68.9		5.6	32.9	53.9	33.6	31.7	41	4	80	20	18	£	26	15	102	2E	8	13	- 6	3	A	- 27	34
	T-44C	74.H	59.4	15.4	27	7.7	19.0	54	4.1	13							-	5.5.37						1	2	- 3	. 6
	T-6B	78,3	E1 2	17.1		4.2	15.2	117			170	3							1							7.	14
	TH-57B	35.5	26.6	9.9		1.0		2.9		- 7	145	21															

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Capt REYNOLDS, ROSS A - MV-22B Pilot
Crew Performance between 1/1/2015 - 3/18/2022
Generated on 03/24/2022 1043 UTC-04:00

Instructor Name	Event	Method	Needs Additional	Overview	Plan/Brief	Execution	Instructor Comments
		Langard	Training No	na in	a n	a n	na -
(b)(3), (b)(6), (b)(7)c	PATRICIPAL PROPERTY.	Logged Logged	No	na n		a r	na.
	FAM(1)-1032						
	FAM(1)-1033						
	FAM(1)-1034						
	FAM(1)-1035						
	FAM(1)-1036						
	FAM(1)-1037 FAM(1)-1038						
)(3), (b)(6), (b)(7)c	EALANT THRO	Logged	No	C			
//(U), (U)(U), (U)(1)U	FAM(1)-1070						
	FAM(1)-1071				Good.	Good.	Good.
b)(3), (b)(6), (b)(7)c	MATE SUIT	Logged	No	Good.	500d.	3000.	
7. 7. 7. 7. 7. 7. 7. 7. 7. T. T. T. T. T. T. T. T. T. T. T. T. T.	FAM(1)-1073 FAM(1)-1074						
	FAM(1)-1075						
	FAM(1)-1076						
	FAM(1)-1077						
	FAM(1)-1078						
	FAM(1)-1080						
	FAM(1)-1081 FAM(1)-1082						
	FAM(1)-1082 FAM(1)-1083						
	FAM(1)-1084						
	FAM(1)-1085						
	FAM(1)-1086					Dans/Complete	Pass/Complete
	RAVEL USE	Logged	No				Pass/Complete
o)(3), (b)(6), (b)(7)c	MAVIOUS	Logged	No	Pass/Complete	Pass/Complete	Pass/Complete	C C
2)(2); (2)(2); (3)(1)	MAVIDAVES	Logged	No	C	0	•	
	INST(1)-1230	Lagged	No	C	C	С	G
)(2) (b)(C) (b)(7)	COLUMN TOWN	Logged Logged	No	C	C	C	C
o)(3), (b)(6), (b)(7)c	INCOME AND	Logged	No	C	С	C	C
	INST(1)-1240	- 33					
	INST(1)-1241						
	INST(1)-1242						c
b)(3), (b)(6), (b)(7)c	CALIBRIAN	Logged	No	C	c .	c	C
b)(3), (b)(0), (b)(1)c	CAL(1)-1332	Logged	No	C			
	CAL(1)-1332						
	CAL(1)-1340						
	CAL(1)-1341						
	CAL(1)-1342				1		
	CAL(1)-1343			Complete IAW T&R.	Complete IAW T&R.	Complete IAW T&R.	Complete IAW T&R.
(b)(6), (b)(7)c, (b)(3)	FOINIELED	Logged	No	Complete IAW T&H.	Complete IAVV Tan.	Complete PAR Tech	
	FORM(1)-1440 FCLP(1)-1530						
	FCLP(1)-1540	_					
	Town Williams	Logged	No	na	na	na	na .
(b)(3), (b)(6), (b)(7)c	resileability	Logged	No	C	C	С	C
	NS(1)-1632	7					
	NS(1)-1633						
	NS(1)-1634	-					
	NS(1)-1640	-					
	NS(1)-1641 NS(1)-1642						
	REV(1)-1830						
7	REV(1)-1831		4				
	REV(1)-1832		6				
	REV(1)-1840						
b)(3), (b)(6), (b)(7)c	REV(1)-1841	Logged	No	Local area Lejene complex and Oak Grove familiarization	SNM prepared by reviewing all applicable SOPs and being able	The flight departed down the blue line into the Camp	Good to progress. Good warm up simulator event.
				simulator.	to talk through the comm sequence of all the local controlling agencies. SNM was well prepared for the brief.	Lejeune range complex and SNM was shown all the local course rules south of the airfield. The flight then proceeded to Oak Grove where we conducted CALs/RVLs and finally some exposure to TAAR.	
(b)(3), (b)(6), (b)(7)c	pubs (real	Logged	No	Local area Lejene complex and Oak Grove familiarization simulator.	SNM prepared by reviewing all applicable SOPs and being able to talk through the comm sequence of all the local controlling agencies. SNM was well prepared for the brief. Additionally, SNM was able to tal through the squadron's SOP for IFR operations in trail.	The flight departed down the blue line into the Camp Lejeune range complex and SNM was shown all the local course rules south of the airfield. The flight then	

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# UNCLASSIFIEU//FOR OFFICIAL USE ONLY Capt REYNOLDS, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022

During execution SNM made all the required section communications during the IFR tail portion. This involved numerous off route deviations and unplanned climbs/descents. Once conducting TACFORM, initially performed the maneuvers while the instruction made the communications. These roles switch part of the way through. CAL training began with a straight in MATA from 7000 to a 50° MSL elevation straight in MATA from 3000 for a 50° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA from 30° MSL elevation straight in MATA fr Generated on 03/24/2022 1043 UTC-04:00 SNM planned a valid section landing plan at LZ Caledoria, taking into consideration the ANTTP recommended landing site dimensions as well as potential RVL parameters. During the brief SNM knaw the material well and that translated into his situational awareness being high through the event. Simulator event was a IFR trail departure to TAVFORM maneuvering in Single Ship and Saction CALs. Weather was 1000 FKN at the departure alfrield with 15-25 kt winds on deck and enroute. CAVU inside the LZ and during the conduct of the TACFORM. Remember to fly all your profiles and maneuvers as if you are a part of a larger flight. Stay stable and on predictable parameters based off the codified procedures. When you have to deviate, do it early and get back on profile (b)(3), (b)(6), (b)(7)c straight in tactical approach. After the initial approach SNN erformed all of the ANTTP approaches as both the lead and D2 aircraft. SNM was we immed and flew stable profiles to the deck During execution SNM made all the required section communications during the IFR trail portion. This involved numerous off route deviations and unipanned climbs/descents. Once conducting TACFORM, initially performed the maneuvers while the instruction made the communications. These roles with part of the way through, CAL training began with a straight in tackled appreach. After the initial approach SNM performed all of the ANTTP approaches as both the lead upper to the communications. Simulator event was a IFR trail departure to TAVFORM maneuvering in Single Ship and Section CALS. Weather was 1000 EKN at the departure airfield with 15-25 kt winds on deck and enroute. CAVU incide the LZ and during the conduct of the TAGFORM. SNM planned a valid section landing plan at LZ Caledonia, taking into consideration the ANTTP recommended landing site dimensions as well as potential RVL parameters. During the brief SNM knew the material well and that translated into his situational awareness being high through the event. Remember to fly all your profiles and maneuvers as if you are a part of a larger flight. Stay stable and on predictable parameters based off the codified procedures. When you have to deviate, do it early and get back on profile Logged (b)(3), (b)(6), (b)(7)c uickly. approaches as both the lead and D2 aircraft. SNM was we trimmed and flew stable rofiles to the deck. Departed KNCA as a section to the ocean. Flight paralleled and training missions.

IP intentionally didn't conduct Cross or Split turns due to low relevance in tactiful turns due to low relevance in tactiful turns due to low relevance in tactiful turns due to low relevance in tactif Section flight east of the R-5306D over the Atlantic Ocean, Winds 320/5 CAVU. Planning products and brief prepared by IP. Flight brief conducted by the IP via PowerPoint. T&R brief conducte (b)(3), (b)(6), (b)(7)cto the Seath I migh passed the beach line in combat spread. Flight conducted a craw, walk, run approach using first Check turns, then TAC turns, and Pumps. Pull did a good job of getting the aircraft quickly to 60 AOB while holding att and airspeed; the definition of a hard trun. Pl discussed the importance of both aircraft maintaining their light contracts, hard level turns on call to maintain predictability. Remember, always cheat, after pumps clean up the trail. TACFORM maneuvers are useful to both navigate the flight to be to help get the flight but also to help get the flight but also to help get the flight but kinto position. PowerPoint. T&R brief conducter prior to flight without issues. Planned to depart KNCA via Hospital Point to Pt K, conduct TACFORM and then split the flig for single ship training. Remember to fly all your profiles and maneuvers as if you are a part of a larger flight. Stay stable and on predictable parameters based off the codflied procedures. When you have to deviate, do it early and get back on profile middle. SNM planned a valid section Simulator event was an IFR (b)(3), (b)(6), (b)(7)c all the required section communications during the IFR trail portion. This involved numerous off route deviations landing plan at LZ Caledonia, taking into consideration the ANTTP recommended landing rail departure to TAVFORM maneuvering in Single Ship and Section CALs. Weather was 1000' BKN at the ANTTP recommended landing site dimensions as well as potential RVL parameters. During the brief SNM knew the material well and that translated into his situational awareness being high through the event. was 1000' BKN at the departure airfield with 15-25 kt winds on deck and enroute. CAVU inside the LZ and during the conduct of the TACFORM. and unplanned climbs/descents. Once conducting TACFORM, initially erformed the maneuvers while the instruction made the communications. These roles switch part of the way through. CAL training began with a straight in MATA from 7000° to a 50° MSL elevation straight in tactical approach. After the initial approach SNM performed all of the ANTIP approaches as both the lead and D2 aircraft. SNM was well trimmed and flew stable profiles to the deck.

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Capt REYNOLDS, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022

Generated on 0 (b)(3), (b)(6), (b)(7)c	Logged	Ng	Simulator event was a IFR trail departure to TAYFORM maneuvering in Single Ship and Section CALs. Weather was 1000 BKN at the departure airfield with 15-25 kt winds on deck and erroute. CAVU inside the LZ and during the conduct of the TACFORM.	SNM planned a valid section landing plan at LZ Catedonia, taking into consideration the ANTTP recommended landing site dimensions as well as potential RVL parameters. During the brief SNM knew the material well and that translated into his situational awareness being high through the event.	During execution SNM made all the required section communications during the IFR tail portion. This involved numerous off route deviations and unplanned climbs/descents. Once conducting TACFORM, initially performed the maneuvers while the instruction made the communications. These roises which part of the way through. CAL training began with a straight in MATA from 7000 to a 50 MSL elevation straight in tactical approach. After the initial approach SNM performed all of the ANTTP approaches as both the lead and D2 aircraft, SNM was well trimmed and flew stable	Remember to fly all your profiles and maneuvers as if you are a part of a fair flight. Stay stable and on predictable parameters based off the codified procedures. When you have to deviate, do it early and get back on profile quickly.
(b)(3), (b)(6), (b)(7)d	A 12 Logged	No	Section flight with TACFORM prior and section CALs following, Winds 320/5 CAVU.	Planning products and brief prepared by IP, Flight brief conducted by the IP via PowerPoint. TAB hirsif conducted prior to flight without insues. Planned to depart KNCA via Hospital Point to Pt K, conduct TACFORM and then conduct single ship CALs to both ITG and Waypoints.	profiles to the deck.  Conducted Cals in LZ Bluebird with LH to South due to shifting winds. Student conducted CONV and APLN mode patterns to a landing point without obscurants.  BAW was above average for this stage. Tendency is to remain high ont final, typically this was 50-70 feet high at both. 5 and 3. Ultimately this marriests itself with a higher descent rate at end game to get tild of vertical energy. Correction is either a much greater TCL reduction after furning final or 200 FPM descent at the 180 turn (IP understands this is counter to the MIOG). With either correction, remember that your left furnish has to be connected to the left wind. As you guil the nacelles aft the thrust vector becomes more workical which means you must exaggerate your TCL reduction.	Unable to conduct high speed 90 APLN mode approaches.
(b)(3), (b)(6), (b)(7)c	Logged	No	Section flight with TACFORM prior and section CALs following. Winds 320/5 CAVU.	Planning products and brief prepared by IP. Flight brief conducted by the IP via PowerPoint. TAR brief conducted prior to flight without issues. Planned to depart NNCA via Hospital Point to PI K, conduct TACFOBM and then conduct single ship CALs to both ITG and Waypoints.	Conducted Cals in LZ Bluebird with LH to South due to shifting winds. Student conducted CONV and APLN mode patterns to a landing point without obscurants. BAW was above average for this stage. Tendency is to remain high or final, typically this was 50-70 feet high at both 5 and 3. Ultimately this manifests itself with a higher descent rate a tend game to off of vertical energy. Correction is either a much greater TCL reduction after turning final or a 200 FPM descent at the 180 turn (IP understands this is counter to the MDG). With either correction, remember that your left thumb has to be connected to the left wist. As you pull the nacelles aft the thust vector becomes more vertical which means you must exaggerate your TCL reduction.	
(b)(3), (b)(6), (b)(7)c	Logged	No	Section flight with TACFORM and single CALs prior. Winds 320% CAVU. Operations conducted in LZ Bluebird.	Planning products and brief, prepared by IP. Flight brief conducted by the IP via PowerPoint. T&R brief conducted prior to flight without issues. Planned to depart KNGA via Hospital Point to Pt K, conduct TACF-ORM and then conduct single ship CALs to both TG and Waypoints. Flight to reconstitute in Bluebird for section CALs.	Passed the lead to the -2 aircraft once on deck in Bluebird. Conducted multiple CONV and APLN mode patterns to waypoints without obscurants. Focus on the cruise principles and flying tight formation. Staying close	behind you, hit the numbers, fly smooth, climb predictably.

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# UNGLASS# IED#F OR OF THE OWALLUST ONLY Capt REYNOLDS, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022

Generated o	n 03/24/2022 1043 U		To.	Inc. a state of the state of th	lour and a second	District Address	AL DAME
(b)(3), (b)(6), (b)(7)¢	D-10 P-1	Logged	No.	Single ship flight within the Ri- 530eD into LZ Bluebird. CAVU conditions with no winds.	developed and loaded a turning APPR mode into the zone as instructed. T&R brief covered all applicable discussion items in detail and PUI demonstrated a	Hover Coupled landing, PUI then flew multiple CONV and APLN mode patterns to the spot using No-Hover. Assisted No-Hover, Assisted No-Hover, Hover Coupled, and the "Down Houser Coupled, and the "Down Houser Coupled, and he "Down Houser Coupled, and he had been down to the head of the ANTTP parameters. PUI has a slight tendency to be fast at the 20' checkpoint but corrects by adding power prior to descending. Carrying the approach faster and higher will actually correct for this tendency since the PUI tends to be eligibily slow at the 50' check point. Assisted No-	Above average performance for this stage, very good BAW, good feel for the simulator's performance. Keep up the good work.
(b)(3), (b)(6), (b)(7)c	- π - π - π - π - π - π - π - π - π - π	Logged	No	Single ship flight within the R- 5306D into LZ Bluebird. CAVU conditions with no winds.	PUI compiled all briefing and mission products which were satisfactory for this stage. PUI developed and loaded a turning APPR mode into the zone as instructed. TaR brief covered all applicable discussion items in detail and PUI demonstrated a strong understanding of planning, procedures, automation systems, and common sense when flying in obscuration. Well prepared for the event.	then flew multiple CONV and APLN mode patterns to the spot using No-Hover. Assisted No-Hover, Hover Coupled, and the "Double Tap" Assisted No-Hover from APPR mode hand off. On the whole, the landings were safe, and -90% were within the ANTTP parameters. PUI has a slight kendency to be fast at the 20' checkpoint but, corrects by adding power prior to descending. Carrying the approach faster and higher will actually correct for this tendency since the PUI tends to be slightly slow at the 50' check point. Assisted No-Hovers were consistently	Above average performance for this stage, very good BAW, good feel for the simulator's performance. Keep up the good work.
(b)(3), (b)(6), (b)(7)d		Logged	No	Flight departed as a section to 13NC with winds 180/10 CAVU. Planned to conduct single ship CALS followed by section CALs once complete.	Planned to enter 13NC as singles with one aircraft working in EMU and the other in BAT. Conduct all variations of RVL profiles in a simulated RVL environment. Flight brief conducted by SL and T&R discussion found no deficiencies. Planning and briefing products created by SL with help from PUI.	Direct APPR mode to a double tap. No issues, you should have confidence using the APPR mode, it works, ask to use it. PUI then conducted a hand flow to Hover Coupled approach to demo how this	

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Capt REYNOLDS, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022 Generated on 03/24/2022 1043 UTC-04:00

(b)(3), (b)(6), (b)(7)c	n 03/24/2022 1043 L	TC-04:00 Logged	No	Flight departed as a section to 13NC with winds 180/10 CAVU. Planned to conduct single ship CALS followed by section CALs once complete.	and the other in BAT. Conduct all variations of RVL profiles in a simulated RVL environment. Flight brief conducted by SL and T&R discussion found no deficiencies. Planning and briefing	Direct APPR mode to a double tap. No issues, you should have confidence using the APPR mode, it works, ask to use it. PUI then conducted a hand flow to Hover Coupled	Overall, this was an above average event. PUI demonstrates both strong trimming habits and a sound scan. Flight only conducted one Assisted No-Hove due to a landing gear malfunction that required a return to home base.
(b)(3), (b)(6), (b)(7)c		Logged	No	Flight departed as a section to 13NC with winds 180/10 CAVU. Planned to conduct single ship CALS followed by section CALs once complete.	Planned to enter 13NC as singles with one aircraft working in EMU and the other in BAT. Conduct all variations of HVL profiles in a simulated RVL environment. Flight brief conducted by SL and T&R discussion found no deficiencies. Planning and briefing products created by SL with help from PUI.	Direct APPR mode to a double tap. No issues, you should have confidence using the APPR mode, it works, ask to use it. PUI then conducted a hand flow to Hover Coupled appreach to demo how this technique could be used to land inside a very tight area with obscurants. Remaining time split between No-Hover and Assisted No-Hover approaches. while these approaches are faster and require less power, they are more perishable. Tendercy was to slow down just a little too much and then shallow out the rate of descent while feeling for the ground. Remember the acceleration cue should be just a little ahead of the destination waypoint marker, and you'll still be on the numbers for the approach. Keep the rate of descent coming as you close with the ground, this is actually safer than trying to grease it on and starting to dance	Overall, this was an above average event, PUI demonstrates both strong trimming habits and a sound scan. Flight only conducted one Assisted No-Hove due to a landing gear maltunction that required a return to home base.
(b)(3), (b)(6), (b)(7)c	, ii	Logged	No	SNM planned a LZ IVO Yuma, AZ. The SIM concisted of single and acction HILL CALs and culminated in a few RIVLs for practice.	SNM planned an LZ diagram which he briefed for the execution of the SIM. The landing plan was good and the diagram was appropriate for the scope of the learning objectives of the elim. The brief was an exposure opportunity which was used to highlight the points necessary to convey to the crew in order to show what is different dangerous or difficult about this flight today. Remember to think through the SLAP considerations. Its not just another data point. It has implications to the execution of your flight.	Particularly his VVI. The profiles for the various CAL patterns were good and provided repeatable sight pictures at .5 nm out from the zone. The featureless terrain of the desert further emphasized the need to back	

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(b)(3), (b)(6), (b)(7)c	2022 1043 UTC-04:00 Logged	No	SNM planned a LZ IVO	SNM planned an LZ diagram	During the sim SNM struggle	This takes practice. Knowing what to look and what is providing valuable dat
<u> </u>			Yuma, AZ, The SIM consisted of single and section HLL CALs and culminated in a few RVLs for practice.	which he briefed for the execution of the SIM. The landing plan was	to keep his scan moving. Particularly his VVI. The profiles for the various CAL patterns were good and provided repeatable sight pictures at .5 nm out from the zone. The featureless terrain of the desert turther emphasized the need to back up the outside scan with an inside scan of your instruments. After 5-6 landings in the lead aircraft, SNM conducted 5-6 landings in the D2 position. Throughout the event the VVI scan was the common trend. His profiles became more stable towards the end of the sim before fatigue set in .	difficult for night operations. Always be able to fall back on your instrument
(b)(3), (b)(6), (b)(7)c	Logged	No	Event was flown in Dash 2 under VFR conditions with marginal weather in the W-122 during day TG. Weather improved over the course of the flight finch the right window. Flight conducted in the W-122, followed by Bladen Lakes, Hotseat, then night operations at Oak Grove	PUI had a solid plan to encompass all training goals. All products were to standard and conducive to mission success. The PUI was well versed on all discuss items and required only minor rudder steers. Overall good knowledge of the material during the T&R Brief and was well prepared for execution.	The flight departed KNCA and went straight to the W-122. Your STARS during day TG were rough starting out, but with practice you were able to smooth out your commands.	
(b)(3), (b)(6), (b)(7)c	Logged	No	Event was flown in Dash 2 under VFR conditions with marginal weather in the W-122 during day TG. Weather improved over the course of the flight into the night window. Flight conducted in the W-122, followed by Bladen Lakes, Hotseat, then night operations at Oak Grove. Both the single and Section HLL CALS were flown at Oak Grove.	PUI had a solid plan to encompass all training goals. All products were to standard and conductive to mission success. The PUI was well versed on all discuss items and required only minor rudder steers. Overall good knowledge of the material during the T&R Brief and was well prepared for execution	More specifically, keeping your scan moving IOT pick up on longitudinal and lateral drift cues in the hover. We utilized several ITG tools to include an IR chem stick as well as the IR stroke. You were able to land to the waypoint as well and to the waypoint as well and to the waypoint as well and got consistently better with practice. Each of your practice landings were low, some fast, some slow. This is just indicative of something different dropping out of your scan during each pattern attempt. Eventually, you were able to identify your errors and tied it all together for a few good patterns. The importance of the scan will become much more	
(b)(3), (b)(6), (b)(7)c	Logged	No		SNM was well prepared for the brief and was able to accurately describe the mechanics of the goggles as well as the impacts LLL has vice H.LL. His knowledge was on par with that expected of a student at this stage, Keep it up.	ahead of the plane in his situational awareness as well as his trim control, His	

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# UNCLASSIFIED//FOR OFFICIAL JISSONLY Capt REYNOLDS, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022

During execution SNM was far Great event for 1sLt Reynolds. ahead of the plane in his eituational awareness as well as his trim control. His daviations were due to a slow scan which, when identified, were rapidly corrected. Safe landings were conducted on most landings with only 1 waveoff call needed due to a poor approach profile. His ability to fig the LLL RVLs wes undiminished when we transitioned to the section event. Remember to set yousself up on a long final and trim in to be hands off. The rest is a wideo game. ated on 03/24/2022 1043 UTC-04:00 SNM was well prepared for the brief and was able to accurately describe the mechanics of the SIM was conducted in (b)(3), (b)(6), (b)(7)c Logged conjunction with the section LLL CAL sim. SNM alongsid other student prepared a diagram and pulled an oggles as well as the impacts LL has vice HLL. His knowled LZ diagram and pulled an EOTDA for the LZ, LZ was NSLLL(2)-2380 Yes ncomplete due to aircraft complete due to aircraft malfunction Incomplete due to aircraft malfunction.

Flight originated at KCRW and all of the training was executed in the nearby Nicholas County Training Area. All of the flight time dedicated to LLL CAL training. The first half of the light focused on landings to (b)(3), (b)(6), (b)(7)cmalfunction.
Flight commenced from
KCRW after a hotseat and
refueling evolution. We
executed a VFR departure nalfunction. imple plan and basic products rou performed well, given that you had a much darker environment and had nore terrain to contend with than your peers on their initial LLL flight IVO KNCA. That being said, you need to ensure that you begin working on getting your heas ustaled to help you determine your closure rates. You were very vertical and nade significant nose adjustments late in your approach, which was a result of our being off profile earlier in the approach. Once you incorporated a more eliberate a state area, was anopen profiles was more than and you make the properties of the properties of the properties of the properties of the properties. were adequate for mission success. The PUI had a strong grasp of LLL considerations are an understanding of all CAL direct to the training area. Th lack of cultural lighting in the area forced a sensor ocedures. deliberate outside scan, your approach profiles were smoother and you made less large control inputs at endgame. Remember to make all of your big flight focused on landings to integration discussion as the corrections early in the approach, so that everything from 0.3 inbound is predictable and repeatable. Lastly, use everything you have to your advantage to include the environment. If your NVGs aren't working well, incorporate the visual point, with chem sticks utilized as ITG. The second PUI quickly noticed the lack of detail in his NVG image. The half of the flight was dedicated to INAV waypoint IP executed the first landing, and the crew chiefs marked to include the amountment. In your vices a later wanning was, incorporate are FUIII into your scan. If there's significant terrain around, ensuring your HAT's is activated can help you find a clean approach corridor. If there are trees around, use them and the optical flow they provide to help you determine how fast you!! moving over the ground. Keep these things in mind as you move through the rest of the LLL syllabus. Good work. landings to a different LZ. Flown in conjunction with the zone with red chemstick to provide some additional ual cues to the PUI. Multiple CAL patterns were Multiple CAL patterns were flown, to include tactical straight-ins, 90s, and 180s. The rolling terrain in the area made it difficult to judge pattern altitudes. Overall tendency was to be slow and high, with some loss of nose control at the bottom of the approach (heading and nose approach (heading and nose up/high). We then moved to a different zone, identified an ideal landing point, and again executed multiple landings while varying the approach types. Tendencies remained Index ame, with the DILI incomplete due to aircraft malfunction. Flight commenced from KCRW after a hotseat and refueling evolution. We executed a VFR departure direct to the training area. The lack of cultural lighting in the area forced a sensor integration discussion as the PUI quickly noticed the lack of detail in his NVG image. The Pexecuted the first landing, and the crew white a marked the zone with red chemsticks to provide a onne additional visual cues to the PUI. Multiple CAL patterns were flown, to include tactical straight-line, 90s, and 180s. The rolling terrain in the area. ncomplete due to aircraft Incomplete due to aircraft malfunction. Flight originated at KCRW and all of the training was executed in the hearby Nicholas County Training Area. All of the flight time was dedicated to LLL CAL training. The flight flo complete due to aircraft complete due to aircraft complete due to aircraft malfunction NSLLL(2)-2381 Logged incomplete due to aircran malfunction. Simple plan and basic products were adequate for mission success. The PUI had a strong grasp of LLL considerations and an understanding of all CAL procedures. (b)(3), (b)(6), (b)(7)cVou performed well, given that you had a much darker environment and had more terrain to contend with than your peers on their initial LLL flight IVO KNCA. That being said, you need to ensure that you begin working on gatting your head outside to help you determine your closure rates. You were very vertical and made significant nose adjustments late in your approach, which was a result of you being off profile earlier in the approach. One you incorporated a more deliberate outside scan, your approach profiles were smoother and you made less large control injust at endagme. Remember to make all of your big corrections early in the approach, so that everything from 0.3 inbound is predictable and repeatable. Lastly, use everything you have to your advantage, to include the environment. If your NVGs aren't working well, incorporate the PLIR into your scan. If there's significant terrain around, ensuring your HAT is activated can help you find a clean approach corridor. If there are trees around, use them and the optical flow they provide to help you determine how fast you're moving over the ground. Keep these things in mind as you move through the rest of the LLL syllabus. Good work. The rolling terrain in the area made it difficult to judge pattern altitudes. Overall pattern allitudes. Overall tendency was to be slow and high, with some loss of nose control at the bottom of the approach (heading and nose up/high). We then moved to different zone, identified an ideal landing point, and again executed multiple landings while varying the approach types. Tendencies remained the seam. with this DEII.

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## UNCLASSIFIED//FOR OFFICIAL USE ONLY Capt REYNOLDS, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022

Generated on	03/24/2022 1043 U						
(b)(3), (b)(6), (b)(7)¢		Logged	No	Flight of 2 MV-22s from KNDA executing VR-084 with CALs at LZ Bat. Due to 2 copilots in 2 aircraft and multiple initial X's for this PUI, entire VR route was exceeded wide with a hotseat back at KNDA in between CALs conducted after both iterations with L-HR management discussed on both the TAC-PORM/NAV and LAT initial X's.  Wx was LLL (no moon), CAVU, winds out of the north at 5-15 knots on the LAT route. Dry air presented a definable horizon, even when feet wet.  Note that portions of this gradesheet will appear on the following codes due to their simultaneous completion: 2392X, 2383X, 2643X.	names/locations versus briefing aids to ensure accurate depiction; airspace consideration when conducting LAT/NAV		This was a good initial X for the Lt Reynolds. There are definite areas of improvement to build upon to reubsequent flights, and the fact that he had not even flown in the previous 30 days resulted in us "knocking off some rust" as we went through the flight. Combined with an initial X and PUTs second or third finit (ever) flying in LLL conditions, I'd say this was a slightly above average showing PUI displayed during this event that he was ready for section CALs and LLL LAT, which were executed later on this hop.
(b)(3), (b)(6), (b)(7)¢		Logged	No	Flight of 2 MV-22s from KNCA executing VR-084 with CALs at LZ Bat. Due to 2 copilots in -2 aircraft and multiple initial X's for this PUI, entire VR route was executed twice with a hottoset back at KNCA in between CALs conducted after both iterations with L-HR management discussed on both the TACFORM/NAV and LAT initial X's.  Wx was LLL (no moon), CAVU, winds out of the north at 5-15 knots on the LAT route. Dry air presented a definable horizon, even when feat wet.  Note that portions of this gradesheet will appear on the following codes due to their simultaneous completion: 2382X, 2383X, 2843X.	conducted on all three initial Xe. PUI's knowledge was a little bit rusty but met the standard required of his position in syllabus	BILLife a model link.  CALs were conducted in LZ  Bat with an initial landing via a section turning approach mode to land heading 010.  On deck lead change was initially conducted in order to get repe from the 2-position.  Overall, 2 approaches from lead and 7 approaches from lead and 7 approaches from position were executed, the majority of which were constraints. One tacket at the end of the event.  PUI did a nice job given this was his second LLL CAL event (even) and first in ~50 days. In downwind, PUI tended to get sucked due to insufficient lead angle furn to downwind, but was able to correct his position with a tiller forward nacelle. Recommend for subsequent patterns that the instructor demo and emphasize the importance of maintaining a good lead angle on TAC lead in order to close distance between light before deuseried. The wills be more consumer.	This was a strong event, overall above average given the PUIs proficiency and currency in the environment. With the caveat that PUI needs more exposure in LLL conditions to prevent currency lapses of 50-60 days in these conditions, PUI is well qualified to be designated NSQ.  Congratel
(b)(3), (b)(6), (b)(7)c	A412	Logged	No	SM event was conducted in conjunction with the night TAAR simulator.	SNM was well prepared for the brief and discussion items. Stay in the books, there is a lot of information in the SRD / ATP that is pertinent and helpful (eg. fuel capacity/burn rates for various platforms, specific aircraft limitations for both us and the refueling asset).	courseived. This will be more. SNM struggled with frim and maintaining a stable position behind the basket in an aster position. He seemed to do beter with a longer run in profile which speaks to the lack of time immediately behind the basket. Remember that if you have a timmed astern position (10- 15' behind the basket is way closer than you think) then you will have a much easier time making that last power ingut for the contact. When you aren't the plot at the controls, the CRM cadence of calling out the baseline mast torque and whether you are talling behind or shead of that is huge. Keep that in your scan and TRIMI!	Tanking in the simulator is notoriously difficult. When you do this in the plane you will find it to be much easier. Keep it up and keep practicing when you have the chance in the sim.

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(b)(3), (b)(6), (b)(7)c	03/24/2022 1043 U	Logged	No		SNM was well prepared for the	SNM struggled with trim and	Tanking in the simulator is notoriously difficult. When you do this in the plane y
(b)(3), (b)(6), (b)(7)¢				conjunction with the day	brief and discussion items. Stay in the books, there is a lot of information in the SRD / ATP that is pertinent and helpful (eg. fuel capacity/burn rates for various platforms, specific aircraft	maintaining a stable position behind the basket in an astern	will find it to be much easier. Keep it up and keep practicing when you have the
	AAR(2)-2440						
	AAR(2)-2441	Logged	No	Event was flown in Dash 2	PUI had a solid plan to	The flight departed KNCA and	Stay in the books and continue in syllabus.
(b)(3), (b)(6), (b)(7)c				under VFR conditions with marginal weather in the W- 122 during day TG. Weather improved over the course of the flight into the night window. Flight conducted in the W-122, followed by Bladen Lakes: Hotseat, then night operations at Oak Grove	encompass all training goals. All products were to standard and conducive to mission success. The PUI was well versed on all discuss items and required only minor rudder steers. Overall good knowledge of the material during the T&R Brief and was well prepared for execution.	went straight to the W-122. Your STARS during day TG were rough starting out, but with practice you were able to smooth out your commands. Remember, the next time you do those could be in combat, so chair these when you can, so that you can efficiently! effectively vallet your crew chief nor to the threat for quick attition. Good job remaining relaxed during marginal weather. Remember, its not always sunshine and rainbowd during training. Remain calim and collected, continue to the the aircraft, and proceed safely. Good job being assertive when uncomfortable. Continue to practice. Night TG was cancelled due to aircraft MX.	
	TG(2)-2543						
(b)(3), (b)(6), (b)(7)c	(1) (2)-2-3-3	Logged	No	SS LAT on the VR-1266 during Day VFR conditions. Winds 180/10. Scenario and guidance provided by the PTO. Once complete, join a section to conduct section LAT.	Flight planned by PUI based on inputs from PTO for an unfamiliar area. PUI produced all landing diagrams, and mission load products. Flight brief conducted by PTO, a LATI. T&R brief covered all applicable discussion items with no major deficiencies noted.	as a single and proceeded to VR-1266 without incident, PU conducted a tactical descent from 4500 to the surface and began LAT maneuvering. After discussing speed rush haseline, optical flow, and TCTs the crew moved to vertical maneuvers. Bunts an rolls were conducted over terrain along the route. All obliques variations were conducted after demos from the "P. Tendency was for the student to exaggerate or float the vertical component and overbank on the sides back to the deck. Remember this is a fluid motion whose intention to get away from defensive flares and then return as quickly as possible to the safety of the flow altitude environment. None of the maneuvers were unsafe and the PUI has a strong academic understanding of the procedures.	
(b)(3), (b)(6), (b)(7)c	Altr	Logged	No.	Section LAT on the VR-1266 during Day VFR conditions. Winds 180/10. Scenario and guidance provided by the PTO.	Flight planned by PUI based on inputs from PTO for an unfamilia area. PUI produced all landing diagrams, and mission load products. Flight brief conducted by PTO, a LATI. TaR brief covered all applicable discussion terms with no major deficiencies noted. Planning products incortrectly annotated times and FPM based on an APPR mode landing, this led to the missing of L-Hour.	r as a section and proceeded to VR-1266 without incident. PUI conducted a tactical descent from 4500 to the surface and began LAT in maneuvering. All obliques variations were conducted in combat spread. IP emphasized the planning, an execution of formation	ed L

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Capt REYNOLDS, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022

(b)(3), (b)(6), (b)(7)c	103/24/2022 1043 U	TC-04:00 Logged	No	Event executed on a LAT route in Michigan that is being concurrently planned for an upcoming ETF. Conditions in sim were set to CAVU, winds 6908 10, HLL conditions (new moon, 90° elev, +.15 brightness).  Section departed KMNM for entry in to LAT route which terminated at KAPN. Event covered lighting conditions and FENCE checks en route, followed by TACFORM and all vertical maneuvers (executed two times at a minimum). Sys TOT discussion held throughout with conversion mode LAT for 20NM on the LAT route.	who was the -2 PF for this event. Birlet and smartpack products were produced smartly, Issues with the brick prevented draw files from being displayed on DIGMAP, but this will be corrected for subsequent flights on this route.	conducted a demo of L2-L6 en route, lead change, repeat, Once complete with light show, crew soxuled FENCE checks — make sure you have a copy of the TPG fence checks readily available! (MAGTAB, kneeboard, etc.). Entry conducted in to LAT environment using 50% rule from 4.500° MSL to 600° MSL to display potential to overspeed aircraft utilized max performance dive. Once level. TOT discussion ensued to display once utilize TACE/CPIM to manage timing. PUI executed PF dutiles during LAT to practice	Good event for PUI. Knowledge was solid, preparation evident. Some small akills to clean up with additional reps. Heady for progression in the aircraft,
(b)(3), (b)(6), (b)(7)c		Logged	No	Flight originally planned as a section but was reduced to a single due to mx issues. Weather was VFR with winds variable.	The PUI was heavily involved in the flight planning process and assisted both the Section Land Deah 2 TAC with all planning and products. Student had an excellent working knowledge of all TAR discuss items and was well prepared for the flight.	maneuvering en route. TACFORM and vertical maneuvers executed within standard. Tendencies noteci- slight overbanks while maneuvering, small deviations from assigned heading in spread, and VVI deviations during max performance/hard line day SS LAT into. Caledonia went without any major issues. You were smooth and controlled on all pilot inputs, to include all LAT maneuvers. You did a good job keeping us on timeline as well, and properly oriented on the LAT route. TOT was shot into LZ Caledonia and we executed numerous SS CALS. for training. All landings were within the ANTTP standard and each improved throughout.	Solid work today, proceed in syllabus.
(b)(3), (b)(6), (b)(7)c		Logged	No	Flight was 2x V-22 'Elvis 11' departing KNCA for entry on VR-042 from D to i. PUI was  PF for -2 alicraft on a 2.5  hour sortie. Wx CAVU, winds  adm. BASH extreme  (moderate per AHAS).	PUI participated in mission planning and conducted T&R discuss for initial code prior to execution. Mission planning (a) joint effort amongst the copilots, was well done, mission products were useful and timely, and the plan worked well. PUI was prepared for discuss items. Knowledge was average.	PUI acted as PF for duration of the event. Section conducted VFR trail procedures for 0.40 en route to VR-042. In the LAT environment, multiple TACFORM and vertical maneuvers were conducted. Vertical maneuvers were conducted. Vertical maneuvers were generally good. TACFORM maneuvers suffered from a slow soan, which resulted in insufficient AOB during the turns and excess TCL upon roll out. Resulting tendency was to end up closer to TAC lead than anticipated (crose instance saw IP take controls due to A/A of 4. DME) and subsequent acceleration due to failure to reset TCL following roll-out.  As LAT progressed, PUI's scan improved, as well as CRM w brevity codes and ca outs. TCTs were executed well. As-2, IP and PUI had a constant discussion regarding L-HR, planning/management techniques, and decision-	
(b)(3), (b)(6), (b)(7)c	October 1	Logged	No	Section flight under HLL conditions along the VR-084 to LZ Bat. Winds 230/5 GAVU.	Flight planning and briefing products produced by the PUI were adequate for mission success, its easier to start the planning in Z times and then you don't have to remember to convert from L to Z when you run the NAVLOGs. Flight brief conducted by the NSI, T&R Brief showed no issues.	makina to sunned bittion cus. Flight departed on time and entered the VR-084 at CP B. Flight conducted vertical maneuvers and TACFORM to orient and train in the NS LAT environment. PUI BAW was above average and NSI demo'd the roles of the PF	h

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Capt REYNOLD/S, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022 Generated on 03/24/2022 1043 UTC-04:00

(b)(3), (b)(6), (b)(7)g	All	Logged	No	Flight of 2 MW-22s from KNCA ascending VR-084 with CALs at LZ Bat. Due to 2 coplets in -2 aircraft and multiple initial X is for this PLJ, after VRT rouse was exceeded twice with a hotseat back at KNCA in between CALs conducted after both iterations with L-141 management discussed on both the TACF-ORM/NAV and LAT initial Xs.  Wx was LLL (no moon), CAVU, winds out of the rorth at 5-15 knots on the LAT route. Dry air presented a definable horizon, even when feet wel.  Note that portions of this gradesheet will appear on the following codes due to their simultaneous completions.	PUI participated in all aspects of mission planning. A couple big learning points during mission planning: planning is turning approach mode on JMPS, validation of all waypoint names/locations versus briefing adds to ensure accurate depiction; airspace consideration when conducting LAT/NAV.  A thorough T&R brief was conducted on all three initial X's. PUI's knowledge was a little bit rusty but met the standard required of his position in syllabus.	iteration of VR-084, with 80 NM of the 100MN route executed in combat spread. This iteration of LAT was a direct build on 1.25 hours prior, when the route was executed above the LAT environment. PUI's tip in to the LAT environment was noteworthy; it is the closest I've ever seen a PUI get to actually achieving a 20° FPV down. Nice job not overspeeding the aircraft and recovering uneventfully to establish aircraft at 500° AGL. TACFORM was executed interspersed with vertical maneuvers. Vertical maneuvers were strong and no instruction was required. However, the TACFORM maneuvers were strongging, likely due to the onset of fatigue in the PUI who had been fliying for 2 hours in the LLL environment at this political previous and political previous and previous properties.	All things considered, this initial X was average. PUI displayed a lot of common copilot tendencies that will improve with subsequent exposure to this environment and (hopefully) fewer lapses in currency. I believe there was a substantial amount of valuable exposure and training that occurred during this hop.  U. Reynolds- carry these lessons learned to your next LLL LAT event. It may be with a BIP, not an NSI it is incumbent upon YOU to assess risks, communicate this to your crew, fly at your comfort level and execute the mission. Glad you finally got this code knocked out.
(b)(3), (b)(6), (b)(7)c	THE C	Logged	Ne	Sim was conducted at Bridgeport during day time conditions with callm winds. Star steeped power reductions from a 10% HOSE margin down to a 0% HIGE margin to demonstrate the various handling qualities.	SNM planned a TOLD/Load Comp with all appropriate components calculated to provide a feasibility of support for conducting operations at a 600-7000 foot elevation airfield with a 900' ney. SNM was well prepared for the brief and understood the performance limiting factors that drive the constrained operating environment of high altitude LZs.	control at ACL ACR as well as During the event SNM flew smooth stable approach profiles. His tendency was to fly high and result in a steep, slow approach profile. After the completion of the	Good to progress
(b)(3), (b)(6), (b)(7)c	MANIPLE-1	Logged	No	Sim was conducted at Marine Corps Mountain Warfare Training Center, Bridgeport, CA, in HLL conditions, CAVU, wind calm.	PUI's mission planning involved a site survey of a zone that was approximately florm from the training center and the production of a load comp for both Bridgeport and the LZ. PUI was quick to notice during the brief that the torque margins were not in accordance with the squadron SOP. PUI conducted a NATOPS brief that was adequate for mission success. Discussion included the T&R items, load computations, NATOPS procedures for MAT, and a SIR proview. Excellent knowledge throughout the discussion, well done!	in the sim, the aircraft was positioned at step 19, with the PUI running all checklists. After a quick review of the load comp on the glass, we conducted 3 conversion patterns and 2 airplane patterns with increasing fuel loads to the runway. PUI had a tendency to cut off the pattern at the abeam, leading to an undershooting firral, but was within standards on his last attempt. During the airplane patterns, we discussed terrain and aircraft performance awareness. Following the landings to the runway, we conducted the W.A.P.E.S. bencklist to enter the preplanned zone into RVL conditions, followed by 2 pinnacle landing, The final pinnacle landing was conducted to the highest poal in the local area, MATOPS slope limitations and led to the farard red screen death.	
(b)(3), (b)(6), (b)(7)c	No.	Logged	No.	Sim was conducted at Bridgeport during day time conditions with calm winds. Stair stepped power reductions from a 10% HOSE margin down to a 0% HISE margin to demonstrate the various handling qualities.	SNM planned a TOLD/Load Comp with all appropriate components calculated to provide a feasibility of support for conducting operations at a 6000- 7000 foct elevation airfield with a 900' rev. SNM was well prepared to the brief and understood the performance limiting factors that rive the constrained operating environment of high altitude LZs.	During the event SNM flew smooth stable approach profiles. His tendency was to fly high and result in a steep, slow approach profile. After the completion of the	

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## UNCLASSIFIED//FOR OFFICIAL USE ONLY Capt REYNOLDS, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022

(b)(3), (b)(6), (b)(7)c	3/24/2022 1043 L	Logged	No	Day VMC on VR-084 into LZ	PUI fully supported the flight	PUI's training began at MCAS I	ots of training and new things today on a relatively short flight. Good work teeping up with the aircraft and always working to maintain a good form positic
				2780, 2781, and 2784 training events in a VMM-East	conducted all mission briefing, IP conducted the NATOPS brief, PUI was fully prepared for the T&R discussion.	to VR-084, conducting fluid 4	(eeping up with the aircraft and always working to maintain a good routh positive whether combat spread of cruss.)
(b)(3), (b)(6), (b)(7)c		Logged	Na .	Day VMC on VR-084 into LZ Bat at MCOLF Oak Grove. Sortie was a combination of 2790, 2781, and 2784 training events in a VMM-East light division with 2 adjacent squadrons participating3 position for the entire flight. Light winds out of the southwest. PUI sat left seat, no Day HUD.	conducted all mission briefing. IP conducted the NATOPS brief. PUI was fully prepared for the T&R discussion.	New River. Flight progressed to VR-084, conducting fluid 4	Lots of training and new things today on a relatively short flight. Good work keeping up with the aircraft and always working to maintain a good form positi - whether combat spread or cruise.
	DIV(2)-2782 DIV(2)-2783	Logged	No	Day VMC on VR-084 into LZ Bat at MCOLF Oak Grove. Sortie was a combination of 2760, 2781, and 2784 training events in a VMM-East light division with 2 adjacent squadrons participating3 position for the entire flight. Light winds out of the southwest. PUI sat left seat, no Day HUD.	PUI fully supported the flight lead's planning efforts. Flight lead conducted all mission briefing. IP conducted the NATOPS brief. PU was fully prepared for the T&R discussion.	New River. Flight progressed to VR-084, conducting fluid 4	Lots of training and new things today on a relatively short flight. Good work keeping up with the aircraft and always working to maintain a good form pos - whether combat spread or cruise.
(b)(3), (b)(6), (b)(7)c	ou	Logged	No	Simulator was a section ever in the Mohawk Valley against an SA-8 and a SA-29.	N SNM assisted in the planning and threat assessment for the SA-8 and SA-29. During the bird students were asked questions about these systems and demonstrated proper understanding of the streights, weaknesses, and tactics effectivat countering them.	was an ASE familiarization and CRM rehearsal. SNM demonstrated a working knowledge to turn on each system, BIT it, and operate it in a static environment agains	at .

Capt REYNOLDS, ROSS A - MV-22B Pilot ew Performance between 1/1/2015 - 3/18/2022

)(3), (b)(6), (b)(7)c	3/24/2022 1043 UT	Logged	No	in the Mohawk Valley against	SNM assisted in the planning and threat assessment for the SA-8	was an ASF familiarization	SNM was slow on his call outs and a bit hesitant on his flare dispense. Keep practicing these maneuvers in the simulator and in the LAT environment. Use the training mode to "dispense" when conducting LAT maneuvers. Consider
				an SA-8 and a SA-29	students were asked questions about these systems and demonstrated proper understanding of the strengths, weaknesses, and tactics effective at countering them.	demonstrated a working knowledge to turn on each system, BIT it, and operate it in a static environment against	the training mode to "dispense" when conducting LAT instructures. Consider practicing the CRM calls inside that training environment as well. Once engaged, your job is survival first and then to consider the flight. Don't worry about what -2 is doing when you have a MANPADS flying at you.
p)(3), (b)(6), (b)(7)c	3TR(2)-2840	Logged	No	Day SS sortie to LHD-3 within the W-122. Entered via the break, conducted Chartie patterns before moving to NS CQ via the LH-2.	prepared by PUI. TSR discussion items found no lack of knowledge. PUI questions displayed a genuine study of the material. Continue to study at this level:	Entered the pattern via the overhead break APLN mode. IP demo'd the 10 nm are to allow for a liight to align with BRC prior to the initial. Always the liife is a liife in the initial always the liife is a liife in the initial always the liife is a liife in the initial always average BAW and correction based on feetback. Tordencies to be high on glideslope and slow to stagnation prior to the deck edge dominated. Improved throughout the sortie. Remember when you come out of translational lift you want to be right at the deck edge and you have to lean forward on the cyclic as you increase TCL or the aircraft will stop short in a HOGE. Allow the spot to come under the aircraft, anticipate the left cyclic needed to scrub off remaining drift, and make minor corrections on your own a you descend smoothly to the deck.	Above average with improvement throughout.
(b)(3), (b)(6), (b)(7)c	,	Logged	No	NS SS sortie to LHD-3, Started on the ship departed and re-entered via the LH-2. Charlie patterns until training complete.	Planning products and brief prepared by PUI, T&R discussion items found no lack of knowledge PUI questions displayed a genuine study of the material. Continue to study at this level.	good knowledge and	Above average with improvement throughout.
o)(3), (b)(6), (b)(7)¢		Logged	No	Flight executed IVO MCAS New River at the LHD Deck. Weather was VFR with wind light and out of the North.	Solid plan to execute multiple FCLPs at the LHD Deck. PUI was well versed on all discuss items and had a solid working knowledge of all ANTTP! Shipboard NATOPS / NATOPS procedures.	Joveral solid execution, PUI was able to effectively navigate the flight down the blue line to the LHD Deck. Practice shipboard comms were demonstrated by the instructor. Your patterns today improved after such and every bounce, All control inputs were smooth with no unsafe tenderncies noted, Remember, landing at the actual boat will be much mor complicate, to include a pitching and rolling deck, multiple mixed TIMIS, challenging comms, and sometimes even bad weather You have demonstrated a solid foundation today and you are ready for your first day at the boat. Remember to stay sharp and confline to hard fly your procedures and practice your shipboard comms. Remember is everything, coupled with smooth control inputs, and remaining flexible, Fallun to do so can be unforgiving a the ship.	
(b)(3), (b)(6), (b)(7)c	FCLP(2)-2942	Logged	No	Ferry flight from Harstad por to Bodo Air Base in Norway. PUI sat left seat.	t PUI helped plan a 6-ship ferry in foreign country to an unfamiliar airfield and uncertain weather. Brief was conducted by the flight lead.	parking lot at the port and through the fjords of Norway	conducted.
	AE(3)-3140						
					-1-	1	The state of the s
	TRAP(3)-3340 CAT(3)-3431	-	-				

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UNOLASSIFIED//FOR OFFICIAL-USE ONLY
Capt REYNOLDS, ROSS A - MV-22B Pilot
Crew Performance between 1/1/2015 - 3/18/2022
Generated on 03/24/2022 1043 UTC-04:00

	CAT(3)-3441	UTC-04:00		1-			
b)(3), (b)(6), (b)(7)c	Alexander	Logged	No	General route of flight began at Bogus Arfield. Him and another student conducted 4 simulated drops of PARAOPS going inrough the full checklist. Both conducted 2 passes as the flying pilot and the non flying pilot. The drops consisted of static line and military free fall. Each student utilized their CARP diagram and received an updated release point from a simulated jump master and adjusted route of flight to accommodate for winds.	Students planned a CARP diagram and racetrack pattern for multiple executions of PARAOPS. The CARP diagram was built in accordance to the ANTIP and Aerial Delivery handbook per JMPS. The racetrack pattern was tacking in executability. Waypoints were not named in a matter that created triggers for execution. This made executing the checklist difficult. Additionally, the pattern was built too small with sharer turns. Briefing items were covered in accordance with T&R and acceptable level of knowledge demonstrated.	to racetrack pattern planning. However, update store waypoints and TPG calculations for slowdown parameters allowed the students to build a racetrack pattern and slowdown profile that accommodated execution, Students demonstrated the ability to fly the profile effectively within the profile of the circle of the the profile of the circle of the the profile effectively within the profile effectively the effective the profile effectively the profile effectively the effectively the profile effectively the profile effectively the profile effectively the profile	Plan the event to be non-emclional and non-dynamic. Having a large racetra patam with standard rate turns will ensure that checkpoints and firmings are met. Additionally, this will provide a stable platform for the jumpers in the had of the alticraft. Keep in mind that the procedures in the ANTTP are designed sensial delivery of cargo and minimize the aircrafts exposure to threat. However the PARADPS and more specifically training, extending the look time out to prevent a finance and 2 minutes will all in thaving a stable profile for jumpers. Keep in minute and 2 minute soll are the points at which jumpers are allowed leave the aircraft for static line and military free-fail.
	AD(4)-4041			- 1 1			
	AD(4)-4042	-					
	AD(4)-4070 AD(4)-4081	-					
	AD(4)-4083	+					
	AIE(4)-4140						
	AIE(4)-4141						
	AIE(4)-4142						
	AIE(4)-4143 MAT(4)-4180	+	-				
	MAT(4)-4180 MAT(4)-4181	-	-				
	DWS(4)-4242						
	DWS(4)-4245	10					
	DCM(4)-4330						
	DCM(4)-4340 CBRN(4)-4430						
	CBRN(4)-4431						
	CQ(4)-4470						
	CQ(4)-4480						
	CQ(4)-4481 CQ(4)-4482						
	CQ(4)-4483	1					
	HTT(4)-4490						
	SEA(4)-4540						
	RVE(4)-4580						
	ADGR(4)-4640 BI(4)-4740	-					
	AD(4)-4840						
	AC2(4)-4940		111				
A	BIP(5)-5030	_					
-	BIP(5)-5031 FRSI(5)-5130						
	FRSI(5)-5131	1					
	FRSI(5)-5132	1					
	FRSI(5)-5133						
	FRSI(5)-5134 FRSI(5)-5135	-					
	FRSI(5)-5136	-					
	FRSI(5)-5137						
	FRSI(5)-5138		4				
	FRSI(5)-5139		1				
	NSFI(5)-5150 NSFI(5)-5151	4					
	NSFI(5)-5152						
	FRSI(5)-5170						
	FRSI(5)-5171						
	AARI(5)-5330 AARI(5)-5340	-	-				
	LATI(5)-5630						
	LATI(5)-5631	4					
	LATI(5)-5632						
	RVLI(5)-5730 RVLI(5)-5731						
	RVLI(5)-5731						
	DCMI(5)-5830						
	DCMI(5)-5831		3				
	DCM(5)-5832 NSI(5)-5930	-					
	NSI(5)-5931	1	1				
	NSI(5)-5932						
	NSI(5)-5933	11 27					
	NSI(5)-5934						
	NSI(5)-5935 NTPS(6)-6030						
	NTPS(6)-6030						

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# UNCLASSIFIED/FOR OFFICIAL-USE ONLY Capt REYNOLDS, ROSS A - MV-22B Pilot Crew Performance between 1/1/2015 - 3/18/2022 Generated on 03/24/2022 103 UTC-04-00

b)(3), (b)(6), (b)(7)c	TOTAL STREET	_ogged	No	Landing gear fails to extend and retract during RVL	Unplanned, standard NATOPS brief conducted.	PUI was on a high speed	Good job sticking to your role as the PF. Your smooth inputs and thinking copilot mentality allowed the TAC to use the rest of his bandwidth to fight th
				training	one conducted.	L MLG failed to indicate down and locked. TAC called for the waveoff and quickly radioed to the SL to request a visual inspection. PUI was the PF and did a good job of continuing to fit yield in the SL to request and splitting his scan with the turned CC. TAC and ramp CC went through the NATOPS procedures eventually resulting a down and locked indication on all gear. Flight RTB'd to KNCA and shutdown.	emergency vice having to monitor everything you're doing. Way to be a tear
	INST(6)-6060	-	+	_			
	INST(6)-6061		-				
	CRM(6)-6080						
	CRM(6)-6091						
	TAC(6)-6130						
	TAC(6)-6131						
	TAC(6)-6132						
	SL(6)-6230	-	_				
	SL(6)-6231						
	SL(6)-6232						
	SL(6)-6233						
	SL(6)-6234			_			
	SL(6)-6240						
	DL(6)-6330						
	DL(6)-6331						
	DL(6)-6332						
	DL(6)-6333						
	DL(6)-6340			_			
	FL(6)-6430		-				
	FL(6)-6440			_			
	AMC(6)-6530		+		1		
	AMC(6)-6540		-		1	-	
	FCP(6)-6630	_					
	FCP(6)-6631		-		-		
	TRK NS SS						
	TRK STRAT		-				
	RVL(6)-6900				+		

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## Event Proficiency VMM-261 - MV-22B Pilot

Generated on 05/10/2022 1052 UTC-04:00

Days Until Expired as of 05/10/2022	>= 90 Days	60-89 Days	30-59 Days	< 30 Days	Expired
"W" indicates Waived "D" indicates Defer	her				

	Familiarization (FAM(2))							
	ACAD: MV-22 SINCGARS	ACAD: MV-22 SATCOM	ACAD: MV-22 Tablet Fam 2012	LAB: Radio Demo	LAB: Tablet Fam	SFAM: FAM	SFAM: INST	ACAD: CAL Procedures 2210
Permanent								
Capt REYNOLDS, ROSS A.	No Reily	No Refly	No Refly	No Refly	No Refly	No Refly	03/10/2023	No Refly

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Low					Confined Area Landings (CAL(2))				
ACAD: Tactics LAB: LAT Walk in Night Env Through	ACAD: Ps E/M	ACAD: LAT III	ACAD: LAT II	ACAD: LAT I	CAL: Section CAL	CAL: Single CAL- Wypt	CAL: Single CAL Visual	SCAL: Section CAL	SCAL: Single CAL
2614 2620	2613	2612	2611	2610	2242	2241	2240	2231	2230

1

Altitude Tactics (LAT(2))						Mountain Area Training (MA				
SLAT: LAT Maneuvers / Rte	SLAT: Section LAT	SNS LAT: NS Section LAT	LAT: LAT Maneuvers / Rte	LAT: Section LAT	NS LAT: HLL Section LAT	NS LAT: LLL Section LAT	ACAD: High Altitude Ops	ACAD: Advanced MV-22 Aero	SMAT: Day MAT Sim	SMAT: NS MAT Sim
2630	2631	2632	2640	2641	2642	2643	2710	2711	2730	2731

	Air Logistics Su	upport (ALS(3))	Requir	ement, Qualificatio	on, Designation (F	RQD(6))	Emergency Procedures (EP(6))		Instrume	nt (INST(6))
SMAT: High/Hot/Heavy SIM	ACAD: ALSO Intro / Planning	ALS: ALS Msn	NATOPS Open Book	NATOPS Closed Book	NATOPS Oral Exam	NATOPS Eval	6033	IGS	Instrument Exam	Instrument Oral Exam
2732	3010	3040	6010	6011	6012	6030	6033	6040	6041	6042

- 0	GAIGA ISMAGA	on tonyonno	anutain mana	MINUSER //2/M/S/S	mouno tomen	novos anos	06/20/2022	01/31/2023	71.1/3 1.1/2 M 9/3	01/31/2023
	10405115055	09/09/2023	1021220120320	VERMENCE	02/20/2029	UCIENIZUES.	00/30/2022	U MO MEDEU	O HO, HEGEO	UNUNEVEU

	Crew Resource Manageme (CRM(6))					
INST Eval	CRM Refresher	CRM Eval				
6060	6070	6080				

01/31/2023	01/31/2023	



# VIVIM-261 NATOPS AUDIT SEEET



NAME: MOORE JACOB DATE: 1806c 20 **AUDITOR:** (b)(3), (b)(6), (b)(7)c SECTION I – GENERAL PRIVACY ACT STATEMENT - SIGNED AND DATED / RECORD OF DISCLOSURE PART A NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET REVIEW AND CERTIFICATION RECORD (3760/32A) o REVIEWED & CERTIFIED - REPORTING (ANNUALLY) CHANGE IN FLIGHT STATUS PART B PILOTS - ONLY MOST CURRENT PCS (DIFOP) ORDERS ENLISTED AIRCREW - VOLUNTARY FLIGHT STATUS LETTERS LETTERS OF SUSPENSION / REVOCATION PERMANENTLY RETAINED PART C MOST RECENT ANNUAL FLIGHT PHYSICAL CHIT (6410/2) (Only the most recent) ALL GROUNDING AND SUBSEQUENT UP CHITS SINCE ANNUAL WAIVER FORMS PERMANENTLY RETAINED PART D ♠ FLIGHT EQUIPMENT RECORDS CS (DIFOP) ORDER (3760/32B) (NATOPS sign the bottom) SECTION II - QUALIFICATIONS AND ACHIEVEMENTS PART A PERMANENT RECORD OF ALL FUNCTIONAL DESIGNATIONS (3760/32C) (All previous letter from CO) RETENTION OF DESIGNATION LETTERS FOR ALL DESIGNATIONS (3760/32C) (Ensure an ATF entered ion APR and logbook updated) PART B PERMANENT RECORD OF ALL QUALIFICATIONS NOT INCLUDED IN PART A RETENTION OF DESIGNATION LETTERS FOR ALL QUALIFICATIONS (3760/32C) (Fasure an ATF entered and logbook updated) PART C PERMANENT RECORD OF CRM TRAINING AND FLIGHTS (Matches NATOPS/Inst Check / retain annual class roster / CRMI/F logged) SECTION III - TRAINING PART A RECORD OF ALL SCHOOLS AND COURSES ATTENDED (3260/32E) (GWOE1-5 no longer req) COPY OF ALL TRAINING COMMAND / FRS SUMMARIES SINCE 01 JAN 88 PART B PERMANENT RECORD OF ALL SURVIVAL TRAINING (3760/32F NITE LAB TRAINING DOCUMENTATION ANNUAL EGRESS TRAINING DOCUMENTATION (3760/32F) (Check EMER EGRESS completed on NATOPS check) PART C ALL EXAMS PERTINENT TO AVIATION QUALIFICATIONS (Current IGS, OPEN/CLOSED book, update coverpage SEC III.C exams) PART D ALL NATOPS EVALUATION RECORDS (3710/7) (Kneeboard card and report, numerical grade for open/closed book, ensure egress/CRM complete, update SEC II.C. Misc and SEC III.B. Egress, update logbook) PART E ALL INSTRUMENT RATING REQUESTS (3710/2) (Kneeboard card/application, applicant signed application, update CRM/Fgress as req, update logbook) INSTRUMENT QUALIFICATION WAIVERS SECTION IV – FLIGHT RECORDS PART A ♦ (No longer req, MSHARP) PART B PERMANENT RECORD OF ALL AIRCRAFT/MISHAPS FLIGHT VIOLATIONS INVOLVING AN AIRCREW CAUSAL FACTOR, AND FNAEB RESULTS. FNAEB ENTRY SHALL CONTAIN: ENTRIES AUTHORIZED BY PARAGRAPH 10.5.2.8, DATE OF THE FNAEB, AND CO COMMENTS. CO MAY NOT DELEGATE THIS RESPONSIBILITY. (3760/32H)

ENCLOSURE (10

#### NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

SECTION IA - REVIEW AND CERTIFICATION RECORD	
NAME (Last, First, Middle Initial)	DoD ID Number
MOORE, JACOB M	

- 1. This jacket shall be reviewed by the Commanding Officer or a designated representative as follows:
  - a. Upon reporting to a unit.
  - b. Annually, within 30 days of birthday.
  - c. Upon change in flying status.
- 2. This jacket shall be certified by the Commanding Officer or a designated representative upon detachment of the individual.

		REC	ORDS OF REVIEW		
DATE	SIGNATURE	DATE	SIGNATURE	DATE	SIGNATURE
173022019					
6 FEB 2010	(b)(3), (b)(6), (b)(7)c				
18 DEC 2020					
	V				

		DETACHI	ENT	CERTIFICAT	ON	
UNIT	DATE	SIGNATURE	. س ر مسم	UNIT	DATE	SIGNATURE
NASC	21-Mar-19					
VMMT ZO4	17 DEC/9	(b)(3), (b)(6), (b)(7)c				
<u>\</u>		, ,				
		, , , , , , , , , , , , , , , , , , , ,				

OPNAV 3760/32A (Rev 02/2017)



MARINE MEDIUM TILTROTOR SQUADRON 261 MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF POSTAL SERVICE CENTER BOX 21016 JACKSONVILLE, NC 28545-1016

> IN REPLY REFER TO: 1326 S-3 28 Sep 21

Commanding Officer, Marine Medium Tiltrotor Squadron 261 From:

To: Designated Personnel

ASSIGNMENT OF TEMPORARY-INDEFINITE CREWMEMBER FLIGHT ORDERS

Ref: (a) MCO 1326.2H

(b) WgO 1326.5B

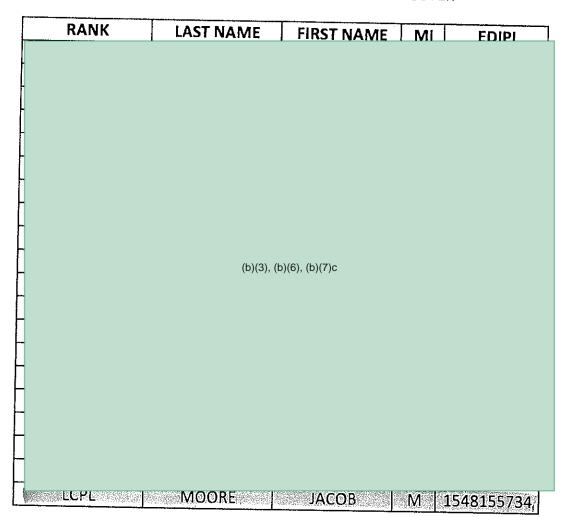
(c) Sqdn0 1326.1G

Encl: (1) VMM-261 Crewmember Personnel Roster

- Per the references, you are hereby ordered to duty in a flying status involving flights as a crewmember (MV-22B Crewchief). These orders are effective 1 October 2021 and will terminate on 30 September 2022.
- If during this period you are discharged and reenlist at this station without a break in active service, this order will remain in effect for the period specified herein.
- You are hereby notified that these flight orders and your flight status as per paragraph 1, above, will be terminated as of 30 September 2022 unless subsequently renewed.
- These orders will be automatically revoked upon transfer from this unit.

(b)(3), (b)(6), (b)(7)c

## VMM-261 CREWMEMBER PERSONNEL ROSTER





MARINE MEDIUM TILTROTOR SQUADRON 261 MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF POSTAL SERVICE CENTER BOX 21016 JACKSONVILLE, NC 28545-1016

> IN REPLY REFER TO: 1326 S-3 28 Sep 20

Commanding Officer, Marine Medium Tiltrotor Squadron 261

To:

Designated Personnel

Subj:

ASSIGNMENT OF TEMPORARY-INDEFINITE CREWMEMBER FLIGHT ORDERS

Ref:

(a) MCO 1326.2H

(b) WgO 1326.5B (c) SqdnO 1326.1G

(1) Marine Medium Tiltrotor Squadron 261 Crewmember Personnel

Roster

- Per the reference, you are hereby ordered to duty in a flying status involving flights as a crewmember (MV-22B CrewChief). These orders are effective from 1 October 2020 and will terminate 30 September 2021.
- 2. If during this period you are discharged and reenlist at this station without a break in active service, these orders will remain in effect for the period specified herein.
- You are hereby notified that these flight orders and your flight status as per paragraph 1, above, will be terminated as of 30 September 21.
- These orders will be automatically revoked upon transfer from this unit.

(b)(3), (b)(6), (b)(7)c

# VMN 61 CREWMEMBER PERSONNEL R TER

(b)(3), (b)(6), (b)(7)c	RANK	LAST NAME	FIRST NAME	NAI	EDIN
(b)(3), (b)(6), (b)(7)c					
(b)(3), (b)(6), (b)(7)c					
(b)(3), (b)(6), (b)(7)c					
(b)(3), (b)(6), (b)(7)c					
(b)(3), (b)(6), (b)(7)c					
(b)(3), (b)(6), (b)(7)c	1				
(b)(3), (b)(6), (b)(7)c					
(b)(3), (b)(6), (b)(7)c					
(b)(3), (b)(6), (b)(7)c					
		(b)(3), (t	b)(6), (b)(7)c		
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	<del>-</del>				
MOORE JACOB M 1548155734	H	MOORE I	JACOB	M 15	18155781
)c, (b)(3), (b)(6), (b)(7)c				141   131	10100104



#### UNITED STATES MARINE CORP. MARINE MEDIUM TILTROTOR SOUADRON 261 MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING POSTAL SERVICE CENTER BOX 21015

JACKSONVILLE, NC 28545-1015

1326 S-3 10 Jan 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: ASSIGNMENT OF TEMPORARY-INDEFINITE CREWMEMBER FLIGHT ORDERS

Ref:

(a) MCO 1326.2G

(b) WgO 1326.5B

(c) Sqdn0 1326.1G

- Per the references, you are hereby ordered to duty in a flying status involving flights as a crewmember (MV-22B Crewchief). These orders are effective from 0001, 10 January 2020 and will terminate on 30 September 2020.
- If during this period you are discharged and reenlist at this station without a break in active service, this order will remain in effect for the period specified herein.
- You are hereby notified that these flight orders and your flight status as per paragraph 1, above, will be terminated as of 30 September 2020 unless subsequently renewed.
- These orders will be automatically revoked upon transfer from this unit.

(b)(3), (b)(6), (b)(7)c

ADMINISTRATIVE REMARKS NAVPERS 1070/613 (REV. 10-81) S/N 016-LF-010-6881

E-32

SHIP OR STATION: NAVAL SCHOOLS COMMAND, PENSACOLA FL 32508-5221 UIC: 30500

(DATE) I, MOORE FACE M VOLUNTEER FOR DUTY INVOLVING

(DATE) FLYING. I UNDERSTAND THAT I MUST MAINTAIN THOSE QUALIFICATIONS

SPECIFIED BY THE CHIEF OF NAVAL PERSONNEL DURING THE PERIOD I AM

ACTIVELY ASSIGNED TO SUCH DUTIES. THIS AGREEMENT SHALL REMAIN

VALID UNTIL SUCH A TIME AS IT IS RESCINDED BY ME OR THAT IT HAS BEEN

DETERMINED BY APPROPRIATE AUTHORITY THAT I AM NO LONGER QUALIFIED

FOR SUCH DUTIES.

(STUDENT SIGNATURE)

(b)(6), (b)(7)c

(WITNESS SIGNATURE)

(LAST, FIRST MI)

MOORE, Trues M

(b)(3), (b)(6), (b)(7)c

SSN (LAST 4)

BRANCH

USM.

13

MEDICAL RECO	MENDATION	N FOR FLY	NG OR SPECIAL tions on back before o	OPERATION completing form.)	AL DUTY	
(Read Pi		. FROM:			3. DATE	(YYYYMMDD)
1. TO:	1	:. PROM. FS: MCAS N	EW RIVER			20220105
CO: VMM-261			TION NUMBER	6. GRADE	7. DATE	OF BIRTH /MMDD)
4. MEMBER NAME (Last, First, Middle Initial)				CPL	(444)	ммоо) 19971229
MOORE, JACOB			48155734	1	PHYSICAL DA	TE (YYYYMMDD)
8. ORGANIZATION		TYPE OF D		(If applicab	le)	
USMC			DIF AC		2022010	)5
11. UP: THE ABOVE INDIVIDUAL HA	S BEEN FOUN	ID QUALIFIE	D BY MEDICAL A	UTHORITY.		
a. X one:  CLEARED AFTER (X):  Tempo	orary medical disq ing to new duty s	ualification tation		mended (Not USA	· <u> </u>	aft mishap r (See remarks)
b. EFFECTIVE DATE (YYYYMMDD)			c. EXPIRATION DA	TE (YYYYMMDD)		
20220105				20221	231	
12. DOWN: THE ABOVE INDIVIDUAL	HAS BEEN F	OUND DISQ	UALIFIED BY MED	ICAL AUTHOR	ITY.	
a. X one:  TEMPORARY DISQUALIFICATION  MAY PARTICIPATE IN (X):  PERMANENT DISQUALIFICATION  b. EFFECTIVE DATE (YYYYMMDD)  13. REMARKS/LIMITATIONS  VISION CORRECTION DEVICES RI  MUST CARRY EXTRA SPECTACLE	Simulator duti		Ground based		Othe	er (See remarks)
14. (X one): X FLIGHT SURGEON	OTHER (Co	unlersignature re	equired for Air Force and			- DATE SIGNED
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e. TYPED NAME (Last, First, Middle Initial)	71. 117	f. GRADE	g. FLIGHT SUR	GEON COUNTER	SIGNATURE	h. DATE SIGNED (YYYYMMDD)
15. MEMBER CERTIFICATION						
a. I certify that I understand the above red	commendations a	nd that I:	b. AIRCREW MEME			c. DATE SIGNED (YYYYMMDD)
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DD FORM 2992, JAN 2015

REPLACES DA FORM 4186, AF FORM 1042, AND NAVMED FORMS 6410/1 AND 6410/2, WHICH ARE OBSOLETE.

## NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

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DATE	DESIGNATION	MODEL	UNIT	PROMULGATION BY	VERIFIED
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MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

in reply refer to: 3710 DSSN 16 Sep 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: BICC DESIGNATION

Ref: (a) CNAF-M 3710.7

(b) NAVMC 3500.11

(c) Al-V22AB-NFM-000

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby designated as a Basic Instructor Crew Chief.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to:
Operations/APR
NATOPS
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MARINE MEDIUM TILTROTOR TRAINING SQUADRON 204
MARINE AIRCRAFT GROUP 26
2D MARINE AIRCRAFT WING
PSC BOX 21018
JACKSONVILLE, NC 28545-1018

in REPLY REFER TO: 3710 DSSN 5 Dec 19

From: Commanding Officer, Marine Medium Tiltrotor Training Squadron 204

To: Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: DESIGNATION

Ref: (a) CNAF M-3710.7

(b) NAVMC 3500.11E

(c) A1-V22AB-NFM-000

- 1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby designated as a Crew Chief.
- 2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR Logbook entry

ENCLOSURE ( 10 )

#### NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

	IT PERSONNEL TRAINING SION QUALIFICATION RECORD	ACALIFICATION JACK	<u> </u>	
NAME (Last, First,	Middle Initial)		DoD ID Number	
EFFECTIVE DATE	TYPE AIRCRAFT	MISSION QUALIFICATION	UNIT	REMARKS
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MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
FOSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 3710 DSSN 16 Jul 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: NIGHT SYSTEMS LOW ALTITUDE TACTICS QUALIFICATION

Ref:

(a) CNAF-M 3710.7

(b) NAVMC 3500.11E

- 1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems Low Altitude Tactics qualified.
- 2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR DSSN



MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

N REPLY REFER TO: 3710 DSSN 24 Apr 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: NIGHT SYSTEMS QUALIFICATION

Ref: (a)

(a) CNAF-M 3710.7

(b) NAVMC 3500.11

- 1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems qualified.
- 2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR Logbook entry NATOPS

ENCLOSURE (0)



MARINE MEDIUM TILTROTOR SQUADRON 261 MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING POSTAL SERVICE CENTER BOX 21015 JACKSONVILLE, NC 28545-1015

IN REPLY REFER TO: 3710 DSSN 24 Apr 20

From:

Commanding Officer, Marine Medium Tiltrotor Squadron 261

To:

Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: M240D QUALIFICATION

Ref:

(a) MCO P3500.14

(b) NAVMC 3500.11

- 1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby M240D qualified.
- 2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR DSSN



MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING
POSTAL SERVICE CENTER BOX 21015
JACKSONVILLE, NC 28545-1015

IN REPLY REFER TO: 3710 DSSN 24 Apr 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: NIGHT SYSTEMS TAIL GUN QUALIFICATION

Ref: (a) MCO P3500.14

(b) NAVMC 3500.11E

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems Tail Gun qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR DSSN



MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING
POSTAL SERVICE CENTER BOX 21015
JACKSONVILLE, NC 28545-1015

NREPLY REPER TO: 3710 DSSN 21 Apr 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: DAY TAIL GUN QUALIFICATION

Ref: (a) CNAF-M 3710.7

(b) NAVMC 3500.11

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Day Tail Gun qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR NATOPS



MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING
POSTAL SERVICE CENTER BOX 21015
JACKSONVILLE, NC 28545-1015

IN REPLY REFER TO: 3710 DSSN 2 Apr 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: NIGHT SYSTEMS HIGH LIGHT LEVEL QUALIFICATION

Ref: (a) CNAF-M 3710.7

(b) NAVMC 3500.11E

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems High Light Level Qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR NATOPS

ENCLOSURE (10)



MARINE MEDIUM TILTROTOR SQUADRON 261 MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING PSC BOX 21015 JACKSONVILLE, NC 28545-1015

NREPLY REFER TO: 3710 DSSN 19 Feb 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Lance Corporal Jacob M. Moore 1548155734/6176 USMC

Subj: DAY LOW ALTITUDE TACTICS QUALIFICATION

Ref: (a) MCO P35C0.14

(b) NAVMC 3500.11E

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Day Low Altitude Tactics qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR DSSN

ENCLOSURE (0)

CNAFINST 1542.7(Series) 2 MAY 2016

### **CRM TRAINING & EVALUATION RECORD**

4 MARKE A C C C C			141411200110	
1. NAME (Last, first, middle initial):		2. RANK:	3. EDIPI NUMBER:	
				<u> </u>
Note: This form shall be perman	ently maintained in the	a NATOPS Flight Pers	onnel Training/Qualification	Jacket (Section II, Part C).
CRM IMM Instructor Course	4. Date:		ocation:	

#### CRM FACILITATOR TRAINING

6. T/M AIRCRAFT	7. UNIT	8. DATE

#### GROUND TRAINING / FLIGHT EVALUATIONS

Note: Valid for 12 months from the last day of the month in which training/evaluation was completed.

Note: Renewal flight evaluations may be completed within 60 days preceding the expiration of the current qualification

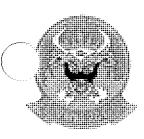
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#### **EXTENSIONS**

15. T/M AIRCRAFT	16. UNIT	17, GROUND/ FLIGHT	18. AUTHORITY	19. EXPIRATION DATE
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(REV 3/2016)

Enclosure (3)



## VMM-261 TRAINING ROSTER

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Date: _	1/4/22
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## VMM-261 TRAINING ROSTER

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Date:	1/4/21
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CLOSURE (10)



# VMM-261 2021 Back In The Saddle



Topic: <u>CRM</u>

Date: <u>04 JAN 2021</u>

Instructor:	(b)(3), (b)(6), (b)(7)c	

	Last Name, Fl. Ml.	Rank	Signature
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Class: <u>Annu</u>	al CRM Ground T	raining	
Date: <u>24 J</u>	uly 2020		
Instructor:	(h)(3) (h)(6) (h)(7)c		

Last Name, FI	Rank	Initial	Last Name, Fl	Rank	Initial			
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# CRM Initial/Refresher Course

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#### NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

SECTION IIIA - SCHOOL/COURSE ATTENDANCE RECORD

NAME (Last, First, Middle Initial)

MOORE, JACOB M

DoD ID Number

RECORD ALL SPECIALIZED, FORMAL AVIATION SCHOOLS, INCLUDING:

UNDERGRADUATE PILOT/NFO FRS SYLLABI FIRE FIGHTING FASOTRAGRP SYLLABI WEAPONS SYSTEMS FRAMP

MAINTENANCE (3M) COURSES

		110-000			
SCHOOL/COURSE	DATES ATTENDED	PASS/FAIL/SCORE	UNIT	REMARKS	VERIFIED BY
STANDARD FIRST AID / CPR	11-Mar-19	PASS			
NACCS	21-Mar-19	PASS			
MOM + CC	35UL19				(b)(3), (b)(6), (b)(7)c
BITC	17AU 620	Pass			
			T-11-4		

PNAV 3760/32E (Rev 02/2017)

# United States Marine Corps



This is to certify that

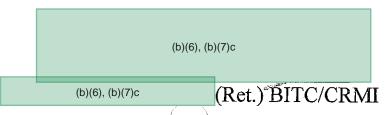
## LCpl Jacob Moore

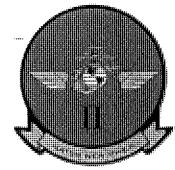
has completed the

## Basic Instructor Training Course

at Marine Aviation Training Systems Site New River, NC on this 17<sup>th</sup> day of Aug, 2020







OPNAVINST 3760.32 (Series)

NAME (Last, First, Middle Initial)  MOORE, JACOB M  RANK/RAT  PFC										ı	umber 4815573	3
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Norfolk, VA     Other Information	·	o. Cherr	ry Poin	it, NC				9. Other	r (List)		<del></del>	-

ENCLOSURE (/0)



#### DEPARTMENT OF THE NAVY

NAVY MEDICINE OPERATIONAL TRAINING CENTER NAVAL SURVIVAL TRAINING INSTITUTE DETACHMENT 340 HULSE ROAD PENSACOLA FL 32508-1089

> IN REPLY REFER TO 3760 9 Feb 2021

From: Officer in Charge, Naval Survival Training Institute

To: LANCE CORPORAL JACOB MOORE

Subj: NASTP TRAINING QUALIFICATION LETTER

Ref: (a) CNAF M-3710.7

1. In accordance with reference (a), LANCE CORPORAL JACOB MOORE has received SURVIVAL SWIMMING on 9 Feb 2021 at Aviation Survival Training Center CHERRY POINT.

- 2. LANCE CORPORAL JACOB MOORE received a grade of Q. All required modules were completed.
- 3. This qualification does not expire.
- 4. This qualification applies to the following aircrafts only:

Class 3: AH-1, H-3, H-46, H-53, H-60, H-72, H-92, OH-58C, TH-57, TH-73, UH-1, V-22

Aircrew Endurance Vest training consisted of an overview and in water familiarization of either the AE Vest or PRU-70 as applicable. In water familiarization included performing underwater problem solving, underwater egress, survival swimming, treading water, survival floating, life-preserver inflation, multi-place life raft boarding and helicopter rescue procedures. Subject named training specific to the AE Vest at Aviation Survival Training Center Cherry Point.

(b)(6), (b)(7)c

By direction

From: Aeromedical Safety Officer, Marine Aircraft Group 26 To: VMM-261 Department of Safety and Standardization

Subj: AEROMEDICAL TRAINING

Ref:

(a) CNAF M-3710.7

(b) WgO 5100.29

1. The following personnel completed Annual Aeromedical training as required by reference (a) and (b). Topics include Sensory Problems / Situational Awareness, Aeromedical Aspects of Egress, LASER and LASER Eye Protection, Hypoxia, NVG Capabilities & Limitations, Human Factors & Stress in Aviation, and FAILSAFE Program.

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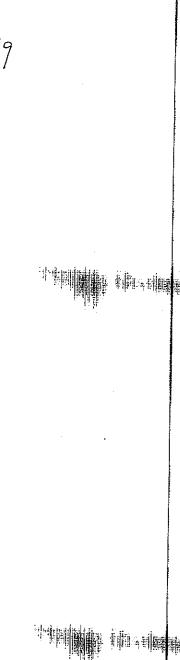
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29 30 31 31 32 33 33 33 34 35 36 37 (b)(3), (b)(6), (b)(7)c  MV-22  MM-26  MV-22  MM-26  MV-22  MMM-26  MV-22	27				MU-22	VMM-261
29 30 31 31 32 32 33 34 35 36 37 (b)(3), (b)(6), (b)(7)c  MV-22  MM-24  MV-22  MM-26  MV-26	28				ทง-เว	VMM-261
30 31 32 33 34 34 37 38 38 39 40 41 41 41 41 42 43 44 45 46 47 48 48 49 50 51 52 53 54 55 57 58 59  MV-22						Vmm 261
31 32 33 34 M-22 VMM-261 MV-22 VMM-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-263 MV-26	<u> </u>				MV-ZZ	JMM-261
32 33 34 35 36 37 38 39 40 40 41 41 42 43 44 45 46 46 47 48888 49 50 51 52 53 54 57 58 59	<u> </u>				WN-39	
33 34 35 36 37 38 39 40 40 41 41 42 43 44 45 46 47 4888 49 50 51 52 53 56 57 (b)(3), (b)(6), (b)(7)c  MV-72 VMM-76 MV-76	<u> </u>					VMM-ZGI
34 35 36 37 38 39 40 41 41 42 42 43 44 45 46 47 488 49 50 51 52 53 (b)(3), (b)(6), (b)(7)c  MV-22 VMM-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26 MV-26					1711-27	Umn-261
35 36 37 (b)(3), (b)(6), (b)(7)c  MV-22 VMM-26  MV-23 MV-24 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-25 VMM-26  MV-27 VMM-26  MV-27 VMM-26  MV-27 VMM-26  MV-27 VMM-26  MV-27 VMM-26  MV-28 VMM-26  MV-27 VMM-26  MV-27 VMM-26  MV-27 VMM-26  MV-28 VMM-26  MV-27 VMM-26  MV-27 VMM-26  MV-28 VMM-28 VMM-28  MV-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-28 VMM-2	<u> </u>				MV - 22	Vmm-261
36 37 38 39 40 40 41 41 42 43 44 45 46 47 4888 49 50 50 57 58 59 (b)(3), (b)(6), (b)(7)c  MV-22 VMM-26  MV-21 VMM-26  MV-21 VMM-26  MV-21 VMM-26  MV-22 VMM-26  MV-24 VMM-26  MV-24 VMM-26  MV-24 VMM-					MV-22	VMM-Z61
MV-22	<b>-</b>				MU-22	
38 39 40 41 42 43 44 45 46 47 4888 49 50 51 52 53 54 (b)(3), (b)(6), (b)(7)c  MV-22 VMM-26  MV-22 VM	<u> </u>				MV-Z2	
MV-22		(b)	(3), (b)(6), (b)(7)c			
40 41 41 42 42 43 44 44 44 45 46 46 47 4888 49 50 51 52 53 54 55 66 57 (b)(3), (b)(6), (b)(7)c					MV- 25	
41 42 43 44 44 45 46 47 48 49 50 51 51 52 53 54 (b)(3), (b)(6), (b)(7)c 58 59					MV-22	
42 43 44 44 45 46 47 488 49 50 51 52 53 54 57 58 59  MV-22 VMM-261 MV-261 MV-261 MV-261 MV-261 MV-261 MV-261 MV-261 MV-261 MV-26					MU-ZZ	
43 44 45 46 47 4888 49 50 51 52 53 54 55 66 1 (b)(3), (b)(6), (b)(7)c					MV-22	
44 45 46 47 4888 49 50 51 52 53 54 55 66 7 (b)(3), (b)(6), (b)(7)c 58 59	<u> </u>				MV-22	
45 46 47 48884 49 50 51 52 53 54 55 56 57 (b)(3), (b)(6), (b)(7)c 58 59					MV-22	
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53 54 55 56 7 57 (b)(3), (b)(6), (b)(7)c 58 59					MU-22	VMM-261
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57 (b)(3), (b)(6), (b)(7)c 58 59						
58 59		J			1	
59			(b)(3), (b)(6),	(b)(7)c		
60						
	60					

/S/ (b)(3), (b)(6), (b)(7)c

Rank	Last Name	First Name	MI	EDIPI
		(b)(3), (b)(6), (b)(7)		
PFC	MOORE	JACOB	М	1548155734
		(b)(3), (b)(6), (b)(7)	С	
			!	

Esres 9/15/19



## CENTER FOR SECURITY FORCES Certificate of Completion

Survival, Evasion, Resistance, and Escape Course A-2D-4635

Commanding Officer Center for Security Forces Takes pleasure in granting a certificate of completion to

### PFC JACOB M MOORE

Given this 12th day of April 2019



(b)(6), (b)(7)c(b)(6), (b)(7)cUSN

COMMANDING OFFICER **CENTER FOR SECURITY FORCES** 





#### DEPARTMENT OF THE NAVY

NAVY MEDICINE OPERATIONAL TRAINING CENTER NAVAL SURVIVAL TRAINING INSTITUTE DETACHMENT 55 RADFORD BOULEVARD, SUITE 211 PENSACOLA FL 32508-1091

> INREPLY REFER TO 3760 19 Mar 2019

From: Officer in Charge, Naval Survival Training Institute

To: PRIVATE FIRST CLASS JACOB MOORE

Subj: NASTP TRAINING QUALIFICATION LETTER

Ref: (a) CNAF M-3710.7

- 1. In accordance with reference (a), PRIVATE FIRST CLASS JACOB MOORE has received AC INDOC CLASS 3 on 18 Mar 2019 at Aviation Survival Training Center PENSACOLA.
- 2. PRIVATE FIRST CLASS JACOB MOORE received a grade of Q. All required modules were completed.
- 3. This qualification expires on 31 Mar 2023 unless additional conditions listed in reference (a) chapter 8, paragraph 8.4 apply.
- 4. This qualification applies to the following aircrafts only:

Class 3: AH-1, H-3, H-46, H-53, H-60, H-72, H-92, OH-58C, TH-57, UH-1, V-22

(b)(6), (b)(7)c

By direction PR1 (b)(6), (b)(7)c

**ENCLOSURE** 

## NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

SECTION HIC - EXAMINATION RECORD NAME (Last, First, Middle Initial) DoD ID Number MOORE, JACOB, M. NATOPS EXAMS **OPEN BOOK** CLOSED BOOK DATE GRADE PASS/FAIL **GRADED BY** DATE GRADE PASS/FAIL **GRADED BY** 17NOV19 3.96 3 DEC 19 4.0 To OCC 20 (b)(3), (b)(6), (b)(7)c4,0 (b)(3), (b)(6), (b)(7)c21 DEC 20 4.0 INSTRUMENT EXAM COURSE RULES OTHER EXAMS DATE GRADE PASS/FAIL GRADED BY DATE GRADE TITLE DATE GRADE PASS/FAIL **GRADED BY** OPNAV 3760/32G (Rev 02/2017)



### SINE PERSPIRO VMM-261 CREW CHIEF OPEN BOOK EXAM

Revised 03 Sep 19
Issued by (b)(3), (b)(6), (b)(7)c

Name: MORE, JACOB Date: 2-2-013/

Score: \_\_\_

	Graded By: (D)(3), (D)(6), (D)(7)	3
1. The MV-22 is a multi-mission aircraft within many applications. These applications include the	following:	
a. Mediam lift as sault support		
b. Tactical Recovery of Aircraft and Personnel		
c. Emergency Evacuution		
d. Elect Logistics support		
e.Logistics support ashore		
f. LongRange logistics support		
g. medical evacuation		
2. The aircraft is a twin engine, twin proprotor, high will landing gear.	بوها, twin tail design with retract	table
3. The wing has a 3.5 -degree dihedral and a lo -degree forward sweep.		
4. The MV-22 is powered by two (6\50) shaft-horse-power Rolls Royce Corporation engines which are housed in the wing tip nacelles.	AEIID7C - Liberty turbos	shaft
5. <u>Takerconnect</u> shafting maintains proprotor synchronization and provides sevent of an engine failure.	ingle engine power to both rotors in	ı the
6. The maximum VTOL gross weight of the V-22 is \$2,600 pounds at sea level; maximum 57,000 pounds; and maximum self-deploy gross weight is 60,500 pounds.	um Short Takeoff (STO) gross weig	ht is
7. The nose to tail length of the V-22 is <u>\$7</u> ft <u>\$\mathcal{4}\$</u> in.		
The overall rotor tip to rotor tip width of the V-22, airplane mode, is 83 ft 10 in.		
9. The Fuel Pump Metering Umit controls fuel flow and pressure in responsible from the FADECs.	onse to signals	
PRINTED ON 1/31/2022	enclosure (/	()

## **SINE PERSPIRO**

VMM-261 CREW CHIEF CLOSED BOOK TEST Rev 03 Sep 19

(b)(2)

ENCLOSURE (10)



#### SINE PERSPIRO VMM-261 CREW CHIEF OPEN BOOK EXAM

**Revised 03 Sen 19 Issued by** (b)(3), (b)(6), (b)(7)c

Name: <u>CPI MOORE</u>, JACOB Date: <u>301330</u> Score: <u>4.0</u> Graded By: (b)(3), (b)(6), (b)(7)c

**Academic Integrity Statement** 

I will complete this examination with the aid of the NATOPS Flight Manual and associated checklists only and understand that failure to do so may result in disciplinary action under the UCMJ.

Signature	Mum		
		•	

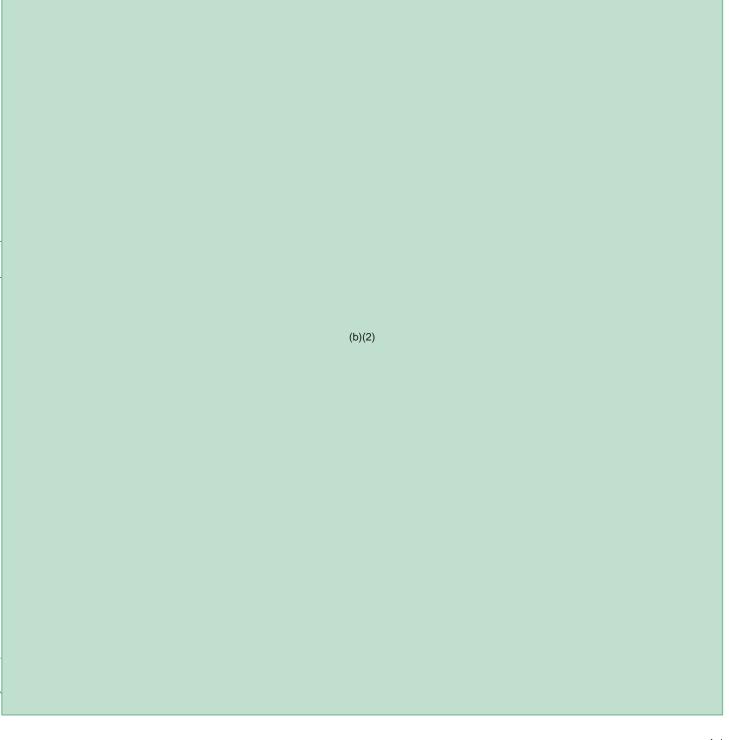
Current NATOPS Release Date: 1 AUGUST 2019

- 1. The MV-22 is a multi-mission aircraft within many applications. These applications include the following:
  - a. Medium Lift Assault Support
  - b. Tactical Recovery OF Aircraft and Personnel
  - c. Energency Evacuation
  - d. Fleet Logistics support
  - e. Logistics support ashore
  - f. Longrange logistics support
  - g. Medical Evacuation
  - 2. The aircraft is a twin engine, twin proprotor, high wing, twin tail design with retractable landing gear.

The wing has a 3.5 -degree directal and a lo -degree forward sweep.

## **SINE PERSPIRO**

VMM-261 CREW CHIEF CLOSED BOOK TEST Rev 03 Sep 19



ENCLOSURE ( (0)

VMM-261 AI V NATOPS EVALUATIO	N FOR	M	("	(
Evalue CPL MOORE SACOB M				The same of the sa
Evalues SSN /S4 8/55734				4. Airceast Taxi:
Instructor (b)(3), (b)(6), (b)(7)c				a. Hand and arm signals Day/Night
Date of Flight 1 FB8 2022			•	b. Aircraft yalk-around
Total Hours 4427				*5. Flight Evaluation:
Model Hours 447.7				a. ICS proper terminalogy
Flight Duration 3.3				b. Craw integration and situational awareness
Buno_168019				
Date of Last Evaluation OS JAN 2021				c. Lookout Doening
Expires 28 FEB 2023				d. Personal flight equipment
Expires & 8 1 EG XOXO				*6. Safety Regulations:
Open Book Date and Grade 31 JAN 22 : 3.9				a. Compliance
Classic Bank Days and Card 31 Day 12 : U.O.				*7. Emergency Procedures (critical area/sub area)
Closed Book Date and Grade 31 Dw 22: 4.0				s. Proficiency
				b. Compliance
T	A-f			3. Flight Parameters
Turn in completed ATF to 9-3 Pilot Training	M M			a. Knowledge
Correct TMR code entered into NALCOMIS	ΔK			b. Alermess
	_			*9. Voice Procedures
Phase I Ground Evaluation	Q	CQ	U	a. Clear and Concise
	n			b. Standard/Common Terminology
Open Closed Book	N N	[]	[]	*10. Pilot/Co-Pilot Craw Coordination
Oral Exam	M	[]	[]	a. Situational avvaraness
	`			b. Aircrew Coordination Training
Phase II Flight Evaluation				11. Special/other (comment required)
1. Preflight:	1.			
* a. Records check	M M M M M M M	[]	[]	Narrative of Flight
* b. Screen aircraft discrepancy book	Ø	[]	[]	
* c. Safety – aircraft pre-entry, covers	烙	[] [] []	[]	Shangths SENATUPS EVAL
* d. Aircraft Servicing – Operational Requirements	À	[]	[]	
*e. Demonstrate system knowledge, nomenclatures	•			Waakuassas SEE NATOPS EVAL
and theory of operations	AT	[]	[]	
* f. Aircraft Inspection				Notes_N/A
(1) IAW MRC's	41	[]	[]	
(2) IAW IETM's	a A A A A A A A A A A A A A A A A A A A		ÌÌ	
(3) APU start-up	12	Ü	ΪĬ	
(4) Demonstrate CMS Knowledge	Ü	[] [] []		
*g. Aircrew brief	bď	[]	Ü	
h. Passenger brief	12	ĹĴ	ίĬ	
2. sircraft Configuration	v		* 1	
Za. Cabin gear security	M	[]	[]	
tid. Cabin equipment	.6.	• •	**	
(1) Fast-rope frame	Kt	[]	11	and the state of t
	Ž	įj	ii	
(2) Winch / hoist operations (3) External cargo hooks / pendants	\hat{\hat{\hat{\hat{\hat{\hat{\hat{	ij	ij	
(4) Medical evacuations/litter stanchions	ĺλ	ń	ii	
(5) Life raft	1	ři	ii	
(6) Fire bottle	KXRVX	[]	ij	, (
3. Start/engage/postengagement	X.I	F 1	1.1	
*1. Crew p2260ns	1/1	[]	[]	
*b. Panel sectivity	1			
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NATOPS EVALUATION REPORT									
1. NAME (Last, first, middle init	tial)		2. RANK:	2. RANK: 3. EDIPI NUMBER:			4. DATE OF LAST EVALUATION:		
MOOR	RE, JACOB, M		CPL	1	1548155	5734	05 JAŅ 2021		
5. UNIT:	6. CREW POSITION & QL	JALIFICATIO	NS:	: 7. HOURS IN MODEL:			8. DATE OF ©HECH	K FLIGHT:	
VMM-261	CRE\	N CHIEF		447.7			01 FEB 2	2022	
9. TOTAL FLIGHT HOURS:	10. AIRCRAFT MODEL:	RAFT BUNO:	12. FL	IGHT DUF	RATION:	13. EXPIRATION D	ATE:		
447.7	MV-22B	16	68019		3.3		28 FEB 2	2023	
		NATOP	S EVALUAT	ION					
14a.	REQUIREMENT		14b.	COMPL	ETEO	14c.	GRADE		
	TIEGOTIENETT			COMPL	EIED	a	CQ	u	
OPEN BOOK EXAMINATION	OPEN BOOK EXAMINATION					3.9			
CLOSED BOOK EXAMINATI	ON		<del></del>	JAN 20		4.0			
ORAL EXAMINATION				JAN 20		X	L L		
EVALUATION FLIGHT			011	-EB 20	J22	X			
OVERALL FINAL GRADE:	QUALIFIED								
14d. REMARKS OF EVALUA	ATOR:								
CPL MOORE flew his		eck ride IA	AW with CN	AF 37	'10.7U.	A1-V22	2AB-NFM-000, I	MCO	
P3500.34, and V-22 T									
the flight. CPL MOOF									
calls throughout. His									
the aircraft. SNM dem									
procedure due to a sin						in with	no discrepancie	es noted.	
್ರಾPL MOORE is well q I	ualified to be design	ated as a	MV-22B CR	ew chi	er.				
Strengths: Crew coord	lination CMS								
Weakness: None note									
<u>-</u>									
Annual Egress was pe								-	
Annual CRM evaluation	on filgnt conducted IA	W CNAF	INST 1542.	/U.					
15a. PRINT NAME OF EVAL	UEE: 15	5b. RANK:	15c. DAT	E:	15d. SI	SNATURE	<u>:</u>		
MOORE, JA					TA	1 , _			
16a. PRINT NAME OF EVAL		CPL b. RANK:	01 FEE			GNATURE	<del>-</del> ::		
		201 (10.114)							
	b)(3), (b)(6), (b)(7)c		01 FEE	3 2022	<u> </u>	(b)(3),	(b)(6), (b)(7)c		
17. REMARKS OF UNIT CO	MMANDER:	,							
18a. UNIT COMMANDER:		b. RANK:	18c. DAT	E:	18d. SIG	SNATURE	: 100		
	18	D. HANK:							
	(b)(3), (b)(6), (b)(7)c		01 FEE	2022		(a)	(3), (b)(6), (b)(7)c		
CNAF M-3710 7 (Series)/REV	40016)					-	V	Page 1 of 1	

#### AIRCREW N. S EVALUATION FORM

Evaluee LCPL JACOB MOORE  Evaluee DODID 1548155734  Instructor (b)(3), (b)(6), (b)(7)c  Date of Flight 05 JAN 21  Total Hours 252.4  Model Hours 252.4  Flight Duration 3.5  Buno 166484  Date of Last Evaluation 05 DEC 2019  Expires 05 JAN 2022			
Open Book Date and Grade 20 VEC 20 / 4.0 Closed Book Date and Grade 21 VEC 20 / 4.0			
Turn in completed ATF to S-3 Pilot Training Correct TMR code entered into NALCOMIS	[] []		
Phase I Ground Evaluation	Q	CQ	Ū
Open/Closed Book Oral Exam	[*] [*]	[]	[]
Phase II Flight Evaluation  1. Preflight:  * a. Records check	f+1	r 1	
* b. Screen aircraft discrepancy book  * c. Safety - aircraft pre-entry, covers  * d. Aircraft Servicing - Operational Requireme  * e. Demonstrate system knowledge, nomenclature	[*] [*] ents [*]	[ ] [ ] [ ]	[ ] [ ] [ ]
and theory of operations  * f. Aircraft Inspection	:s [*]	[ ]	[ ]
<ul> <li>(1) IAW MRC's</li> <li>(2) IAW IETM's</li> <li>(3) APU start-up</li> <li>(4) Demonstrate CMS Knowledge</li> <li>*g. Aircrew brief</li> <li>h. Passenger brief</li> </ul>	[*] [*] {*] [*] [*]	[ ] [ ] [ ] [ ]	[ ] [ ] [ ]
<ol> <li>Aircraft Configuration</li> <li>*a. Cabin gear security</li> <li>b. Cabin equipment</li> </ol>	[*]	[]	[ ]
(1) Fast-rope frame (2) Winch / hoist operations (3) External cargo hooks / pendants (4) Medical evacuations/litter stanchions (5) Life raft	[*] [*] [*] [*]	[]	[]
M (6) Fire bottle Z0. Start/engage/post engagement C1 *a. Crew positions	[*] [*]	[]	
o *b. Panel security  n c. Lost Comm hand signals  t  t  t	[*] [*]	[]	[]

4. Aircraft Taxi:	Q	CÕ	U
a. Hand and arm signals Day/Night b. Aircraft walk-around *5. Flight Evaluation:	[*] [*]	[]	[
<ul> <li>a. ICS proper terminology</li> <li>b. Crew integration and situational awareness</li> <li>c. Lookout Doctrine</li> <li>d. Personal flight equipment</li> </ul>	[*] [*] [*]	[ ] [ ] [ ]	[ ]
*6. Safety Regulations a. Compliance			
*7. Emergency Procedures (critical area/sub area)	[*]	[]	[ ]
a. Proficiency b. Compliance 8. Flight Parameters a. Knowledge b. Alertness *9. Voice Procedures a. Clear and Concise	[*] [*] [*] [*]	[ ] [ ] [ ] [ ]	
b. Standard/Common Terminology	[*]	[]	[]
*10. Pilot/Co-Pilot Crew Coordination a. Situational Awareness	[*]	[]	[ ]
<ul><li>b. Aircrew Coordination Training</li><li>11. Special/other (comment required)</li></ul>	[*] [*]		[]
Narrative of Flight			
Strengths See NATOPS write up.			
Weaknesses See NATOPS write up.			
Notes Refer to NATOPS evaluation report	<del>.</del>	******	
		****	

	NATO	OPS EV	ALUATION	REPO	RT	0,011	10-37 10.7 (Selles)
1. NAME (Last, first, middle init	ial)		2. RANK:	3. EDI	PI NUMBER:	4. DATE OF LAST	EVALUATION:
MOOF	RE, JACOB, M		LCPL	15	48155734	05 DEC	2019
5. UNIT:	6. CREW POSITION & QU	JALIFICATIO	ONS:	7. HOU	JRS IN MODEL	.: 8. DATE OF CHE	CK FLIGHT:
VMM-261	CREV	V CHIEF			252.4	05 JAN	2021
9. TOTAL FLIGHT HOURS:	10. AIRCRAFT MODEL:	11. AIRCE	RAFT BUNO:	12. FLIGI	T DURATION	13. EXPIRATION	DATE:
252.4	MV-22B	10	66484		3.3	31 JAN	12022
		NATOF	S EVALUAT	ON			
14a.	14a. REQUIREMENT			COMPLET		GRADE	
OPEN BOOK EVANSUATION							U
OPEN BOOK EXAMINATION CLOSED BOOK EXAMINATION				DEC 20 DEC 20			
ORAL EXAMINATION	ON			JAN 21	- <del>4.</del>		
EVALUATION FLIGHT				JAN 21	C		
OVERALL FINAL GRADE:	OLIALIEIED						
14d. REMARKS OF EVALUA LCPL MOORE flew his			LANA(ide ON	ME 07	10711 44 1	OOAD NEM OO	
P3500.34, and V-22 To the flight. LCPL MOO calls throughout. His a the aircraft. SNM dem	RE maintained high s above average crew o constrated adequate l	situationa coordinat knowledg	al awareness tion and CRI ge of the "Sn	through I kept the oke and	nout the flig ne pilots inf d Fume Elir	ht, and used cle ormed of the co nination" emerg	ear concise endition of ency
rocedure due to a sin CPL MOORE is well	nulated Smoke from (	Circuit Br	eaker Panel	#1 in th	e cabin wit	h no discrepand	cies noted.
∕ Strengths: Crew coord Weakness: None note	ination, CMS.						
Annual Egress was pe Annual CRM evaluatio	rformed IAW CNAF I n flight conducted IA	M-3710.7 W CNAF	7 Series. INST 1542.	c.			
15a. PRINT NAME OF EVAL	UEE: 151	b. RANK:	15c. DATE	. 11	5d. SIGNATUF	RF∙	
MOORE, JA		LCPL	05 JAI		Tul	Moore	
16a. PRINT NAME OF EVAL		b. RANK:	16c. DATE		6d. SIGNATUF		,
	(b)(3), (b)(6), (b)(7)c		05 JAI	121	(b)(3	3), (b)(6), (b)(7)c	
17. REMARKS OF UNIT COM			1 000,11	<u>,                                    </u>	(2)(0	, (2)(0), (2)(1)	
*						Λ	
8a. UNIT COMMANDER:	181	b. RANK:	18c. DATE	: 18	Bd. SIGNATUR	# //	
	(b)(3), (b)(6), (b)(7)c		05 JAI	121		(b)(3), (b)(6), (b)(7)c	
CNAF M-3710.7 (Series)(REV			J 00 0AI		^	-/\	Page 1 of 1

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ENCLOSURE (10)

NAME MOORE	TALOB
FILE OR SERIAL NO.	1548155734
DESIGNATION: NO	USMC DCTOBER ZOIG
LOG NO.	FROM 1 OCTOBER 2019

IF FOUND. PLEASE RETURN TO

CHIEF OF NAVAL OPERATIONS

MAYY DEPARTMENT

WASHINGTON, D.C. 20159

OFHAY FORM 3760-31 REV. [4-65]

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#### QUALIFICATIONS AND ACHIEVEMENTS

(e. g. instrument card, patrol plane commander, sircraft type, CarQual, etc.)
(To be signed by Commanding Officer or authorized deputy)

QUALIFICATION	DATE	SIGNATURE	
- INATORS	5 DEC19		- 204
MUZZB CREW CHIEF	5 DEC 19		204
NYZZ DAY TG	71APB 20		61
MZZBNSTG	24 APRZO		<u>61</u>
Z400 QUAL	ZYAPRZO	(b)(3), (b)(6), (b)(7)c	61
MUZZB NSQ	Z4 APPSZO		î (
MVZZ8 NSLAT	16 JUL 20		,
MUZZB NATOPS	SJAN 21		(
MUZZO BICC	1656821		
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#### QUALIFICATIONS AND ACHIEVEMENTS

is a instrument card, patrol plane commander, aircraft type, CarQual, etc.)
(To be signed by Commanding Officer or authorized deputy)

QUALIFICATION	DATE	SIGNATURE	
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#### SUMMARY OF PILOT TIME

(To summarize flight data in this log and last months of previous leg)

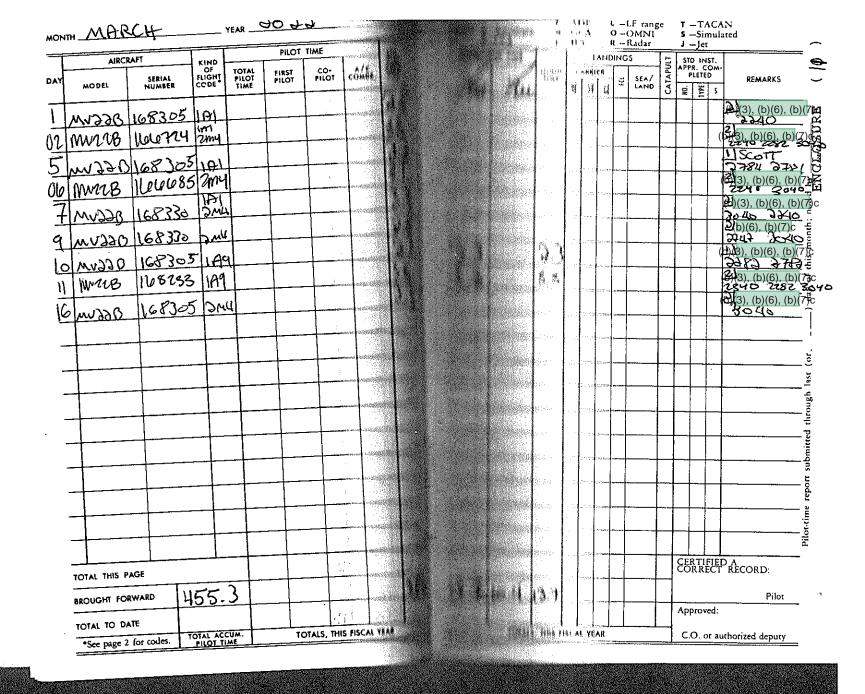
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YEAR	AND ITEM	JAN	FEB	MAR	APR	MAY	JUN.	101
2019	WASSB		<i>[.</i> -		/_			
	WA958	2.7	15-1	37.1	zu.5	8.0	91.1	8.8
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Allia	SEP	ост	NOV	DEC	JAN- MAR	APR- JUN	JUL- SEP	OCT- DEC	YEAR TOTAL	$\overline{z}$
1		26.9	19.6	17	63.5			635	63.5	_ <u>[ij</u>
1 3	91.1		24.6	21.1	52.4	53.6	39.7	45.7	139	SUR
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	*See page 2		OTAL ACC	UM.	TC	OTALS, THI	S FISCAL Y	15 P			ario vi	it Yt	AR				C.	Ο. οι	raut	norized deputy	<u></u>



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#### og Book for Cpl MOORE, JACOB 1/1/2019 - 3/31/2022

ated on 04/28/2022 1018 LITC-04:00

Date	Range T		-			Hours	70.00			F 5 12 7 1	T8				
	TMS	Device	Туре	TPT	SCT	NIGHT	HLL	LLL	T&R 1	T&R 2	T&R3	T&R 4	T&R 5	T&R 6	NAVFLIR
Totals		1			486.1	182.0	72.6	95.5							
10/1/2019	MV-22B	168649	Aircraft		3.5				1080						V6Z81QI
10/2/2019	MV-22B	166384	Aircraft		1.5				1081						ZGOAVIZ
10/4/2019	MV-22B	169317	Aircraft		1.5				1082						C12ZR20
10/8/2019	MV-22B	168644	Aircraft		1.5				1083						NVM8TY
10/10/2019	MV-22B	168648	Aircraft		1.5				1084		) - 7	1			SMVTJ03
10/11/2019	MV-22B	168648	Aircraft		1.5				1085			1			B4KCFFV
10/16/2019	MV-22B	168684	Aircraft		2	1.7			1240						8K1TCW
10/21/2019	MV-22B	168646	Aircraft		1.5				1086			1			SO02PF
10/22/2019	MV-22B	168295	Aircraft		2	-			1340						RISIDY
10/26/2019	MV-22B	166384	Aircraft		3.4				1341						E81CG0
10/27/2019	MV-22B	168649	Aircraft	-	3.5				1341				-		KMUD65
10/20/2019	MV-22B	168651	Aircraft	-					1440						GSEGY3
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11/3/2019	MV-22B	168648	Aircraft		3.5	3.5	3.5		1640	1641					JUOKQ
11/5/2019	MV-22B	168329	Aircraft		2	2	2		1642	200					
11/12/2019	MV-22B	168684	Aircraft		2				1340	1540					HY4Z7VI
11/15/2019	MV-22B	168684	Aircraft		2.5				1830	1831					0Z43SXI
11/19/2019	MV-22B	168647	Aircraft		2	2			1240					-	M9XNPW
11/20/2019	MV-22B	168295	Aircraft		2.3	2.3			1240						ORX96NO
11/20/2019	MV-22B	168683	Aircraft	-	1.8	1.8			1240						EBAIUDI
11/22/2019	MV-22B	168683	Aircraft		3.5	0.5			1084	1240					PIKRRM
12/3/2019	MV-22B	168645	Aircraft		3.5	1,			1840		1				4ZGZPV
12/5/2019	MV-22B	167921	Aircraft		3	1			1841	6030	6033	6080			9RWFUZ
12/6/2019	MV-22B	168676	Aircraft		3.5				1083						J3FH6D
12/9/2019	MV-22B	168688	Aircraft		4	4	4		1642						XU91XT
12/11/2019	MV-22B	168650	Aircraft		3				1840	7 - 1					RZAZT7
1/24/2020	MV-22B	168351	Aircraft		0.4				6033						21AEA0
1/30/2020	MV-22B	168231	Aircraft		2.3				6033	2240					KVW3KK
2/3/2020	MV-22B	168351	Aircraft		0.5										HSSOMN
2/4/2020	MV-22B	166724	Aircraft		3.5				2240						YORX78
2/11/2020	MV-22B	168622	Aircraft		2.5				2640	2240					AVI2VT.
2/14/2020	MV-22B	168019	Aircraft		0.5										S6AP3S
2/19/2020	MV-22B	165956	Aircraft		3.5				2242	2641	2140		-		K9UPN8
2/24/2020	MV-22B	165956	Aircraft		0.3										BT1IXY
2/25/2020	MV-22B	165956	Aircraft		0.5										FNBFBV
2/25/2020	MV-22B	166484	Aircraft		0.5		-	+							Q8DFJF
2/26/2020	MV-22B	168019	Aircraft		3,3				2242						XTEGSO
3/2/2020	MV-22B	168231	Aircraft						2282	6900					AQ7XT5
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3/6/2020	MV-22B	166724	Aircraft		1.7				2240	6033					XGTYLF
3/6/2020	MV-22B	168622	Aircraft		7.8				6033	0000		-			MA9GVI
3/9/2020	MV-22B	168622	Aircraft		0.3				4180	6033	1000	4101	0000		TOTAL CO.
3/9/2020	MV-22B	168231	Aircraft		3.5	2.5	1.7		2282	2340	4180	4181	6900	1	CA5Q3E
3/11/2020	MV-22B	168351	Aircraft		0.4						- ADF -	12022			0KKJEV
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3/15/2020	MV-22B	168231	Aircraft		7				2240						B2SQQ
3/18/2020	MV-22B	168226	Aircraft	V.	0.5										AXLAW
3/24/2020	MV-22B	168351	Aircraft		3.3				2242	2282	6033				IAMEZ
4/2/2020	MV-22B	168622	Aircraft		3.5	3.5	3.5		2282	2341					XOWVL
4/4/2020	MV-22B	168351	Aircraft	1	3.5	3.5	3.5		2341	2642		12			2F5FH
4/7/2020	MV-22B	168231	Aircraft		3.5	3.5	3.5		2341	2642					JQDS4
4/9/2020	MV-22B	168228	Aircraft	-	1	No.			6033						LOVCX
4/14/2020	MV-22B	166724	Aircraft		4	-			2240						Z130L
4/16/2020	MV-22B	165956	Aircraft	-	3.5	3.5		3.5	2380	2381					3PW92
4/21/2020	MV-22B	166724	Aircraft		1.5				2541	2540	6150	6033	2240		OWANS
4/23/2020	MV-22B	168607	Aircraft		3,5	3.5		3.5	2383	2282	2382			1	E3DXP
4/24/2020	MV-22B	166724	Aircraft		3.5	3.5		3.5	2382	2383	2542	2543	6151		НЈКН5
5/13/2020	MV-22B	168231	Aircraft	_	0.5	0.0	-	0.0	6033	2000	20,2	1	-		PE7GM

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5/14/2020	MV-22B	168622	Aircraft	1	0.5					- 4		1			4C1PRW7
5/15/2020	MV-22B	168228	Aircraft		3.5	3.5		3.5	2282	2381					HMOR4ZL
5/28/2020	MV-22B	168228	Aircraft		3.5				2780	TET					6DKVKSF
6/1/2020	MV-22B	168622	Aircraft		0.5	0.5	0.5		2341						VV6C7EY
6/3/2020	MV-22B	168231	Aircraft		4				2242				1 - 1		25YCWH
6/15/2020	MV-22B	168230	Aircraft		0.5										DO91FRI
6/18/2020	MV-22B	166484	Aircraft				-		2242	2640	2940				S8I5GRA
UG 00 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			L CEACASE		2.3						2340		-		2LV5UK
6/23/2020	MV-22B	168230	Aircraft		4				2240	3040					
6/24/2020	MV-22B	168622	Aircraft	- 1 - 1	4.5				2240	6033					UUJTON
6/27/2020	MV-22B	168622	Aircraft		4				2240	3040					O7GRRE
6/29/2020	MV-22B	168673	Aircraft	1	1.3				2240						6YBFZ8
7/1/2020	MV-22B	168673	Aircraft		3.5				4480		1				05GV5I
7/8/2020	MV-22B	168305	Aircraft		0.3										UEDD93
7/16/2020	MV-22B	168666	Aircraft		2.3	2.3	-	2.3	2383	2282	2643				7QA2KE
7/21/2020	MV-22B	168230	Aircraft		0.5	0.5		0.5	6033						P8T4E2
7/23/2020	MV-22B	168230	Aircraft			0.5		0.0	6033	-					K1MNO
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7/29/2020	MV-22B	168622	Aircraft	1.14	0.7				6033				_		AT 30 AT A 3 TO
7/30/2020	MV-22B	166724	Aircraft	1	0.5				11						0DA7Z6
8/5/2020	MV-22B	165956	Aircraft		3.5	3.5	2.5	1	2341						8W2WH
8/11/2020	MV-22B	168673	Aircraft		3.3				2282	2641	2242				QWGAN
8/13/2020	MV-22B	165956	Aircraft		2.5				2242	2840	1				N5FCIE
8/14/2020	MV-22B	168228	Aircraft		0.5										H4AW5
9/1/2020	MV-22B	168305	Aircraft		3.5		-		2242	4041					8E1SR
	MV-22B	168231							24.72	4041					XJA7JF
9/9/2020			Aircraft		0.5				1474			77			MH6KY
9/14/2020	MV-22B	168231	Aircraft		10				2240						
9/19/2020	MV-22B	168228	Aircraft		3.3	3.3		3.3	2380				n \		KPNZ01
9/22/2020	MV-22B	168228	Aircraft		1.8				2240						GJ70SE
9/24/2020	MV-22B	166687	Aircraft		1.1				4						GPUZZ
9/29/2020	MV-22B	168228	Aircraft		0.6				2940	6033					74SBD
9/30/2020	MV-22B	166724	Aircraft		0.3	0.3	0.3			-			Y 1		14M2G
11/7/2020	MV-22B	166484	Aircraft		0.5	010	0.0								ICGXW
			1 1 2 2 2 2 2					1							MB97W
11/8/2020	MV-22B	166484	Aircraft		3		2.2		200	-	-				3M0VN
11/10/2020	MV-22B	165956	Aircraft		3.3	3.3	0.3	3	2381						-
11/20/2020	MV-22B	168231	Aircraft		17.1				2781	2784					UQOEL
11/23/2020	MV-22B	168305	Aircraft		0.4										PB2PS
11/24/2020	MV-22B	166484	Aircraft		0.3										KOBLM
12/7/2020	MV-22B	168231	Aircraft		2				2242	3040					3VHX2
12/9/2020	MV-22B	168673	Aircraft		3	3		3	2282	2383	2643				92Z8S
12/10/2020	MV-22B	166724	Aircraft		4	4		4	2784	3040	3140	3440	3441		Q87BS
	1222					- 4		-		3040	10/13				PR0H2
12/14/2020	MV-22B	168230	Aircraft	1	3.6				2240		2/2/				TJ4CU
12/15/2020	MV-22B	168228	Aircraft		3.5				2541	2781	6151				_
12/16/2020	MV-22B	168228	Aircraft		5	0.5	0.5		2242	3040		1			470ND
1/5/2021	MV-22B	166484	Aircraft		3.3	1			2282	2240	6030	6033	6080		0B39L
1/12/2021	MV-22B	168019	Aircraft		3.2				2240						GVGFC
1/13/2021	MV-22B	167913	Aircraft		3.3	3.3		3.3	2380	2381	3441	3440			MYO30
1/22/2021	MV-22B	168228	Aircraft		0.4			19.56							G2RBI
_ A P T OK - XC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	168228	Aircraft					-							R4MO
1/28/2021	MV-22B	4.4	A SECURITION	1	0.5	1.6	-	1 22	0000	0000	2643	2140	2642	2282	JHTHO
2/2/2021	MV-22B	166484	Aircraft		1.8	1.8	0.3	1.5	2382	2383	2043	2140	2042	and Alle	9HY5Y
2/4/2021	MV-22B	166687	Aircraft		0.5										-
2/25/2021	MV-22B	168602	Aircraft		2				2781	3040	4 4				KCL6
3/15/2021	MV-22B	168673	Aircraft		3				2242						3IDRC
3/18/2021	MV-22B	168630	Aircraft		4.5				2242	4480					DEBF
3/23/2021	MV-22B	167913	Aircraft		3.3	3.3	3.3		2341						425D3
3/25/2021	MV-22B	168607	Aircraft		3	1	1		2780	2781	3441				7AYB
							-	-	2,00	2.701	2.77				SKT7X
3/27/2021	MV-22B	168602	Aircraft		0.3			- 810		-		1			UXTE
3/30/2021	MV-22B	168228	Aircraft		3.3	3.3	2	1.3	2383	-	- Grav.				-
4/5/2021	MV-22B	168622	Aircraft		3.3	3.3		3.3	2383	2543	6151				RUNE
4/6/2021	MV-22B	168622	Aircraft		3.3	3.3		3.3	2383	711					5NQC
4/8/2021	MV-22B	168622	Aircraft		3.3	3.3		3.3	2383						YC1Z
4/13/2021	MV-22B	168602	Aircraft		2				2242	6033					EMUS
4/15/2021	MV-22B	168622	Aircraft		1,5	1.5		1.5	6033	2381					609W
			Aircraft			1.0		1.0	2242	3040	6033				9JF3V
4/20/2021	MV-22B	168673			5										JTCJ
4/22/2021	MV-22B	168602	Aircraft		1.5				2242	3040		1			5.00

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4/24/2021	MV-22B	168673	Aircraft	5		1	1	2242	3040				45YF7QK
5/6/2021	MV-22B	168673	Aircraft	3.5			1	2242	3040	2282			DRIV8QC
5/7/2021	MV-22B	166687	Aircraft	4	4		4	3140	2381				ANW9X88
5/10/2021	MV-22B	168673	Aircraft	3.3	3.3		3.3	2383					ZC27GUK
5/11/2021	MV-22B	168228	Aircraft	3.3	3.3		3.3	2380	6033	2282			H93CYNB
5/18/2021	MV-22B	166687	Aircraft	0.3	0.3	0.3		2341					OWV4R85
5/24/2021	MV-22B	166687	Aircraft	3	3	3		2340					VC8NXE5
5/27/2021	MV-22B	166687	Aircraft	3.5	3.5	3.5		2782	2942				HZP68WX
6/1/2021	MV-22B	168673	Aircraft	3.7		0.0		4480	2242				ZXBHW18
6/15/2021	MV-22B	168228	Aircraft	3.5	3.5		3.5	2381					SHIQUPT
6/17/2021	MV-22B	167913	Aircraft	3.3	3.3	3.3		2341					G76WJNA
7/5/2021	MV-22B	166687	Aircraft	3	3		3	2383	2282	6900	6033		C714HX3
7/7/2021	MV-22B	168602	Aircraft	4	2		2	2240	2380		1 111		BH5QPLC
7/10/2021	MV-22B	168228	Aircraft	3.3	2.8		2.8	2381	40.5%		-===		TN79S5E
7/15/2021	MV-22B	168228	Aircraft	3.3	3.3	3.3		2282	2340		-		33V4LV7
7/22/2021	MV-22B	167913	Aircraft	4	4	3.3		2340	2010				090JGN9
7/26/2021	MV-22B	167913	Aircraft	4	2.4		1.5	2380					IWUCONU
8/7/2021	MV-22B	168228	Aircraft	6.5	100		1.0	2781	3040	3140	3340	2282	QFHDO0B
8/11/2021	MV-22B	167913	Aircraft	1.7	1.7	1	1.7	2282	2381	0110	55.10		0SQ6Y2X
8/12/2021	MV-22B	167913	Aircraft	3.5	3.2	0.4	2.8	2282	2383				P2J7M4R
8/23/2021	MV-22B	168228	Aircraft	3.6	2	2	2.0	2341	2000				53KMX78
8/30/2021	MV-22B	168228	Aircraft	3.7	-	-		2242					3HQ7ZIB
8/31/2021	MV-22B	168622	Aircraft	3.7				6350	2541	2242			7SMCMQE
9/6/2021	MV-22B	168622	Aircraft	3.5	3		3	2382	2383	2646			13JUS1B
9/7/2021	MV-22B	168673	Aircraft	3.2	3.2	0.2	3	2383	2000				QYVV7KW
9/9/2021	MV-22B	168673	Aircraft	3,8	3.8	1	2	2303					XNM33BH
9/15/2021	MV-22B	168602	Aircraft	3.5	3.5	3.1		2700	0790				6U0QC6T
9/16/2021	MV-22B	168602	Aircraft	3	0.5	3.1		2780	2782 5040	2242			NW17USH
9/17/2021	MV-22B	167913	Aircraft	3.5	3.5	3.1		4041	5040	2242			01A0W6C
9/20/2021	MV-22B	168673	Aircraft	3.6	3.6	3.1		2341 2782					4PFX9OX
9/23/2021	MV-22B	168622	Aircraft	3.4	3.4	2.8	0.6	2341	2383	2282			VEET43A
9/24/2021	MV-22B	167913	Aircraft	3.5	0.4	2.0	0.0		2282	2602			6USKY1M
10/27/2021	MV-22B	168305	Aircraft		0			2242					AO5LQDJ
0/29/2021	MV-22B	166724	Aircraft	3	3		3	2383	2643	-			QRQ8ZEA
11/9/2021	MV-22B	166724	Aircraft	3.3	3		.3	2381	2643	-			PS2W7FP
11/16/2021	MV-22B	166724	Aircraft			-			2641	2784			7IRO9A6
11/23/2021	MV-22B	166724	Aircraft	3.5				2780	2781	2/84			JDX2BJC
11/23/2021	MV-22B	166724	Aircraft					2242	0040				YSBAFYL
11/30/2021	MV-22B	166724	Aircraft	3.5				2240	2640 2242	2541	2282		UGBDGP2
12/7/2021	MV-22B	166724	Aircraft	3.3		-		2840 2240	4081	2541	2202		ZX8028F
1/6/2022	MV-22B	168330	Aircraft	- 1000	4,4	-	4.4	-		2942			ES5IJK7
2/1/2022	MV-22B	168019	Aircraft	3.3	4,4		4.4	2383	2643 2641	6030	6080	6033	5FNFDC5
2/8/2022	MV-22B	168651	Aircraft		2.0	0.0	-	100000		6030	0080	6033	OON9BSI
2/19/2022	MV-22B	168233	Aircraft	3.3	3.3	3.3	-	2341	2642				STA2L7Z
3/1/2022	MV-22B	168305	Aircraft	1			-	2240	3040			-	
3/2/2022	MV-22B MV-22B			2.8				2240	2000	0040			VGN2HVX
3/5/2022	MV-22B MV-22B	166724 168305	Aircraft	3.3				2240	2282	3040			3PZ1W0V
The second second			Aircraft	3.3				2784	2781				BRVMLFA
3/6/2022	MV-22B MV-22B	166685	Aircraft	3.1				2240	3040	0000			386E6ED
3/7/2022		168330	Aircraft	3.3				3040	2240	2282		1	EJBUQS4
3/9/2022	MV-22B	168330	Aircraft	2.8				2242	3040				D9XUMR3
3/10/2022	MV-22B	168305	Aircraft	2.3	2.3	2.3		2282	2782				J87UC5X
3/11/2022	MV-22B	168233	Aircraft	3.3	3.3	3.3		2340	2282	3040			M7XIHQU
3/16/2022	MV-22B	168305	Aircraft	3.3	0			3040					NFS5PL2
3/17/2022	MV-22B	168330	Aircraft	3.3			11.000	2242	2282	2641			NHQSZXJ

Career	Totals			Hours		
	TMS	TPT	SCT	NIGHT	HLL	LLL
Totals	All		486.1	182.0	72.6	95.5
	MV-22B		486.1	182.0	72.6	95.5

#### UNCLASSIFIED//FOR-OFFICIAL-USE ONLY Cpl MOORE, JACOB M - MV-22B Crew Chief Crew Performance batween 1/1/2015 - 3/18/2022 Generated on 03/24/2022 1046 UTC-04:00

Instructor Name	Event	Method	Needs Additional	Overview	Plan/Brief	Execution	Instructor Comments
	FAM(1)-1032		Training				A
	FAM(1)-1033						
	FAM(1)-1080						
	FAM(1)-1081			1			
	FAM(1)-1082						
	FAM(1)-1083 FAM(1)-1084						
	FAM(1)-1085						
	FAM(1)-1086						
	INST(1)-1240						
	CAL(1)-1340						
	CAL(1)-1341						
	FORM(1)-1440						
	FCLP(1)-1540 NS(1)-1640						
	NS(1)-1641						
	NS(1)-1642				11		
	CARGO(1)-1730						
	REV(1)-1830						
	REV(1)-1831						
1.	REV(1)-1840						
(1)(0) (1)(0) (1)(7)	REV(1)-1841	V	NC.	D. A. J. KNIGA - LAME!	December 1981 Charles and 1981 and 1981	O CA ( -101	Be louder on ICS, and more assertive when calling out other planes location
(b)(3), (b)(6), (b)(7)c	E HIM IO LIZE	Logged	No	via tactical decent, once in	Departed KNCA at 1415L as a section towards the VR-84. Entered LAT route at point B via tactical decent, once in the LAT	Good SA of other plane and manuvers	Be louder on ICS, and more assertive when calling out other plaines location
				SO/TO/RO and multiple tac form manuvers, exited LAT route at point F via zoom	enviorment we conducted multiple SO/TO/RO and multiple tac form manuvers, exited LAT route at point F via zoom climb. headed to LZ BAT and conducted multiple bounces as the lead and dash 2 position until training complete.		
(b)(3), (b)(6), (b)(7)c	PR 12000	Logged	No	FCF A-card on a/c 07 with	Multiple landings to apex of Oak	Excellent calls all day.	Well done. Stay in the books since flights will become more complicated a
(6)(5), (6)(6), (6)(7)6			177	multiple landings, all in unique	Grove, with extensive hover work	Responsive to minor	task management critical with additional CRM call requirements.
				ways.	at varying altitudes, modes, drifts, and even crew chief hover work. Approaches into Fayettville and TACAN 23 to KNCA.	guidance. Strong SA with 53 traffic on Rwy 5 at Oak Grove and 22 at LZ Emu. Good clearance calls with trees and drift.	)
h)(0) (h)(0) (h)(7)	TEN SE	Logged	No	Departed KNCA to Oak	Departed KNCA to Oak Grove	Student showed steady	Student needs improvement in standard terminology calls, and wind mitiga
b)(3), (b)(6), (b)(7)¢		Logged	No	Grove Complex, Completed 5 CALS at LZ BAT.		improvement through flight in distance estimation. Showed good situational awareness throughout.	in mic while landing.
(b)(3), (b)(6), (b)(7)c	GAMBURS	Logged	No	Departed KNCA at 1415L as	Departed KNCA at 1415L as a	Good calls to deck	Work on wind noise mitigation, work on answering pilots quicker.
				a section towards the VR-84. Entered LAT route at point is tactical decent, once in the LAT environment we conducted multiple SO/TO/RO and multiple tac form manuvers, exited LAT route at point F via zoom climb, headed to LZ BAT and conducted multiple bounces as the lead and dash 2.	section towards the VR-84. Entered LAT route at point B via tactical decent, once in the LAT environment we conducted multiple SO/TO/RO and multiple tac form manuvers, exited LAT route at point F via zoom climb. headed to LZ BAT and conducted multiple bounces as the lead and dash 2 position until training complete.		
\(\alpha\) \(\begin{align*}(1) \(\alpha\) \(	Write State	Waived	No.			TOTAL TOTAL	Event Waived
)(3), (b)(6), (b)(7)c	HALLISE	Logged	No	Flight Elvis 1-2 departed KNCA @ 1500 to conduct RVL training, Flight preformed 10 RVL's and RTB	SNM was prepared but could have used more studying. SNM was knowledgeable on RVL's but there is always recomfor.	SNM was told to communicate more and clearly, SNM had minor moments of silence in the	SNM could use work but is ready for further RVL training.
		_		KNCA for full stop.	improvement.	RVL environment.	
	WENT OF THE	Logged	No	DEPARTED KABO AS A	N/A	N/A	N/A
(b)(3), (b)(6), (b)(7)c	10:00 05:40	Logged	No	DEPARTED KNCA AS A	N/A	N/A	N/A
(5)(5), (5)(6), (5)(7)	Mit and the	Logged	No	Flight departed as a single flying down the blue line to LZ Gull where we conducted 6 CALS utilizing both	Flight flown as briefed, SNM was an active member of the brief and understood the plan.	Flight flown as briefed, SNM was an active member of the brief and understood the plan.	SNM had high SA and provided accurate distance estimation,
(b)(3), (b)(6), (b)(7)c	Day to sur-	Logged	No	Flight departed as a single flying down the blue line to LZ Gull where we conducted 6 CALS utilizing both	Flight flown as briefed, snm was an active member of the brief and understood the plan.	Flight flown as briefed, snm was an active member of the brief and understood the plan.	SNM had high SA, distance estimation was accurate all night.
	NSLLL(2)-2382			C. Made delined bottl			
	NSLLL(2)-2383				- 2		
(3), (b)(6), (b)(7)c	10-21-5	Logged	No	Conducted Tail gun training in the vicinity or BT-9	in the vicinity of BT-9 IAW T&R	TG in the vicinity of BT-9 IAW	
)(3), (b)(6), (b)(7)c	100 83	Logged	No	Conducted single and section TG in the vicinity of BT-9 IAW T&R	in the vicinity of BT-9 IAW T&R	TG in the vicinity of BT-9 IAW T&R	Needs to make better STAR calls while employing the M240  Needs to work on STAR calls
(3), (b)(6), (b)(7)c	Amit Sin.	Logged	No	Conducted night system single and section Tail Gun training in the vicinity of BT-9 IAW T&R	Conducted night system single and section Tail Gun training in the vicinity of BT-9 IAW T&R	Conducted night system single and section Tail Gun training in the vicinity of BT-9 IAW T&R	
)(3), (b)(6), (b)(7)c	0.000 =	Logged	No	Conducted night system single and section Tail Gun training in the vicinity of BT-9 IAW T&R	Conducted night system single and section Tail Gun training in the vicinity of BT-9 IAW T&R	Conducted night system single and section Tail Gun training in the vicinity of BT-9 IAW T&R	Needs to make better STAR calls
(b)(3), (b)(6), (b)(7)c	(A17	Logged	No	flight departed MCAS New River and cunducted LAT on the VR-084 LAT route the went to LZ BAT to finish out	SUI understood all terms and the plan of the flight		Keep in the pubs. work on wing mitigation

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## UNCLASSIFIED//F<del>OR OF FICHAL USE ONL</del>Y Cpl MOORE, JACOB M - MV-22B Crew Chief Crew Performance between 1/1/2015 - 3/18/2022 Generated on 03/24/2022 1046 UTC-04:00

(b)(3), (b)(6), (b)(7)c	03/24/2022 1046	Logged	No	Departed KNCA at 1415L as a section towards the VR-84,	section towards the VR-84.	Good calls	none
4.00.4.00.4.07		Legged	No	Entered LAT route at point B via tactical desent, once in the LAT envisorment we conducted multiple SO/TO/RO and multiple tac form manuvers, exited LAT route at point F via zoom climb, headed to LZ BAT and conducted multiple bounces as the lead and dash 2. Flight conducted as briefed.	Entered LAT route at point B via tackcial disent, once in the LAT environment we conducted multiple SO/TO/RO and multiple tac form manuvers, exited LAT route at point F via zoom climb. headed to LZ BAT and conducted multiple bounces as the lead and disah 2 position until training complete.	Flight departed KNCA and	SA was high throughout the flight. Good clearing calls. Areas for improveme
(b)(3), (b)(6), (b)(7)c		Logged	NO.	riight conducted as bhered.	Execution occurred as briefed.	Fight appared KNCA and flow directly to the 042 LAT route where we conducted APUN LAT and conversion LAT to include a SO/TO/ and RO. Flight continued LAT until landing at mountain empire where we conducted a pilot hoteat. Once hoteat complete, the flight departed mountain empire and re-entered the 042 and continued LAT until the end of the route. The flight conducted a goom elimb out of the route. The flight then flow directly to LZ Bat and performed a single CAL, then proceeded back to KNCA for a full stop.	include speaking up so you can be heard and more frequent updates or obstacles in the route.
b)(3), (b)(6), (b)(7)c		Logged	No	Flight departed as a section for the VR-084 IOT conduct	N/A	SNM shows good understanding of Crew duties	N/A
				LLL LAT. Afterwards, flight	N/A	during LLL LAT.	N/A
b)(3), (b)(6), (b)(7)c		Logged	No	Flight departed as a divison of 4 for the W-122 IOT conduct Tacform. Afterwards,	N/A	SNM showed good understanding of duties during DIV TacForm	NA
(b)(6), (b)(7)c		Logged	No	Flight departed as a divison of 4 for the W-122 IOT	N/A	SNM Showed good understanding of duties during	N/A
(b)(6), (b)(7)c	120013	Logged	No	conduct Tacform. Alterwards, Flight departed KNCA and conducted initial division CALs for a full stop at YGR.	Crewchief was knowledgeable going over the T&R and was prepared ahead of time for the flight. Was visible the crewchief understood the requirements expected of him.	DIV CALs Crewchief was able to conduct 5 initial fadings and safely get the aircraft on deck. SNM was able to conduct normal duties and be active in the CAL environment.	SNM needs to work on wind mitigation, at times it was difficult to understan what was being said.
(b)(6), (b)(7)c	Trou	Logged	No	Flight took off from Moron Airbase and proceeded to NAS Rota to conduct night systems FCLPs and Division	SUI was able to understand briefed plan and ask appropriate questions concerning the flight.	SUI was able to maintain communication with all aircrew on the location of all aircraft in the flight.	N/A
(b)(3), (b)(6), (b)(7)c	(IIII)	Waived Logged	No No		Completed IAW MV-22B T&R	Completed IAW MV-22B T&R	Event Waived Completed IAW MV-22B T&R
			No	Flight departed KNCA and	Crewchief was knowledgeable	Crewchief in the LAT	Crewchief is recommended to continue with training as is.
b)(3), (b)(6), (b)(7)c		Logged	No	conducted division LAT for a full stop at YGR.	during the T&R and was prepared for the flight.		Crewing is recommended to containe with training as is.
(1)(2) (1)(2) (1)(7)		Waived Waived	No No				Event Waived Event Waived
(b)(3), (b)(6), (b)(7)c		Logged	No	Conducted GTR at the Navy DARE Range.	SNM understood the brief and plan. SNM did well in the walk through.	SNM understands the mechanics of GTR and is able to implement the techniques when presented with threats.	SNM will benefit from increased exposure to GTR. SNM should focus on the
	E (6.1)	Waived	No.				Event Waived
(b)(3), (b)(6), (b)(7)c	F. Philips	Waived Logged	No No	Departed KNCA as a single and conducted 5 FCLP landings at the LHD deck. Departed The LHD deck and conducted LAT on the VR- 084. Conducted L hour management into LZ Bat and conducted multiple CAL landings. Departed for RTB is	VR-084. Conducted L hour management into LZ Bat and	SNM showed continual progression throughout time of flight. Had clear concise calls. Made concise and timely corrective calls to the pilots.	Event Waived  SNM needs to work on being more confident in his abilities.
(b)(3), (b)(6), (b)(7)c	- V	Logged	Na	Flight took off from Moron Airbase and proceeded to NAS Rota to conduct night systems FCLPs and Division	SUI was able to understand briefed plan and ask appropriate questions concerning the flight.	SUI was able to execute clear and concise calls to the deck IOT execute a safe landing	N/A
	A Land	Logged Logged	No No	conducted IAW T&R	conducted IAW T&R Completed IAW MV-22B T&R	conducted IAW T&R Completed IAW MV-22B T&P	conducted IAW T&R Completed IAW MV-22B T&R
(b)(3), (b)(6), (b)(7)c	VIA	Logged	No	flight conducted a tactical scenario ivo moron air base	student postured well and took good notes as well as asked questions to help set himself up for the flight.	student was able to back the pilots up well and take key information from the comms passed, student was also able to reconfigure the plane to take litter bound troops, student was able to demonstrate knowledge of the mws and when to employ it and its ground capabilities	the turrile is a hard spot to be when in a tactical scenario try to help the pild with plotting on magtabs of the cms as well as back them up with with wha been passed over the comms for tasking
	(Annual)	Logged	No	Completed IAW MV-22B T&	R Completed IAW MV-22B T&R	Completed IAW MV-22B T&P	Completed IAW MV-22B T&R
						The second of th	The second secon



## UNCLASSIFIED//FOR-OFFICIAL LISE ONLY Cpl MOORE, JACOB M - MV-22B Crew Chief Crew Performance between 1/1/2015 - 3/18/2022

(b)(3), (b)(6), (b)(7)c	n 03/24/2022 1046	Logged	Yes	SNM needs to be more prepared for the mission plan. SNM was overall unorganized but still performed well. Could benefit by planning ahead and knowing what needs to get done prior to it happening.	SNM understood what was expected of him but did not seem confident with the overall situation.	SNM required more supervision from instructor and overall unorganized. SNM was good about keeping the pilots on their toes about surface winds and relaying information to jump master.	SNM would benefit from more exposure on ramp, but due to weather wasn't able to attain it. SNM needs to preop gear prior to going to the plane. Overs SNM needs to display more confidence and remember the basics.
	AD(4)-4042			nappening.			
	AD(4)-4043						
b)(3), (b)(6), (b)(7)c	AD(4)-4081	Logged	Yes	at 1840 to LZ Kite for external operations. Conducted 3 externals then departed LZ	Departed KNCA as a single at 1840 to LZ Kite for external operations. Conducted 3 externals then departed LZ Kite for RTB KNCA in time for hotseat.	Student conducted 2 externals while giving calm, precise directional calls allowing for safe operations with the load, Student did however forget a couple calls during hooking and un-	Student needs to study voice signals for external operations before the next attempt of completing this code.
(b)(6), (b)(7)c	Z318) 1	Logged	No	Departed KNCA and	Conducted preflight T&R brief and	hooking of the load. CCUI was able to safely	No Comment
(b)(6), (b)(7)c		Logged		organista NICA and proceeded down the blue line to LZ Albatross to conduct initial day single point. externals. Conducted 1 demonstration pick and five picks per student. Upon completion of external operations, departed LZ Albatross and RTB to KNCA for hotseat.	Considerate presign and internal more and perfect and pendants.	coordinate pickups with minimal input from instructor and was able to drop of load within 10 meters of desired drop off point. Student missed a few individual calls on a couple of passes but corrected each deficiency on the subsequent passes.	NO COMINUE
(b)(3), (b)(6), (b)(7)c	AD(4)-4082		- V				
(6)(3), (6)(6), (6)(7)6	AD(4)-4083	Logged	Yes	Cpl Moore attempted to complete his initial 4083X at LZ kite during a NSI check with Cpl Halovich.	Cpl Moore was well prepared for the T&R. SMM was able to be tested on his knowledge of the liights and know what the performance standards were. During the brief SNM was attentive, knew the plan, and the SOM and had zero questions.	Due to the NSI check Cpl Moore did not get to inspect the load, or conduct 5 picks. SNM standard terminology was lacing during the word vomit of the EXT calls. SNM was getting better with every pick, but would leave out key calls to ensure the plots knew the hook was clear or hooked up.	Cpl Moore only conducted 3 picks, SNM will need to be shown the load to inspect it and ensure it is safe to pick up and will need to conduct a minimum 2 more picks. I recommend SNM attempts this code again with no timeline s he can get as many picks as time allows.
	AD(4)-4084						
	AIE(4)-4140						
	AIE(4)-4141 AIE(4)-4142		-				
	AIE(4)-4143		-	-			
(b)(0) (b)(0) (b)(7)-	CLAYIA KA	Logged	No	DEPARTED KABO AS A	N/A	N/A	N/A
(b)(3), (b)(6), (b)(7)c	EATTORNE	Logged	No	DEPARTED KABO AS A	N/A	N/A	N/A
	DWS(4)-4240	100					
	DWS(4)-4241			1			
	DWS(4)-4242	_					
	DWS(4)-4243 DWS(4)-4244	-					
-	DWS(4)-4245	-		-			
	DCM(4)-4340						
	CBRN(4)-4430			- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	CBRN(4)-4431						
(b)(6), (b)(7)c	o dian	Logged	No	Flight departed KNCA and transited to the USS Wasp for 1 and a half hours of CO landings. Flight then RTB to KNCA for full stop.	SNM was knowledgeable on carrier operations and had very good discussion topics prior to the flight.	SNM was able to conduct clear, precise and safe calls. Was capable of maintaining composure and was overall a good crew member.	Work on wind mitigation.
	CQ(4)-4481						
	CQ(4)-4482						
	CQ(4)-4483						
	SEA(4)-4540 RVE(4)-4580		+	+			
	ADGR(4)-4640			11.			
			-				
	BI(4)-4740						
	BI(4)-4741						
(b)(3), (b)(6), (b)(7)c		Logged	No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM	SNM made sure to appropriately T&R his student before flight, explain expectations for flight, and ensure any questions the student had were answered prior to flight,	importance of pre-oping the anchor cable. Also making sure there would be a clear	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	BI(4)-4741	Logged	No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	BI(4)-4741 AD(4)-4840 FRSCCI(5)-5140		No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	BI(4)-4741 AD(4)-4840 FRSCCI(5)-5140 FRSCCI(5)-5141		No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	BK4)-4741 AD(4)-4840 FRSCCK(5)-5140 FRSCCK(5)-5141		No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCCI(5)-5140 FRSCCI(5)-5141 FRSCCI(5)-5142 FRSCCI(5)-5142		No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	BK4)-4741 AD(4)-4840 FRSCCK5)-5140 FRSCCK5)-5142 FRSCCK5)-5142 TGK5)-5430		No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCC(5)-5140 FRSCC(5)-5141 FRSCC(5)-5142 TG(5)-5432 TG(5)-5432		No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	BK(4)-4741 AD(4)-4840 FRSCCK(5)-5141 FRSCCK(5)-5141 FRSCCK(5)-5142 TGK(5)-5431 TGK(5)-5432 TGK(5)-5432		No No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCK(5)-5140 FRSCK(5)-5140 FRSCCK(5)-5141 FRSCCK(5)-5141 TGK(5)-5432 TGK(5)-5432 TGK(5)-5432		No No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	BK(4)-4741 AD(4)-4840 FRSCCK(5)-5140 FRSCCK(5)-5143 TGK(5)-5430 TGK(5)-5432 TGK(5)-5433 TGK(5)-5433 TGK(5)-5433		No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCCK5-5140 FRSCCK5-5141 FRSCCK5-5141 FRSCCK5-5141 FRSCCK9-5143 TGK5-5430 TGK5-5431 TGK5-5433 TGK5-5433 TGK5-5434 TGK5-5434		No No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCCK5-5140 FRSCCK5-5140 FRSCCK5-5140 FRSCCK5-5141 FRSCCK5-5141 TGK5-5431 TGK5-5432 TGK5-5434 TGK5-5435 TGK5-5436 TGK5-5436		No No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCC(§)-S140 FRSCC(§)-S140 FRSCC(§)-S141 FRSCC(§)-S141 FRSCC(§)-S141 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430 TG(§)-S430		No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCC(§)-5140 FRSCC(§)-5140 FRSCC(§)-5147 FRSCC(§)-5147 FRSCC(§)-5147 TG(§)-5430 TG(§)-5		No No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCCK(5)-5140 FRSCCK(5)-5141 FRSCCK(5)-5145 FRSCCK(5)-5145 FRSCCK(5)-5145 TGK(5)-5436 TGK(5)-5436 TGK(5)-5436 TGK(5)-5436 DWSK(5)-5436		No No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCC(5)-5140 FRSCC(5)-5140 FRSCC(5)-5141 FRSCC(5)-5142 TG(5)-5432 TG(5)-5432 TG(5)-5432 TG(5)-5432 TG(5)-5432 TG(5)-5433 LAT(5)-5533 LAT(5)-5530 LAT(5)-5530		No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designations
(b)(3), (b)(6), (b)(7)c	FRSCCK(5)-5140 FRSCCK(5)-5141 FRSCCK(5)-5145 FRSCCK(5)-5145 FRSCCK(5)-5145 TGK(5)-5436 TGK(5)-5436 TGK(5)-5436 TGK(5)-5436 DWSK(5)-5436		No No	towards LERT. Once at LERT SNM took his student to conduct a face to face brief with jumpmaster prior to conducting para ops. SNM ensure jumpers were	T&R his student before flight, explain expectations for flight, and ensure any questions the student	properly set up the cabin, making sure to stress the importance of pre-oping the anchor cable. Also making sure there would be a clear path for jumpers to exit the	SNM is highly recommended for BICC and follow on instructor designation

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#### UNCLASSIFIED//FOR-OFFICIAL-USE-ONLY Cpl MOORE, JACOB M - MV-22B Crew Chief Crew Performance between 1/1/2015 - 3/18/2022 Generated on 03/24/2022 1046 UTC-04:00

	DCMI(5)-5832						
	NS(5)-5931	1					
	NS(5)-5933	l					
	NS(5)-5934		_				
	NS(5)-5935	-	-				
	NTPS(6)-6030		_				
	NTPS(6)-6031						
	NTPS(6)-6032	-					
(b)(2) (b)(6) (b)(7)a	1111 0(0) 0002	Logged	No	FCF A-card acceptance for	FCF A-card. Solid CRM review	Nr sensor mismatch, failed	Strong SA
(b)(3), (b)(6), (b)(7)c		Logged	No	a/c 07.	POP A-card, Solid Chiw review	GPS, EAPS functional failure	Silving SA
b)(3), (b)(6), (b)(7)c	PECTAL .	Logged	No		Student was instructed on the review of Emergency Procedures.	Student satisfactorily completed the Emergency Procedure Review in flight while retaining high S/A.	Student needs to review step 19 procedures for future flights to be comfortat in the cockpit on start up.
	CRM(6)-6080					Thin to take using ranger carrie	
	CRM(6)-6091						
	0045	Logged	No	Conducted single and section	Conducted single and section TG	Conducted single and section	Needs to work on making better STAR calls while employing the M240
(b)(6), (b)(7)c		- 55			in the vicinity of BT-9 IAW T&R	TG in the vicinity of BT-9 IAW	The second secon
(5)(0), (5)(1)5	1=3000110110	Logged	No		Conducted night system single and section Tail Gun training in the vicinity of BT-9 IAW T&R	Conducted night system single and section Tail Gun training in the vicinity of BT-9 IAW T&R	Needs to work on making better STAR calls
	GAU-16(6)-6250						
	GAU-16(6)-6251		11 11 11 11				
(b)(3), (b)(6), (b)(7)c	es unique	Logged	No	Departed LEMO as a section out over international waters to conduct 50 caliber tail gunnery.	SNM was able to talk through T&R intelligently.	SNM was able to effectively employ weapon system and lay down some freedom.	Recommend SNM continues with syllabus to learn the ways of the GAU.
	GAU-21(6)-6351						
	TRK(6)-6700						
b)(3), (b)(6), (b)(7)c	AVI TE	Logged	No	Departed KNCA@ 1500 for RVL training, Conducted 10	SNM was knowledgeable on RVL's.	SNM was told they could work on communication in RVL	Could use work on communication and mitigation.
(1) (2) (1) (2) (1) (2)				RVL landings then RTB	100	conditions.	
(b)(3), (b)(6), (b)(7)c	(A) (10 (10 (10 (10 (10 (10 (10 (10 (10 (10	Logged	No	DEPARTED KABO AS A	N/A	N/A	N/A

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Page 4 of 4

#### UNCLASSIFIED//FOR OFFICIAL-USE ONLY

#### Event Proficiency VMM-261 - MV-22B Crew Chief

Generated on 05/10/2022 1101 UTC-04:00

Days Until Expired as of 05/10/2022 >= 90 Days 60-89 Days 30-59 Days < 30 Days Expired
"W" indicates Waived, "D" indicates Deferred

		Familiarizat	ion (FAM(2))		Confined Area La	andings (CAL(2))		
	ACAD: Reference Publications	ACAD: Air to Air Refueling	LAB: Msn Aux Tank System	LAB: Cargo Loading	CAL: Single CAL	CAL: Section CAL	ACAD: LAT for EAC	ACAD: TAC Aircrew Considerations
	2012	2013	2020	2027	2240	2242	2610	2611
Permanent								
Cpl MOORE, JACOB M.	No Refly	No Refly	No Refly	No Refly	No Flefly	03/17/2023	No Retly	No Refly

Low	Altitude Tactics (LA	AT(2))			Air Logistics	Support (ALS(3))	Requir	rement, Qualification	on, Designation (	RQD(6))
LAB: LAT Walk Through	LAT: LAT Maneuvers / Rte	LAT: Section LAT	NS LAT: HLL Section LAT	NS LAT: LLL Section LAT	ACAD: Six Functions	ALS: ALS Msn	NATOPS Open Book	NATOPS Closed Book	NATOPS Oral Exam	NATOPS Eval
2620	2640	2641	2642	2643	3011	3040	6010	6011	6012	6030

07/06/2022

Emergency Procedures (EP(6))	Crew Resource Management (CRM(6))		
6033	CRM Refresher	CRM Eval	
6033	6070	6080	

05/02/2022	01/31/2023	02/28/2023
------------	------------	------------

#### V. ANI-261 NATOPS AUDIT SILET

NAME: SPEEDY

DATE: 6 JUNZI AUDITOR:

(b)(3), (b)(6), (b)(7)c

 $\kappa 1 \kappa$ 

#### SECTION I - GENERAL

PRIVACY ACT STATEMENT - SIGNED AND DATED - RECORD OF DISCLOSURE

#### PART A

6 NATOPS HAGHT PERSONNIA TRAINING QUAI IFICATION JACKET REVIEW AND CERTIFICATION RECORD (3760-32A)

© REVIEWED & CERTIFIED - REPORTING ANDALLY HANGE IN FLIGHT STATUS

#### PARTB

- 6 PILOTS ONLY MOST CURRENT PCS (DIFOP) ORDI RS
- 4 ENLISTED AIRCREW VOLUNTARY FLIGHT STATUS LETTERS
- ♠ LETTERS OF SUSPENSION [REVOCATION PERMANENTLY RETAINED]

#### PARTC

- MOST RECENT ANNUAL FLIGHT PHYSICAL CHIT (6410 2)を行る。を対するようにより
- & ALL GROUNDING AND SUBSEQUENT UP CHITS SINCE ANNUAL

#### PART D

A FLIGHT I QUIPMENT RECORDS CS (DIFOP) ORDER (3760-32B) (1.344-37), makes 2022 (1.345-37)

#### SECTION II - QUALIFICATIONS AND ACHIEVEMENTS

#### PARTA

- PERMANLN'T RECORD OF ALL FUNCTIONAL DESIGNATIONS 63760/32C0 (Abby a regard to a constitute of the c
- A RETH N HON OF DESIGNATION LETTERS FOR ALL DESIGNATIONS 6769-32CO Institute of the Proceedings of Section (Spiker).

#### PARTIB

- A PERMANENT RECORD OF ALL QUALIFICATIONS NOT INCLUDED IN PART A
- 6 RETENTION OF DESIGNATION FEITERS FOR ALL QUALIFICATIONS 03700/32CO A design of a 33 Control of the 12 of the 25 of the 35

#### PARTC

6 PERMANENT RECORD OF CRM TRAINING AND FLIGHTS

#### SECTION III - TRAINING

#### PARTA

- & COPY OF MIT TRAINING COMMAND. FRS SUMMARIES SINCE 01 JAN 88

#### PARTB

- 4 PERMANI NERI CORD OF ALL SURVIVAL TRAINING 03760-32F
- § NITE LAB TRAINING DOCUMENTATION
- & ANNUALA GRESS TRAINING DOCUMENTATION (3769-32F)
  THE TRANSPORT OF THE ACTION OF CONTRACT (ACTION).

#### PARTC

δ - ALL EXAMS PERTINENT TO AVIATION QUALIFICATIONS

1986. [1] (金字) 大建筑 5 医多头神经软皮 (大) (Book 1997. [1] (Book 1986. **) (Book** 1987. [1] (Book 1987.

#### PART D

ALL NATOPS FAMILATION RECORDS 6710 70 的过去式和过去分词 and a required by the description of the form of the control of the contro

#### PART E

a ALL INSTRUMENT RATING REQUESTS 07 to 25

There's a regular point of the applicate arms together and a little for a research with the

#### SECTION IV - FLIGHT RECORDS

#### PART A

6 Exemply sold Hills

#### PART B

PERMANEN I RECORD OF ALL AIRCRAFT MISHAPS HIGHT VIOLATIONS INVOLVING AN AIRCREW CAUSAL FACTOR. AND FNALB RUSLIES. FNAEB I N'IRY SHALL CONTAIN: ENTRIES AUTHORIZED BY PARAGRAPH 40.5.2.8. DATE OF THE FNAEB. AND CO COMMUNTS, CO MAY NOT DELEGATE THIS RESPONSIBILITY 63760/321b.

ENCLOSURE (13

### NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

SECTION IA - REVIEW AND CERTIFICATION RECORD	
NAME (Last, first, middle initial)	SSN

- 1. This jacket shall be reviewed by the Commanding Officer or a designated representative as follows:
  - a. Upon reporting to a unit.
  - b. Annually, within 30 days of birthday.
  - c. Upon change in flying status.
- 2. This jacket shall be certified by the Commanding Officer or a designated representative upon detachment of the individual.

		RECORD	S OF REVIEW		
DATE		DATE	SIGNATURE	DATE	SIGNATURE
6JUNZ1	(b)(3), (b)(6), (b)(7)c				
			***		
			-		
		DETACHMENT	CERTIFICATION		
UNIT	DATE	SIGNATURE	UNIT	DATE	SIGNATURE
<del></del>					

ENCLOSURE (13

OPNAV 3760/32A (APR 1981)







# UNITED STATES MARINE CORPS MARINE MEDIUM TILTROTOR SQUADRON 261 MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF POSTAL SERVICE CENTER BOX 21016 JACKSONVILLE, NC 28545-1016

3710 DSSN 4 Nov 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Gunnery Sergeant James W. Speedy 1385011012/0111 USMC

Subj: DAY LOW ALTITUDE TACTICS QUALIFICATION

Ref: (a) NAVMC 3500.11F

(b) NAVMC 3500.14E (c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Day Low Altitude Tactics qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c







#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

3710 DSSN 24 Jun 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Gunnery Sergeant James W. Speedy 1385011012/0111 USMC

Subj: M240D QUALIFICATION

Ref: (a) NAVMC 3500.14 Aviation Training and Readiness Program

Manual

(b) NAVMC 3500.11 MV-22B Training and Readiness

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby M240D qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c







# UNITED STATES MARINE CORPS MARINE MEDIUM TILTROTOR SQUADRON 261 MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF POSTAL SERVICE CENTER BOX 21016 JACKSONVILLE, NC 28545-1016

3500 DSSN 06 Sep 21

From:

Commanding Officer, Marine Medium Tiltrotor Squadron 261

To:

Gunnery Sergeant James W. Speedy 1385011012/0111 USMC

Subi

NIGHT SYSTEMS LOW LIGHT LEVEL QUALIFICATION

Ref:

(a) NAVMC 3500.14 Aviation Training and Readiness Program

Manual

(b) NAVMC 3500.11 MV-22B Training and Readiness Manual

(c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems Low Light Level qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c







#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

3500 DSSN 24 Jun 21

From:

Commanding Officer, Marine Medium Tiltrotor Squadron 261

To:

Gunnery Sergeant James W. Speedy 1385011012/0111 USMC

Subj:

DAY TAIL GUNNERY QUALIFICATION

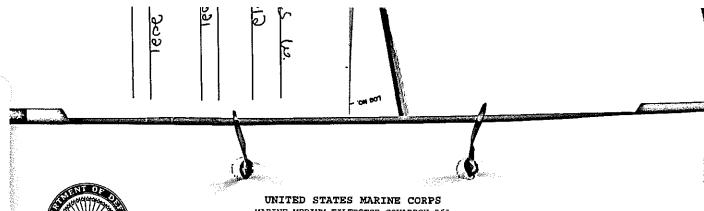
Ref:

- (a) NAVMC 3500.14 Aviation Training and Readiness Program Manual
- (b) NAVMC 3500.11 MV-22B Training and Readiness Manual
- (c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual
- 1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Day Tail Gunnery qualified.
- 2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR NATOPS Logbook Entry M-SHARP

ATRIMS TRANSFER 3





MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

3500 DSSN 17 May 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261
To: Gunnery Sergeant James W. Speedy 1385011012/0111 USMC

Subj: NIGHT SYSTEMS HIGH LIGHT LEVEL QUALIFICATION

Ref: (a) NAVMC 3500.14 Aviation Training and Readiness Program Manual

(b) NAVMC 3500.11 MV-22B Training and Readiness Manual

(c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems High Light Level qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c



#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 1326 S-3 21 Sep 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Designated Personnel

Subj: ASSIGNMENT OF TEMPORARY-INDEFINITE NON-CREWMEMBER FLIGHT

ORDERS

Ref: (a) MCO 1326.2H

(b) WgO 1326.5B

(c) SqdnO 1326.1G

Encl: (1) VMM-261 Non-Crewmember Personnel Roster

- 1. Per the references, you are hereby ordered to duty in a flying status involving flights as a non-crewmember (MV-22B Aerial Observer). These orders are effective 1 October 2021 and will terminate on 30 September 2022.
- 2. If during this period you are discharged and reenlist at this station without a break in active service, this order will remain in effect for the period specified herein.
- 3. You are hereby notified that these flight orders and your flight status as per paragraph 1, above, will be terminated as of 30 September 2022 unless subsequently renewed.
- 4. These orders will be automatically revoked upon transfer from this unit.

(b)(3), (b)(6), (b)(7)c

## VMM-\( \sum \) NON-CREWMEMBER PERSONN\( \sum \) ROSTER

RANK LAST	NAME	FIRST NAME	MI EDIPI
	(b)(3), (b	)(6), (b)(7)c	
NSSGT   SP.	EEDY	JAMES "	W 1385011012.
	(b)(3), (b)	(6), (b)(7)c	



MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

1326 S-3 3 Dec 20

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Staff Sergeant James W. Speedy 1385011012/0111 USMC

Subj: ASSIGNMENT OF TEMPORARY-INDEFINITE NON-CREWMEMBER FLIGHT

ORDERS

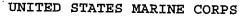
Ref: (a) MCO 1326.2H

(b) WgO 1326.5B

(c) SqdnO 1326.1G

- 1. Per the references, you are hereby ordered to duty in a flying status involving flights as a non-crewmember (MV-22B Aerial Observer). These orders are effective beginning 3 December 2020 and will terminate on 30 September 2021.
- 2. If during this period you are discharged and reenlist at this station without a break in active service, this order will remain in effect for the period specified herein.
- 3. You are hereby notified that these flight orders and your flight status as per paragraph 1, above, will be terminated as of 30 September 2021 unless subsequently renewed.
- 4. These orders will be automatically revoked upon transfer from this unit.

(b)(3), (b)(6), (b)(7)c





MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 1336 S-3 2 Dec 20

From: Staff Sergeant James W. Speedy 1385011012/0111 USMC

To: Commanding Officer, Marine Medium Tiltrotor Squadron 261

Subj: VOLUNTEER FOR DUTY INVOLVING FLYING

Ref: (a) MCO 1326.2H

(b) CNAF M-3710.7

1. I hereby volunteer and request orders for duty involving flying. I certify that this request is made of my own volition. This request is not based in any part on promises of special treatment or favors and is made free from duress of any kind. I understand that I must maintain those qualifications specified by the Chief of Naval Operations and the Commandant of the Marine Corps during the periods I am actively assigned to such duties. This agreement shall remain valid until such time as I rescind this agreement or that I am no longer qualified for such duties.

J. W. SPEEDY

MEDICAL RECOMMENDATI (Read Privacy Act State	ON FOR FI	YING OR SPECIAL (	OPERATIONAL mpleling form.)	DUTY			
1. TO:	2. FROM:			3. DATE (YYYYMMDD)			
Commanding Officer: VMM-261	Flight Surg	geon: MCAS NEW RIV	ER	20220215			
4. MEMBER NAME (Last, First, Middle Initial)	5. IDENTIFI	CATION NUMBER	6. GRADE	7. DATE OF BIRTH (YYYYMMDD)			
SPEEDY, JAMES W.		1385011012	GYSGT/E-7	19910609			
8. ORGANIZATION	9. TYPE OF	DUTY	10. FLIGHT PHYS	ICAL DATE (YYYYMMDD)			
USMC	1	DIF AC/RW		20220215			
11. UP: THE ABOVE INDIVIDUAL HAS BEEN FOUND QUALIFIED BY MEDICAL AUTHORITY.							
a. X one:  X CLEARED AFTER (X): Temporary medical disqualification Waiver recommended (Not USAF) Aircraft mishap  Reporting to new duty station Waiver granted Other (See remarks)  X CLEARED AFTER FLIGHT DUTY MEDICAL EXAMINATION:							
b. EFFECTIVE DATE (YYYYMMDD)		c. EXPIRATION DATE	(YYYYMMDD)	V,			
20220215			20220630				
12. DOWN: THE ABOVE INDIVIDUAL HAS BEEN I	FOUND DISC	QUALIFIED BY MEDICA	AL AUTHORITY.				
a. X one:  TEMPORARY DISQUALIFICATION DUE TO (X):  MAY PARTICIPATE IN (X):  Simulator du  PERMANENT DISQUALIFICATION	Illness o	er Injury Alrcral	ft mishap ht line duties	Other (See remarks) Other (See remarks)			
b. EFFECTIVE DATE (YYYYMMDD)		c. ESTIMATED DURAT	TION OF GROUNDIN	lG.			
·							
	13. REMARKS/LIMITATIONS  X VISION CORRECTION DEVICES REQUIRED IN THE PERFORMANCE OF FLIGHT DUTIES.  X MUST CARRY EXTRA SPECTACLES.						
14. (X one): X FLIGHT SURGEON OTHER (Co		and de Aren and a					
a. TYPED NAME (Last, First, Middle Initial)	b. GRADE	equired for Air Force and Nevy	7_72	d. DATE SIGNED			
			o)(6), (b)(7)c	(YYYYMMDD)			
(b)(3), (b)(6), (b)(7)c  e. TYPED NAME (Lest, First, Middle Initial)	If. GRADE	g. FLIGHT SURFEEO		20220215			
(each, Fro, midde middy	1. 01000	g. I'clony agreed	V COUNTERSIGNA!	(YYYYMMDD)			
15. MEMBER CERTIFICATION							
a. I certify that I understand the above recommendations ar	nd that I:	b. AIRCREW MEMBER'S	IGNATURE	c. DATE SIGNED (YYYYMMDD)			
X MAY NOT perform flight duties.							
16. ACTION TAKEN BY COMMANDER (Not required for Air F	orce and Navy)	APPROVE	DI	SAPPROVE			
a. TYPED NAME (Last, First, Middle Initial) b. TITLE		c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)			
DD FORM 2992, JAN 2015 REPLACES DA FORI		RM 1042, AND NAVMED FORM CH ARE OBSOLETE.	/IS 6410/1 AND 6410/2,	Adobe Designer 9.0			

ENCLOSURE (13)

### NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET

SECTION IIA - FLIGHT PERSONNEL DESIGNATION RECORD  NAME (Last, first, middle initial)						
NAME (Last, first, middle initial)						
DATE	DESIGNATION	MODEL	UNIT	PROMULGATION BY	VERIFIED	
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ENCLOSURE (13)

# NATOPS FLIGHT PERSONNEL TRAINING/QUALIFICATION JACKET OPNAV 3760/32D (4-90) S/N 0107-LF-009-7500

### SECTION IIB - MISSION QUALIFICATION RECORD

NAME (Last, first, m	NAME (Last, first, middle initial)  SSN						
EFFECTIVE DATE	TYPE AIRCRAFT	MISSION QUALIFICATION	UNIT	REMARKS			
17MAYZI	MV-22B	HU	VMM-281				
24 Juny 21	MV-22B	DAY TG	VMM-261 4	(b)(3), (b)(6), (b)(7)c			
06 SEP 21	MN-228	LLL	VMM-ZLI				
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MARINE MEDIUM TILTROTOR SQUADRON 261 MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF POSTAL SERVICE CENTER BOX 21016 JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 3500 DSSN 06 Sep 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261 To:

Gunnery Sergeant James W. Speedy 1385011012/0111 USMC

Subj: NIGHT SYSTEMS LOW LIGHT LEVEL QUALIFICATION

Ref: (a) NAVMC 3500.14 Aviation Training and Readiness Program Manual

(b) NAVMC 3500.11 MV-22B Training and Readiness Manual

(c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems Low Light Level qualified.

This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to: Operations/APR NATOPS Logbook Entry M-SHARP



MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 3500 DSSN 24 Jun 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261 To: Gunnery Sergeant James W. Speedy 1385011012/0111 USMC

Subj: DAY TAIL GUNNERY QUALIFICATION

Ref: (a) NAVMC 3500.14 Aviation Training and Readiness Program

(b) NAVMC 3500.11 MV-22B Training and Readiness Manual

(c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Day Tail Gunnery qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent qorrespondence.

(b)(3), (b)(6), (b)(7)c

Copy to:
Operations/APR
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MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE, NC 28545-1016

IN REPLY REFER TO: 3500 DSSN 17 May 21

From: Commanding Officer, Marine Medium Tiltrotor Squadron 261

To: Gunnery Sergeant James W. Speedy 1385011012/0111 USMC

Subj: NIGHT SYSTEMS HIGH LIGHT LEVEL QUALIFICATION

Ref: (a) NAVMC 3500.14 Aviation Training and Readiness Program Manual

(b) NAVMC 3500.11 MV-22B Training and Readiness Manual

(c) A1-V22AB-NFM-000 MV-22B NATOPS Flight Manual

1. Per the references, and having demonstrated the knowledge, proficiency, and capabilities in the MV-22B tiltrotor, you are hereby Night Systems High Light Level qualified.

2. This letter will be maintained in your NATOPS Jacket until superseded or cancelled by subsequent correspondence.

(b)(3), (b)(6), (b)(7)c

Copy to:
Operations/APR
NATOPS
Logbook Entry
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CNAFINST 1542.7(Series)
2 MAY 2016

### **CRM TRAINING & EVALUATION RECORD**

1. NAME (Last, first, middle initial):		2. RANK:	3, EDIPI NUMBER:
Note: This form shall be permanent	ly maintained in th	ıe NATOPS Flight Pers	I sonnel Training/Qualification Jacket (Section II, Part C).
CRM IMM Instructor Course	l. Date:	5, L	ocation:
	CRN	I FACILITATOR TRA	AINING
		T Z LINIT	8 DATE

6. T/M AIRCRAFT	7. UNIT	8. DATE

### GROUND TRAINING / FLIGHT EVALUATIONS

Note: Valid for 12 months from the last day of the month in which training/evaluation was completed.

Note: Renewal flight evaluations may be completed within 60 days preceding the expiration of the current qualification.

9. T/M AIRCRAFT	10. UNIT	11, GROUND/ FLIGHT	12, INITIAL / RENEWAL	13. DATE COMPLETED	14. EXPIRATION DAT
MVZZ	VMMZ61	6	エ	28 AUGZ0	31AU621
MV 2ZB	1MW561	G	R	31 AUGZ1	31 Aug 22
MASSE	261	<u> </u>	R	4 JAN22	31 JAN23
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### **EXTENSIONS**

15. T/M AIRCRAFT	16. UNIT	17. GROUND/ FLIGHT	18. AUTHORITY	19. EXPIRATION DATE

(REV 3/2016)

Enclosure (3)



### VMM-261 TRAINING ROSTER



Topic: <u>CRM ANDERS</u>

Date: <u>1/4/22</u>

Instructor: (b)(3), (b)(6), (b)(7)c

	Last Name, Fl. Ml.		Rank	Signature	9	
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## VMM-261 CRM

Topic:	Annual Crew Resource Management
Date:	31 August 2021

Instructor: \_\_\_\_\_ (b)(3), (b)(6), (b)(7)c

	Last Name, Fl. Ml.	Rank	Signature
1	Speedy, James W	(b)(6), (b)(7)c	
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Class:	lass: Annual CRM Ground Training					
Date:	28 Aug 2020					
Instruc	ctor: (b)(3), (b)(6), (b)(7)c					



Last Name, FI	Rank	Last Name, Fl	Rank
Speed of James	3.5g+		
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SECTION IIIB - OPERATIONAL PHYSIOLOGY & SURVIVAL TRAINING SSN NAME (Last, first, middle initial) RANK/RATE SPEEDY TYPE OF TRAINING LAND SURVIVAL DWEST, **AVIATION EMERGENCY** WATER **COURSE CATEGORY** SERE **PHYSIOLOGY** SURVIVAL **EGRESS** NITE Lab Training GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT (NDOO/REF Z4NOVZC Other: SIGNATURE SIGNATURE SIGNATURE System: AN/AW-9 (b)(3), (b)(6), (b)(7)c (b)(2)Low, (b)(6), (b)(7)c Annual Aeromed Training GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT AABU SENCLASCHYD (HEINVD SIGNATURE SIGNATURE SIGNATURE SIGNÁTURE Radios / Other: \_ (b)(6), (b)(7)c, (b)(3), (b)(7)c Annual Aeromed Training GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT GRADE UNIT DATE Mireboold May (SENICASIHYP (HEDINARD SIGNATURE SIGNATURE SIGNATURE (b)(3), (b)(6), (b)(7)cGRADEIUNIT GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT SIGNATURE SIGNATURE SIGNATURE SIGNATURE DATE GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT SIGNATURE SIGNATURE . SIGNATURE SIGNATURE DATE GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT SIGNATURE SIGNATURE SIGNATURE SIGNATURE DATE GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT DATE GRADE UNIT SIGNATURE SIGNATURE SIGNATURE SIGNATURE GRADE UNIT DATE GRADE UNIT DATE DATE GRADE UNIT! DATE GRADE UNIT SIGNATURE SIGNATURE SIGNATURE SIGNATURE TRAINING ACTIVITIES 8. Barbers Point, HI 15. Brunswick, ME 1. Pensacola, FL 9. Cecil Field, FL 16. FASOTRAGRUPAC 2. Miramar, CA 3. Norfolk, VA 10. Cherry Point, NC 17. FASOTRAGRULANT 18, MCAS New River, NC 11. Whidbey Island, WA 4. Corpus Christi, TX 19. Okinawa 5. Lemoore, CA 12. Beaufort, SC 20. Other (List) 6. El Toro, CA 13. Point Mugu, CA 14. Patuxent River, MD 21. 7. Jacksonville, FL

#### DEPARTMENT OF THE NAVY

NAVY MEDICINE OPERATIONAL TRAINING CENTER NAVAL SURVIVAL TRAINING INSTITUTE DETACHMENT 340 HULSE ROAD PENSACOLA FL 32508-1089

> IN REPLY REFER TO 3760 24 Nov 2020

From: Officer in Charge, Naval Survival Training Institute

To: STAFF SERGEANT JAMES SPEEDY

Subj: NASTP TRAINING QUALIFICATION LETTER

Ref: (a) CNAF M-3710.7

1. In accordance with reference (a), STAFF SERGEANT JAMES SPEEDY has received AC INDOC CLASS 3 on 29 Oct 2020 at Aviation Survival Training Center CHERRY POINT.

2. STAFF SERGEANT JAMES SPEEDY received a grade of Q. All required modules were completed.

Dynamic training elements were conducted for the following modules:

#### HYPOXIA LABORATORY C6

- 3. This qualification expires on 31 Oct 2024 unless additional conditions listed in reference (a) chapter 8, paragraph 8.4 apply.
- 4. This qualification applies to the following aircrafts only:

Class 3: AH-1, H-3, H-46, H-53, H-60, H-72, H-92, OH-58C, TH-57, UH-1, V-22

(b)(6), (b)(7)c

By direction

NAME Speedy, James W.
FILE OR SERIAL NO. 1385011013
DESIGNATION: NO. USINC DATE FEB 2021
LOG NO. 1 FROM FEB 2001

IF FOUND, PLEASE RETURN TO

CHIEF OF HAVAL OPERATIONS

MAVY DEPARTMENT

WASHINGTON, D.C. 20150

OPHAY FORM 3760-31 REV. 14-651

1

### qualifications and achievements

(e. g. instrument card, patrol plane commander, aircraft type, CarQual, etc.)

(To be signed by Commanding Officer or authorized deputy)

<u></u>	T	CIONATURE
QUALIFICATION	DATE	SIGNATURE
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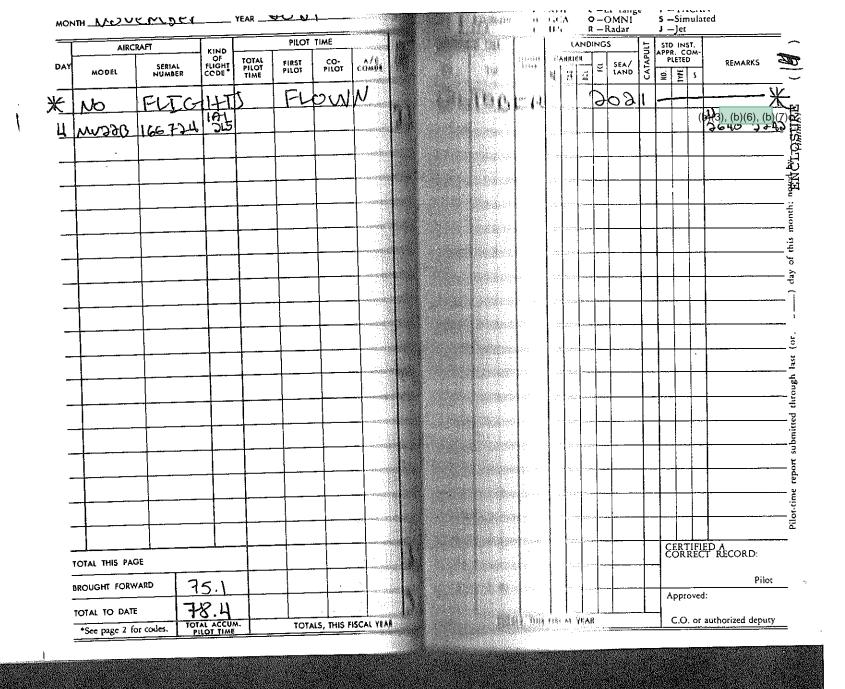
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#### qualifications and achievements

Instrument card, patrol plane commander, aircraft type, CarQual, etc.

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#### UNCLASSIFIED//FOR-OFFICIAL-USE-ONLY

### `.og Book for GySgt SPEEDY, JAMES 2/1/2015 - 2/28/2022

Generated on 03/24/2022 1033 UTC-04:00

Date	e Range T	otals				Hours					T&R			ļ
	TMS	Device	Туре	TPT	SCT	NIGHT	HLL	LLL	T&R 1	T&R 2	T&R 3	T&R 4	T&R 5	NAVFLIR
Totals					78.4	21.7	11.8	9.3						
2/25/2021	MV-22B	166484	Aircraft		4				2040	2240				H4TQYNU
3/25/2021	MV-22B	168228	Aircraft		3.3				2240					<u>UKBF5WI</u>
3/30/2021	MV-22B	168228	Aircraft		4.3				2242					IIL7EK7
4/5/2021	MV-228	166687	Aircraft		3.3				2242					JPHP0WG
4/13/2021	MV-228	168622	Aircraft		2.3				2242					3FMBYOH
5/7/2021	MV-22B	167913	Aircraft		2.8				2242					V7L6R9E
5/11/2021	MV-22B	168673	Aircraft		3.3				2242					F1SAR59
5/17/2021	MV-22B	166687	Aircraft		2.6	2.6	2.6		2340	2341			1	ZIIMEIK
5/24/2021	MV-22B	166687	Aircraft		3	3	3		2340					VC8NXE5
5/27/2021	MV-22B	167913	Aircraft		4				2780	2781	3040	6033		<u>U24UI20</u>
6/2/2021	MV-228	166687	Aircraft		4	0.1			2240					5QH8R7B
6/17/2021	MV-228	166687	Aircraft		4				2242					QUQTF2A
6/24/2021	MV-22B	168673	Aircraft		4				2242	2540	2541	6150	2140	0D5B5O4
7/1/2021	MV-22B	168228	Aircraft		3.3	3.3		3.3	2380	2381				6ZZGD0W
7/5/2021	MV-22B	168673	Aircraft		3.8				2242	2282				1KOKO3K
7/16/2021	MV-22B	168622	Aircraft		3.5	3.5	3.5		2340	6033				0K32SN0
8/16/2021	MV-22B	167913	Aircraft		3.5				2242	2282				SMQ8LOX
8/30/2021	MV-22B	167913	Aircraft		3.7				2242	6033				IWW83K5
9/6/2021	MV-22B	168622	Aircraft		3.5	3		3	2382	2383				13JUS1B
9/7/2021	MV-22B	168228	Aircraft		3.2	3.2	0.2	3	2383					1GZKMO1
9/15/2021	MV-22B	167913	Aircraft		2.7				2242					QRWYH39
9/20/2021	MV-22B	166687	Aircraft		3	3	2.5		2782	6033				EJHS8XL
11/4/2021	MV-22B	166724	Aircraft		3.3				2640	2242	2641			STYCDAS

Career	Totals	Hours							
	TMS	TPT	SCT	NIGHT	HLL	LLL			
Totals	All		78.4	21.7	11.B	9.3			
	MV-22B		78.4	21.7	11.8	9.3			

#### UNCLASSIFIED//FOR-OFFICIAL USE ONLY

# GySgt SPEEDY, JAMES W - MV-22B Aerial Observer/Gunner Crew Performance between 1/1/2015 - 3/18/2022 Generated on 03/24/2022 1045 UTC-04-00

Instructor Name	Event	Method	Needs Additional	Overview	Plan/Brief	Execution	Instructor Comments
and the same of th	5,510		Training				THE PART OF THE PA
	THE SHA	Logged	No	Departed KNCA at 1230L as		Conducted IAW T&R	Conducted IAW T&R Recommend continue with syllabus
(h)(2) (h)(6) (h)(7)	pell' con	Logged	No	Conducted IAW T&R	Conducted IAW T&R Conducted IAW T&R	Conducted IAW T&R Conducted IAW T&R	Conducted IAW T&R
(b)(3), (b)(6), (b)(7)c		Logged	No No	Departed KNCA at 1230L as Flight departed LEMO to conduct section tanking off the southern coast of Spain. Following the successful join up and AR with the tanker we	CONDUCTED IAW T&R	CONDUCTED IAW T&R	SMM was attentive with tracking -2 and keeping the pilots informed on their position. SMM has improved in the course of a few flights to where he is comefloatible and proficient at performing call fandings without strict supervision. SMM is still very new and should continue to fly to improve skill and proficient other areas.
(b)(3), (b)(6), (b)(7)c		Waived Logged	No No	outlaw 1-1 flight departed moron afb at 1800L and preformed section rvls law mv22 t&r.	Student was attentive during brief and posed good questions to set himself up for success in the zone.	Student preformed calls to the deck in rvl conditions to a reasonable margin of error and required little input from the instructor to preform his duties. Student is fully capable of executing section rvls on his own with a proficient crew.	Instructed student how to keep ground reference in rvl conditions
b)(3), (b)(6), (b)(7)c	-11-21	Logged	No	Conducted numerous single ship HLL CALs ivo Moron air base followed by numerous section CALs ivo Moron air	Conducted a thorough brief and discussion of T&R items followed by an NVG lab.	Conducted numerous single ship HLL CALs ivo Moron air base followed by numerous section CALs ivo Moron air base.	GySgt. Speedy required only few instructor inputs and was able to make corrections and adjustments to distance estimation and wind mitigation error Overall GySgt. Speedy had good situational awareness but required some him when it came to right systems operations and general crew duties. Continue with training.
(b)(3), (b)(6), (b)(7)c	0.00000	Logged	No	base. Conducted numerous single ship HLL CALs ivo Moron air base followed by numerous section CALs ivo Moron air	Conducted a thorough brief and discussion of T&R items followed by an NVG lab.	Dase.  Conducted numerous single ship HLL CALs ivo Moron air base followed by numerous section CALs ivo Moron air base.	with usering. GySgl. Speedy required only few instructor inputs and was able to make corrections and adjustments to distance estimation and wind mitigation error Overall GySgl. Speedy had good situational awareness but required some he when it came to right systems operations and general crew duties. Continue with training.
b)(3), (b)(6), (b)(7)c		Logged	No	Departed LEMO as a section shortly after EENT, en route to NAS Rota. Once	None,	SNM was able to provide accurate and timely calls, as well as clear the aircraft in	Continue working on scan and building confidence and experience on google
(b)(3), (b)(6), (b)(7)c	(B)) (SID)	Logged	No	established at LZ Bull ring we Departed LEMO as a section shortly after EENT, en route to NAS Rota. Once established at LZ Bull ring we	None.	LLL environment.  SNM was able to provide accurate and timely calls, as well as clear the aircraft in LLL environment.	Continue working on scan and building confidence and experience on google
b)(3), (b)(7)a, (b)(7)c		Logged	No	Outsw 3-1 flight of two conducted brief, T&R brief, 18A brief, 18A brief, 18I	Flight brief was conducted followed by a thorough T&R brief with GySst, Speedy, SMM clearly understood all topics which were covered and his duties throughout the flight.	Gyögt, Speedy demonstrated procedural knowledge of lactical formation manauvering under low light level conditions, maintaining high situational awareness throughout the flight. Gyögt, Speedy provided timely input to the pillot as to the position of the wingman at all times. SNM was instructed on techniques to aid in distance estimation in two light level condition. SNM was also instructed to open the crew door earlier prior to landing. SNM corracted deficiencies effectively.	environment, to include tactical formation maneuvering. GySgt. Speedy is always open to critiques and is constantly looking to improve, continus with training!
(b)(3), (b)(6), (b)(7)c	(c)	Logged	Na	Outlaw 3-1 flight of two conducted brief, T&R brief, followed by a hotseat from Outlaws 1-1 and 2-1. Outlaw 3-1 flight departed directly into the GB-500, conducting 1.5 hours of IFR flight and multiple instrument approaches into NAS Rota. Once complete at NAS Rota. Once complete at NAS Rota. Outlaw flight proceeded directly back to point Whisky off of Moron AB. Once at point Whisky, Outlaw 3-1 flight conducted numerous tactical formation maneuers between points Whisky and Echo. Upon termination of tactical formation monthly and tactical formation maneuers.	Flight brief was condusted followed by a thorough T&R brief with Gysqt. Speedy. SNM clearly understood all topics which were covered and his duties throughout the flight.	procedural knowledge of Corfined Area Landings under low light level conditions, maintaining high situational awareness throughout the flight. CySgt. Speedy provided timely input to the pilots as to the position of the wingman at all times. SNM was instructed on techniques to aid noistance estimation in low light level conditione. SNM was also instructed to open the crew door earlier prior to landing. SNM corrected deficiencies effectively.	Gyagi, Speedy is an effective crawmember in the right environment, under light level conditions. GySgt. Speedy is recommended for Night Systems Qualification. Continue with training.
(b)(3), (b)(6), (b)(7)c		Logged	No	Departed LEMO at 1745L as a section reroute to go feet wet over Mediterranean Sea. Once established feet wet and in a clear area we	SNM was able to properly pre flight weapon, name major assemblies, cycle of operations. As well as explaining weapons emergencies, and limitations.	SNM was able to effectively and accurately employ weapon system, with minimal input from instructor.	
(b)(3), (b)(6), (b)(7)c		Logged	No	Departed LEMO at 1745L as a section reroute to go feet wet over Mediterranean Sea. Once established feet wet and in a clear area we		SNM was able to effectively and accurately employ weapon system, with minimal input from instructor.	Continue with syllabus.
	TG(2)-2542						
b)(2)Low, (b)(6), (b)(7)c	TG(2)-2543	Logged	No	Departed KNCA as a section to the VR-084, then split up a singles to conduct single ship lat then joined back up as a section to do section tat. After completion of the VR-084 we met our L-Hour into LZ BAT to conduct section CALS and conducted several factical and high speed straight-ins s	s for brief and T/R brief	Conducted several vertical maneuvers and TAC-FORM maneuvers as a section as well as single ship SNM maintained good CRM throughout entire flight and gave pilots good calls on wingman's position and other aircraft in the working area.	none

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### GySgt SPEEDY, JAMES W - MV-22B Aerial Observer/Gunner Crew Performance between 1/1/2015 - 3/18/2022

)(2)Low, (b)(6), (b)(7)c	Allo II	Logged	No	to the VR-084, then split up as	GySgt speedy was well prepared for brief and T/R brief	Conducted several vertical maneuvers and TAC-FORM	none
				singles to conduct single ship lat then joined back up as a section to do section lat. After completion of the VR-084 we		maneuvers as a section as well as single ship SNM maintained good CRM throughout entire flight and	
				met our L-Hour into LZ BAT to conduct section CALS and		gave pilots good calls on wingman's position and other	
				conducted several tactical		aircraft in the working area.	
	LAT(2)-2642			and high speed straight-ins as			
b)(3), (b)(6), (b)(7)c	LAT(2)-2643	Logged	No	Departed Moron Air Station	SNM was knowledgeable and	Conducted Division	Made good calls, maintained situational awareness of Dash 2 and Dash at a
				and conducted Division TACFORM formation maneuvers in the vicinity central Spain. Then	prepared for the T&R. We discussed the different maneuvers and there limitations.	TACFORM over central Spain. SNM made accurate calls on the location of dash at all times.	times. Needs to make calls more often, Overall did a good job and I recommend that you proceed further in your syllabus.
b)(3), (b)(6), (b)(7)c	0/001=m	Logged	No	Performed division low- and medium-altitude tactical	Discussed division low- and medium-altitude tactical	Departed Moron air field and conducted division tactical	Made consistent calls to the deck and maintained SA. Continue to work on mitigation to keep your calls clear. Your distance estimation calls are impro
				approaches, landings, and departures at Moron air field.	approaches, landings, and departures to a confined area. SNM was prepared for the T&R brief. SNM was knowledgeable and discussed accurately the limitations and procedures for each portion of the T&R,	approaches back to Moron air field. SNM maintained a high SA and displayed accurate calls of dash(s) position. The calls to the deck where good and made accurate drift corrections.	use the sounds of the rotors and your visual ques to help with your estimaticall. Overall you did well and I recommend that you continue progressing in syllabus.
b)(3), (b)(6), (b)(7)c	ONVOLUME:	Logged	No	Outlaw 1-1 flight of three	Flight brief was conducted	Execution of flight was in	GySgt. Speedy maintained good situational awareness throughout the fligh and showed significant improvement on calling out wingman position during
				departed from Moron AB, proceeding to conduct the GB 500 in a clockwise manner in IFR trail. Once reaching NAVSTA Rota, Outlaw 1-1		accordance with brief. Outlaw 1-1 was in the lead position for the entirety of the flight.	and showed significant improvement on calling our wingmant postulation. Which improved throughout the flight. SMM was instructed on improved throughout the flight. SMM was instructed on opening the crew dearlier and improving his scan to include more reference points in order to improve distance estimation call accuracy. Continue with training.
	DIV(2)-2783 DIV(2)-2784						
(b)(3), (b)(6), (b)(7)c	GTR(2)-2840	Waived	No				Event Waived
(b)(3), (b)(6), (b)(7)c	GIN(2/2040	Waived	No No				Event Waived Event Waived
( )( ), ( ) ( ), ( ) ( ) ( )	FCLP(2)-2940	Waived	No				LTOIN TERINOU
(b)(3), (b)(6), (b)(7)c	FCLP(2)-2942	Logged	No	Conducted air logistics	SNM was prepared for the T&R		Continue to work on wind mitigation and I recommend that you continue yo
				support in a low-threat environment in the vicinity of Moron air field.	and demonstrated knowledge about general cargo handing and securing, cabin loading and unloading, and passenger handling.	a simulated forklift loading operation. SNM demonstrated accurate hand and arm signals to the forklift operator and secured all cargo correctly. Departed Moron air field and conducted air logistics in the vicinity of central Spain	sylabus.
	AE(3)-3140 TRAP(3)-3340						
	CAT(3)-3440 CAT(3)-3441						
	AD(4)-4041 AD(4)-4042						
	AD(4)-4043						
	AD(4)-4081 AD(4)-4082						
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	SEA(4)-4540						
	RVE(4)-4580 ADGR(4)-4640						
	BI(4)-4740 BI(4)-4741						
	AD(4)-4840						
b)(3), (b)(6), (b)(7)c	NTPS(6)-6030	Logged	No	SNM complied with MV-22 NATOPS procedures and demonstrated knowledge about how to handle different situations that may occur	SNM was prepared for T&R and discussed emergency procedure accurately.		Continue to work on wind mitigation and I recommend you practice drills if your mask on so that you can build muscle memory; you will be faster an efficient.
(b)(3), (b)(6), (b)(7)c	CRM(6)-6080	Logged	No	Conducted day single ship and section TG.	Conducted IAW T&R.	SNM conducted single ship and section tail guns in day	Recommend continuation with TQ syllabus.
	M240D(6)-6151					time, utilizing 1200 rounds.	
	GAU-16(6)-6250				1		

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ENCLOSURE (15)

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# GySgt SPEEDY, JAMES W - MV-22B Aerial Observer/Gunner Crew Performance between 1/1/2015 - 3/18/2022 Generated on 03/24/2022 1045 UTC-04:00

GAU-16(8)-6251				
GAU-21(6)-6350				
GAU-21(6)-6351				
THK(6)-8700				
RVL(6)-6900			L	

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### Event Proficiency VMM-261 - MV-22B Aerial Observer/Gunner

Generated on 05/10/2022 1111 UTC-04:00

Days Until Expired as of 05/10/2022 >= 90 Days 60-89 Days 30-59 Days < 30 Days Expired

"W" indicates Waived, "D" indicates Deferred

Familiarization (FAM(2))

						Fan	niliarization (FAM	(2))
	ACAD: CRM	ACAD: NITE LAB	ACAD: Reference Publications	ACAD: Air to Air Refueling	LAB: Msn Aux Tank System	LAB: Flight Line Fire Ext	LAB: Ingress/Egress 2022	LAB: Start Up / Shutdown/ Taxi 2023
		2011	2012	2013		2021		
Permanent								
GySat SPEEDY JAMES W	No Refly	No Belly		No Refly	No Refly	No Refly	No Refly	No Refly

Ititude Training (	Low A			andings (CAL(2))	Confined Area La						
LAT: LAT Maneuvers / Rte	LAB: LAT Walk Through	ACAD: TAC Aircrew Considerations	ACAD: LAT for EAC	CAL: Section CAL	CAL: Single CAL	FAM: Fam Flight	LAB: Cargo Loading	ACAD: Eps	LAB: ALSS Equipment	Lab: Mooring Lab	
2640	2620	2611	2610	2242	2240	2040	2027	2026	2025	2024	

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T(2))			Air Logistics S	Support (ALS(3))		NATOPS(		Emergency Procedures (EP(6))	Crew Resourc (CRI	
LAT: Section LAT	NS LAT: HLL Section LAT	NS LAT: LLL Section LAT	ACAD: Six Functions	ALS: ALS Msn	NATOPS Open Book	NATOPS Closed Book	NATOPS Oral Exam	NATOPS Eval	6033	CRM Refresher
2641	2642	2643	3011	3040	6010	6011	6012	6030	6033	6070
11/04/2022			Mo Retly	05/27/2022					12/19/2021	01/31/2028

nanagement (6))

CRM Eval

6080

First Interview: 30 March 2022

Name/ Rank: (b)(3), (b)(6), (b)(7)c

#### Operational Background:

Commanding Officer of VMM-261. In Oct 2020 I took command of VMM-261, was previously at VMM-365 where I did time as the maintenance officer, deployed on the MEU, and participated in TRIDENT JUNCTURE in Trondheim, Norway in 2018.

My qualifications include WTI/AMC, I spent time at Pax River as an MV-22 test pilot. I was originally a CH-46 transition, V22 since 2009, about 2500 total hours and 1800 hours in the Osprey.

# What kind of higher level guidance was given for preparing for COLD RESPONSE in terms of training and education?

Guidance from Wing- to make sure pilots few an adequate number of hours prior coming out to CR. We had been going through a dry spell with flight time and the general wanted to make sure that we had adequate flight time and proper warm ups prior to operations in Norway.

Guidance from MAG was to fly, to operate, and find a way to contribute to the mission and scenario.

# What was your operational approach to preparing the squadron, academics, SOPs, crawl/walk/run, equipment, etc?

Preparation started in earnest back in MCAS New River in January 2022, our Standardization Board talked about weather minimums, IMC procedures with terrain. We went through several iterations of procedure for dealing with terrain and weather, we then demoed it in simulator. All pilots went through at least one sim where we went through what to do in IMC out in Norway. We also went through several icing protection system classes, discussed limts and knowledge. We also went through grooming of aircraft for operations in icing conditions as much as we could. The goal I set for the squadron was to have aircraft capable of operating in temperatures down to -20\*F penetration capability. Which in Chapter 4 of NATOPS has very specific components needed for that.

## Did you write any separate and distinct standard operating procedures for COLD RESPONSE?

**Read and Initials?** Yes. The one you've probably heard about is the Bodo Reversal, which was how to turn around in a fjord if weather is encountered and at what point to turn around. We practiced and published via Read and Initials. We also had a summary of weaher minimums in the training, including 3710 (NATOPS), General Planning, and other documents as a one-stop-shop.

### What was you guidance on weather minimums for your aircrew:

The standard weather minimum for Airplane mode was 1000' / 3 mi visibility. If it dropped below that, conversion mode is how we'd proceed to no less than 500' / 1mi visibility, and below that would be "No-Go" unless we were Instrument meteorological condition capable. Our instrument minimums were based on lowest available approaches at whichever airfield we were operating at.

#### Can you expound on the Bodo Reversal?

Organized way to turn flight around in small area. Once weather began to degrade, aircraft would organize into a trail formation. If an aircraft lost site of the aircraft in front of them, or lost sight of 3 ground references... we would conduct a simultaneous reversal for flight, swapping the tactical lead of the flight from the original front to the original last aircraft, and expedite on the escape heading. Single

Enclosure (16)

would be same idea, reverse course and exit the valley the way it was entered. We practiced in the simulator, conducted verbal briefs, and published via Read and Initial.

We you properly manned per the Training and Readiness manual to execute a detachment (reduced)? Yes, we were properly manned to operate as a det and had sufficient legal crews to operate. I did not sign any deferrals or waivers to enable us to meet our manning requirements.

Were there any additional SOPS published from the MAG to execute COLD RESPONSE? No, Not from MAG.

Was there any conflict between preparing for COLD RESPONSE and the MAG-26 Campaign Plan regarding meeting flight hour goals? Were they adequately separated to allow aircrew to be empowered to cancel due to weather.

No- no conflict between the two, they were adequately separated.

Were there any directives/orders by MEF or Wing given to fly when below planned mins? No

Were there ever any immediate tasking orders (ASRs/JTARS) to fill that were inside plan/brief cycles? Yes.

#### How did you mitigate those risks?

The cutoff for immediate tasking was whether crews were already scheduled to conduct unit level training. If tasking came up late the night prior or morning of, we would reassign a crew from a ULT flight to fulfill the movement of passengers. The movement of these passengers was from normally runway to runway, across standard routing, or from a familiar LZ that did not require detailed and deliberate planning in advance. Usually around 12 hours prior to event.

#### Did you talk about the crew of GT31 during your Human Factors Councils?

Yes, we discussed everyone during HFC, nothing stands out from the GT31 crew.

#### Did you certify the A/B/C routes in your mind, were they LAT routes?

"We treated the certification as a LAT route. And so before we flew it for a unit level training flight, our WTI and our ASO... actuall (b)(3), (b)(6), (b)(7)c. they went out and they flew these routes day-VMC ahead of time to look for obstacles that may not be on the map. And that was our way of vetting the route."

#### How did you do the administrative portion of the route certification?

We did the certification flight, above an altitude that wasn't LAT. And then we used that route to send up through the NAOC1 believe, because when we do low altitude training here we have to send a very specific route through the Norwegian system for them to approve it.

#### Which aircraft did you bring over?

Six aircraft, 1 x C MCOI, rest were Block B. AC14- that would have been a Bravo. All of the aircraft were icing capable to some degree.

Did you receive any guidance on flight hours for your pilots to achieve prior to executing COLD RESPOSNE? What about from MAG or MAW?

Enclosure (16)

The guidance that got to my team came through me was a specific number of flight hours augmented with simulator hours.

If we compare your table of organization to the Training and Readiness detachment model, are you missing any qualifications or personnel?

I think we are in alignment with the T&R

Do you have a standard policy for empowering aircraft commanders to cancel flights, once the aircraft is theirs, what is your policy of canceling flights for whatever reason?

My policy is to set weather minimums before launch, and then stick with those minimums to take emotion out of decision.

#### Same with maintenance? Regarding MESMS, etc?.

Maintenance is quality over quantity.

Did you have any specific guidance for round robins or stopping at other airports for crews to take fuel or get weather updates?

No

#### What is your PED policy in the aircraft?

To fly with those devices that are approved. MAGTABS.

#### What is your crew rest policy?

In accordance with CNAF 3710.

#### What were your sources of weather for flight crews to utilize?

ODO still pulls weather from standard sources that we used back in CONUS, the METARS websites. That has been augmented with regional sources for prognosis charts and local area weather forecast sources. To the best of your knowledge are there any ways to update weather in flight?

No

#### Concerning the MAGTABS, did you update the publications for Norway?

We did update them for Norway, updated since arriving.

#### For weight and power, did you use the MAGTAB tool?

Weight and power-used standard tool in JMPS. Our pilots were encouraged to check on glass before takeoff. Standard was to print, sign, and leave copy with the ODO.

#### What ORM worksheet did you use?

Ford the ODO briefs we used the MAG-26 template RAW.

#### To the best of your knowledge, did you waive any events for the crew of GT31?

Correct, I waived no events for mishap crew.

#### Why did you deploy with Block B's vs Block C's?

We deployed with the aircraft that we could, with the aircraft we had on hand.

Was it common to fly with NVG's on all flights?

#### Were dry suits mandated for every flight?

Dry suits are requried every flight, no exception when critical phases of flight overwater such as shipboard or tanking overwater. Mandated wear for the first two weeks.

# After flying over the A/B/C route, was there any traffic sent to Wing or MEF to request use of the routes for LAT?

I will have to check with my operations folks.

Second Interview of	(b)(3), (b)(6), (b)(7)c	Commanding Officer VMM-261
-Conducted soley by	(b)(3), (b)(6), (b)(7)c	Investigating Officer

- Would you please re-state your squadron's policy for the use of personal electronic devices (PED) while operating USMC aircraft? Are you aware of the CNAF policy on PED useage, 2d MAW PED policy?
  - a. PED operation in allowed while on deck to check weather and communicate with squadron operations to maintain situational awareness of the flight schedule. I am not aware of the CNAF policy, but our squadron policy mirrors 2d MAW.
- 2. Have you flown with any aircrew while the Commanding Officer when they have used PEDs during the flight?
  - a. No.
- 3. What is your reaction to hearing there was a GoPro found in the wreckage of GH31?
  - a. I am disappointed and surprised.
- 4. Talk me through your understanding of the Training and Readiness Manual Volume One's definition of the Low Altitude Tactics flight regime?167367
  - a. Less thank 500', significant terrain. (b)(3), (b)(6), (b)(7)c talked through considerations and had solid understanding of V22 LAT requirements and restrictions from both T&R and 2d MAW SOP.)
- 5. What is your approach to mitigating risks associated with LAT training?
  - a. Proper route scheduling, legal crew scheduling, adhering to currency requirements.
- 6. Are you aware of the 2d MAW Ops SOP requiring route and altitude minimums to be published on squadron schedules authorizing LAT regime flights?
  - a. No
- 7. What was your understanding of how the Norwegian MTRs (e.g., A, B, and C routes) were designated and/or certified?
  - a. That they were used by the host nation for the training of military aircrew and that the Norwegians mandated a "no lower than 500' AGL" along the routes.
  - b. They were chummed and ready for our digital maps.

- 8. Did you sign schedules with LAT codes with the intent to fly LAT?
  - a. Yes, though the original schedule we did not fly was to give an opportunity to my LAT/WTIs to recon the route to certify.
- 9. How did you certify the LAT training areas you eventually used?
  - a. We did not properly certify them IAW with T&R and 2d MAW Ops SOP.
- 10. How did you mitigate the risk of conducting LAT in uncertified LAT training areas?
  - a. I mandated no lower than 500' AGLalong the routes and LAT wx mins of 3000/5.
- 11. Did you have any risk mitigation criteria for junior aircrews (non-BIP TACs and below) operating in Norway?
  - a. Stay within local area defined by bag of gas (distance?) and day VMC.

#### First Interview 30 March 2022

Name/Rank/Billet:

(b)(3), (b)(6), (b)(7)c

Qualifications and Experience: NSI/Div Lead/NI, AARI, LATI,- 2100 hours, CH-46 transition around 2013 3 MEUs, (2xFrog, 1xV22), SPMAGTF Spain with VMM-264, MRF-D with VMM-268 Okinawa 2 squadrons, VMM-264 East coast, VMM-268 Hawaii, back on East Coast, 5<sup>th</sup> squadron now with VMM-261

What guidance did you give the Maintenance Department for prepping to support COLD RESPONSE? The big-ticket item, we used the VMM-365 TRIDENT JUNCTURE after-action. We ensured Marines were taken care of for cold weather gear, both aircrew and maintainers. We purchased 8 containers of survival gear, if aircraft land in the field we have tents, all the things to survive overnight.

Did the CO or you, or the OPSO give guidance for aircrew to land if they encountered unmitigable icing conditions...i.e. if weather becomes insurmountable were crews authorized to land and utilize that survival equipment?

Yes, and we got the same information from the Norwegians. It's normal practice for poor weather for aircraft to land. No real SOP, but developed robust training plan to prep for COLD RESPONSE. We did Sims- cold weather type sims to simulate what Norway would look like. We practiced a reversal procedure that we developed which works well with canalizing terrain. All of the pilots went through the verbology and mechanics to see it before having to do it for real.

#### Did you sign any deviations for operating in cold weather?

No CNAF deviations. We did do more pre-heater quals. Plenty of those available. We did more training focused on cold weather options, pre-start checklist items, shop level discussions, etc.

Were any waivers or deferrals that you know of issued to get qualified crews to support COLD RESPONSE?

As far as the Ops side of things I wasn't tracking any of that.

From Training and Readiness perspective, how does your maintenance team match against manning requirements?

We are good, we brought our A-tea(th)(3), (b)(6), (b)(7)% maintenance control was hand picked, our best controller. Our QA chief is out here as well. All of the quality personnel out here at the sacrifice of RBE.

What MAW or MAG directives were guiding in what you did preparing for COLD RESPONSE? 30% goal for FMC is the WING CG goal. My goal was to get as close to that as possible. However, we transferred six of our best aircraft to VMM-365 to support their NARF deployment. Then we accepted 5 aircraft from Nov-Dec 2021 from around the MAG. Our focus was on making those aircraft mission capable vice reaching FMC.

Did that goal of 30% FMC take away you desire or efforts to make safe, mission capable aircraft? No, mission capable aircraft came first.

Did you sit on Human Factors Councils? Were any of the crew discussed? Yes, we talked about each aircrew personnel. Nothing of note.

Did you ever fly the A/B/C?

Enclosure (17)

I flew that specific route the day prior. The route I flew the day prior was VMC, 9000' ceilings, perfect weather, as a NAV route. It's not New River, it's not flat. It's what we consider mountainous terrain.

Any obstacles on route that would cause deviation from OPNAV or NATOPS rules?

No

Have you ever given guidance to deviate from MESM?

If it's not withing MESM, then you won't release the aircraft correct? Right, and my controllers wouldn't safe the aircraft.

Has the icing capability been an impact to flight ops? Lack of minimum equipment?

No, been able to mitigate equipment degradation with flight planning or profile management.

Are you aware of any mandated flight hour minimums prior to arriving to COLD RESPONSE

There is a number, I don't remember what it was. Believe it came from the MAG CO. As we got closer to execution the MAG CO asked other squadrons to help out to make sure we were at the flight hours we needed. DOn't remember what the number is off the top of my head.

Any specific COLD RESPONSE SOPS from VMM-261 or MAG-26? No, but did publish the Bodo Reversal, I might call that an SOP.

What is you understanding of your weather minimums? Depended on mission, for a local NAV route the consensus was 1000'/3mi (VMC). Pretty much what we went with every day.

Have you experienced guidance or direction from higher to launch if weather was not within minimums?

Weather is very volatile, can launch with great weather and then 30 min weather changes... you can hit fiords and changes... if it's not your minimum then you turn around. Nothing forcing us though.

Have you ever been questioned or pressured from higher for cancelling flights due to weather?

There have been flights that have cancelled for weather below IFR minimums. No question from higher.

What was you understanding of the PED policy?

Nothing personal... no photographs, videos, etc. Primarily used MAGTABs. No usage of personal devices in flight.

How did you address crew rest and acclimatization to Norwegian timezone?

Did it by nature... by the time aircraft arrived we were already acclimatized. One flight with the aircraft coming off of the boat. After that we went into cold weather training.

What was NVG policy? Take on every flight?

Few of later flights, brought with us just in case. As a practice day for VFR flights crews were not checking out goggles.

When did planning start for COLD RESPONSE? RFI- lead time to groom aircraft?

VMM-266 was teed up for this mission and then the TEEP changed. Around October timeframe, we got tasked. Around November 2021 was when we started deliberate planning regarding what aircraft we were accepting and how to get in position to support. Bulk of squadron deployed in mid-February. Flash to bang came off deployment in October, got nod in November, deployed in February, roughly 105 days. Aircraft had to be ready ealier due to onload, black-bottom, timeline happening early January.

#### What was goal for the aircraft regarding icing capability?

-20\*F was goal... IPS condition tracked daily, where aircraft stand, and the way forward. Took a lot of deliberate effort from Avionics.

Do you remember anything specific about Aircraft 14? No

Did you ever have to pull or suspend any qualfications? No suspense or pulling of quals.

Capt Tomkiewics had maintenance and weather issues during TAC syllabus, of which you instructed one of the events, can you elaborate on it?

There were a lot of maintenance delays that night... we like to give on call ASRs or a tactical scenario. With the time left available, there wasn't sufficient time to give him a fair evaluation and go through all of the learning objectives.

First Interview 11 April 2022

Name / Rank / Billet: (b)(3), (b)(6), (b)(7)c VMM-261 OPSO

**Qualifications and Experience:** Came in as the OPSO mid-November 2021. Was at VMM-261 for 5 years, then at VMMT-204 as an instructor for two year, then back to VMM-261. I'm an NSI and was NATOPS program manager at VMMT-204.

#### What role did you have in the syllabus for prepping the squadron for COLD RESPONSE?

I worked with my PTO to help develop the plan knowing what was going to be coming up. Our initial plan included a detachment to West Virginia that ended up being cancelled for some pretty bad weather up there. So what we came up with was our syllabus, with the key training goals to help expose the pilots to things they would expect there. It's a methodical syllabus on what we can duplicate here in the simulators. That was our primary way to prepare the squadron, given by senior instructors.

To your knowledge, everyone who deployed to COLD RESPONSE completed the syllabus? Yes

#### Were you tracking any deficiencies with any of the aircrew of GT31?

I didn't get to fly much because of having to get refreshed coming off of the MEU. The experience I did have with them there was no concerns with their performance. Capt Tomkiewicz was progressing well, got him through his syllabus as planned. Nothing was rushed, he was prepped, and while it seems like it took a while because of the weather, it was not due to flight performance.

How would you describe Tomkiewicz's in his ready room demeanor and flight preparation? He liked to joke around but when it came to flying he took it seriously. Shouldn't confuse his demeanor with how he took his flight planning or prep for flights.

#### Any issues with Capt Reynolds or Cpl Moore?

Capt Reynolds was solid, solid copilot. Very smart and helped out with mission planning stuff. Good head on his shoulders, had no issues. Was fairly young but progressing normally.

Did you ever review either pilot's NATOPS or APR, audit them yourself?

Did you ever discuss Energy Maneuverability diagrams when discussing the Bodo Reversal? I did not participate much with that because I still had to go through my refresh at the time.

The month of January was solely focused on prepping the aircrew for COLD RESPONSE, took most of the flight time and sim time to get them ready with what we had.

#### What you had, what were you missing?

Up aircraft, because we had to black bottom 6 of our aircraft early January. Then try to fly the 6 planes we had left. We had a lot of issues, I think about 5 gearboxes and lots of heavy maintenance impacting flight hours. We also reached out to other squadrons to help meet our requirements of 10 flight hours and 5 sim hours prior to deploying.

#### Who established that metric?

Myself and the Ops shop. Felt that was the most achievable metric

Enclosure (17)

### What science delineated that number?

Numerous sources, Commandant's planning guidance, MAG-26 campaign plan, etc.

### Was Capt Tomkiewicz next in the shoot for section lead?

No, there was a couple ahead of him.

#### First Interview 31 March 2022

Name / Rank / Billet: (b)(3), (b)(6), (b)(7)c MMCO, VMM-261

Qualifications and Experience: 6092, Intermediate level Airframes, CDI, taught at the schoolhouse, Aschool instructor, production control at MALS-26, 4-5 years MV-22 time. Selected in 2020, TBS 2020. 6077 AAMO WTI

#### When was the last squadron maintenance inspection?

Last year prior to NARF, Wing inspection- passed.

#### Do you remember anything specific about the mishap aircraft?

Aircraft 168330- received November 2021 from PMI, during PMI got painted/weighed, and phased. Flew for a week, then went into Modifications. One anomaly coming from PMI- CVG binding on one engine. Went through conditional, lubed, no issues since then. No serialization issues, changed a bunch of parts but MX admin said was good during acceptance.

Went into depot level modifications: AC-bus tie mod, an Irridium attenna mod, rudder mount modification, and engine thermocouple upgrade.

#### Was the aircraft a Block B or Block C?

Block C, already had weather radar.

#### What did you do to get aircraft back ready to fly out of modification?

Out of mod... C-card for rudder actuators being removed and replaced. ALL TDs was incorporated. Sent on 30 day no fly. No issues with flight. We did fly a little post modification.

#### When you offloaded the black bottom transport, what was your biggest challenges?

No significant challenges, ones of the planes had an issue coming off the boat. The issue was on A/C 14. Was a unstowing issue. Not long to incorporate into daily schedule.

#### Did you see any weather impacts to maintenance operations in Norway? Aircraft or personnel?

Plenty of time to acclimatize, no significant stand out leaks. Researched weather impacts to maintenance. We experienced average MAF/WO generation.

Personnel had obvious issues with dexterity. Maintainers were briefed to come inside, or we put preheaters in the area. Cpl Wallace signed the A-sheet, Cpl Moze did the daily and turn around. No memory of issue with them.

#### Any issues with unscheduled maintenance?

No, aircraft have been pretty good here. Aircraft 16 has only flown one flight, due to a pitch change bearing.

Anything that keeps you up at night? No, we have a pretty solid group with us

#### Are you still conducting tech training?

Yes, more so hands-on tech training, we take time to do it.

## Any pressure for aircraft generation?

Out here? No, the aircraft have behaved pretty well. Aircraft availability hasn't been an issue.

## What's your work day?

Maintenance generally works around 0900-1900, 10 hour days. We flex with the schedule but maintain 10 hour days.

## Any ongoing documentation issues?

No, no real long term issues with maintenance documentation.

#### First Interview 1 April 2022

Name / Rank / Billet:

(b)(3), (b)(6), (b)(7)c

MV-22 FLSE Program Coordinator

**Qualifications and Experience:** Nearly 8 years fleet flying, 2 squadrons, 2 MEUs, DISCA deployment, 1500 flight hours, Hold every flight leadership designation and instructor designation with the exception of DCMI. No longer ANI, doesn't fit in my role, don't have NI.

#### Describe your role with VMM-261.

Augmenting VMM-261. PCA'd from VMM-261 August 21 to MATTS NR. At time of PCA- I participated in Cold Response PDSS. CO personally requested I augment the squadron in an attempt to manage deployment to dwell time. I didn't not go to Spain deployment, myself and (b)(3), (b)(6), (b)(7)c did not deploy. I'm currently TAD in excess to 261.

#### Are you familiar with general proficiency of pilots in VMM-261?

Yes, VMM-261 is amalgamation of VMM-261/264 proper. Very top heavy instructorship layout. Lots of NSIs. All of GT31 is from VMM-261 proper. Few mid level quals and a large amount of copilots. At one point over 21 copilots, vice normal batch of 8-13.

The squadron had not done a lot of challenging flying- repeat deployments to NARF. Deployment model is based in Spain, does not allow VFR flying- majority of flying IFR at altitude. That has been the deployment model for the past 6 years for VMM-261. Relatively safe to say that this is the first time most of aircrew have seen challenging weather and actual significant terrain.

## Was there a predeployment training plan to augment that?

YEs, a Training and academic plan was developed by then (b)(6), (b)(7)c Training plan developed to handle academic (icing, nav) and simulator package to mitigate shortfalls. Out of that came TTPs like the Bodo Reversal, and all was required for participating aircrew prior to execution. I participated in some of this training.

Is it verified that the aircrew understood the Bodo Reversal due to the Read and Initial? That is my understanding, but I have not checkedthe signatures.

#### Were enlisted aircrew involved in the academics and the training?

I don't know. Enlisted aircrew do not normally go into the sim. The MCAT at NR is not operational, was not available or funded for this training.

## You are augmenting in an Ops capacity to the squadron, correct?

Yes, that's my background, I was originally left as AOPS, and was OPSO for RB(b)(3), (b)(6), (b)(7) is replacement. I was coming to lend extra qualification and maturity to the ready room, which is young. My understanding was the CO was concerned that the exercise impacts of constantly needing a WTI to answer staff questions, there was a need for another WTI to fill the gap in the ready room(3), (b)(6), (b)(7)c worked out MV-22 exercise integration into COLD RESPONSE. Turned into very large number of VIP/DV movements, almost all of which met 2star or larger equivalent for support. I moved into take roll addressing those to allow, (b)(6), (b)(7)c cus on scenario and training of squadron.

Before departing for COLD RESPONSE, we discussed at MAG the concept of LAT training with embarked troops? Why?

LAT is defined as flight where terrain avoidance is a significant factor and intended flight below 500' AGL. I wanted to potentially discuss a waiver for troops is because of the extreme rugged nature of Norwegian terrain and the climatology. Norway is lots of fjords, with severe weather, and we worked through the routing for that waiver. We ended up not doing it, because the flying typically was between 1000'MSL-3000'MSL, which corresponded to AGL often over the water in the fjords. While there were mountains are both sides, generally had a mile on either wing, and we did not feel that the profile met the same intent as the LAT we did at home. Otherwise, if you expansively interpreted the definition then every flight would have been LAT. We were not flying at extreme low altitude or down near the dirt to avoid threats in a way that we though would happen prior to arrival.

The scenario has a number of RF threats, but the execution of the scenario means the MV-22 has no interaction with those threats. No tactical reason to fly at that low level. Didn't continue to press the waiver, got through G-3 at 2d MAW CONUS, but was recommended to continue in Norway. Determined that we did not need it based on profiles that were being flown.

Weather minimums that were understood were 1000' / 3mi because the routes that were being flown were not considered LAT.

Correct, the flight was not intended to typically use LAT.

#### Have you ever seen LAT on the schedule?

I'm not sure, I can go look.

To address the weather minimum thing. The rules of conduct for LAT have you fly at 3000′ / 5mi when flying LAT, when you are not flying LAT you can fly down to VFR mins of 1000′ / 3mi. However, you can take that down to 501′ AGL in theory, that's not the intent, but you can find that in the black and white of how you want to interpret that. There is a prudence in sort of, pay attention to what you are doing.

The definition is relative short for LAT, the squadron is based in a flat open coastal area of the US and their deployment experience was in flat open areas around the Mediterranean.

Based on your experiences as a WTI and your knowledge of required briefing items from publications, do you feel that the products met the intent for execution/mission accomplishment? For the profiles being flown?

Yes, I think it was. I wasn't there for the flight briefs so I can't speak to that. But historically, the level of detail put into just flying NAV or an ASR or just CALS is higher than it is CONUS for the specific reason of needing to mitigate terrain in the area. Almost all of the briefs incorporated DTED breakout to illustrate terrain and it was discussed.

## How were line of sight comms and familiarity with other airfields?

Aircrew were very familiar with other fields in the area and line of sight communications have been surprisingly good. Generally radar contact in many areas that you may not expect, and have communication with ATC.

#### How would you describe the weather in Norway?

Rapidly changing and unpredictable. We pull METARS and TAFS and you will typically see multi-layer cloud decks, intermixed with showers and snow or rain, and it is very spotty. It's possible to see three distinct meteorological patterns within one half of the sky.

Have you encountered that weather in flight?

Absolutely, was flying in good weather to another site out here, and when I turned around to come back the weather was untenable from the surface to 9000' MSL. That's just how it is here.

## Have the developed procedures worked?

Yes, I've actually used it before. I was lucky that I was able to see that we weren't going to make it through and called it early. Often dealing with 3-5mi visibility, and hard to pick out the weather gradient. Very similar color shading to everything, terrain, aircraft, water, etc.

## Do any external agencies give you weather updates?

You can ask, but generally only have access to weather within their control zone.

#### Any pilot to metro type services?

No, and PIREP usage is low.

The squadron did not deploy with any radios to deploy with an ANW2 network correct? Correct, we did not deploy with them.

#### In your opinion are MAGTABS the only devices used in the cockpit?

No, generally on the deck you can sometimes get cell service to get METARS, generally best way to get weather for next leg of flight.

#### Has weather radar on aircraft been helpful?

No, because we are surrounded by high terrain and the way the radar interacts with the terrain generates lots of returns and has trouble discerning between the two. I have tried to use it an it is not useful in this terrain.

#### Any issues maintaining currency with cancelations?

No, spread load of flight hours is good and readiness has been pretty good as well. Total number of hours and experience is still relatively low. Recency can be high compared to stateside crews, but total maturity can be lower. Personnel are qualified and legal to fly. For example, the mishap crew was totally qualified to fly, but were young.

To your knowledge, the use of simulator time to augment flight time in order to meet 450 flight hours and 50 simulator hours is common and authorized per the Training and Readiness manual? It is accepted, and much more palatable now than 5 years ago. Result of low cumulative flight hour production. Other flight leadership billets have hours requirement and are not waiverable.

To your knowledge, was there a plan to progress Capt Tomkiewicz to section lead? Yes

#### First Interview 1 April 2022

Name / Rank / Billet: (b)(3), (b)(6), (b)(7)c WTI, EATM,

Qualifications and Experience: With VMM-261 for 4 years. SPMGAFTF, Spain and West Africa WTI; NI: CDI/PC 310

#### Can you tell me about your daily duties?

I primarily work scheduling, managing crew chief prerequisites, crew chief and AO training plan,

#### How do you do your training plan?

Bi-weekly, I figure out what events will work on the next couple of flights and try to work them in.

#### Were the mishap crew members part of that plan?

Not particularly. Another crew chief was the EATM before coming out to Norway. I didn't really have a training plan prior to coming out to Norway- primarily worked in flightline. (b)(3), (b)(6), (b)(7)c EATM with training plan].

Is it safe to say that you weren't involved in the training plan for either the mishap Crew Chief or AO? No, because once we came out here my goal was to get him up as far as I could to his LATI syllabus.

To the best of your knowledge, were both crewmembers proficient to be operating in the flight the day of the mishap?

Yes

Anything that gave you or any other instructors professional pause about the mishap crew chief or AO?

No, no abnormalities or significant deficiencies.

#### How are you integrated with Flight O/ PTO in integrating aircrew onto schedule?

I normally talked to AOPS/OpsO... more than helpful with aircrew training. They bring up a point to get training done, and are very helpful in getting it done. They think about crew chief training.

## How do you transfer names onto the flight schedule?

MX quals can be a point, if we are going on a det. But not particularly needed for Norway. We do look at experience to determine crews, experienced crew to fly by themselves, etc. . Not just having prerequisites for the day. MARLOG, not many prerequisites needed. As far as I know the aircrew had all of the prerequisites.

## Do you recall the flight hours for the mishap aircrew?

Moore had about ~400 hrs... estimated.

#### Did you sit in on Human Factors Council for the crew chief portion? Any issues?

No factors for Gunny Speedy, excited to fly again. Nothing in particular for Cpl Moore. All he did was talk to (b)(6), (b)(7)c attitudes never seemed different.

#### Can you tell me about your understanding of Crew chief PED policy use?

Don't have PEDs... (PEMAs) don't really take on flights unless going for dets. Used to bring PEMA on aircraft for inflight troubleshooting. We sometimes do it on dets.

## What about personal cell phones?

For communication we do take cell phones with us. Nothing in SOP about not taking cell phones. Some don't take them at all?

#### Is PED use briefed in flights?

Depends on mission set, briefed not to have cell phones on us in flight for sigint reasons. Up to crewchief on whether to "take" phones into aircraft.

#### Any issues with the mishap aircraft?

Flew on AC 14 day prior. Nothing of specific note. I reviewed the aircraft's book, nothing significant. Just some icing issues, spinner dome, etc. "average MV-22 ADB".

## Is it SOP for the survival kits to be on aircraft? Tracking?

Yes, installed by Flight Equipment and MAF'd.

## What's the policy on taking NVGs on flights?

Normally take if landing within an hour of sunset. Prebriefed by TAC. Up to TAC if just flying daytime, take back up at night.

## Did you see on any previous flight any systems for pilots to obtain in flight weather?

Some of the pilots have used some systems, possibly. They would call back home, radio back for weather updates, but don't always have that ability. For the most part, pilots use MAGTABS or cellphones to get updated weather.

## Can you describe weather pattern on day you flew?

Weather will be clear... almost always moving south. It changes rapidly. The day I flew we attempted to fly south, but weather wasn't agreeable, so we stayed at alocal LZ.

#### Were CC's getting enough hours?

Getting more than enough to remain proficient.

#### What was pre-deployment guidance for crew chiefs.

Mainly who was core skill complete? Moore was considered one of the more "senior" crewchiefs, already core skill complete. No particular sim training before coming, just normal night and LAT flights. We did cold weather training once we were out here.

## Are you aware of any crew rest issues for the mishap crew chief or AO?

(b)(3), (b)(6), (b)(7)c Anytime I came back from night flight he was asleep. I believe he had enough sleep based on personal experience. (b)(3), (b)(6), (b)(7)c FIT E would have awareness on Gunny Speedy.

#### Were pilots trying to gather weather in flight? Or on deck via cell phone?

Most of the time I've seen they've gathered weather on the deck via cellphone... I can maybe name a few instances on a NAV route or flying IFR where it occured. Just a quick weather update with solid crew coordination to ensure look out doctrine is followed.

#### Any inflight discipline issues with crewchiefs?

Enclosure (רו)

Most of my crewchiefs, especially out here, have not had issue with complacency.

## Do you feel like your crewchiefs are being listened to or can speak up to pilots on concerns?

Some of my younger crewchiefs feel like they are overspoken by some of the pilots. Pilots are wanting to push and say "we're wanting to make it". There can be disagreements and sometimes they feel overspoken.

#### Any addressing with PTO or OPSO?

No, usually ends with crewchief point being made, but just takes longer for crew chief account to be taken in and listened too.

#### The CRM environment is conducive to training?

Yes

## How would you characterize Capt Tomkiewicz's ability to listen to crew input?

He was one of better pilots for CRM inclusion..

#### How would generally describe in decision making, new MV-22 TACs?

They're normally afraid of dropping a flight or dropping training. SOme of the decision making is lacking, but that means they use the crew more for input.

#### Would you say their attitude is more conservative or cavalier?

More conservative?

#### Which would describe Capt Tomkiewicz?

He'd fit the more conservative mold.

## When you fly LAT? Do fly down to 500' AGL or more around 1000'?

When we are inside the terrain its normally 1000' in airplane mode, when we don't have 1000' / 3mi, we will slow down and convert.

## With the terrain of Norway, where you can be at 1000' AGL and still have terrain high around you, was the application of the LAT weather minimums of 3000'/ 5mi ever discussed?

I believe it was discussed at some point, it's been brought up. But not sure if it's been a discussion for the whole unit or not.

#### First Interview 6 April 2022

Name / Ranke / Billet: (b)(3), (b)(6), (b)(7)c /MM-261 XO

Qualifications and Experience: VMM-261 in Summer of 2020 from being a MAWTS-1 IP. Most of time on west coast and Okinawa. MEUs until Spain deployment in 2021. Been XO since November 2021. 1700 total hours, 1300 Osprey. I also did resident PME EWS and MAWTS only gets about 150 a year.

## Are you a member of the Human Factors Board (Council)? Were the mishap crew ever singled out during them?

Yes. The mishap crews were not singled out for specific issues. Copilot was recently (b)(6), (b)(7)cTAC had been (b)(6), (b)(7)c Neither singled out to be a significant human factor. Nothing specific about enlisted aircrew.

#### Can you talk about preparation for Cold Response? Aircraft, aircrew?

(b)(3), (b)(6), (b)(7)put together a small T&R to develop a sequential model to focus on preparation to get the most training in the available time. Very deliberate on aircrew going to COLD RESPONSE and backup personnel. Very direct on specific things from CO direction. Reviewed icing classes, NATOPS and INST checks focused on icing. Focused on mountain area terrain type stuff, not just landing. We created Bodo Reversal. Developed based on IMC reversal, and some feedback on Trident Juncture VMM-365 after action- and CO experience. We used collective experience to verify with senior instructors. Made tweaks. Implemented in sim events, MAT events, with icing, degrading visibility, and set it up under duress to test it. We used the —200 NATOPS performance supplement for turn radius information. Performed and demonstrated in different modes, evaluated in different speeds/modes, climbs/decents, etc. Used trend dots a big focus. Flying in conversion mode allows us to shrink our turn radius. The R&I graphic is the result of what we came up with and what stemmed from our development.

#### Can you speak about how the syllabus was developed?

It was designed like T&R using codes that already exist for MAT and LAT training. The third code was high/hot/heavy- designed as progression. Daytime high altitude, night time, worked through Bodo Reversal. The codes mirrored T&R current codes, but went through specific COLD RESPONSE deliberate discussion items. Integrated degraded engine due to engine anti ice, NATOPS, performance, etc. Layed existing T&R framework over expecting operating conditions. The discuss items were the bigger meat of the training.

When you fly through mountain ranges do you consider that LAT training? Yes, terrain is a significant factor.

## So does that mean that any time you flew in Norway you were conducting LAT?

That's what we talked about, but to be honest I didn't look at the schedule every day to see how they were logging it. There were certain ASR runs to like Bardufoss that were probably at altitude. They were also trying to get a LAT route certified. Not sure if that route included consisted with a part of the route flown by GT31. I know they were attempting to certify the route.

#### How can we confirm that the route was certified?

(b)(3), (b)(6), (b)(7) was attempting to get it certified before they left because there was input from other units out there.

If you go below the mountain line, would that be LAT?

Enclosure (17)

So, below 500' AGL, and then caveat with significant terrain. All of that stuff exists like MSA and ESAs.

#### For a skid guy, what's the line of embarkation between LAT and NAV?

Terrain avoidance. Specifically, if you are doing LAT training for the code, purposely trying to increase crew comfort by putting yourself in that environment. When I think of the code for LAT we are specifically doing the training for the T&R. When I think of mission, LAT is a means to an end, not the mission if we are doing a mission.

I've had multiple conversations in the MAWTS-1 building regarding this definition and how we utilize and delineate LAT from other profiles.

Without contingency or combat operations, you need 3000' / 5mi to conduct LAT correct? If you are training for LAT, yes for fixed wing airplane mode LAT. In conversion we have lower minimums.

#### Can you talk to the crew's performance in the squadron?

Capt Tomkiewicz was an even keeled guy in Ready Room. If given a task- he got it done, was light hearted, smart, direct. If he was nervous, you wouldn't know it. If things were down- he'd lift people up. If given a task he'd get it done. Mostly in maintenance when he was in Spain then worked in Ops. He was average, but had a noteworthy program on the SACO CGI. He wasn't one to cut corners. Capt Reynolds checked in when we got out the door, S5 and then to Ops. Given a task and he got it done. He was hardworking, motivated. Organized and deliberate- became NAVO/MAGTAB SME. He was a young guy who got along with the ready room.

Cpl Moore- quiet, always a hardworker. He was working on instructor quals. Part of a peer group of 4-5 as achievers, ear marked to move through instructor quals.

Gunny Speedy, knew his role, was a "gunny" in the squadron, not just admin chief.

#### Can you talk me through your interpretation of the PED policies you know of?

PED policy- my understanding is they are not supposed to be used by aircrew. COMSTRAT and others have their own rules. MAGTABS can be used in cockpit- cell phones can be in bags with the understanding is not coming out and taking pictures.

#### Do you think there is a holistic problem in Naval Aviation with PED usage?

Yes, because you see it all the time on social media. And it's tough coming from MAWTS because we had different rules with COMSTRAT and maybe people see that as "well if MAWTS is doing it...". But here locally and aviation wide it's probably a problem.

We rebuilt Gunny Speedy's APR jacket over the last couple of days, generically. The quals and designations letters were made, but unsigned. We think he took his original out there with him and it's with his personal gear.

Capt Tomkiewicz had three night reviews prior to his TAC check, weather and maintenance impacts causing incompletes. Can you confirm the decision to execute the review in the sim was in the spirit of keeping him moving in syllabus?

Yes, we incompleted him multiple times due to weather and maintenance and our flight hour generation capability was not doing him any favors. We decided to challenge him in the sim at night and worked through a scenario and felt comfortable that once demonstrated all of the required metrics and met the CO's guidance that he was complete. We did not want him to stall out due to lack of aircraft.

## Have you seen anyone at VMM-261 fail any review flights? Process after?

Yes, I have failed one and, (b)(6), (b)ascfailed one. We hosted a Human Factors Board after for my individual. We debriefed, I gave the shortfalls and wrote the ATFS. I then went to the PTO and said to develop a training plan. What we came up with was essentially to fly 50 more hours, and then they would restart the syllabus. It worked out because they were at 450 hours, and then we came back here. They would then get a day and night warm up, and put them in the sim for the day review to do all the emergency procedures. We didn't get to the night review. We did a Human Factors Board when we got back because the instructors and Safety felt that there was some lingering anxieties outside of performance issues. They never made it to a TAC check. The squadron is not afraid to identify sub-par performance and seeks to resource aviators with assistance.

Another thing we started looking at after identifying some issues due to lack of flight time was deliberate simulator utilization and mentorship/instruction prior to syllabus checks. Part of the instructor standardization meetings is we would write ATFs on people even if it wasn't a coded event. If a copilot on an instrument check shoots a bad approach, we would write an ATF on that pilot to document for future tracking. Wasn't all bad, we also wrote on noteworthy events. We started doing this after looking back at this one individual and seeing issues in flight school and VMMT-204 flights.

#### First interview 30 March 2022

Name / Rank / Billet: (b)(3), (b)(6), (b)(7)c SFF/MC Controller

Qualifications / Experience: Maintenance Control for 2 years, SFF for 1.5 year- 19 months. Never revoked. V-22MX for 5.5 years at VMM-261, one deployment and COLD RESPONSE 22

#### What procedures do you follow when you safe a book?

We utilize a locally generated SFF checklist, same one used for each aircraft, derived from min requirements for SFF from Ch5 of the CNAF 4790. All paperword is printed if we can and placed in a contingency binder like the one seized by another controller. I did not touch any records after knowledge of the mishap. Normally print everything we have, but limited here. S6 hasn't provided everything, so we print bare essentials. Printed in case we have to go to a contingency mode.

#### What kind of maintenance guidance did you receive to prep aircraft for COLD RESPONSE?

We just transferred large number of planes out, plus received a number of aircraft from PMI. BUNO 168330 was a relative new plane to the squadron, where we received it either in December or January straight from PMI at Cherry Point where they did PMI and a phase inspection. We did not have that plane in hand very long before shipping over to COLD RESPONSE. PMI conducted post PMI FCF, we groomed the aircraft to best of our abilities. Multi shop effort to receive it. MX admin, control, QA received aircraft, can't recall if there were any discrepancies.

#### Was there any guidance to look real hard at MESM? What is the guidance?

Guidance was to provide most mission capable aircraft as possible. FMC is not very common. Hard line between PMC and NMC, do not flirt with that line.

#### What shop did you work in before control?

Flight equipment by trade.

## Aware of any additional MX SOP to support COLD RESPONSE?

Not that I'm aware of.

#### Aware of any orders to violate the 4790 to get aircraft flying?

No

#### Any aircrew using phones or PEDs on the way to the aircraft.

No

## Are Aircrew very well versed in writing up MAFs?

Yes, they are good at it. Occasionally have late MAFS, but that is dealt with quickly by maintenance leadership, MMCO/AMO.

#### If a plane captain says "the bird is down" do you listen?

Yes, we ask questions to gain more SA, but we listen and ensure the appropriate shop is notified about the issue. We then take the aircraft off the flight schedule.

#### Anything unusual about leading up to the launch of the mishap aircraft?

No, it was a normal day, and normal flight. It took off, I watched when they came back and fueled. I heard them on the line, poked my head outside, asked if anything was wrong. The ODO said they were just fueling and going back out.

## What's you work day look like?

MX works 10 hours.

## ODO's ever call down asking for things to be done outside of 4790?

No, the ODOs are in receive mode...

## Any quals suspended or revoked?

no plane captains suspended quals.

## How are discrepancies that are found outside of schedule inspections treated?

If the plane is down the plane is down. Our team is very good at writing up things that are wrong, regardless of if they are outside of their interval or not. There's no stigma attached to that?

## Did the mishap aircraft have the most recent software load?

No, we had a deviation for the JASS load to be corrected within 90 days of returning to CONUS. All of the COLD RESPONSE aircraft have the deviation due to the timing of the software drop.

Name / Rank / Billet:

(b)(3), (b)(6), (b)(7)c

Flight Line Division Chief

**Qualifications and Experience:** Former F/A-18 Airframes, IA machine gunner. LAT moved here to MV-22. 2 x Iraq, 1 x Afghanistan, SPMAGTF SPAIN, MEU.

## How quickly did the Marines adapt to maintenance in Norway?

They adapted very quickly... mainly about ice. I can't speak about flying. But maintenance wise the first time personnel slip they learn to wear PPE.

#### Have you had to discipline for any malpractice maintenance wise?

No... the only difference out here is mainly the cold weather stuff. Mostly morale issues trying to keep Marine's heads up, keep them engaged.

You were roomates with Gunny Speedy? Any human factors issues?

Yes, and no issues that I'm aware of.

In your opinion, did Gunny Speedy adhere to crew rest regulations?

I am familiar with those requirements and to my knowledge he did.

#### First Interview 31 March 2022

Name / Rank / Billet: (b)(3), (b)(6), (b)(7)c DDO day of 18 Mar,

**Qualifications and Experience:** Single deployment NARF 2021, MV-22 copilot, NSQ, LATQ, AAR, core skill complete

#### Can you tell me about the date of the mishap?

On the Morning of 18 March I took over as ODO, arrived at the squadronsquadron 0730. The flight brief was at 0900, ODOs normally arrive 30 min prior. I arrived earlier due to some new procedures in place for operations during COLD RESPONSE. Exercise was just kicking off and new procedures in place from NAOC for ACMs, hot air spaces, mission secret, Norwegian NOTAM system. Got early to access and be able to brief to crews.

I entered the ready room and pulled up my laptop, opened the ODO template. Prepared ODO brief, checked the flight schedule, added a snap shot of schedule, brief roll call, added temps/max/da/pa, utilized the Air Force weather website (Airforce weatherweb.mil), and used the IPPC.no website which we've found have the most accurate weather radar pictures of country/regional/local. The picture was similar to 70% of days, scattered precipitation, scattered cells moving throughout the area. Rapidly changing weather patterns. METARS/TAF (aviationweather.gov, backed up on af site). NOTAMS for Bodo, Bardufoss, Evenes, Trondheim. For the airspace portion- that's mission secret- pulled the ACMs. Briefed very similar to 31 Mar brief. Signed RAW that I had. (Initialed RAW on the computer, not certificate). Not that I recall any mx issues.

I generally knew the mishap route of flight. I flew with Capt Tomkiewicz the day prior. On the 17<sup>th</sup>, lwe anticipated flying the route but received last minute tasking about 30 min prior to takeoff, that tasking fell through before launch. We planned and brief to fly the route, did local CALS instead, and entered a portion of the route at an alternate checkpoint. Entered just north of Rosval and flew south to north. I believe we overflew the site of the mishap.

#### Which route were you on?

It was the Bravo route that we received from the NAOC as a verified route that we were allowed to fly. They didn't name the checkpoints, so we named them according to the ASTACSOP.

#### Are those checkpoints what you reported on Helo Common?

We reported that we were entering the Bravo route north of Moyrana and Rosvall over Helo Common and Rosval radio.

#### Did you have line of site comms with anyone?

No, made calls in the blind over Rosvel that we were not entering their zone, but were trasiting in the area. Did not recevie anything back.

#### Can you describe terrain, how you flew the route?

Weather was at 7000' overcast, so we were flying over the terrain. I don't remember the MSL altitude, it was my first time flying to route.

#### Did you brief weather mins?

Yes, briefed 5000' / 5mi because of the terrain in that area.

Enclosure (17)

#### Anything unusual with the brief?

No, sounded extremely similar to other briefs.

## Did crew turn in RAW/ and load comp?

Yes, I received both.

#### Did you listen to flight brief?

I was within earshot, but not attentively listening.

#### Any issues with aircraft?

No

#### What aircraft?

Aircraft 14

#### Is Aircraft 14 Block B or C?

Believe it is a Block C

#### What does Block C mean to you?

"Stick aircraft"... has modifications.

## Any procedures for using onboard weather radar?

Yes sir, we use it.

Have aircraft commanders ever forgotten to sign the RAW with it being on the computer? Not to my knowledge, very well adhered to.

## During your flight on the 17th, did you experience any of the changing weather?

No, there were high ceilings, none of the normal cells in the area.

## Do you remember if the Bodo reversal was briefed? Any other weather issues on the 17<sup>th</sup>?

Not briefed every flight due to extensive predeployment training.

#### Do you remember the last communications you had with GT31 on 18 March 2022?

They came back for hot fuel at half-way point, I actually walked outside to watch them taxi and takeoff.

#### Did the crew ask for any weather updates?

I walked outside and told them that the weather updated was still scattered in the area. They had been flying for 3 hours before fuel.

## What was their route of flight?

First half was going north up the coast, don't remember exactly where. I was submitting 1801s filed through the HN website. The second half was meant to be south along bravo route.

#### What kind of communications do you have with the aircraft?

Just the PRC-152. Crews will often brief cell phones as a tertiary means of communication on deck. No SATCOM was available.

## Is the lack of printing products a resource issue?

Yes, we are still creating all of the products, but have to use MAGTABs to take pictures to bring the products with us. We had printers but they have failed. Primarily use pictures vice .pdfs on the MAGTABs.

#### Any ability to upload electronically vice taking pictures?

I don't know. I don't believe we had that capability.

#### Do feel comfortable enough in the current system to fly with?

I don't feel any less comfortable walking to the aircraft with the products as we have them.

## Any formal or informal SOP on battery life for MAGTAB?

TACs will generally check battery life.. Informal rule that 80% should last day or two. Plenty of opportunity to charge.

#### Any issues keeping AERO APP updated?

No

#### Mission change on day of GT31 event?

No sir, no need for mission change.

## To your knowledge, does anyone keep their own device on hand in case the MAGTAB fails? IPAD with Foreflight?

I believe some pilots may use foreflight... I don't use anything besides MAGTAB.

## Did Captain Tomkiewicz every use an IPAD on the preivious flight with him?

No, not that I remember.

## Any issues with aircraft regarding no having DTED?

No, generally briefed as mission essential equipment

## Pretty standard for aircrew to use Height Above Terrain in flight?

Yes

#### First Interview 31 March 2022

Name / Rank / Billet: (b)(3), (b)(6), (b)(7)c QA Chief

Qualifications and Experience: Plane Captain, QAR 310 (Flightline), V22 since 2009, 5 deployments, 261-2009, CNATT, VMM-262 2012, NARF/AFG, MEU, 31st MEUs

Were you aware of any perceived pressure to prepare the aircraft for COLD RESPONSE beyond normal cycle of preparation, to cause shortcuts?

No

Were there any deviances or anything you perceived going on in the maintenance department that required you to take administrative or punitive action?

No, not with Aircraft 14 or for COLD RESPONSE. We did have to pull (b)(3), (b)(6), (b)(7)c CDQ qualification prior to deploying. He had to work through the syllabus again and be signed off by specified personnel in flightline. Qual was actually suspended and not pulled... required additional training through a syllabus.

## Do you recall the plane captain the day of the mishap on AC 14?

No, I was in Narvik on a site survey. (b)(3), (b)(6), (b)(7)c was running the QA shop.

Once I returned from Narvik I received a text message about Aircraft 14 not having returned yet. So I went back to the squadron, and when I arrived that's when things started unraveling. Shortly after the CO broke the news.

#### When was your last major maintenance inspection?

Last year we had a MALS and a Wing inspection come in. Results weren't bad.

#### Do you remember anything specific about Aircraft 14?

Workin with icing on it a lot... it was a player to be as close to FMC as possible.

From:

To:

(b)(3), (b)(6), (b)(7)c

Cc:

Subject:

RE: JAGMAN Information

Date:

Tuesday, April 19, 2022 1:48:41 PM

Sorry for the delay sir, I was flying last night. I'll answer as best I can.

- 1. Yes he was my roommate.
- 2. I know that he was sick on and off throughout the time we were there with a head cold. I believe I remember him being congested the night prior. I flew the night prior and then slept in so he and I were off cycle so I couldn't tell you his status the morning he woke up. Other than that, I know that he had just settled on a house and had received the keys so that was an exciting time but not anything I would say affected his ability to fly/focus.
- 3. Per my above comments, he was fighting some congestion but was managing just fine. I think I likely woke him up when I came back from my night flight. I landed at 2300 and probably got back to the room around 0030 -0100. His brief time the following day was at 0900. Breakfast ran from 0530-0800. Not exactly sure when he woke up but it was likely in time to get breakfast and then prep the last minute items before the brief.

I have cc'd the ASO and senior member of the AMB just cause I know that my role in answer questions for the JAGMAN and participating in the AMB is a bit touchy. The guidance I have received is that I am allowed to disclose factual information and then stuff that I was personally responsible for and aware of prior to my role as an AMB member. I hope this helps but please let me know if you need anything else.

Very Respectfully,

(b)(3), (b)(6), (b)(7)c

----Original Message----

From:

(b)(3), (b)(6), (b)(7)c

Sent: Monday, April 18, 2022 8:53 AM

(b)(3), (b)(6), (b)(7)c

Subject: JAGMAN Information

(b)(3), (b)(6), (b)(7)c

Good morning, I am assisting the JAGMAN IO in regards to GT31 and hoped you could answer a few questions for us regarding your Norway roommate, Capt

Enclosure (17)

#### Reynolds.

Before I begin, we do not suspect anyone at this time of any wrongdoing and are therefore not offering 31B rights. These questions are in regard to the JAGMAN investigation and therefore do not fall subject to any privileged information considerations.

- 1. Can you confirm that your roommate was Captain Ross Reynolds?
- 2. To your knowledge, were there any human factors associated with Captain Reynolds that may have been affecting him prior to 18 Mar 22?
- 3. To you knowledge, did Capt Reynolds have any issues regarding achieving the required crew rest the night before 18 Mar 22? Or crew day?

Thank you for your assistance.

V/R,	
	(b)(3), (b)(6), (b)(7)c

From:

(b)(3), (b)(6), (b)(7)c

Subject:

RE: JAGMAN Information

Date:

Friday, April 22, 2022 2:45:21 PM

#### Good Afternoon Sir,

My apologies for the delay in response, but I have no problem in answering your questions below.

- 1. My roommate was indeed Capt Tomkiewicz.
- 2. To my knowledge, I wasn't aware of any personal/human factors associated with Matt during the exercise in Norway or during the time leading up to the squadron leaving.
- 3. As far as I know, Matt didn't have any issues with achieving crew rest from the scheduled events the day prior. Additionally, I did not note any issues with his crew day on 18 Mar 2022 as well.

If you'd like me to expand on anything further, feel free to reach out to me on my cell at (b)(6), (b)(7)c and I'd be happy to clarify anything if need be.

V/R,

(b)(3), (b)(6), (b)(7)c

----Original Message----

From:

(b)(3), (b)(6), (b)(7)c

Sent: Monday, April 18, 2022 8:57 AM

(b)(3), (b)(6), (b)(7)c

Subject: JAGMAN Information

## (b)(3), (b)(6), (b)(7)c

Good morning, I am assisting the JAGMAN IO in regards to GT31 and hoped you could answer a few questions for us regarding your Norway roommate, Capt Tomkiewicz.

Before I begin, we do not suspect anyone at this time of any wrongdoing and are therefore not offering 31B rights. These questions are in regard to the JAGMAN investigation and therefore do not fall subject to any privileged information considerations.

- 1. Can you confirm that your roommate was Captain Matthew Tomkiewicz?
- 2. To your knowledge, were there any human factors associated with Captain

Enclosure (17)

Tomkiewicz that may have been affecting him prior to 18 Mar 22?

3. To you knowledge, did Capt Tomkiewicz have any issues regarding achieving the required crew rest the night before 18 Mar 22? Or crew day?

Thank you for your assistance.

V/R,
(b)(3), (b)(6), (b)(7)c

#### First Interview 1 April 2022

Name / Rank / Billet: (b)(3), (b)(6), (b)(7)c VMM-26(1)(3), (b)(6), (b)(7)c

To the best of your knowledge, was any of the mishap aircrew on any prescribed any medication? None of the aircrew were on any standing medications for any chronic medical conditions.

Were you aware of any outstanding human factors that may have affected decision making processes of the aircrew?

Not that I'm aware of.

## Did you do the flight physicals of the aircrew?

I did not do Gunnery Sergeant Speedy's, I don't recall if I did any of the other crew's.

As a medical professional, did you see any differences in the way aircrew were reacting in the cold weather?

Everyone was adapting very well, the dry suits took some getting used to, but by the time of the mishap flight most people have become accustomed to it.

First Interview 6 April 2022

Name / Rank / Billet:

(b)(6), (b)(7)c

VMM-261 DSS

Qualifications and Experience: Deployed to Kuwait, VMM-268 SPMAGTF 2016, two MRF-Ds 2017/2018, DFT to Korea/Phillipines 2019

I went to Resident EWS, and just got back from NARF April-Jul 2021 I attended WTI in the fall of 2021. Flt lead, AMC, 1450 total hours

#### What billet do you hold in the squadron?

I'm the Director of Safety and Standardization, but am not an ASO.

DO you participate in Human Factors Councils? Did you discuss any of the mishap crew in detail? None of the crew members were discussed as having issues during last 3 months of councils.

Have you seen any trends in the squadron as the DSS? Running beyond the capabilities? Common topic discussed during councils was on working towards aircraft grooming and flight hour management in preparation to deploy. And than a lack of distribution of flight hours due to that focus on readiness.

What steps were taken on the maintenance side to ensure you had mission capable aircraft to take to COLD RESPONSE?

I can't speak to specifics of the maintenance department. I wasn't aware of anything like shortcuts or any other specific issues in getting the aircraft ready.

Can you speak on some of the mitigating steps taken to make sure that pilots got hours, academics, training coming back from the NARF and into preparation for hazardous mountainous terrain? The first focus was getting people back into the aircraft consistently during Oct-Dec 2021. From late December to January there was the PTO developed training syllabus that was sim driven due to inability to replicate locally. Syllabus consisted of 3 sim events on LAT in MAT, one to discuss icing system, one to expose crews to "white outs". A crawl-walk-run method. Academics- built like a T&R event. It included discussion items, required readings. Pulled out required reading and publications to resource instructors. NSIs and above were the instructors, leveraged experienced aviators.

Do you have a record of the training?

Owned by (b)(3), (b)(6), (b)(7)c

Were Crew Chiefs required to participate in the training?

CCs were encouraged but not required.

Was the Ready Room receptive to the additional training in preparing for COLD RESPONSE? Ready Room was receptive to training. Required reading pulled out of NATOPS, ANTTP, pulled out limitations and icing concerns.

Was any of the syllabus focused on Energy Maneuverability diagrams and maneuvering inside of terrain?

Yes, more directed to the Bodo reversal numbers. Part of heavy detailed planning.

Who reviewed the Bodo reversal Read and Initial?

Enclosure (17)

## Can you talk about how the Bodo Reversal was introduced to the squadron?

Worked into syllabus that was discussed, part of the sim training plan.

#### Where were the simulator events conducted?

We went to Bridgeport was for one of the sims in order to simulate terrain. Did not use Norway because it was not modeled very well.

#### What is the squadron PED policy and you understanding on it?

We don't have a squadron policy, we fall in on the MAG policy. The policy dictates the use of PEDs for the purposes of mission planning and to aid in enroute structure navigation/procedures with an official PED. As far a personal PED, I'd have to get as far as discretion of where the personal PED falls uner. Driven off of understanding that PEDs should not be distraction or hinderance with flight operations.

What do you know or understand to be an accepted practice by crew chiefs on the PED policy? Don't think I can speak well on CC following policy.

As a culture, does the command work hard to control the utilization of unauthorized PEDs in flight? Not sure I can expound anything beyond our current policy.

#### In your own flights, do you brief the usage of PEDS or how to employ them?

Not specifically part of my NATOPS brief before every flight. During execution I heavily emphasize use of the MAGTAB and if we are going to use it make sure we have a way to secure it. Anytime someone is heads down, we vocalize to ensure that the crew is aware and that someone can pick up the scan outside.

#### Can you describe Capt Tomkiewicz's discipline with planning, briefing, execution?

Capt Tomkiewicz was a great person to have in ready room, average performing pilot. Based on flying with him and being around the ready room and understanding who putsl in lots of time planning vs who is looking to stray away. He was in the middle.

## Did you ever fly with Capt Tomkiewicz as an instructor? How did he deal with events when things changed?

For mission skill events and for one or two night system events. The majority of events I flew with him were PTT type events, not much for me to judge decision making, etc.

## Capt Tomkiewicz had three attempts at his night review syllabus; for various external reasons. Does VMM-261 ever fail a person on a review flight? And if so, what happens next?

Yes, the squadron has failed personnel on review flights. If it's a single event that's failed it requires a detailed ATF, to draw out weaknesses. Instructor makes coordination with Operations and Safety to discuss remediating a specific skill before being evaluated again. Ops and Safety take the recommendations and if necessary conduct additional events to address weaknesses.

Is it common to see MV-22s squadron have pilots utilize the 50 simulator hours to fulfill 10% of the required 500 flight hours to make TAC?

Yes, common in VMM-261 and in other squadrons on the east coast. Less common in Hawaii and on the West Coast.

Interview of (b)(3), (b)(6), (b)(7)c FF/ Maintenance Controller.

Interviewed by(b)(3), (b)(6), (b)(7)con April 20th 2022.

When were you signed SFF? Has been SFF since December 2021.

Any Maintenance Guidance for CR? "Nothing out of the normal."

Procedure to safe an aircraft for flight? Followed the same procedures as we did at home. Biggest issue was computer and printer assets. We only had 3 maintenance computers and one printer.

Is a checklist used? "We used a local generated safe for flight checklist".

What is the usual fuel load amount required for flight? "Around 11K."

Hot pit on the way out? "Yes, hot pits were available if needed on the way out. "

Any pressure to get aircraft turned back around for the flight schedule? "No abnormal pressure to get the birds out".

Anyone taking short cuts to meet the flight schedule? "Not that I am aware".

How was the icing systems as a whole in CR? "We did what we could to fix the icing gripes on the aircraft when they were not on the flight schedule."

How were the working conditions on the aircraft? "Was cold, but maintenance personal had covered area on the flight line to get out of the elements when needed."

Are you a 200 CDI or 200 work center supervisor? No.

MCN: 28T088A. Did you sign the CDI block of the Worker hours, initials AMV? Yes. "Avi shop said they were ATAfed and were walking out the door. I signed the CDI block so the MAF would be M3".

Did you ATAF the tool box? "I did not inventory the tool box prior to signing the CDI block on the MAF".

-Ended Interview-

## VMM 261 Aircrew Interviews conducted 25 April 2022 in VMM 261 Conference Room

VMM 261 interview(3), (b)(6), (b)(Crew Chief, 2Mar2022 flight with MAC

(b)(5), (b)(6), (b)(7)c

(b)(5), (b)(6), (b)(7)c

- 1. CC, PC, BIC, NARF, CR.
- 2. Do you know the policy for the use of PED in Marine Aviation?
  - a. Don't take them. (not accurate understanding of PED policy)
- 3. Were you familiar with authorized LAT training areas or MTRs in Norway used for CR?
  - a. I can't recall.
- 4. Do you remember flying with MAC on 2 Mar 2022?
  - a. Yes, but nothing stands out.
- 5. Do you remember any parts of the flight brief that was given significant attention?
  - a. I can't remember.
- 6. What about minimum altitudes or weather?
  - a. I can't remember.
- 7. What about MAC's attitude prepping for and during flight execution?
  - a. MAC enjoyed teaching, had good CRM, neverfelt unsafe.
- **8.** How often on other flights not with the MAC in Norway did you operate below 500' AGL and what, if anything drove you low?
  - a. I can't recall for sure.
- 9. Did you ever operate in the LAT regime?
  - a. Yes, but stayed above 500' AGL.
- 10. If you were above 500' AGL, why do you say you were in LAT?
  - a. WX, terrain.
- 11. Was there a general minimum altitude you operated at?
  - a. 1000' AGL.
- 12. Did you ever witness anyone using PED on one of your flight?
  - a. Yesb)(3), (b)(6), (b)(7)took pictures with a camera.

## VMM 261 interview()(3), (b)(6), (b)(7 Frew Chief, 2Mar2022 flight with MAC

(b)(5), (b)(6), (b)(7)c

(b)(5), (b)(6), (b)(7)c

- 1. CC, PC, BIC, CDI, NARF, CR.
- 2. What type of demeanor did the MAC have when prepping for a flight or during execution?
  - a. Down to business, I don't remember specifics of the flight brief or flight.
- 3. Do you recall the profiles you flew overwater or feet dry?
  - a. I don't recall exactly, I can't remember, it was almost two months ago.
- 4. Do you recall how LAT training areas/routes were certified in Norway?
  - a. I can't remember.
- 5. Do you recall if minimum altitudes were ever briefed to the aircrew of 261?
  - a. Ya, but I can't recall.

## VMM 261 interview (b)(3), (b)(6), (b)(7)cCo-Pilot, 2Mar2022 flight with MAC

(b)(5), (b)(6), (b)(7)c

(b)(5), (b)(6), (b)(7)c

- 1. CP, NARF, CR
- 2. Did you ever fly in the LAT regime in Norway?
  - a. No, I never did LAT.
- 3. What about your flight with MAC?
  - **a.** We conducted an area fam within 25NM of Bodo, sight-seeing, doing CALS, never left Bodo airspace.
- 4. What were your profiles for this flight?
  - We generally were at 1500' AGL with exception of CALS or conversion mode 12okts/200'
- 5. Were you aware of any routes certified for LAT training?
  - a. I am not sure about being certified but we used the "Hoth" route to the south.
- 6. Was the "Hoth" route the same as the "B" route?
  - a. I think so, not sure.
- 7. How was MAC to fly with?
  - a. He was fun to fly with, not on the controls much.
- 8. When you flew with him did he brief any key risk mitigations?
  - a. Yes, we planned to stay close to Bodo and avoid weather.
- 9. When you mission plan, do you do map studies of your routes?
  - a. No, I don't do intermediate check points.
- 10. How would you describe the culture of the 261 ready room?
  - a. Great place to be, I enjoy being here.
- 11. Did you have a go/nogo for weather in Norway?
  - a. Yes, 1000' cloud deck.
- 12. So, was the 1000' cloud deck a CO imposed restriction?
  - a. No, it was generally up to AC.

## VMM 261 interview (b)(3), (b)(6), (b)(7)c works in Ops, Co-Pilot, 5Mar2022 flight brief with (3), (b)(6), (b)(7)c

Division lead)(3), (b)(6), (b)(7)DLUI, LAT scheduled

(b)(5), (b)(6), (b)(7)c

(b)(5), (b)(6), (b)(7)c

- 1. CP, NSQ, NARF, CR
- 2. Were there certified LAT areas in Norway?
  - a. Yes, the A, B, and C routes.
- 2. How were the LAT areas certified?
  - a. We built them in JMPS, looked at MSA, built a brief to push to higher (3), (b)(6), (b)(†200k care of pushing up.
- 3. Since the NAOC pushed you the A, B, and C routes did the NAOC certify them? Can the Norwegian military certify a LAT area for USMC?
  - a. Yes, the NAOC routes were certified

(b)(5), (b)(6), (b)(7)c

- 4. Did you fly with MAC on 17Mar22?
  - a. Yes.
- 5. What did you do?

Enclosure (ידי)

- a. Last minute tasking changed our plan.
- 6. How?
  - a. Instead of doing an ASR we flew to the south?
- 7. What did you do?
  - a. We flew the B route.
- 8. Did you ever fly below 500' AGLon the B route?
  - a. Maybe, not sure.
- 9. How did you plan the route, did you conduct a detailed route study for significant terrain?
  - a. Followed ANTTP guidelines, with checkpoints 30-60 KM apart.
- 10. Any more stringent added to cockpit brief (looking for discussion of terrain, winds, ect..)
  - a. Nothing outside the usual weather concerns.
- 11. Were any altitude restrictions briefed during mission brief?
  - a. I don't remember (LATROC not briefed?).
- 12. How would you describe MAC's approach to planning and briefing?
  - a. Funny and go lucky up until it is time to work.
- 13. How would you describe the MCP?
  - a. Hard worker.
- 14. Is PED use authorized in USMC aircraft?
  - a. Yes, but I don't recall the exact policy.
- 15. At end of interview b(3), b(6), b(7) stated that he probably flew below 500' AGL but couldn't state how often or why.

## VMM 261 interview, (b)(3), (b)(6), (b)(7)c FOPSO, DLUI, 5Mar2022 flight brief with (3), (b)(6), (b)(2)ivision lead, LAT scheduled (b)(5), (b)(6), (b)(6), (b)(7)c

- 1. Sec Ld, NARF, CR.
- 2. You were schedule for LAT on 5Mar22, but didn't execute the flight. Did you specifically brief the LAT portion and the ROC? Were there certified LAT areas in Norway?
  - a. I didn't brief LAT ROC or anything specific to LAT. I was completely focused on the DLUT portion of the mission.
- 3. What were the certified LAT training areas in Norway?
  - a. I am not sure.
- 4. What flight profiled did you generally fly in Norway?
  - a. 1000-2000' AGL, VMC. I never descended into the LAT regime.
- 5. For your DLUT, did MAChelp you prepare?
  - a. Yes, he was a solid member of the ready room.
- **6.** Did you ever fly with MAC?
  - a. Yes, I flew several hours with MAC, good aviator, no issues, plenty of experience.. he made good decions.
- 7. So, you never operated in LAT regimes while in Norway?
  - a. No.
- 8. How many times did you fly in Norway?
  - a. 8-10 times.
- 9. Did you everfly with MCP?

- a. No.
- 10. Do you know the squadron's PED policy?
  - a. Yes, MAGTABs are authorized. Not sure about others.
- 11. Did you everfly below 500' AGL for any reason?
  - a. I can't remember.
- 12. Did you ever hear about pilots using GoPros?
  - a. No, I have not.

## VMM 261 interview (b)(3), (b)(6), (b)(7) AMO, Acting XO in Norway, 17Mar2022 flight brief with MAC in dash two, mission section CALS/LAT (senior pilot, leadership (6)(5), (b)(6), (b)(7)c

- 1. Squadron AMO, second interview.
- 2. Were you aware that there were no certified LAT areas in Norway?
  - a. No, I assumed if they were on the schedule they were vetted through operations.
- 3. Did you operate in LAT regimes while flying on 17Mar22?
  - a. Yes. S00' AGL, 200kts. We did a handful of times. No intent to fly below 200' AGL. We were really aiming for LL 500-1000 feet AGL.
- 4. Had anyone flown the route (B) before you flew it?
  - a. I am not entirely sure.
- 5. Did you everfly in the LAT environment outside of 17Mar22?
  - **a.** No.
- 6. Were you aware of any briefed altitude restrictions for Norway?
  - a. No.
- 7. Are you aware of the PED policy for the squadron?
  - a. Yes, MAGTABs, other devices powered off and stowed.
- 8. Did you brief LAT ROC for your 17 Mar 22 flight?
  - a. No, I did not. LAT scheduling was used to help mitigate risk.

#### VMM 261 interview, (b)(3), (b)(6), (b)(7) interview 26 Apr (interviewed to ask about GoPro)

- 1. Do you know the PED policy for 261.
  - a. Yes, MAGTABs are authorized.
- 2. Have you heard of conversations where 261 aircrew talked about the use of recording devices?
  - a. Yes, I am also aware that MCP had a GoPro.



# COLD RESPONSE 22 SIMULATOR EVENTS + STUDY GUIDE

Please return this binder to the PTO desk when complete with your event.

Icing/EP Sim 2.0 D S 2 FFS/FTD

<u>Goal</u>: Introduce student to icing system, standard operation, limitations, and failure modes.

<u>Requirements</u>. Conduct day IFR operations in an icing environment to encompass normal operations, emergency procedures, and inadvertent IMC procedures.

#### Discuss

Icing System Components (NFM-000 2.16)

IPS Modes and Menus (NFM-000 2.16.2)

Icing System Failures/Degraded Modes (NFM-000 Figure 2-134)

Icing System Limitations (NFM-000 Figure 4-17)

Built-In-Test System (BITs) (NFM-000 2.25.1)

IIMC Procedures & CRM [NATOPS+ASTACSOP] (MDG Table C-11)

IIMC Procedures (Bodo Breakup)

#### Introduce

Bodo Breakup

#### Review

NATOPS and ASTACSOP IIMC Fan Break

Emergency Procedures, including but not limited to IPS EPs

## Performance Standards

Execute EPs in accordance with NATOPS

Test and operate IPS system in an icing environment

Pilots should perform all three IIMC procedures and associated CRM drills, but SHALL perform NATOPS and Bodo Breakup procedures

Instructor: NI/ANI/WTI/NSI

Pre-requisites: None

#### Simulator Setup and Supporting Files

<u>Narrative</u>: First I hour of simulator can be accomplished as a single by conducting startup in cold environment, followed by operation of icing systems, planned IMC penetration, and review of EPs and icing faults. Second hour of sim is dedicated to conducting IIMC procedures as a section. If unable to network sims, use of a moving model is adequate provided instructor conduct CRM calls as wingman.

Applicable T&R Codes: 2031, 2130, 2730, 6033

Position Set: Bridgeport (7CL4) (West Coast Database)

JMPS Files: None

MAT/LAT Sim 2.0 D S 2 FFS/FTD

Goal: Review conduct of CALs and LAT (conversion and airplane) in a mountainous environment.

Requirements. Conduct performance calculations for operations at high DA landing environment. Landings conducted where mountainous terrain is a significant factor including pinnacles, bowls, valleys, and canyons. Conduct LAT (conversion and airplane) with consideration given to mountainous area effects.

#### **Discuss**

LAT/MAT hidden hazards (NTTP 3-22.3 4.3.4.5)

Orographic turbulence (NTTP 3-22.3 4.2.1.5)

Consideration for LZ selection and evaluation (NTTP 3-22.3 3.2)

High/low reconnaissance pass checklists (NTTP 3-22.3 Table 3-1)

Go/no go point (NTTP 3-22.3 3.1.3.4)

IIMC Procedures (Bodo Breakup)

Energy Management (NTRP 3-22.4 Chapter 6) \*no reference material included

Contour versus low level flight (NTTP 3-22.3 4.3.7)

Low power margin waveoff considerations (NATOPS 11.3.8.2)

Mountain area departures (NTTP 3-22.3 3.5.5)

#### Practice

Bodo Breakup

CALs in a MAT environment, including pinnacles, slopes, bowls, valleys, and crosswind landings

#### Review

NATOPS and ASTACSOP IIMC Fan Break

Emergency Procedures in the LAT environment

Section LAT Maneuvers

Conversion mode maneuvering

#### Performance Standards

Execute EPs in accordance with NATOPS

Test and operate IPS system in an icing environment

Pilots should perform all three IIMC procedures and associated CRM drills, but SHALL perform NATOPS and Bodo Breakup procedures

<u>Instructor:</u> NI/ANI/LATI <u>Pre-requisites:</u> Icing/EP Sim

#### Simulator Setup and Supporting Files

<u>Narrative:</u> Utilize JMPS computer to brief LAT route execution. Section event beginning and ending at Bridgeport. Network sims, depart to conduct VIRGINIA ROUTE to hit L-Hr in to LZ SWALLOW. Utilize remaining sim time to conduct MAT CALs, EPs, and practice Bodo Breakup. Navigation after LAT route at discretion of IP (zones of opportunity).

Applicable T&R Codes: 2630, 2730, 6033

Position Set: Bridgeport (7CL4) (West Coast Database)

<u>Environment</u>: Winds 010/10, Ceilings 13,000 (this should result in a IIMC/ Breakup situation during route); if no IIMC required, CAVU. RVL settings at discretion of IP.

JMPS Files: CR22 PTP Files including VIRIGNIA ROUTE overlays.

Goal: Review RVL procedures in a mountainous area, white-out environment.

Requirements. Conduct performance calculations for operations at high DA landing environment. Landings conducted where mountainous terrain is a significant factor including pinnacles, bowls, valleys, and canyons. Conduct all approach types that utilize coupled automation. Land within NTTP standards for RVL conditions.

#### Discuss

NATOPS RVL limitations (NFM-000 4.14.6)

Vertical (RADALT/VS) and horizontal (POSN/GNDSPD) submodes of automation (NTRP Ch 13)

Consideration for LZ selection and evaluation (NTTP 3-22.3 3.2) \*See MAT/LAT sim section for reference discussion material

Wave-off criteria for RVLs (MDG 5.5.6.1)

RVL CRM cadence (MDG Table C-24 and C-25)

Go/no go point (NTTP 3-22.3 3.1.3.4) \*See MAT/LAT sim section for reference discussion material

Go Around Function (NTRP pg. 13-118)

#### **Practice**

Takeoffs and departures with various levels of obscuration CALs in a MAT environment, including pinnacles, slopes, bowls, valleys, and crosswind landings

### Review

Emergency Procedures during RVLs RVL procedures with and without the use of automation RVL Departures and waveoffs

#### Performance Standards

Conduct MAT RVLs within standards per T&R manual Ch. 2.

<u>Instructor:</u> NI/ANI/RVLI <u>Pre-requisites</u>: MAT/LAT Sim

## Simulator Setup and Supporting Files

Narrative: Single or section event utilizing zones from MAT sim. Set device to override, 200% whiteout (snow). Conduct day RVLs for 1 hour or until comfortable and reset environmentals to night.

Applicable T&R Codes: 2270, 2271, 2730, 2731, 6033 Position Set: Bridgeport (7CL4) (West Coast Database)

JMPS Files: CR22 PTP Files



#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR SQUADRON 2-1
MARINE AIRCRAFT GROUP 26 2D MARINE AIRCRAFT WING FMS
POSTAL SERVICE CENTER BOX 21-1-6
JACKSONVILLE NC 28545 1016

3710 DSSN 25 Jan 22

From: Standardization Officer, Marine Medium Tiltrotor Squadron

261

To: Commanding Officer, Marine Medium Tiltrotor Squadron 261

Subj: STANDARDIZATION BOARD MINUTES FOR JANUARY 2022

Ref: (a) CNAF M-3710.7

(b) MCO 5100.29C

(c) VMM-261 Safety Management System

(d) VMM-261 Flight Operations SOP

(e) ASO 3710.7Y

Encl: (1) Qualification and Designation Matrix

(2) Bodo Reversal

1. The Marine Medium Tiltrotor Squadron 261 (VMM-261) Standardization Board convened on 25 January 2022 in accordance with the references.

2. The following members were present:

(b)(3), (b)(6), (b)(7)c Executive Officer Director of Safety and Standardization Aviation Safety Officer Assistant Operations Officer	(b)(3), (b)(6), (b)(7)c Executive Officer  Director of Safety and Standardization  Aviation Safety Officer	(b)(3), (b)(6), (b)(7)c	Aviation Maintenance Officer
(b)(3), (b)(6), (b)(7)c  Director of Safety and Standardization Aviation Safety Officer Assistant Operations Officer	(b)(3), (b)(6), (b)(7)c  Director of Safety and Standardization Aviation Safety Officer Assistant Operations Officer Pilot Training Officer		Operations Officer
Aviation Safety Officer Assistant Operations Officer	Aviation Safety Officer Assistant Operations Officer Pilot Training Officer		
Assistant Operations Officer	Assistant Operations Officer Pilot Training Officer		
A MANAGEMENT AND A STATE OF THE PARTY OF THE	Pilot Training Officer		The second secon
	The state of the s		· · · · · · · · · · · · · · · · · · ·

#### 3. Old Business.

## a. Bodo Reversal Corrections

(1) After rehearsals and thorough review, the Bodo Reversal has been finalized. All aircrew participating in Cold Response 22 shall be familiar with this procedure, incorporate it into flight briefs, and practice it in CR22 PTP sims.

#### 4. New Business

Enclosure (19)

Subj: STANDARDIZATION BOARD MINUTES FOR DECEMBER 2021

- a. Icing Procedures in Norway.
- (1) Start plane with IPS selected OFF. Manually turn on what is required in accordance with your flight profile. If icing penetration is expected, IPS PFBIT shall be run prior to departure.

#### CO's Comments:

<u>CIRCUIT BREAKER</u> DISCIPLINE is key here. Pilots need to review the ADB for proper IPS configuration and ensure the aircraft matches. Initiate and update MAFs as required so subsequent crews have the most accurate information.

- 5. Instrument Flight Board. None.
- 6. Aviation Safety Counsel. None.
- 7. Proposals
  - a. Reduced Visibility Landing Instructor
    b. (b)(3), (b)(6), (b)(7)c Functional Check Pilot
    c. Flight Lead, Air Mission Commander,
    Weapons Tactics Instructor
    d. Section Lead
    e. (b)(2)Low, (b)(6), (b)(7)c Low Altitude Tactics Instructor LATI:
    Assistant NATOPS Instructor (ANI), Crew
    Resource Manager Facilitator (CRMF)
  - g . (b)(3), (b)(6), (b)(7)c ANI, CRMF LATI

CO's Com		
Approved	(b)(3), (b)(6), (b)(7)c	

(b)(3), (b)(6), (b)(7)c

VMM-261 MV-22R	AIRCREW DESIGNATION AND	OUALIFICATION MATRIX
A MINIMATOT MIA-550	AINCILLY DESIGNATION AIN	2 GOALII ICA HOM MATINIA

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	Х										1														
	X	X	X	P/7		P/10			P/1		P/1		X	Х			Х	X	X	X	X	X	X	X	X
	Х																Z								
	X	X	X										X	X			X	X	X	X		X	Х	X	X
	X	X	X	X	X	Х	X	X	X	Х	X		Х	X	X		X	X	X	X	X	X	X	X	X
	Х	Х	Х	X	X	Х	X	P/7	Z	P/7	Z		X	X			X	X	X	X		X	X	X	X
	X																2		Z			AWP			
(b)(3), (b)(6), (b)(7)c	X	P/9											X				Z		X	X		X	X	X	
(2)(3); (2)(3); (2)(.)3	X	P/9	P/1										X				X	Z	X	Х		X	Х	X	
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	X	P/9											X				X		X	Х		X	Х	X	
	X	Х	X	P/7		P/10							X	X			X	X	X	X	X	X	X	Х	X
	X	Х	X	X	X	X	Х		X	<u> </u>	Х		X	Х	X		Х	X	X	X	X	X	Х	Х	X
MOORE CPL	X	Х	P/10										Х				X	х	X	X		X	X	X	
	X	X	X					-					X				X	X	X	X	X	X	X	X	
	X																AWP								
(b)(3), (b)(6), (b)(7)c	X																Х	2	2	Z		AWP			
(2)(3), (2)(3), (3)(1)3	X	X	X	P/12		P/12			P/1		9/1		X				Х	X	X	X	X	X	X	X	X
	Х																X		Z						
CMMR	20	8	6	6	4	4	2	1	4	1	5														-
ON HAND													17	9	3	0	18	13	17	17	8	17	17	15	8
Proposed		4	3	2	0	2	0	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AD												PC	CDI	CDQ	QAR	LAT	NS LAT	HLL	ш	CQ	DAYTE	MS TG	TGQ 240	TGQ -21
(b)(3), (b)(6), (b)(7)c	P/8																X		X	X		Х	X	X	
SPEEDY	P/9																Z		X	X		X			
	X																Х	X	X	X		X	X	X	
(b)(3), (b)(6), (b)(7)c	X															1	Х	X	X	Х		Х	Х	X	
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nev	12																12	12	12	12		12	12	12	
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Proposed	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0

LEGEND

X = QUALIFIED / DESIGNATED

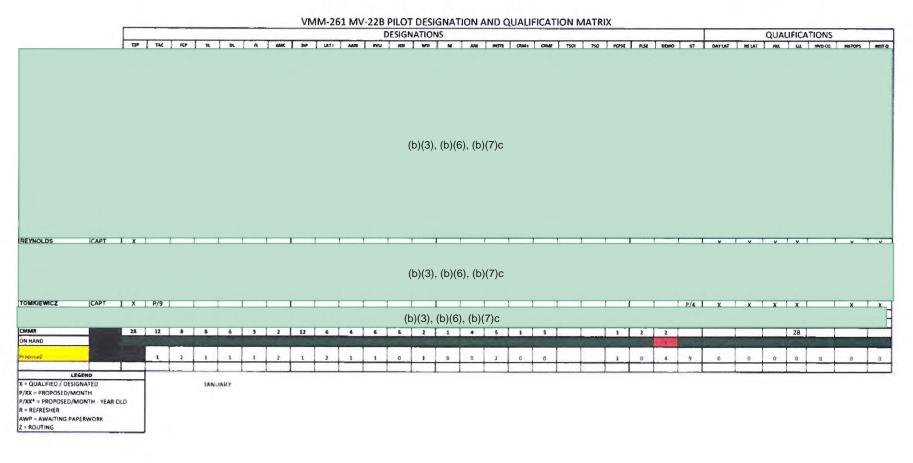
P/XX = PROPOSED/MONTH - YEAR OLD

R = REFRESHER

AWP = AWAITING PAPERWORK

Z = ROUTING

JANUARY



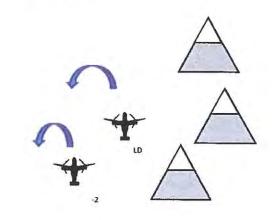
### **BODO REVERSAL**

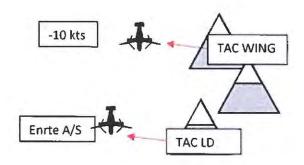
This is a VISUAL FLIGHT RULES maneuver that is intended to be executed PRIOR to going in to IMC conditions. However, it can be executed utilizing instruments if an aircraft goes IIMC. DTED is required to execute this maneuver while IMC.

-If terrain is especially canalizing, consider use of trail formation.

-During low altitude flight, each aircraft spins heading bug to the "escape heading" based on terrain and DIGMAP study. This "escape heading" is updated throughout every route turn and verbalized to the crew.

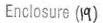
- Lead flies closest to the he fjord, following "rules of the road". This puts lead closest to the ground visual reference of the ridgeline wall and remaining aircraft fly echelon left
- "Elvis Flight, execute Bodo Reversal" is called when either aircraft is able to fly VFR but experiences one or more of the following:
  - Has less than 3 visual references contrasting the winter landscape, OR
  - b. Subsequent aircraft anticipates losing their visual interval, OR
  - Aircrew scanning the 6 o'clock begin to lose terrain references first (to ensure an unobstructed reversal).
- "Elvis 11 POPEYE, execute Bodo Reversal" is called when any aircraft goes IIMC and determines the best way to regain VMC is by reversing course. There is no difference in procedures when executed VMC or IMC.
- At the command of execution, -2 executes a left turn utilizing 30 degrees AOB and announces "in the turn" once 30° AOB is established.
  - a. "In the turn" is the command for LD aircraft to initiate their 30° AOB turn.
  - b. -2 assumes the TAC LEAD on the reversal, doubtless of which aircraft commands the maneuver. As TAC LEAD, they are responsible for transmitting the escape heading on intraflight by verbalizing "Out \_\_\_" (Ex.: "out 180").
  - Altitude changes are not prescribed but shall be verbalized to wingman on intraflight.
- Rolling out, TAC LEAD retains enroute airspeed. TAC WING aircraft reduces speed by 10 knots until desired A/A TACAN separation is achieved.





#### NOTES

- TAC lead change is implicit once maneuver is called.
- >30° AOB may be used if required by terrain; exceptions to 30° AOB shall be communicated to wingman.
- Altitude changes are at discretion of PIC and based on altitude, terrain, and anticipated icing conditions.
   Communicate altitude deviations to wingman.
- Expect heavy reliance on DIGMAP, DTED, and trend dots if executed in IMC conditions.





#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR SQUADRON 261
MARINE AIRCRAFT GROUP 26 2D MARINE AIRCRAFT WING, PMF
POSTAL SERVICE CENTER BOX 21016
JACKSONVILLE NC 28545 1016

THE REPLY REFER TO 3710 DSSN 27 Feb 22

From: Standardization Officer, Marine Medium Tiltrotor Squadron

261

To: Commanding Officer, Marine Medium Tiltrotor Squadron 261

Subj: STANDARDIZATION BOARD MINUTES FOR FEBRUARY 2022

Ref:

(a) CNAF M-3710.7

(b) MCO 5100.29C

(c) VMM-261 Safety Management System

(d) VMM-261 Flight Operations SOP

(e) ASO 3710.7Y

Encl: (1) Qualification and Designation Matrix

1. The Marine Medium Tiltrotor Squadron 261 (VMM-261) Standardization Board convened on 25 and 27 February 2022 in accordance with the references.

#### 2. The following members were present:

	Aviation Maintenance Officer
	Operations Officer
	Executive Officer
	Director of Safety and Standardization
(b)(3), (b)(6), (b)(7)c	Aviation Safety Officer
	Assistant Operations Officer
	Pilot Training Officer
	NATOPS Officer
	Enlisted Aircrew Training Manager

#### 3. Old Business.

#### a. Icing Procedures in Norway.

(1) Start plane with IPS selected OFF. Manually turn on what is required in accordance with your flight profile. Pilots need to review the ADB for proper IPS configuration, and ensure the aircraft capabilities match the mission requirements. Initiate and update MAFs as required so subsequent crews have the most accurate information. Subj: STANDARDIZATION BOARD MINUTES FOR FEBRUARY 2022

4. New Business.

#### a. RVLS Training Plan

(1) With the RVLS software installation in progress in RBE, we have come up with a basic training plan that essentially echoes HX-21's recommendations: All pilots will receive an RVLS brief from an RVLI, and should have an RVLS fam sim completed before flying an RVLS aircraft. All pilots SHALL have an RVLS fam sim completed before executing RVLs in an RVLS aircraft. Operations will be responsible for tracking this training.

CO's Comments:	
Concur.	
aluecontentante MA 1994	

#### b. Cold Response Specific

- (1) A digital Read and Initial Binder with SOPs for Norway specific procedures has been created and shall be reviewed by all Cold Response aircrew. It is located on the share drive at  $Z:\setminus(14)$  E-Pubs\10. Cold Response 2022 Read and Initial.
- (2) Nacelle modulation is mandatory at ENBO if loitering at the hold short or on the runway due to runway epoxy coating heat considerations.
- (3) Aircraft returning to be hangared in Hangars 504 and 505 shall be shut down in front of Hangar 503, stowed, and then towed into their respective hangars. Aircraft departing from Hangars 504 and 505 will be towed in front of Hangar 503, then unstowed and unfolded prior to man time.

CO's Comments:	
Concur.	

#### 5. Instrument Flight Board.

#### a. Unpredictable Norwegian Weather

(1) All pilots shall become familiar with the different instrument approaches at nearby airfields due to the complexity as well as the different layout that these approaches contain.

Subj: STANDARDIZATION BOARD MINUTES FOR FEBRUARY 2022

6. Aviation Safety Council. None.

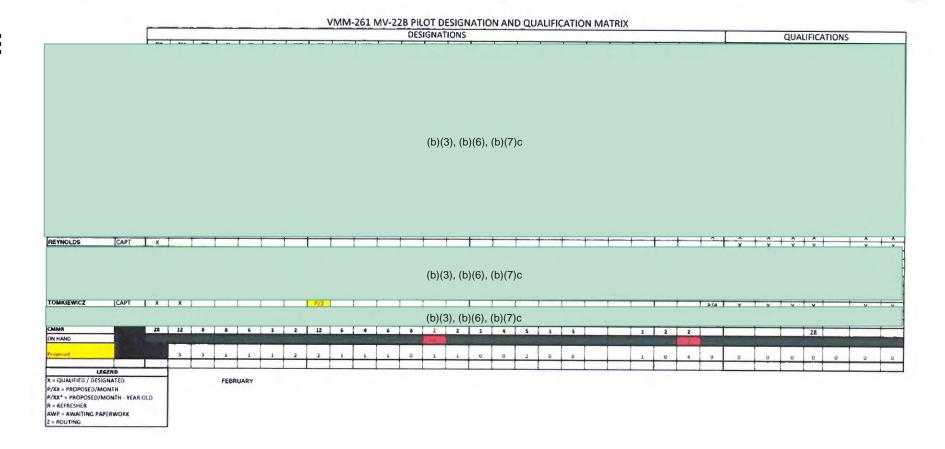
### 7. Proposals.

a. (b)(3), (b)(6), (b)(7)c- Tiltrotor Aircraft Commander (TAC) TAC (b)(3), (b)(6), (b)(7)c C. - TAC d. (b)(3), (b)(6), (b)(7)c - Functional Check Pilot (FCP), Basic Instructor Pilot (BIP) e. Capt Tomkiewicz - BIP £. Defensive Combat Maneuver Instructor (DCMI) g. (b)(3), (b)(6), (b)(7)c Low Altitude Tactics Instructor (LATI) h. LATI i. Basic Instructor Crew Chief (BICC) (b)(3), (b)(6), (b)(7)cBICC j.

CO's Comments:

Approved.		
4	(b)(3), (b)(6), (b)(7)c	

(b)(3), (b)(6), (b)(7)c



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		cc	BICC	LATI	ecsa	TG1240	TGI GAU-21	WII	PGI	ANI	CRMI	CRMF	QASO	PC	CDH	CDQ	GAR	DAYLAT	NS LAT	MLL	ш	cq	DAYTG	NS TG	TGQ 240	TEQ -
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	CPL	X 20	X	P/10	6	4	4	2	1	(b)	(3), (b)	(6), (b	)(7)c	X				X	X	х	×		ı x	X	X	
1R	CPL				6	4	4	2	1	7			)(7)c	17	9	3	0	X 18	X 13	X 17	X 17	8	17	X 17	X 15	
MR HAND	CPL	20			6	4	4	2 0	1 0	7			)(7)c	17	0	0	0	18	13 0	17 0	17	0	17	17	15	(
MR HAND	CPL		8	6						0	0	S 0	0	17	-	-		18	13	17	17	-	17	17	15	-
MR HAND posed		20	8	6						0	1	0	0	17	0	0	0	18	13 0	17 0	17	0	17	17	15	-
MR HAND posed	GYSGT	20	8	6						0	0	0	0	17	0	0	0	18 0 LAT	13 0	17 0 HLL	17 0 uu	0	17 0 DAYTG	17	15	
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LEGEND

X = QUALIFIED / DESIGNATED

P/XX = PROPOSED/MONTH

P/XX\* = PROPOSED/MONTH - YEAR OLD

R = REFRESHER

AWP = AWAITING PAPERWORK

Z = ROUTING

FEBRUARY

### Philosophy

- · Why go low?
  - Threat
    - Break down Integrated Air Defense Systems (IADS) into autonomous modes
  - Deny or delay enemy radar acquisition
  - Weather
- LAT gives us the capability to provide assault support while operating at a low altitude
- LAT is a tool, not the endstate
  - In combat, you don't set out with the mission to execute LAT; you use LAT to execute your mission

So, if we have three choices of altitudes, why would we choose to go low? Obviously the threat can drive us low. By flying low we may be able to force his Integrated Air Defense Systems (IADS) into autonomous modes. Additionally, we may attempt to gain the element of surprise as a result of flying low in order to deny or delay radar acquisition. This can also be done through direct or indirect terrain masking. Something we don't often consider, however is that we may be driven low by the weather. If you have spent the last year or so in a desert environment, you could be in for a rude wakening should your squadron deploy to Europe or Korea.

The goal of the LAT program is to provide us with the capability to conduct our mission successfully at low altitude. However, LAT should not be looked at as the endstate of training. Instead, it should be looked at as a stepping stone to learning Ground Threat Reaction (GTR) and later Defensive Combat Maneuvering (DCM). Safe, repeatable control of the aircraft in vertical maneuvers and the LAT environment will enable you to react to threats and reach the objective area to complete your mission in a combat environment.

#### Execution

- · Walk, spin, and launch on time!
- Distinct transition to LAT environment
- Plan your descent and recovery
- · Set Radar Altimeter (RADALT)
- Maneuvers
- · Crew responsibilities
  - Terrain Clearance Tasks (TCT)
  - Mission Tasks (MT)
- Make your transition to LAT distinct. Announce it to the crew, ensure your FENCE checks are complete (including resetting your RADALT to 10% below your minimum altitude), and then commence your descent. A lazy, unplanned descent may introduce hazards that the crew is not prepared for. Plan your descent and make sure that it is briefed to the flight. Also, brief the planned recovery. If the conditions are not met to use the dive recovery rules then have a plan to recover e.g. tactical descent until 2000' AGL, break descent to 2000 FPM until 1000' AGL, break descent and use the small descent rule to your briefed altitude.
- Remember LAT is not just low level navigation, it includes the basic and advanced maneuvers. Ensure everyone in your aircraft and flight know when you are going to commence those maneuvers so they are prepared. Also, ensure that you don't "beat up" your aircrew with too many maneuvers. If their stomachs aren't up to the task they are going to call a KIO anyways. So, do some maneuvers, fly some straight and level, and then do some more maneuvers.
- Remember to focus on the correct tasks during LAT. The PF should be doing almost solely TCT while the rest of the crew is doing MT.

### LAT Flight Profiles

2 1 1 1 0 1 1 1 2 1 5 1 4

- · Low Level Flight
  - Selected altitude to minimize or avoid enemy detection or observation
  - Generally consists of straight line navigation, constant airspeed, and constant altitude (MSL)
- Contour Flight
  - Conforms generally to the elevations of the earth
  - Takes advantage of available cover and concealment to avoid enemy detection or observation of the aircraft
  - Airspeed and altitude vary as terrain and obstacles dictate

For MV-22s there are two flight profiles that can be flown during LAT. The first is low level flight which consists of generally straight line navigation at a constant altitude and constant airspeed. The second is contour flight which generally conforms to the elevations of the earth with varying airspeed and altitude as obstacles and terrain dictate. Low level flight might be used for times when avoiding the weather is the reason for flying low, whereas contour flight might be used to prevent enemy acquisition through the use of terrain masking.

#### UNCLASSIFIED//FOR-OFFICIAL-USE-ONLY

## M-SHARP Schedule Validation Report for 3/18/2022 - VMM-261 Validated: 03/17/2022 : 1434 (W. Europe Standard Time)

#### 30-1 MV-22B TBD - TBD

#### (b)(3), (b)(6), (b)(7)cMV-22B Crew Chief

- Not proficient in the following NATOPS qualifications:
  - · NATOPS AUDIT
  - · APR AUDIT

#### 31-1 MV-22B 1230 - 1800

#### Moore, Jacob Michael Cpl - MV-22B Crew Chief

- · Not proficient in the following NATOPS qualifications:
  - · NATOPS AUDIT
  - · APR AUDIT

#### Speedy, James William GySgt - MV-22B Aerial Observer/Gunner

- Not proficient in the following NATOPS qualifications: (He has not had a NATOPS check yet due to his location in the syllabus. KAH)
  - · NATOPS, MV-22B (E
  - · NATOPS Closed, MV-22B
  - NATOPS Open, MV-22B
  - · CRM Flight
  - · Emergency Egress
  - · Aeromedical Brief (Completed 11FEB22 and now logged in MSHARP. KAH.)
  - · NATOPS AUDIT
  - · APR AUDIT

#### Tomkiewicz, Matthew James Capt - MV-22B Pilot

- · Not proficient in the following NATOPS qualifications:
  - · APR AUDIT

#### MAG-26 Risk Assessment Worksheet EXECUTION



OVERALL PLANNING RAC: L M

			Aircrew		
	TOMKIEWICZ	REYNOLDS	MOORE	SPEEDY	
		Operations Data			
Days Since Last Flight	6	7	1	134	
Last 30 (Day / Night)	15.3/0	6.3/2.3	28.5/5,6	0/0	
Mission Specific					
Mission Specific					
	Aicre	w Self-Assessment	100		
Any congestion or illness? If so, any medication (AFRIN, asprin, etc.)	N	N	N	N	
Personal / Work concerns that may effect your ability to focus or accomplish mission?	N	N	N	N	
Are you free from the affects of alcohol?	Υ	Y	Υ	Υ	
Have you had sufficient crew rest with quality sleep?	Υ	Y	Υ	Υ	
re you flying through chow? Have you had sufficient food to get you through the flight?	Y/Y	Y/Y	Y/Y	Y/Y	
FLIGHT SCHEDULING		YES	NO	UNK	IAPPROVED

1. FLIGHT SCHEDULING	YES	NO	UNK	JAPPROVED
Schedule change	New RAW			
Aircrew Change	New RAW	L		
Mission change	New RAW	L		
Airfield Status interferes with mission	RAC	L		
R&I Current	L	NO-GO		- 3
Monthly EP Test / Sim Complete	L	NO-GO		

ROUTINE OPERATING AREAS		> 1000/3	500/1 - 1000/3	< 500/1	
	Day VFR	L	L	NO-GO	
	IFR		L	L	
	Unaided	L			
	NVG VFR	L	M	NO-GO	
ON-STANDARD OPERATING AREAS		Over Water	Desert	Mountain	Snow
	NVG HLL	L	L	L	L
	NVG LLL	M	M	M	L
	Unaided	M	M	M	M
	Day		L	L	L

3. AIRCRAFT STATUS	YES	NO	
Aircraft PMC & affects mission	M	L	
Load Comp checked and sufficient for current mission	L	M	
ECS INOP with OAT > 27 C	M	1	

(b)(3), (b)(6), (b)(7)c	
ÓDO Signáture	

DATE: 18 March 2022	EVENT: 3-1			
TAC: TOMKIEWICZ	COPILOT:	REYNOLDS		
AIRCREW: MOORE	AO	SPEEDY		
4.BASH	LOW	MOD	SEVERE	APPROVAL
Airfield	L	L	NO-GO	
LAT		M*	NO-GO	

To your knowled	ge, has this mission been assigned and resourced IAW standard risk controls? Is everything with
	CNAF 3710, NATOPS, T&R, and SOPs?
	YES
Have you identif	fied any hazards that require additional risk controls? If yes, what are they? What controls will you
navo you idoniii	implement to lower the risk?
	implement to lower the risk:
	11.6
10000	NO NO
Will the	plan require anyone to operate near a crew performance, aircraft or environmental limit?
	NO
Are you clear or	n the plan and mission objectives, does it correlate well with what you think the CO intended when
	signing the flight schedule?
	YES
W	hat is the riskiest thing you will do on this mission and how will you mitigate that risk?
I IGHT IN MOUN	TANIOUS TERRAIN IN POOR WX. WX TRIGGERS TO NOT CONDUCT THAT FLIGHT PROFIL
LIGHT BRIEF C	OVERALL RISK (Aircraft Commander)
MKIEWICZ, MAT	TTHEW IS!
ht Brief - TAC	

#### MAG-26 Risk Assessment Worksheet



#### **PLANNING**

MISSION PLANNING	YES	NO
Mission Precedence > Routine	M	L
All Aircrew Current with NATOPS requirements	L	NO-GO
Aircrew / Instructor Qualified	L	NO-GO
NS TAC >15 days	GO	NO-GO
Check / Certification Event	M	L

AIRCREW FATIGUE / ENVIRONMENTAL	YES	NO
Planned Flight Duration >6 hrs (Non-CCX)	M	L
Planned Flight Duration > 10 hrs (CCX)	M	L
Crew Rest < 10 hrs	NO-GO	L
Exposure Suit Required (See CNAF 3710)	M	L
Over Water Ops/No suitable divert	H	L
Crewmember >15 hours in past 5 days	M	L
Crew show >3 hours prior to normal show time	M	L
Scheduled land time > 3 hours past normal end of workday	M	L

FORMATION	YES	NO
Dissimilar / Joint / Combined A/C	M	L
Different Unit / Mixed Unit Crew	M*	L
*Low if flight brief conducted with all aircrew		

CAL	YES	NO
CAL site DOD	L	M*
CAL site in populated area	M	L

Reduced Visibility Landing (RVL)	YES
RVL6900 within 30 days	M*
RVL6900 > 30 days, but < 90 days	M
RVL6900> 90 days	H**
*Lif TAC has flown RVL6900 to planned zone within 7 day	

INCIIOO	120	130
Dissimilar / Joint / Combined A/C	M	L
AMC/EFL/AFL briefs conducted	L	NO-GO
LAT	YES	NO
LAT scheduled within 1 hour of sunrise/sunset	M	L
Event to Certify Route	M	

AAR	YES	NO
Multiple Tankers in AOR / Track	M	L
Multiple receivers (Dissimilar A/C)	M	L
Tanker NVG compatible	L	M
AAR required for RTB without suitable divert (Must Plug)	EH	L

Ordnance / TG	YES	NO
Range regulations established/received	L	NO-GO
Laser use employment and restriction established/received	L	NO-GO
U.S. Range Control	L	M
Established Hung Ordnance Procedures	L	M
Deconfliction of fires/airspace established	L	NO-GO
Friendly pos/GCE scheme of maneuver known	L	NO-GO
AIE	YES	NO
Is DZ a Bldg/Structure	M	L
SPIE	М	L
Day	L	М
GTR/DCM	YES	I NO

GTR/DCM	YES	NO
Day	L	M
# Friendly aircraft - more than a section	M	L
Adversary brief conducted in person	L	M'
U.S. Range Control	L	M
*NO-GO if adversary brief not conducted		

EXTERNALS	YES	NO			
Load crosses populated area	M				

SHIPBOARD CQ/FCLP	YES	NO
More than 2 a/c in an uncontrolled pattern	M	L
LHD/LHA	L	M
Unaided Night	M	L

L	М
YES	I NO
М	L
M	L
	M

CBRN	YES	
CBRN In Aircraft	н	

#### DIRECTIONS FOR USE

ONE RAW PER AIRCRAFT

- 2. CIRCLE OR HIGHLIGHT THE APPLICABLE RISK LEVEL IN EACH SECTION THAT APPLIES
- 3. OVERALL RISK IS THE HIGHEST RISK FACTOR IN EACH SUBMATRIX.
- 4 ADDRESS MITIGATIONS FOR M, H, EH. IDENTIFY AT LEAST (1) RISK/HAZARD AND ITS CONTROL MEASURE 5. CARRY THE FINAL OVERALL RISK LEVEL ONTO THE FLIP SIDE FOR ODO AND CREWS TO FILL OUT.

NIGHT TAC SIGN: FLOWN MV-22B IN LAST 15 DAYS CREW DAY: 12 HRS OR IAW LAND TIME	
NIGHT CURRENCY FOR PAX. 1.0 NVG, (2 BOAT LANDINGS), 30 DAYS	
NIGHT TAC SIGN: FLOWN MV-22B IN LAST 15 DAYS	
CREW DAY: 12 HRS OR IAW LAND TIME	
CREW REST: 10 HOURS OR IAW LAND TIME	

RISK ASSESSMENT	
Operations Mitigation Comments:	
DSSN Mitigation Comments:	
CO Mitigation Comments:	

Most Dangerous Hazards / RAC	RAC Level	Control Measure(s) / Mitigation	New	RAC Le	vel
	LMH		L	м (	Н
	L M H		L	M I	Н
	LMH		L	м	н
	LMH		L	М	н
	LMH		Ľ	М	Н
	LMH		L	м 1	н
	LMH		L	м !	н

v)	LUVV								
A SECTION OF SHAPE WAS ASSESSED.	GO 3500.23 FURTHER DE	FINE SEVERITY / F	PROBABLITY CATERGO	DRIES					
EH - EXTREMLY HIGH - MAW C		APPRO	APPROPRIATE APPROVAL REQUIRED IF FINAL RISK						
H - HIGH - MAG/MEU/SPMAGT M - MEDIUM - *SQUADRON CO		ASSE	SSMENT FALLS UN	DER THESE CATEGORIES					
L - LOW - NO ELEVATED APP				* OR BYDIR					
Cincaton lat									
Signature: /s/ 24 HOUR RISK - OPS			M						
24 HOUR RISK - UPS			IVI						
Signature: Isl									
24 HOUR RISK - Safety		L	M	日					
Signature: /s/									
24 HOUR RISK - CO		L	M	H					
Signature:									
24 HR - MAG/MEU CO/MAW	CG Signature (Hig								
		Version	2 (rev. 20210623	)					

PROBABILITY LIKELY PROBABLY

CRITICAL MEDIUM MAY

UNLIKELY

## VMM-261 ODO BRIEF



(b)(3), (b)(6), (b)(7)c

## 18 Mar 2022 0900







## **FLIGHT SCHEDULE**



<u>B/U:</u> <u>ODO</u> (b)(3), (b)(6), (b)(7)(9900-LPOD) DATE: 18 Mar 2022 Day: <u>TEMP</u> +5

<u>PA</u> -160

<u>DA</u> -1416 FREEZING LEVEL +XK

ENBO FIELD HOURS: 24	HRS	PANT / CD.	0412 / 0611	SC / FENT	1912 / 2012	NAD / NAC.	1915 / 0702	ILLUM: 100%	LLL:	NONE
QUIET HOURS: NO	ONE	DIVINIT / SK.	0412 / 0011	35 / EENT:	1012 / 2013	IVIK / IVIS.	WIS: 1815 / U/U3	ILLUIVI. 100%	HLL:	2013-0407*

EVENT	TMR	BRF	ETD	ETR	HRS	AIRCREW	TRAINING CODES	MISSION	NOTES	CONFIG
GHOST										
3-0	2K2	0900	TBD	TBD	TBD	(b)(3), (b)(6), (b)(7)c		FCF		
MV-22B										
						CAPT TOMKIEWICZ, M.	2240, 3040			
GHOST	1.1.1	0000	1100	1900	6.6	CAPT REYNOLDS, R.	2240, 3040	ALS /		
3-1 MV-22B	1A1	0900	1100	1800	0.0	CPL MOORE, J.	2240, 3040	MARLOG	1	
						GYSGT SPEEDY, J.	2240P, 3040P			

@ AIR MISSION COMMANDER / # FLIGHT LEAD / \*\* DIVISION LEAD / \* SECTION LEAD / X ATF REQUIRED / R NOT PROFICIENT / P PROFICIENCY EXPIRES W/I 90 DAYS

\*\* UNLESS OTHERWISE INDICATED, ALL FLIGHTS WILL ORIGINATE AND TERMINATE AT BODØ AIR BASE (ENBO) \*\*

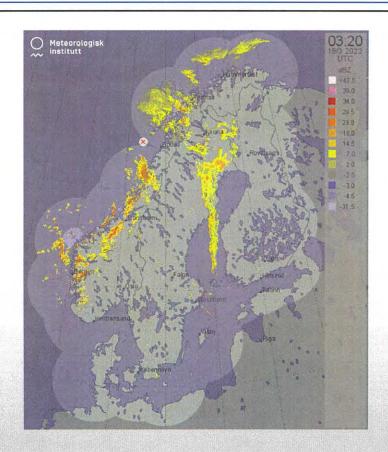
#### **FLIGHT NOTES:**

1. TBD: CREW TO MARLOG AT ENKJ.

FCF: E CARD A/C 16 GT A/C 13

# **RADAR**







# SIGMETs/AIRMETs







# METARs / TAFs



Data at: 0735 UTC 18 Mar 2022

ENBO 180720Z 23025KT 9999 SCT025TCU 06/01 Q1017

TAF ENBO 1806/1906 20012KT 9999 BKN040

TEMPO 1806/1808 RA BKN014

TEMPO 1806/1824 23025G35KT 4000 SHRAGS BKN012CB

PROB30

TEMPO 1812/1818 TS

TEMPO 1900/1906 4000 RA BKN008

ENDU 180720Z VRB02KT 9999 FEW030 BKN040 05/M01 Q1011 BECMG 23012KT RMK WIND 1100FT 19013KT WIND 2200FT 21029KT

TAF ENDU 1806/1906 VRB03KT 9999 -SHRA FEW030 BKN040

BECMG 1808/1810 23012KT

TEMPO 1808/1824 24015G25KT 4000 SHRASN SCT020CB

BECMG 1900/1902 RA

TEMPO 1903/1906 24018G30KT

ENTC 180720Z 19016KT 9999 BKN040 05/M01 01010 NOSIG RMK WIND 2600FT 18028KT

TAF ENTC 1806/1906 18015KT 9999 FEW025 BKN040

TEMPO 1806/1812 RA

TEMPO 1812/1824 22022G32KT 4000 SHRASNGS BKN014CB

PROB30

TEMPO 1818/1821 TS

TEMPO 1900/1906 4000 RA BKN008

ENHF 180720Z 21009KT 9999 FEW038 BKN120 03/M02 Q1008 RMK WIND 1254FT 22015KT

TAF ENHF 180500Z 1806/1815 24009KT 9999 FEW040 BKN070

TEMPO 1806/1812 17015G25KT

BECMG 1811/1813 24025KT

TEMPO 1812/1815 25025G35KT



# METARs / TAFs



Data at: 0736 UTC 18 Mar 2022

ENST 180720Z 25023G37KT 9999 SHRASNGS SCT012CB BKN020 03/01 Q1022 RMK WIND 300FT 27027G44KT No TAF found for ENST

ENBN 180720Z 24016KT 220V280 9999 VCSH FEW015CB SCT030 BKN040 05/01 Q1024

TAF ENBN 180500Z 1806/1815 22015KT 9999 -SHRA FEW006 BKN020 TEMPO 1806/1815 23020G30KT 4000 SHRAGS BKN012CB PROB30 TEMPO 1812/1815 TS

ENMS 180720Z 23010KT 170V270 9999 VCSH FEW020 SCT035 05/M01 Q1022 RMK WIND 412FT 20014G251KT No TAF found for ENMS

ENRA 180720Z VRB02KT 9999 VCSH FEW012 FEW025TCU SCT035 04/01 Q1020

TAF ENRA 180500Z 1806/1815 20007KT 9999 -SHRA FEW040 BKN080 TEMPO 1806/1815 SHRA SCT015CB



## WEATHER OUTLOOK



	Model-Based outlook for BODO using the GALWEM for the period: 18/00Z - 20/00Z 1																
Time	18/00Z	18/03Z	18/06Z	18/09Z	18/12Z	18/15Z	18/18Z	18/21Z	19/00Z	19/03Z	19/06Z	19/09Z	19/12Z	19/15Z	19/18Z	19/21Z	20/00Z
Clouds	OVC019	OVC012	BKN027	OVC014	BKN029	SCT030	BKN016 BKN050	OVC009	OVC004	OVC003	OVC002	OVC003	OVC004	OVC005	OVC005	BKN017 BKN060	OVC006
Vis (sm)	16	15	15	16	17	16	15	15	13	14	13	12	11	12	11	12	13
Wx			TSTMS	TSTMS			TSTMS VCNTY	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA
Wind Dir	130	200	220	250	250	220	230	230	220	220	220	240	230	230	230	230	230
Wind Spd(kt)	8	12	26	23	19	20	23	23	24	31	33	31	29	29	28	27	24
Gusts(kt)		18	43	39	31	33	38	38	39	53	57	52	49	49	46	45	40
Temp(C)	5	5	5	4	5	5	5	5	5	5	6	7	7	7	7	6	6
RH(%)	66	72	76	66	51	60	75	75	87	83	85	90	91	91	91	90	86
PA(ft)	50	68	1	-160	-259	-294	-298	-308	-231	-136	-73	-143	-250	-327	-401	-475	-503
DA(ft)	-1086	-1058	-1081	-1416	-1487	-1511	-1522	-1502	-1377	-1232	-1015	-1023	-1168	-1271	-1392	-1513	-1555
ALSTG	29.90	29.88	29.96	30.13	30.23	30.27	30.28	30.29	30.21	30.10	30.04	30.11	30.23	30.31	30.39	30.47	30.50



# **BASH**



LIGHT	MODERATE	SEVERE
LIOITI	WODEL WILL	0_1_1

Transport Aircraft (Prop & Jet) & Tiltrotor (as appropriate)	At the MAG CO's discretion, the following sorties are authorized to be flown in LAT; a T&R sortie where one of the flight members is flying the event for an initial X, or for a refresh (R coded) event. Sorties that do not meet these criteria will maintain a min altitude of 1,000 feet AGL.	Not authorized
Helicopter & Tiltrotor (as appropriate)	The lookout aircraft or "high bird" will advise the TERF aircraft of bird activity. Adjust route accordingly.	All aircraft will adjust flight path, altitude, and airspeed to avoid bird concentrations.



### **NOTAMS**



Data Current as of: Fri 18 Mar 2022 06 56 00 SMT

ENBO BODO

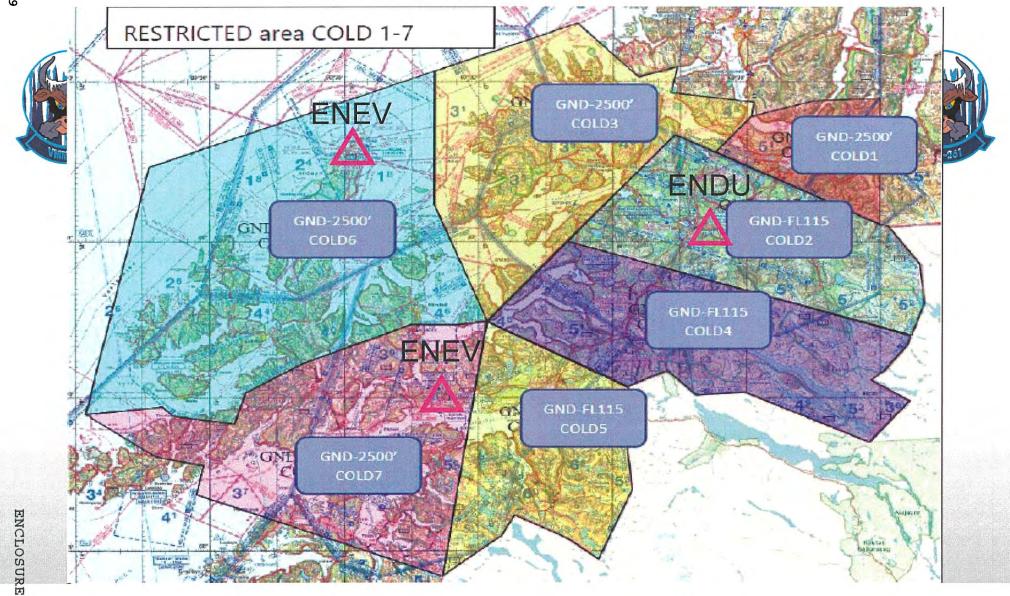
Check All ENBO UniCheck All ENBO

- A1451/22 GP 07 PERIODICALLY OUT OF SERVICE. GP AVBL ON REQUEST WHEN HEEDED DUE TO MEATHER. 10 MAR 07:05 2022 UNTIL 04 APR 10:00 2022. CREATED: 10 MAR 07:05 2022
- A1275/22 PAR EQUIPMENT ESTABLISHED CLOSE TO MANOUEVRING AREA.
  POSITION 105 M SOUTH OF RWY, 200 M FAST OF TWY H, 35 M NORTH OF TWY
  Y. HEIGHT 5.5 M, WIDTH 2,5 M MARKED WITH RED OBSTACLE LIGHT. 02 MAR 13:08 2022
  UNTIL 06 APR 13:00 2022 ESTIMATED. CREATED: 02 MAR 13:09 2022
- A0806/22 MOBILE CRANE ERECTED 1430 METER NORTHWEST OF THRESHOLD RWY 25, 204⊤T AMSL. 14 FEB 07:00 2022 UNTIL 15 MAY 23:00 2022 ESTIMATED. CREATED: 10 FEB 09:36 2022

#### ENDU BARDUFOSS

Check All ENDU UnCheck All ENDU

- A1721/22 OBST LGT AT POWERSPAN SULHEIM OVERHEAD BARDU RIVER OUT OF SERVICE. 17 MAR 15:07 2022 UNTIL 30 MAR 15:00 2022. CREATED: 17 MAR 15:07 2022
- A1561/22 IN SUPPORT OF EXERCISE COLD RESPONSE U.S MILITARY PROVIDING PRECISION APPROACH RADAR SERVICES TO RMY 28 VIA GROUND CONTROLLED APPROACH. 12 MAR 14:26 2022 UNTIL 31 MAR 22:00 2022 ESTIMATED. CREATED: 12 MAR 14:20 2022
- ☐ A1560/22 IN SUPPORT OF EXERCISE COLD RESPONSE U.S MILITARY UTILIZING ENDU TACAN CH 81X. 12 MAR 14:12 2822 UNTIL 31 MAR 22:00 2022 ESTIMATED. CREATED: 12 MAR 14:12 2022
- ☐ A1481/22 TRIGGER NOTAM AIP AIRAC AMDT 04/22 WEF 21 APR 2022. AD 2.8 STAND 1-4, 18-25, P3 AND P4 ADDED, STAND P2 WD. AD 2.12 RNY AND STRIP DMN CHANGED, RNY CENTRELINE POINTS RE-SURVEYED. AD 2.13 DECLARED DISTANCES CHANGED AND ADDED. AD 2.14 EDGE LGT RNY 10 CHANGED. AD 2.15 ANEMOMETER CHANGED. AD 2.19 DME BDF RE-SURVEYED. ADC NEW CHART LAYOUI. ADC.-A MAG VAH. 21 APR 80:00 2022 UNIIL 84 MAY 23:59 2022. CREATED: 10 MAR 13:18 2022
- ☐ A1366/22 TACAN BAR CH81X UNAVAILABLE. 07 MAR 08:30 2022 UNTIL 05 APR 23:59 2022 ESTIMATED. CREATED: 07 MAR 08:20 2022
- ☐ A1361/22 TWR HR OF SER 14 0530-2359 15-30 0000-2359 31 0000-2200, 14 MAR 05:30 2022 UNTIL 31 MAR 22:00 2022 ESTIMATED. CREATED: 07 MAR 07:35 2022
- ☐ A1309/22 LITTED OPERATIONAL EQUIPMENT(GCA) POSISIONED MID FIELD, 110 M
  SOUTH OF SENTERLINE RMY 10/23, HEIGHT 5,5 METRES. 03 MAR 17:22 2022 UNTIL 03
  APR 23:59 2022. CREATED: 03 MAR 17:23 2022
- ☐ A1210/22 LIT CRANE ERECTED AT ANDSLIMOEN (LIANS CARAVAN), APPROX 4,5 NM MORTH OF AD HGT 150FT. 28 FEB 05:25 2022 UNTIL 31 MAR 23:59 2022. (REATED: 28 FEB 05:26 2022
- MO018/22 AERODROME OBSTACLE CHARTS ICAO TYPE A RWY 10/28 EFF 07 MAR 2013 SUSPENDED DUE OUTDATED DATA, REF AIP NORNAY AD 2 ENDU. 03 JAN 07:54 2022 UNITL 31 DEC 12:00 2022. CREATED: 03 JAN 07:54 2022
- A4586/21 AD HR OF SER: MON-FRI 0530-2200, SAT 0530-1440, SUN 0850-2230. 04 NOV 09:05 2021 UNITL 27 MAR 01:00 2022. CREATED: 04 NOV 09:05 2021





### ASAP Rules of the Road



One submission required per flight element (Not each individual aircraft i.e MC, FL, DL, SL, TAC responsibility) If flight breaks up during event, each TAC submits report.

https://asap-usmc.com/usmc/

- User Name: VMM261 Password: Marines
- Reports can be used to address any problem. For example, if you are tired of working
  in a building that has a leaking roof, you can ASAP that. Alternatively, if you don't
  have the proper equipment to do your job you can ASAP that as well. If you almost
  have a mid-air collision during a flight, you can ASAP that.
- One submission per day of cross country flights. (Minimum)
- · Any aircrew or maintainer may submit a report at any time if hazards are identified.
- ALL SUBMISSIONS ARE ANONYMOUS. Cannot be traced to individuals.
- Please contact

(b)(3), (b)(6), (b)(7)c

(VMM-261 ASO) with any questions



## 5G Tower Interference



- If you notice RAD ALT interferences:
  - Create wypt
  - Notify nearest airfield tower (ATC agency)
- Please contact

(b)(3), (b)(6), (b)(7)c

(VMM-261 ASO) with any questions



## **REMEMBER:**



- AIRCREW WILL MAKE SURE ALL R&I'S ARE GREEN BEFORE WALKING TO AIRCRAFT
- TURN IN YOUR LOAD COMPS AND RAWS BEFORE WALKING TO THE AIRCRAFT.
- CALL THE ODO OUTBOUND AND EACH PASS THROUGH THE PITS, REPORT OPS NORMAL AND FUEL STATE EVERY 30 MINUTES WHEN ABLE.
- THERE IS NO MISSION IN TRAINING WORTH COMPROMISING THE SAFETY OF OUR MARINES.



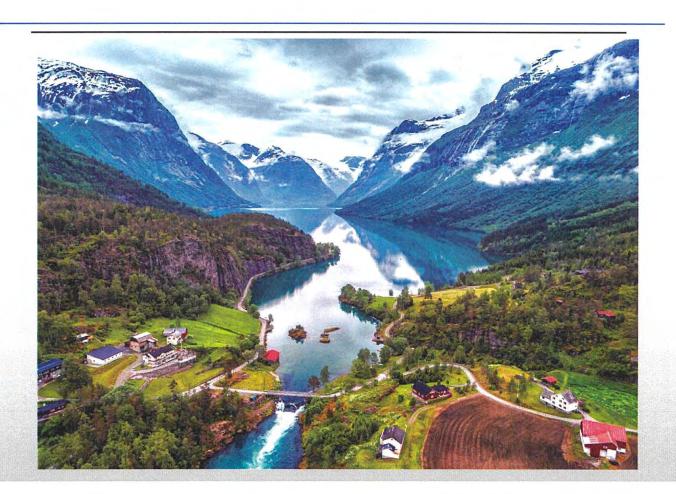
## **REMEMBER:**



- Call "Lion Ops" on 138.95 before Takeoff and after Landing.
- Contact Tower to go into and out of the Hot Pits. Monitor Tower while in the fuel pit.
- Submit a Norwegian Safety Report if anything unsafe occurs on your flight (near mid air, BASH, etc.). Its non-punitive, they just want to know.
- CSAR/SPINS...

# QUESTIONS?





#### VMM-261 Operations Duty Officer Log FOR OFFICIAL USE ONLY 18 March 2022

COMMANDING OFFICER
OPERATIONS OFFICER
OPERATIONS DUTY OFFICER

(b)(3), (b)(6), (b)(7)c

0900	I, (b)(3), (b)(6), (b)(7)c HAVE ASSUMED THE DUTIES AND RESPONSILBILTIES OF VMM-261 ODO. I HAVE IN MY POSSESSION (5) BRICKS AND (1) STICKS.	MLM
1015	GT 30 OUTBOUND FOR E CARD.	MLM
1045	GT 30 SOD ENBO.	MLM
1100	GT 31 OB NORTHERN ROUTE.	MLM
1410	GT 31 SOD ENBO.	MLM
1430	GT 31 OB.	MLM

(b)(3), (b)(6), (b)(7)c





# OPERATION KILLING TIME / CALS

**GHOST 3-1 Flight** 

**CAPT "PYRO" TOMKIEWICZ** 

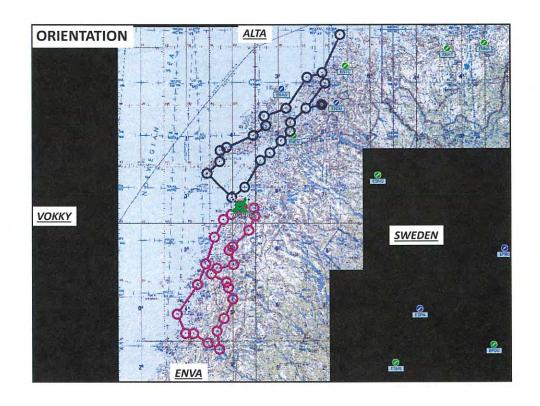
18 March 2022

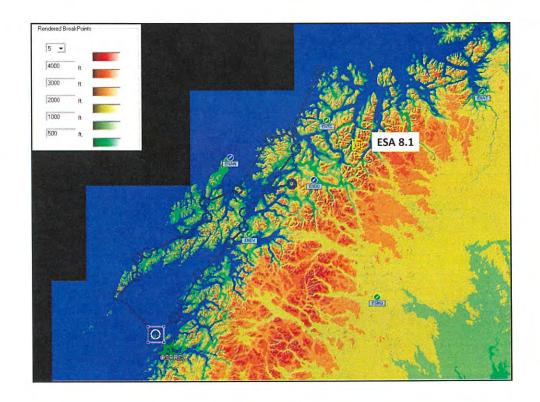


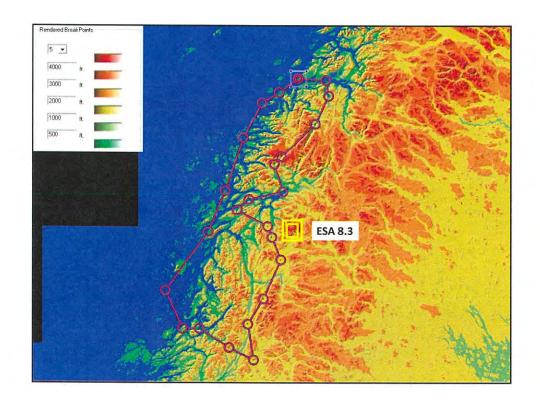
### ORIENTATION

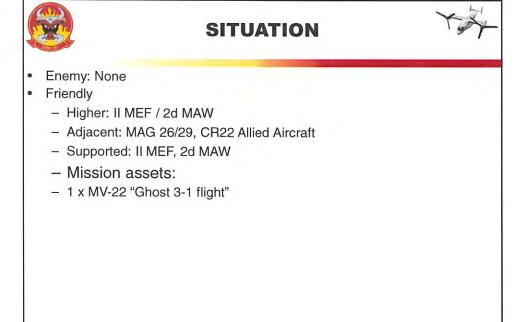


- TIME HACK
- ROLL CALL
- SMARTPACK INVENTORY / PEN CHANGES
- MAPS/CHARTS/PUBLICATIONS
- BRICKLOAD (2xROUTE, LOCAL COMM PLAN, WAYPOINTS, OVRLAY)







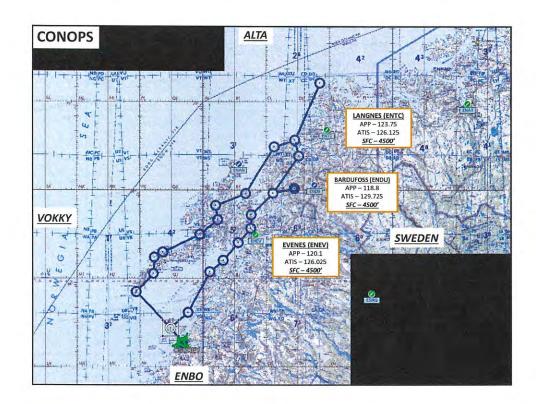


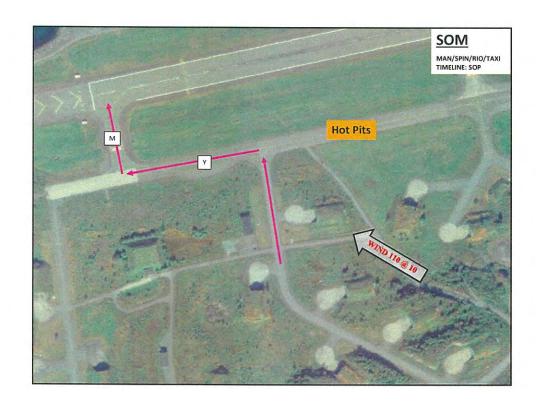


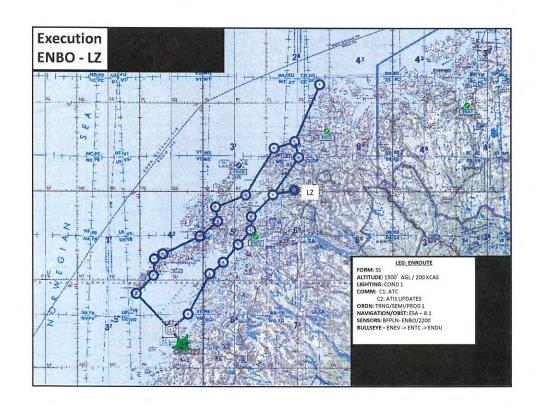
### **MISSION**

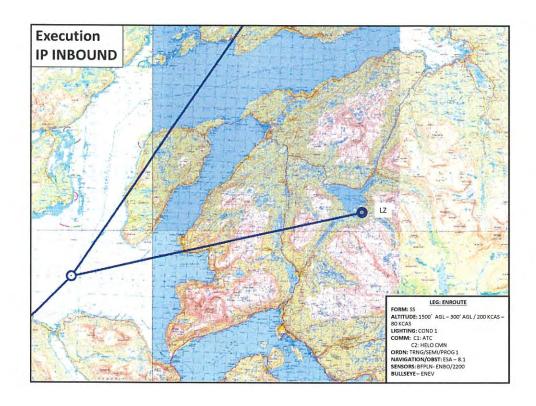


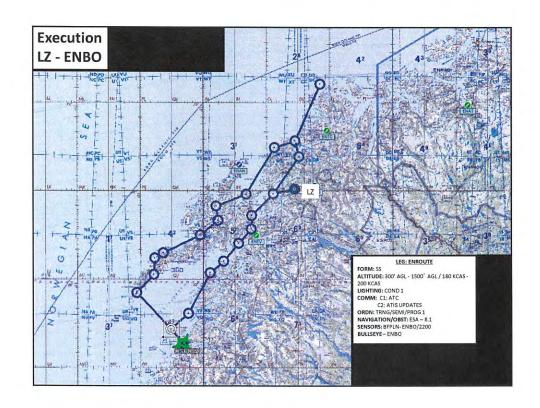
- Mission Statement: At 1000Z GHOST 3-1 displaces from ENBO to conduct CALs in order to increase squadron proficiency.
  - Mission Precedence: Routine
  - Specified Tasks: CALs
  - Implied Task: None
- Commander's Intent
  - Purpose: Increase squadron proficiency
  - Endstate: Ghost 31 SOD at ENBO



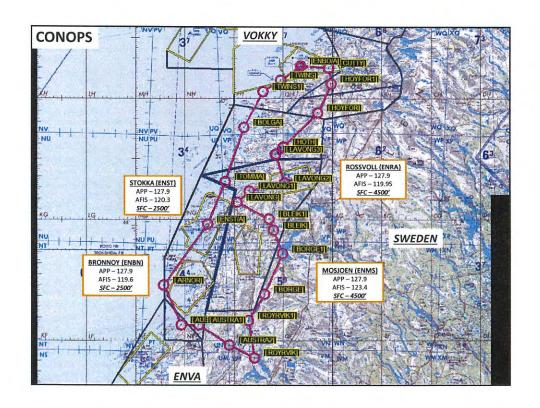


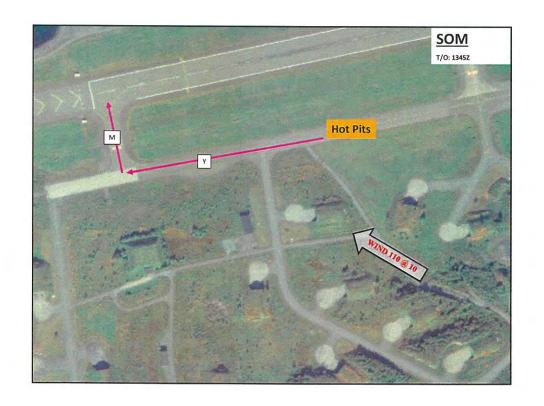


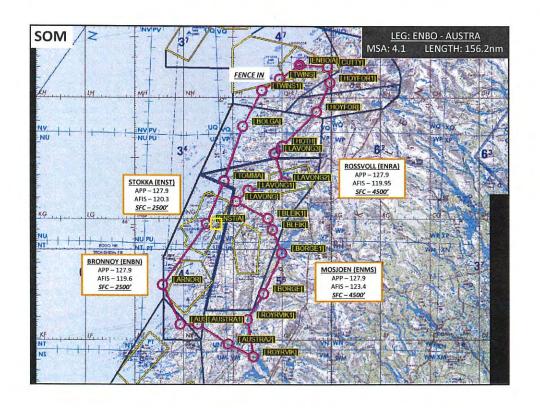


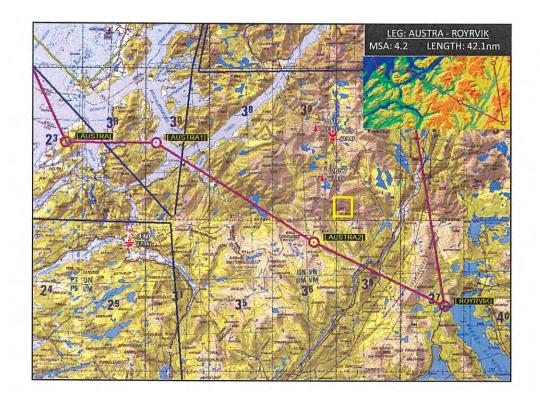


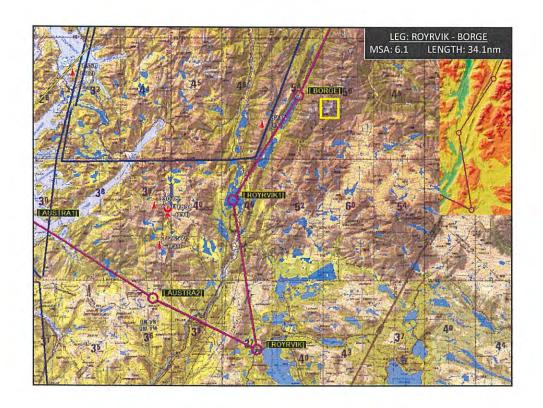


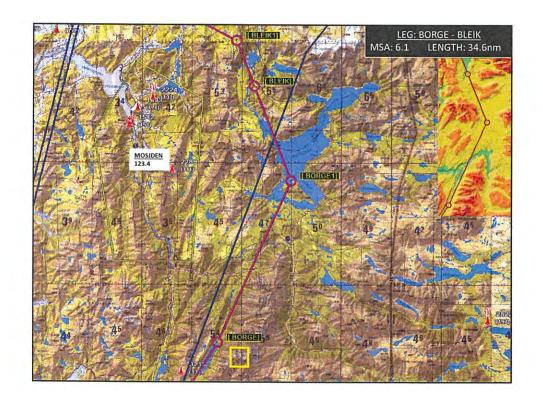


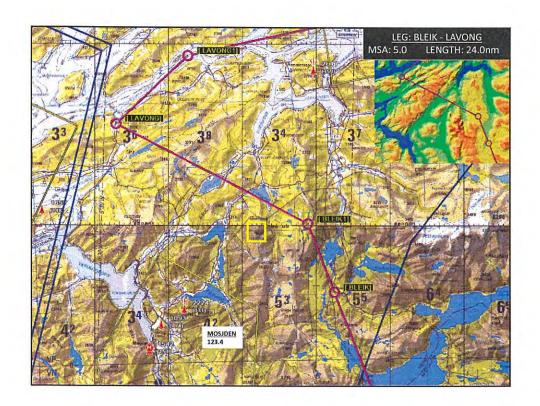


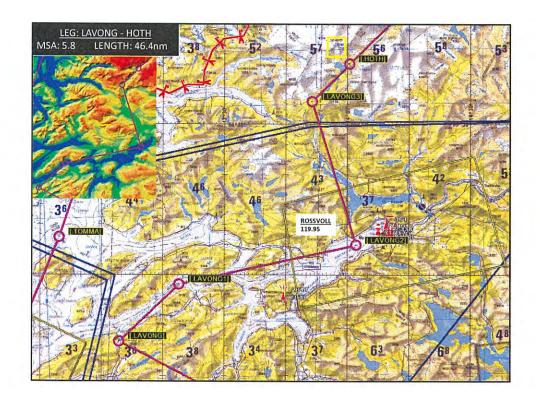


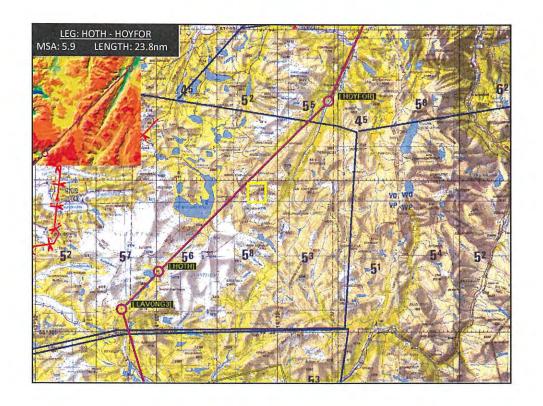


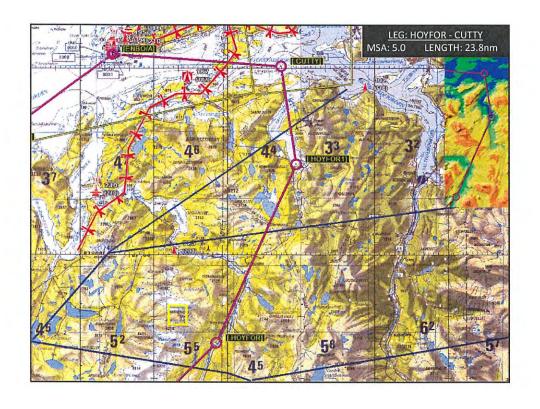
















# **EXECUTION**Coordinating Instructions



- Mission-Essential Equipment
  - Aircraft: DTED / EAPS
  - Personal: Food/Water for 6.6 hrs of flight
- GO
  - 1 x MV-22
- No-Go
  - -500/1
- Aborts/Waveoffs SOP



# **EXECUTION**Coordinating Instructions



- Emergency/System Failures
- IIMC Reversal
- Terminate / Knock-it-off
- Downed AC



#### **ADMIN AND LOGISTICS**



- Delay/Straggle Plan/Drop Dead
  - Delay: 6 hours
  - Drop Dead
    - 1600z for 1+00 of flight time



### **ADMIN AND LOGISTICS**



- · Fuel Plan / Fuel required
  - T/O: 10.5
  - Mission: 21.0
  - Joker: 4.2 / 4.5
  - Bingo: 3.4 / 3.7 (LZ ENBO) / (Royrvik ENBO)
    - Available: ENBO/ENDU/ENVA
  - BINGO NO FLPN: ENBO/2200#/4500'/200KTS
- LOS/Bullseye: ENBO/ENEV/ENST/ENDU reverse on the way back
- Ordnance: TNG/SEMI/PROG-1
- · Debrief Location/Time



#### **COMMAND AND SIGNAL**



- Chain of Responsibility
  - Authority to change route, LZs TAC
  - Extension/Schedule change: SOP
- Frequencies
  - Assigned calls:
    - ATC, WX, BASE, AIRSPACE COORD
- · Lost Comm / Single Radio Plan
- Chattermark = 21S 20 1
- IFF Procedures/Codes



#### RM



- Risk to Forces
- Blue: Poor weather calls with confining terrain and icing.
  - WX < 5000'/5sm at coastal airports = No Inland LAT
  - WX < 1000'/3sm = Conversion Mode
  - WX < 500' / 1sm = No Go
  - Red: Terrain / Icing / Turbulence
- Risk to Mission
  - Blue: Getting behind fuel ladder due to CONV mode Ops.
  - Red: WX





## **CLEAN UP**

**QUESTIONS?** 



#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR SQUADRON 261 (-) REINFORCED, COLD RESPONSE DETACHMENT MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF POSTAL SERVICE CENTER BOX 21016

JACKSONVILLE, NC 28545-1016

MISSION: SUPPORT THE MAGTF COMMANDER BY PROVIDING ASSAULT SUPPORT TRANSPORT OF COMBAT TROOPS, SUPPLIES AND EQUIPMENT, DAY OR NIGHT, UNDER ALL WEATHER CONDITIONS DURING EXPEDITIONARY, JOINT, OR COMBINED OPERATIONS.



FLIGHT SCHEDULE TUESDAY, 01 MARCH 2022 (2060)

BMNT / SR: 0523 / 0720 | SS / EENT: 1711 / 1909 | MR / MS: 0852 / 1400 | ILLUM: 4%

0630-1245 1245-LPOD SCHEDULED HOURS

MAR(GOAL/SCHEDULED/EXECUTED) 240.0 / 0.0 / 0.0

QTR

600.3 / 274.5 / 215.8

FY

LLL:

2426.0 / 581.0 / 510.8

1938-0451\*

HLL: 0455-0523, 1909-1938

ODO:

ODO: DNCO (OPS 5): ADNCO (OPS 5):

**ENBO** 

(b)(3), (b)(6), (b)(7)c

24 HRS

NONE

SCHEUDLE 24:

FIELD HOURS:

QUIET HOURS:

SCHEDULE 48: CAPT REYNOLDS, R.

<b>EVENT</b>	TMR	BRF	ETD	ETR	HRS	AIRCREW	TRAINING CODES	MISSION	NOTES	CONFIG
GHOST 3-1 MV-22B	1A1	0700	0900	1215	3.3	(b)(3), (b)(6), (b)(7)c	2031, 2242, 2280, 2281, 2282, 2641, 6240, 6900R 2031, 2242, 2280, 2281P, 2282, 2641, 6900R 2242, 2282, 2641, 6900R 2242, 2270X, 2282X, 2641, 6900X	AREA FAM / LAT CERT / SEC CALS	1, 2	
GHOST 3-2 MV-22B	1A1	0700	0900	1215	3.3	(b)(3), (b)(6), (b)(7)c	2031, 2242, 2280, 2281, 2282, 2641, 6900R 2031, 2242, 2280, 2281, 2282, 2641, 6900R 2242, 2282, 2641, 6900R 2242, 2270X, 2282X, 2641, 6900X	AREA FAM / LAT CERT / SEC CALS	1	
GHOST 3-3 MV-22B	1A1	1015	1315	1630	3.3	(b)(3), (b)(6), (b)(7)c	2031, 2242, 2280, 2281, 2282, 2641, 6240, 6900R 2031, 2242, 2280P, 2281P, 2282R, 2641, 6900X 2242, 2282, 2641, 6900X 2242, 2282, 2641, 6900X	AREA FAM / LAT CERT / SEC CALS	1, 2	
GHOST 3-4 MV-22B	1A1	1015	1315	1630	3.3	(b)(3), (b)(6), (b)(7)c	2031, 2242, 2280, 2281, 2282, 2641, 6900R 2031, 2242, 2280, 2281, 2282, 2641, 6900R 2242, 2282, 2641, 6900R	AREA FAM / LAT CERT / SEC	1	

CPL MOORE, J 2242, 2282, 2641, 6900R @ AIR MISSION COMMANDER / # FLIGHT LEAD / \*\* DIVISION LEAD / \* SECTION LEAD / X ATF REQUIRED / R NOT PROFICIENT / P PROFICIENCY EXPIRES W/I 90 DAYS

\*\* UNLESS OTHERWISE INDICATED, ALL FLIGHTS WILL ORIGINATE AND TERMINATE AT BODØ AIR BASE (ENBO) \*\*

#### **FLIGHT NOTES:**

HOUND DOG ROUTE 0910-0955 AND 1325-1410 AND BODO AREA LZ CERTIFICATIONS

CREW AUTHORIZED TO FCF AS REQUIRED.

**ADMIN NOTES:** 

START	END	LOCATION	REMARKS	NOTES	POC
0730	0800	OPS 5	MAINTENANCE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	
NLT	0800	INDIVIDUAL SPACES	ATO INPUTS FOR NEXT DAY DUE TO MAW	S-3T TO INPUT	
NLT	0800	OPS 5	MIDRATS FOR AIRCREW	S-4 COORDINATE 8 LUNCH MIDRATS FOR	
NLT	1500	INDIVIDUAL SPACES	SITREP INPUTS DUE TO S-3	MARCH 2 CREW ALL SHOPS TO SUBMIT	(b)(3), (b)(6), (b)(7)c
NLT	1600	OPS 5	SITREP DUE TO MAW G3	S-3 TO SUBMIT	(5)(5), (5)(6), (5)(7)6
1700	1730	OPS 5	MAINTENANCE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	
1900	2000	BARRACKS G	KEY LEADERS SYNC	(b)(3), (b)(6), (b)(7)  ATTEND	
ALL	DAY	BARDUFOSS	FORCE ON FORCE FTX PLANNNING	(b)(6), (b)(7)c TO ATTEND	

DSSN: MAINT:

(b)(3), (b)(6), (b)(7)c

COMMANDING OFFICER

(26) ENCLOSURE



#### UNITED STATES MARINE CORPS

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JACKSONVILLE, NC 28545-1016

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FLIGHT SCHEDULE SATURDAY, 05 MARCH 2022 (2064)

(b)(3), (b)(6), (b)(7)cCAPT REYNOLDS, R. 1200-LPOD

0600-1200

SCHEDULED HOURS 19.8

MAR(GOAL/SCHEDULED/EXECUTED) 200.1 / 24.8 / 20.0 600.3 / 335.2 / 261.2

2426.0 / 641.7 / 556.2

ODO: ODO: DNCO (OPS 5): ADNCO (OPS 5):

(b)(3), (b)(6), (b)(7)c

ENBO	QUIET H	IOURS:	NC NC	HRS INE	BMNT / SR	: 0507/0704	SS / EENT:	1726/1923	MR / MS:	0743/2147	ILLUM:	7%	HLL: 0439	1955-043 -0507, 19	
EVENT	TMR	BRF	ETD	ETR	HRS	AIRCRE!	N		TRAIN	ING CODES			MISSION	NOTES	CONFIG
GHOST			1.5	161	2										
3-1	2K2	0830	TBD	TBD	TBD								FCF		
MV-22B		13.5 5.5	( )	1,500	100										
SHOST								2280, 2281,		, 2781, 2784R, 6330X	3040, 3440	), 3441,	CAT/ DIV		

LATIAL	LIVIN	DIVI	LID	LIII	1111/3		TRAINING CODES	IVIIOSTOIN	HOILS	COMMI
GHOST 3-1 MV-22B	2K2	0830	TBD	TBD	TBD			FCF		
GHOST 3-2 MV-22B	2M4 1A1	0630	0915	1615	6.6		2280, 2281, 2282, 2440P, 2781, 2784R, 3040, 3440, 3441, 6330X 2280, 2281, 2282, 2440P, 2781, 2784, 3040P, 3440X, 3441 2282, 2781, 2784, 3040, 3440, 3441 2282, 2780X, 2784X, 3040X	CAT/ DIV LAT / DIV CALS	1, 2, 3, 5	
GHOST 3-3 MV-22B	2M4 1A1	0630	0915	1615	6.6	(b)(3), (b)(6), (b)(7)c	2280P, 2281P, 2282, 2440P, 2781, 2784, 3040, 3440R, 3441, 6240 2280P, 2281P, 2282, 2440, 2781, 2784R, 3040, 3440R, 3441R 2440R 2282, 2781, 2784, 3040, 3440, 3441 2282, 2781, 2784, 3040, 3440X, 3441X	CAT/ DIV LAT / DIV CALS	1, 2, 3, 4	
3-4 MV-22B	2M4 1A1	0630	0915	1615	6.6	CAPT TOMKIEWICZ, M. (b)(3), (b)(6), (b)(7)c CPL MOORE, J.	2280, 2281, 2282, 2440, 2781, 2784R, 3040, 3440,3441, 6340 2280P, 2281, 2282, 2440P, 2781, 2784R, 3040R, 3440X, 3441P 2440R 2282P, 2781, 2784P, 3040, 3440P, 3441X 2282, 2781, 2784P, 3040, 3440P, 3441P	CAT/ DIV LAT / DIV CALS	1, 2, 3, 4	

@ AIR MISSION COMMANDER / # FLIGHT LEAD / \*\* DIVISION LEAD / \* SECTION LEAD / X ATF REQUIRED / R NOT PROFICIENT / P PROFICIENCY EXPIRES W/I 90 DAYS

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#### **FLIGHT NOTES:**

- BARDUFOSS FUEL COORDINATED AT 1300L. ODO TO CONTACT HMH/HMLA ODO: SIPR 302-750-3983 PRIOR TO DEPARTURE. POQb)(3), (b)(6), (b)(7)c 1.
- PAX AUTHORIZED. COMMSTRAT PAX TO MANIFEST WITH ODO. POC(b)(3), (b)(6), (b)(7)c AERIAL REFUELING WITH VMGR 252. POC (b)(3), (b)(6), (b)(7)c

IN AIR HOTSEAT AUTHORIZED.

(b)(3), (b)(6), (b)(7)(0)G 3011X FO(b)(3), (b)(6), (b)(7)(0)(6), (b)(7)(6), (

ADMAIN NOTES.

START	END	LOCATION	REMARKS	NOTES	POC
0730	0800	OPS 5	MAINTENANCE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	
NLT	0800	INDIVIDUAL SPACES	ATO INPUTS FOR NEXT DAY DUE TO MAW	S-3T TO INPUT	
NILT	1200	ODCE	MAIDDATS FOR AIRCREM	S-4 COORDINATE 15 LUNCH MIDRATS FOR	
NLT	LT 1300	OPS 5	MIDRATS FOR AIRCREW	MARCH 5 CREW	(b)(3), (b)(7)c
NLT	1500	INDIVIDUAL SPACES	SITREP INPUTS DUE TO S-3	ALL SHOPS TO SUBMIT	
NLT	1600	OPS 5	SITREP DUE TO MAW G3	S-3 TO SUBMIT	
1700	1730	OPS 5	MAINTENANCE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	



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FLIGHT SCHEDULE THURSDAY, 17 MARCH 2022 (2076)

ODO: ODO: DO (OPS 5): AD (OPS 5):

SCHEDULE (24):

(b)(3), (b)(6), (b)(7)c

0900-1630 1615-LPOD

SCHEDULED HOURS 15.2

(b)(3), (b)(6), (b)(7)c (b)(3), (b)(6), (b)(7)(FRI - SAT)

MAR(GOAL/SCHEDULED/EXECUTED) 210.1 / 114.0 / 89.9 600.3 / 467.2 / 348.7

2426.0 / 773.7 / 643.7

ENBO	FIELD HOURS:	24 HRS	DAMAT / CD.	0416 / 0615	CC / FENT.	1000 / 2000	NAD / NAC.	1624 /0710	11111111	000/	LLL:	NONE
ENBU	QUIET HOURS:	NONE	BMNT / SR:	0416 / 0615	35 / EENT:	1808 / 2008	IVIR / IVIS:	1624 / 0/18	ILLUIVI:	98%	HLL:	2008-0412*

EVENT	TMR	BRF	ETD	ETR	HRS	AIRCREW	TRAINING CODES	MISSION	NOTES	CONFIG
GHOST 3-0 MV-22B	2K2	0930	TBD	TBD	TBD	(b)(3), (b)(6), (b)(7)c		FCF		
GHOST 3-1 MV-22B	1A1	1200	1500	1815	3.3	CPL MOORE, J. (b)(3), (b)(6), (b)(7)c	2242, 2280, 2281, 2282, 2641, 6240 2242, 2280P, 2281P, 2282R, 2641 2242, 2282, 2641 2242, 2282, 2641	SEC LAT / CALS	1	
GHOST 3-2 MV-22B	1A1	1200	1500	1815	3.3	CAPT TOMKIEWICZ, M.	2242, 2280, 2281, 2282, 2641 2242, 2280, 2281, 2282, 2641 2242, 2282, 2641 2242, 2282X, 2641	SEC LAT / CALS	1	
GHOST 3-3 MV-22B	2L5 1A9	1645	1945	0000	4.3	(b)(3), (b)(6), (b)(7)c	2280, 2281, 2282, 2341, 2441, 3340, 6240 2280, 2281, 2282, 2341, 2441R, 3340R, 5340X 2282, 2341, 3340P 2282, 2341, 3340X	NS TAAR / TRAP	2	
MV-22B	1A9	1645	1945	0000	4.3		2280, 2281, 2282, 2341, 2441P, 3340 2280, 2281, 2282, 2341, 2441X, 3340 2282, 2341, 3340R 2282, 2341, 3340P	NS TAAR / TRAP	2	

@ AIR MISSION COMMANDER / # FLIGHT LEAD / \*\* DIVISION LEAD / \* SECTION LEAD / X ATF REQUIRED / R NOT PROFICIENT / P PROFICIENCY EXPIRES W/I 90 DAYS

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#### **FLIGHT NOTES:**

TO FLY LAT ROUTE A AND B.

D522 RESERVED FOR NS TAAR WITH VMGR-252.

**ADMIN NOTES:** 

START	END	LOCATION	REMARKS	NOTES	POC
0630		CHOW HALL	NARVIK PORT PDSS (	o (3), (b)(6), (b)(7)(5)(3), (b)(6), (b)(7)(2 ATTEND	
0900	0930	OPS 5	MAINTENANCE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	
1000	1030	CAVES	INTEL BRIEF	S-2 PERSONNEL TO ATTEND	
1100	1200	CAVES	RETROGRADE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	
1330	1400	MS TEAMS	APB	ASRs FOR FOLLOWING DAYS VERIFICATION	
1500	1600	OPS NORTH	SAFETY MEETING	(b)(3), (b)(6), (b)(7)c (b)(3), (b)(6), (b)(70)c	
1300	1000	OPSNORTH	SAFETY WEETING	ATTEND	(b)(3), (b)(6), (b)(7)c
NLT	1500	INDIVIDUAL SPACES	SITREP INPUTS DUE TO S-3	ALL SHOPS TO SUBMIT	
NLT	1600	OPS 5	SITREP DUE TO MAW G-3	S-3 TO SUBMIT	
NLT	1600	OPS 5	ATO INPUTS DUE TO MAW G-3	OPS CLERKS TO SEND TO (b)(3), (b)(6), (b)(7)c	
7.1.2.2	Ditt.	13132 - N	ATO INTO TO BOLL TO MAW 0-3	(b)(3), (b)(6), (b)(7)c	
1900	1930	OPS 5	MAINTENANCE MEETING	ALL DESIGNATED PERSONNEL TO ATTEND	

(b)(3), (b)(6), (b)(7)c

COMMANDING OFFICER



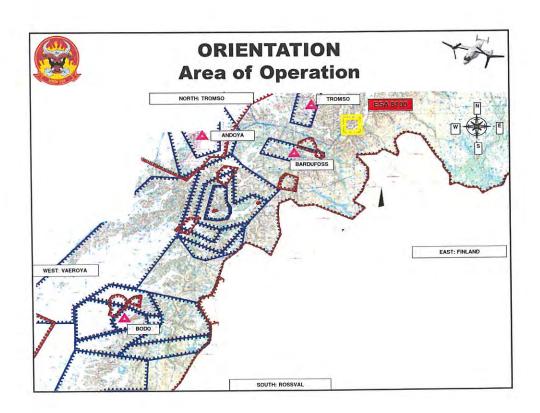


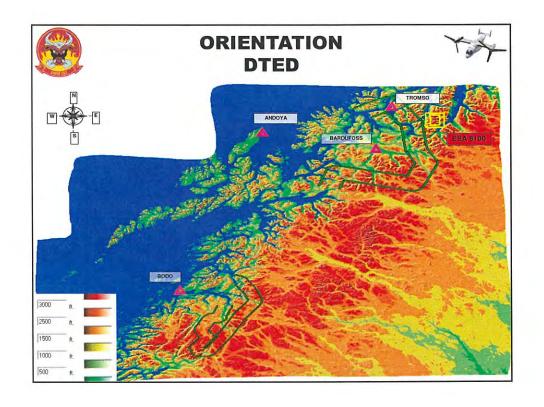
### ALS / SEC LAT / CAL

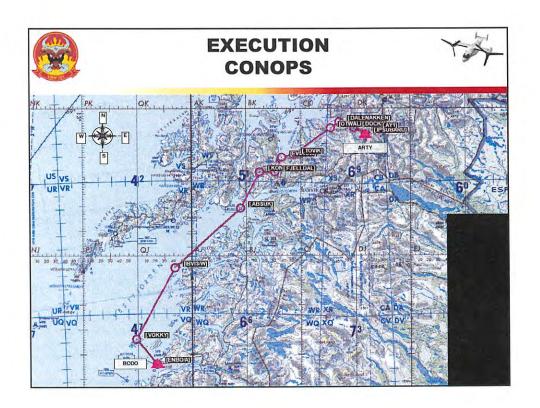
**GHOST 3-1 Flight** 

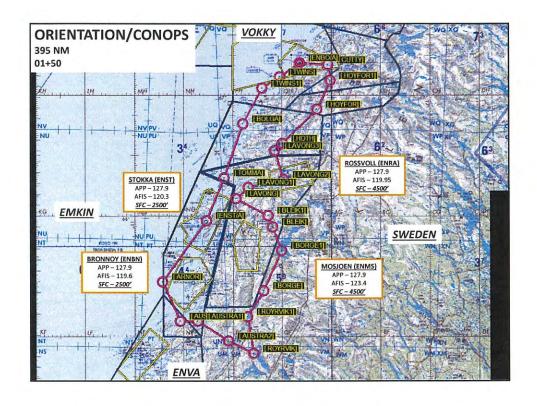
31Y/94Y

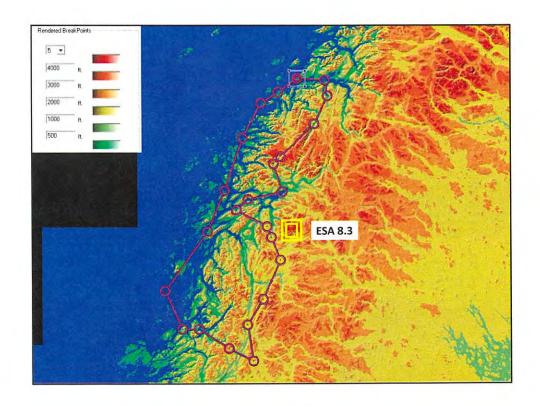
TAC 1(Btn 21S): 280.275 17 March 2022

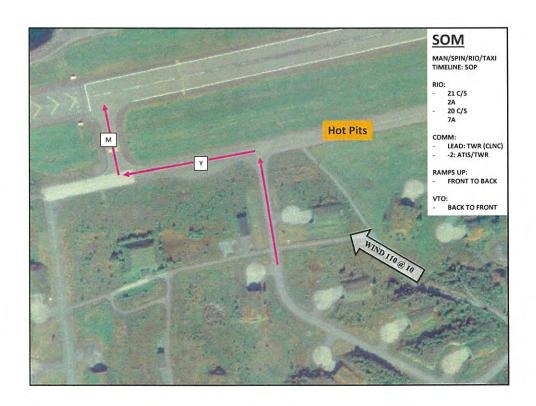




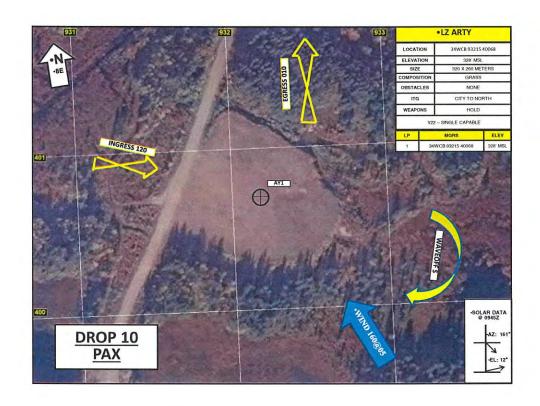


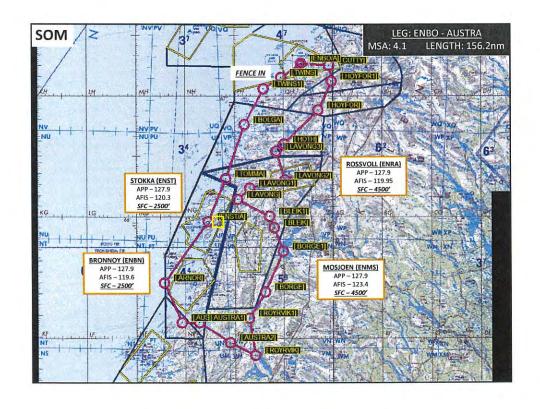


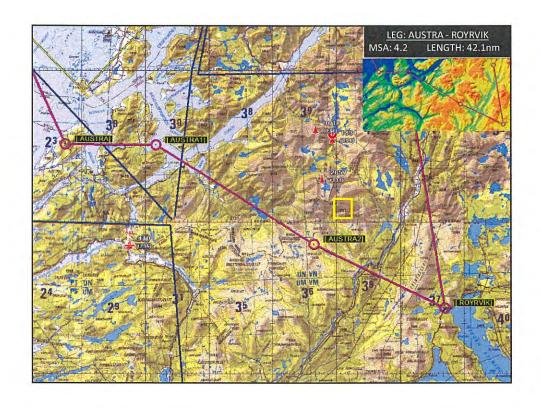


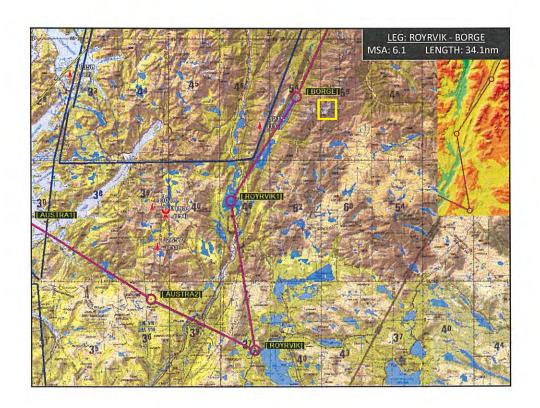


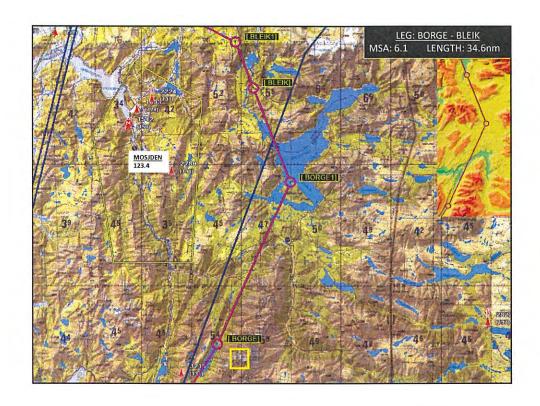


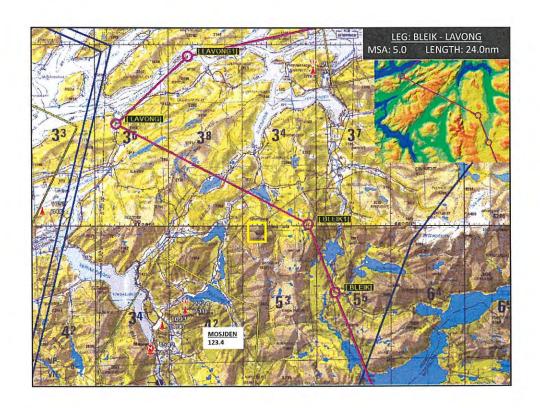


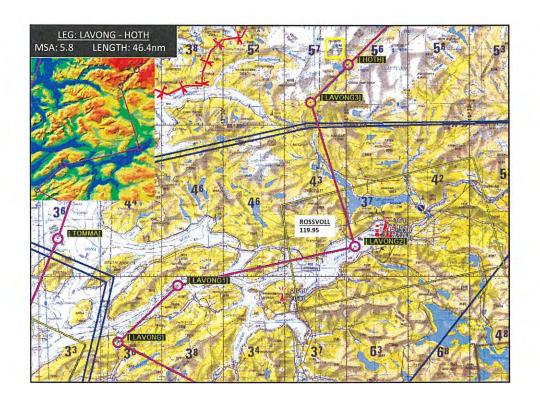


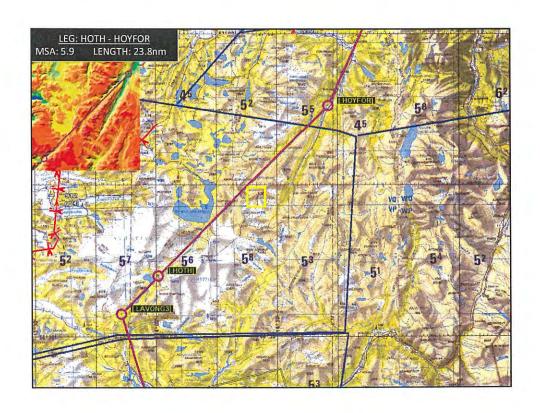


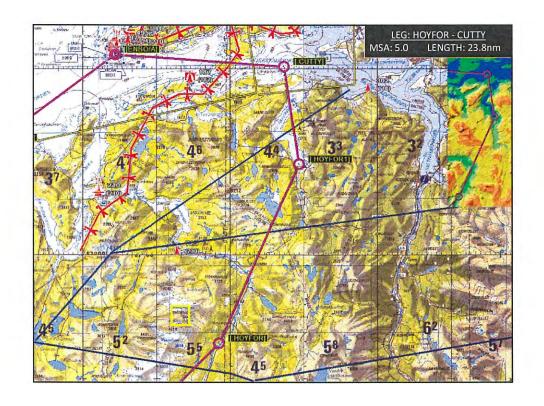


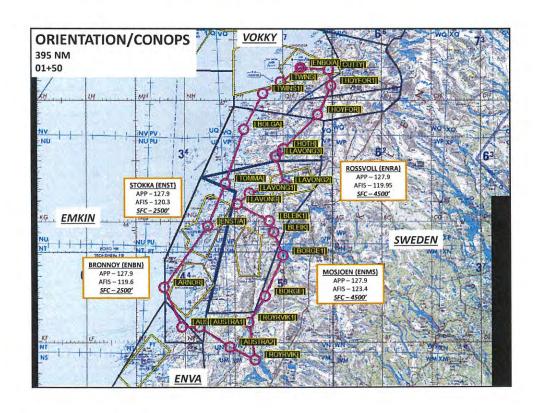
















## **EXECUTION Coordinating Instructions**



- · Mission-Essential Equipment
  - Aircraft: DTED
  - Personal: Food/Water for 3.3 hrs of flight
- GO
  - 1 x MV-22
- No-Go
  - -500/1
- Aborts SOP
- · Wave Offs (C1)
  - Single Use C/S, maint lane, turn DW land w/ visual
  - Flight Use flight C/S, maint lane, A/C furthest upwind priority to turn, land w/ visual



# **EXECUTION**Coordinating Instructions



- · Emergency/System Failures
- IIMC
  - Bodo Reversal
  - Wx < 1000' AGL / degraded visibility below terrain = CONV mode
  - Loss of 3 ground references = "Knock it off"
- Loss of Visual Contact
  - Over water: ASTACSOP
  - In Terrain: talk-on → Bodo reversal
- Terminate / Knock-it-off
- Downed AC
  - Internal / External



#### **ADMIN AND LOGISTICS**



- Bump Plan:
  - 3-2 takes good A/C with Capt Brao
- Delay/Straggle Plan/Drop Dead
  - Delay: 15 mins for section; Good A/C takes Ghost 3-1 call sign and pax
  - Straggle:
    - · Straggle A/C Stay local for CALs
    - · Stay up TAC-1
    - · Rejoin on deck in Shrike
  - Drop Dead
    - 1645L: PAX movement
    - 1715L (training)



#### **ADMIN AND LOGISTICS**



- Fuel Plan / Fuel required
  - T/O: 10.5
  - Mission: 10.5
  - Joker: 4.5
  - Bingo: 3.7 (Arty ENBO)
    - · Available: ENBO/ENDU
  - BINGO NO FLPN: ENBO/2200#/4500'/200KTS
- LOS/Bullseye: ENBO/ENEV/ENDU
- Ordnance: TNG/SEMI/PROG-1
- Debrief Location/Time



#### **COMMAND AND SIGNAL**



- · Chain of Responsibility
  - Authority to change route, LZs SL
  - Extension/Schedule change: SOP
- Frequencies
  - Assigned calls:
    - LD = ATC, COMM3
    - -2 = WX, BASE, AIRSPACE COORD
- Lost Comm / Single Radio Plan
  - ASTACSOP Day Method 2
  - Maintain Ch2, Good Comm A/C assume Ch1 calls
- Chattermark = 21S 20 1
- Golden = 1
- IFF Procedures/Codes
  - 3-1 carries squawk



#### RM



- · Risk to Forces
  - Blue: Poor weather calls with confining terrain and icing.
    - WX < 5000'/5sm at coastal airports = No Inland LAT
    - WX < 1000'/3sm = Conversion Mode
    - WX < 500' / 1sm = No Go
  - Red: Terrain / Icing / Turbulence
- Risk to Mission
  - Blue: Getting behind fuel ladder due to CONV mode Ops.
  - Red: WX





## **CLEAN UP**

**QUESTIONS?** 

From:

To:

(b)(3), (b)(6), (b)(7)c

Subject: Date: [Non-DoD Source] Monday information - Please read

Date: Attachments: Monday, March 14, 2022 4:14:50 PM LL Routes NEW - Part 1 of 2.pdf LL Routes NEW - Part 2 of 2.pdf

Hey, all!

Some information, please read all and distribute to all pilots!

We realize at Lion Ops that certain things that have been briefed and informed via e-mails and Signal messages haven't come across to everyone. Please make sure your squadron has a way of letting ALL pilots in on the info routed from us to you.

- Low Level
- o We have finally gotten a standing approval for TWO low level routes down to an altitude of 500'.
- o They are attached and are NOT the same ones you received earlier. Please shred the previous route and plan for this one any time you want to go flying lower than 1000'.
- o For ATO requests, requesting "Low level route Alpha" should be sufficient for NAOC to know. Any time you go off this route, please climb back to 1000'.
- o AGAIN: You still have to plan these routes properly with regards to towers, power lines, etc. They are not recently chummed.
- IFG
- o You have all received this. The presets on the front page are possible (and encouraged) to use by tower here in Bodø. They prefer UHF frequencies for ground, tower, departure/approach and arrival. VHF only for Polaris (Preset 8 and 9.)
- o "Lion 69, push Departure channel 6." Etc.
- o This is just a recommendation, ATC is aware that this might not be the standard for you all.
- FARP
- o You HAVE to contact tower to operate on Yankee.
- o Today there was an incident (again) where Tower suddenly realized that FARPing(?) was going on, but the pilots had not informed Tower that this would take place.
- Flight Plans

388 ENCLOSURE (28)

- o Bodø TWR now wants you to ALWAYS file a VFR flight plan, this is due to some sort of system limitations.
- o Apparently it is 6-9 times easier for them to accommodate you when the FPL has "VFR" in it compared to when it says "IFR."
- o When you contact tower, this is where you state your actual request. ("Vokky VFR 1000'"or "XXXX IFR departure.")
- o In the remarks/free text of your FPL, this is where you will put WHERE you're going, or what area, and also the remark "CR22".

Thanks guys.

ARC

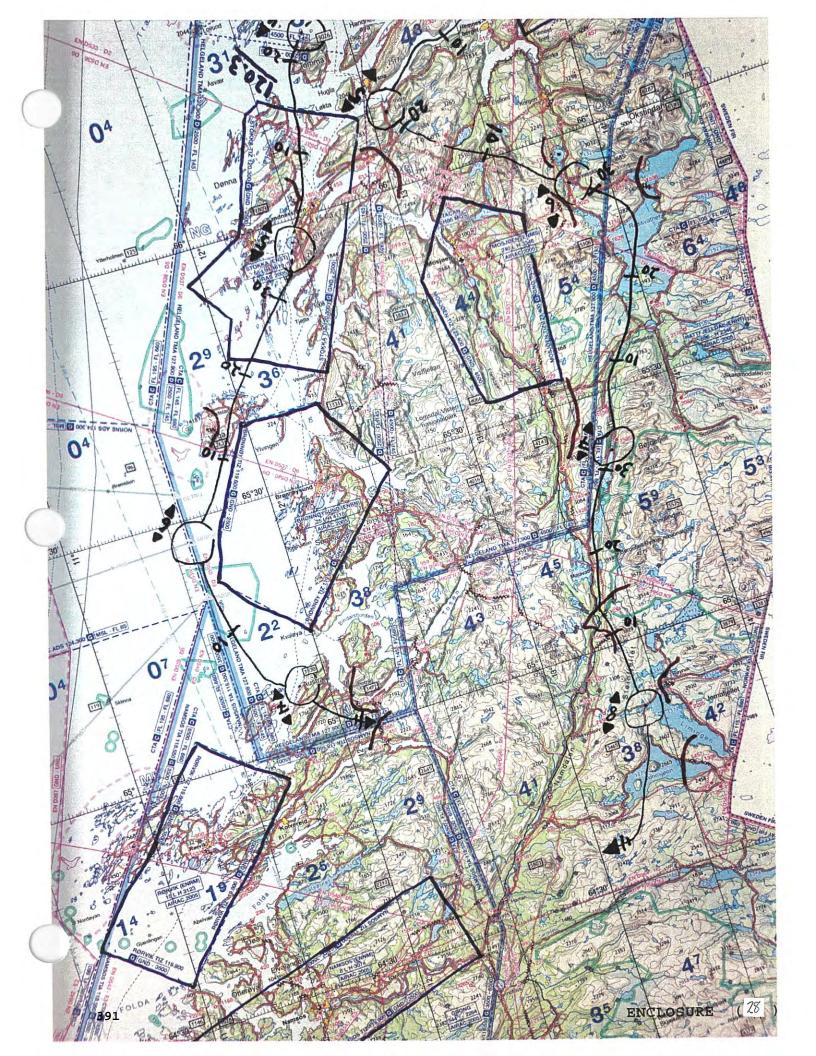
(b)(3), (b)(6), (b)(7)c

Royal Norwegian Air Force

(b)(3), (b)(6), (b)(7)c

ENCLOSURE (Z8)





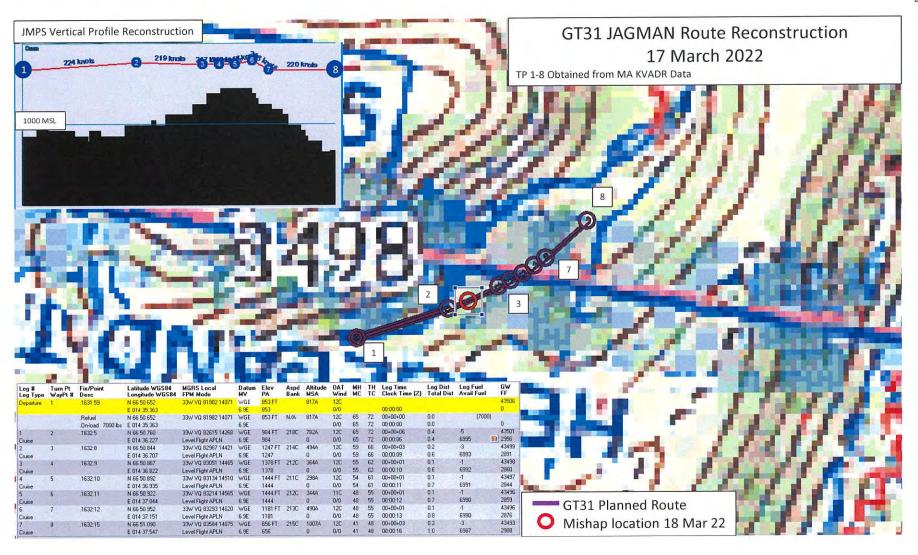
Flightplan Id's	x Aircraf	AND DESCRIPTION OF THE PARTY OF	x Flight Rule		x Type of	AND THE RESIDENCE OF THE PARTY
458995 - 0 -	GHOST:		V: VFR	·	M: Milita	ry
Number of Aircraft(s)	fr and the same of	of Aircraft		ulence Category		
1	V22	•	M: Medium	and the last		
x Equipment (NAV/CO	M) 😔		(SSR/ADS)	<u>)</u>		and the second second
SDITUY			CS			
x Date of Flight (yymr	mdd)					
220318						
x ADEP	x EOBT	(UTC-time)	x Cruising Sp	peed	x Cruising	g Level
ENBO 🚇	1000		N ~ 0200		A ~	015
x ADES	x Total E	ET (HHMM)	1. Altn. Aero	drome	2. Altn. A	erodrome
ENBO 🚳	0315			9		0
x Route. Visualize Rout	re: Onvert Route	Coordinates: 🚇				
Other Information  RMK/SSR A1631 OAT IN	CR22 AREA					1.
		Supplemen	ntary Information			- Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews
x Endurance(HHMM)	x Persons on board	Emergency Rad				
0330	4	<b>UHF</b>	☑ VHF	□ ELT	☐ PL	В
Information on Surviv	al Equipment					
Survival	Polar	Desert	Maritime	Jungle		
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Information on Dinghi						
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Flightplan Id's	x Aircraf	t Id	x Flight Rule	S	x Type of Flight	
458994 - 0 -	GHOST	31	V: VFR	~	M: Military	~
Number of Aircraft(s)	x Type o	f Aircraft	x Wake Turb	ulence Category		
1	V22	9	M: Medium	~		
x Equipment (NAV/CC	M) 🚇		(SSR/ADS)			
SDITUY			CS			· ·
x Date of Flight (yymi	mdd)					
220318						
x ADEP	x EOBT	(UTC-time)	x Cruising S	peed	x Cruising Level	
ENBO 🚇	1345		N V 0200		A • 015	
x ADES	x Total E	ET (HHMM)	1. Altn. Aero	drome	2. Altn. Aerodrome	
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					a de la solició de la falla de	10
Other Information 🚱						-
RMK/OAT IN CR22 AREA	SSR 1631					
						11
- 1 (10000)			ntary Information			
x Endurance(HHMM)	x Persons on board	Emergency Rad	₩ VHF	ELT	□ PLB	
0330	4	UHF	₩ VHF	CJ ELI	C PLB	
Information on Surviv	Polar	Desert	Maritime	Jungle		
Survival Information on Jacket		Desert	Maritime	- Jungle	A THE STATE OF THE	
Jackets	Light	Fluores	<b>☑</b> UHF	☑ VHF		
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### JAGMAN LAT Flight Reconstruction 17 March 22

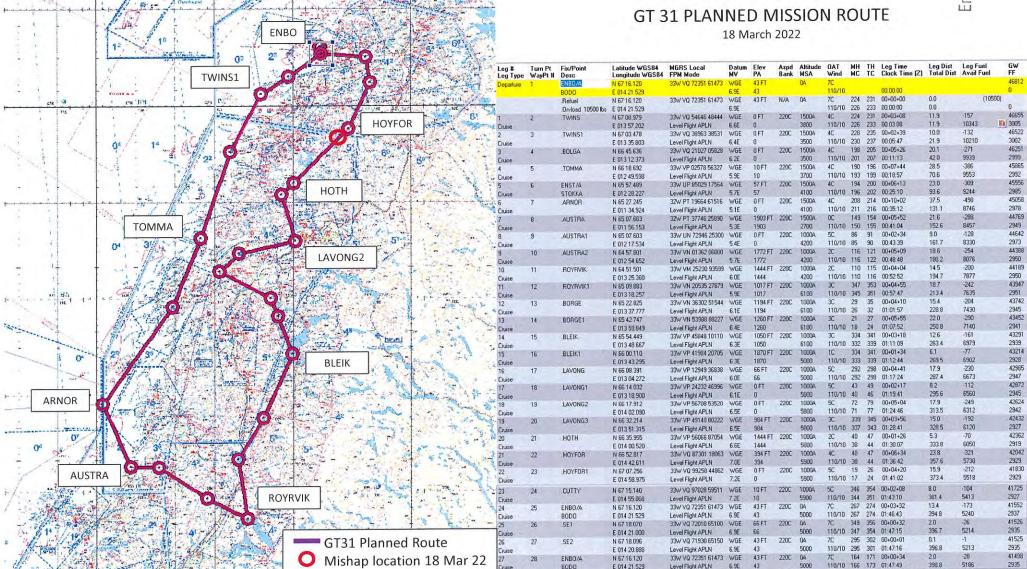
- Depiction created from MA recovered KVADR data for flight that occurred day prior to mishap
- Created by JAGMAN team to validate squadron flying tendencies through terrain IVO mishap location
- Low-level profile flown IAW TTPs and commensurate with terrain

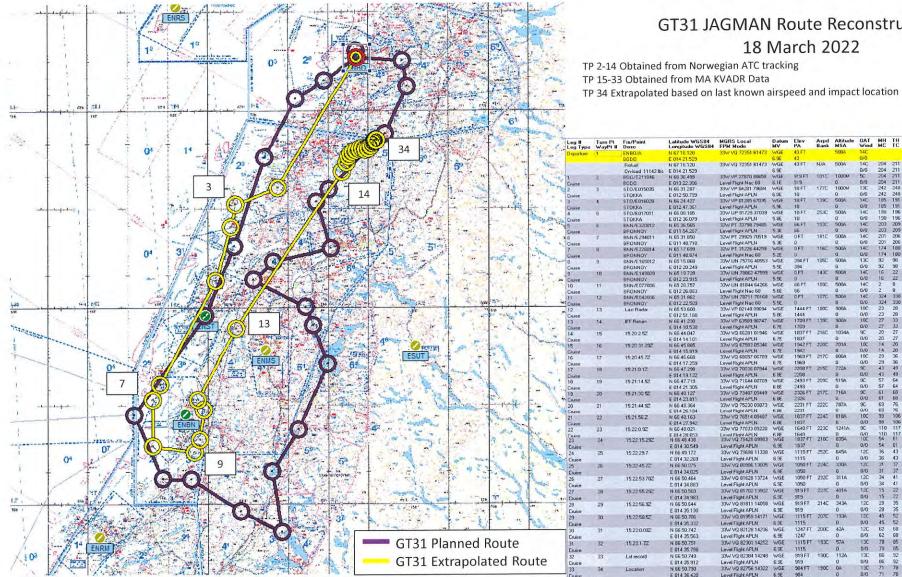




### JAGMAN Mishap Flight Reconstruction 18 March 22

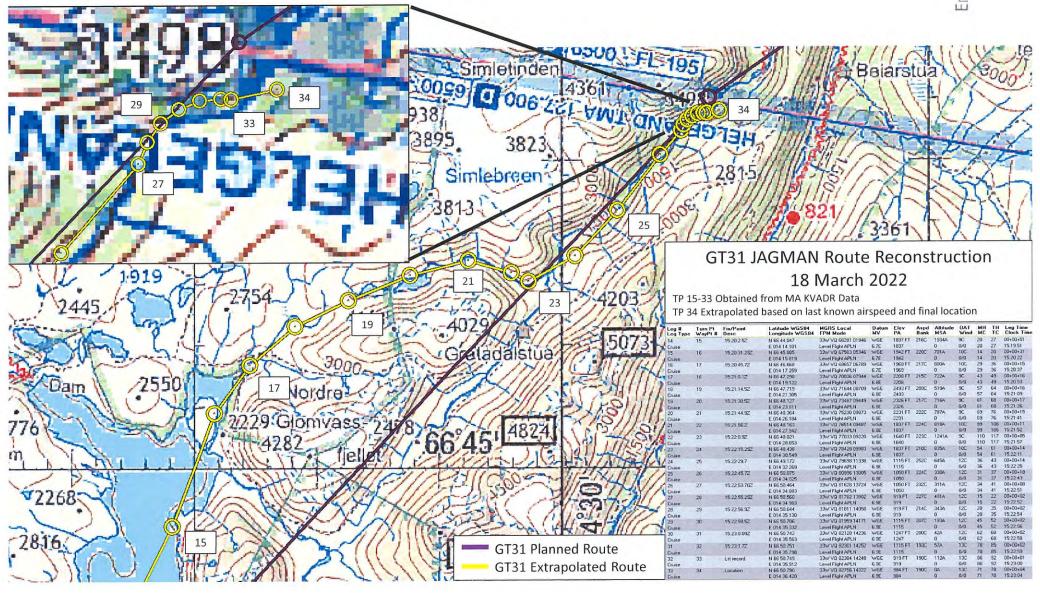
- Depiction created from MC Mission Binder in VMM-261 JMPS Server
  - Original planned mission route was updated with mishap location during squadron post-mishap actions, this checkpoint has been removed.
- Checkpoints along reconstruction route were obtained from Norwegian ATC track and MA KVADR Data
- Low-level profile flown IAW TTPs and commensurate with terrain





### GT31 JAGMAN Route Reconstruction 18 March 2022

2	3	STO/E015035	N 66 31 287	33W VP 04281 79684	WGE	10 FT	177C	1000M	13C	242	248	00+04+34	13.6	-190	46112
Cruise		STOKKA	E 012 50.799	Level Flight APLN	6.0E	10		0	0/0	242	248	14:04:00	50 59.7	9606	2499
- Citare	-	STO/E016028	N 66 24 427	33W VP 01285 67035	WGE	10 FT	1390	500A	140	185	191	00+03+00	7.0	1113	45999
0		STOKKA	E 012 47,361	Level Flight APLN	5.9E	10		0	0/0	185	191	14:07:00	50 66.7	9493	2266
luse	-5		N 66 08 105	33W UP 91729 37039	WGE	10 FT	253C	500A	14C	190	196	00+04+00	17.0	-248	45751
4	5	STO/E017011		Level Flight APLN	5.8E	10	a, u.s.	B	0/0	190	196	14.11.00	Sp 83.7	9245	3728
Cruse	-	STOKKA	E 012 36.079	32W PT 33798 79465	WGE	66 FT	153C	500A	140	203	209	00+14+00	36.0	-539	45212
5	.6	BNN/E320012	N 65 36.565		5.E	66	10.00	D	0/0	203	209	14:25:00	\$5 119.8	8706	2310
Citate:		BRONNOY	E 011 54.267	Level Flight APLN	WGE	OFT	181C	500A	14C	201	206	00+01+44	5.3	73	45139
6	7	BNN/E294011	N 65 31 850	32W PT 29925 70519			1810			201	206	14:26:44		0633	2525
Cruise		BRONNOY	E 011 48.710	Level Flight APLN	5.3E	0	444	0	0/0				125.0	390	44749
7	8	BNN/E226014	N 65 17.699	32W PT 31226 44259	WGE	DEL	116C	500A	14C	174	180	00+07+16	14.2		
Сниге		BRONNOY	E 011 48 874	Level Flight Nac 60	5.2E	U		0	0/0	174	180	14:34:00	Sp 139.2	8243	3218
8	9	BNN/E165012	N 65 15.868	33W UN 75716 40553		394 FT	185C	500A	13C	92	98	00+04+16	13.3	161	44568
Cruise		BRONNOY	E 012 20.249	Level Flight APLN	5.5E	394		0	0/0	92	98	14:38:16	\$ 152.5	8062	2549
9	10	BNN/E149009	N 65 19.728	33W UN 78962 47599	WGE	OFT	143C	500A	14C	16	22	00+01+44	4.2	-65	44503
Cruise		BRONNOY	E 012 23 915	Level Flight APLN	5.5E	0		0	0/0	16	22	14:40:00	Sp 156.7	7997	2235
10	11	BNN/E077006	N 65 28.757	33W UN 81844 64266	WGE	66 FT	109C	500A	14C	2	8	00+05+00	9.1	-253	44250
Cruise		BRONNOY	E 012 26.883	Level Flight Nac 60	5.6E	66		0	0/0	2	8	14:45:00	165.8	7744	3040
11	12	BNN/E042006	N 65 31.862	33W UN 78711 70168	WGE	OFT	107C	500A	14C	324	330	00+02+00	36	100	44150
Cluse	140	BRONNOY	E 012 22 509	Level Flight Nac 60	5.5E	B		0	0/0	324	330	14:47:00	So 169.4	7644	3008
12	13	Last Bodor	N 65 53.600	33W VP 02148 09694	WGE	1444 FT	1800	900A	10C	23	28	00+00+00	24.9	328	43822
	1.3.	Last Hade	E 012 51.160	Level Flight APLN	5.8E	1444		0	0/0	23	28	14:55:00	\$0 194.3	7316	2458
Cruse	14	IFF Return	N 66 41 230	33W VP 63589 96747	WGE	1703 FT	139C	900A	10C	27	33	00+24+00	57.6	857	42965
13	14	The Franker	E 014 10 530	Level Flight APLN	6.7E	1709	1330	0	0/0	27	33	15:19:00	\$5 251.8	6459	2141
Cluse					WGE	1837 FT	216C	1034A	90	20	27	00+00+51	3.2	-41	42925
14	15	15:20:2 52	N 66 44.047	33W VQ 66281 01946		1837	2100	0	0/0	20	27	15:19:51	255.0	6419	2900
Cruise		The second second	E 014 14 101	Level Flight APLN	6.7E			701A	10C	14	20	00+00+31	2.0	-26	42999
15	16	15:20:31.292	N 66 45 885	33W VQ 67583 05346	WGE	1942 FT	2200	D D	0/0	14	20	15:20:22	256.9	6393	2969
Distre			E 014 15 819	Level Flight APLN	6.7E	1942	0.10			29	36	00+00+15	1.0	-13	42996
16	17	15:20:45.72	N 66 46,668	33W VQ 68657 06789	WGE	1969 FT	217C	8004	10C	29	36	15:20:37	257.9	6380	2917
Druise			E 014 17 259	Level Flight APLN	6.7E	1969	400	0	0/0				1.0	12	42874
17	18	15:21:0.12	N 66 47.298	33W VQ 70036 07944	WGE	2208 FT	215C	722A	90	43	49	00+00+16			2881
Diube			E 014 19 122	Level Flight APLN	6.8E	2208		0	0/0	43	49	15.20.53	258.9	6368	
18	19	15:21:14.52	N 66 47.719	33W VQ 71644 00709	WGE	2493 FT	209C	519A	9C	57	64	00+00+16	1.0	-12	42862
Druine			E 014 21 305	Level Flight APLN	6.8E	2493		0	0/0	57	64	15:21:09	259.8	6356	2785
19	20	15:21:30.52	N 66 40.127	33W VQ 73487 09449	WGE	2326 FT	217C	716A	9C	- 61	68	00+00+17	1.1	-14	42848
Chase			E 014 23.811	Level Flight APLN	6.8E	2326		0	0/0	61	68	15:21:26	260.9	6342	2913
20	21	15:21:44.92	N 66 49.364	33W VQ 75230 09873	WGE	2231 FT	222C	787A	90	69	76	00+00+15	1.0	-13	42835
Cruise			E 014 26.184	Level Flight APLN	6.8E	2231		0	0/0	69	76	15:21:41	261.9	6329	2999
21	22	15.21.56.2	N 66 48 163	33W VQ 76514 09487	WGE	1837 FT	224C	818A	100	99	106	00+00+11	0.7	-9	42826
Diame	-		E 014 27.942	Level Floht APLN	6.8E	1837		0	0/0	99	106	15:21:52	262.6	6320	3038
22	23	15:22:0.92	N 66 48 021	33W VQ 77033 09220	WGE	1640 FT	223C	1241A	90	110	117	00+00+05	0.3	-4	42822
	-		E 014 28 653	Level Flight APLN	6 RE	1640		0	0/0	110	117	15-21-57	262.9	6316	3018
Cruse 23	24	.15:22:15:292	N 66 48 438	33W VQ 78428 09983	WGE	1837 FT	210C	8354	10C	54	61	00+00+14	0.9	-11	42811
Cruise			E 014 30.549	Level Flight APLN	6.9E	1837		0	0/0	54	61	15.22.11	263.B	6305	2804
	25	15:22:29.7	N 66 49 172	33W VQ 79698 11338	WGE	1115 FT	252C	645A	120	36	43	00+00+14	1.0	-14	42797
24	40.	19.62.63.7	E 014 32 269	Level Fight APLN	6.9E	1115	-	0	0/0	36	43	15:22:25	264.8	6291	3653
Cruse	-				WGE	1050 FT	me	330A	12C	31	37	00+00+18	1.1	45	42781
25	26	15:22:45.72	N 66 50.075	33W VQ 80996 13005			2241			31	37	15 22 43	265.9	6275	3050
Cruise			E 014 34,025	Level Flight APLN	6.9E	1050		0	0/0					-7	42774
26	27	.15:22:53.702	N 66 50.464	33W VQ 81628 13724	WGE	1050 FT	232C	311A	120	34	41	00+00+08	0.5		
Cruite			E 014 34.883	Level Flight APLN	6.9E	1050		0	0/0	34	41	15:22:51	266.5	6268	3198
27	28	15:22:55:292	N 66 50.560	33W VQ 81702 13902	WGE	919FT	227C	401A	120	15	22	00+00+02	01	-1	42773
Cruise	-		E 014 34 983	Level Flight APLN	6.9E	919		0	0/0	15	22	15:22:52	296.6	6267	3104
28	29	.15.22.56.92	N 66 50.644	33W VQ 81811 14058	WGE	919FT	214C	343A	12C	28	35	00+00+02	0.1	-1	42772
	23	19.22.90.32		Level Flight APLN	6.9E	919	-	0	0/0	28	35	15:22:54	266.7	6266	2985
Cruise		10.000	E 014 35.130				2070	1934	120	45	52	00+00+02	0.1	-1	42770
29	30	15:22:58:52	N 66 50.706	33W VQ 81959 14171	WGE	1115 FT	207C							6264	2780
Cruice			E 014 35 332	Level Flight AFLN	6.9E	1115		0	0/0	45	52	15 22 56	266.8		
30	31	.15:23:0.092	N 66 50.742	33W VQ 82128 14236	WGE	1247 FT	200C	42A	12C	62	68	00+00+02	0.1	1	42769
Cruise			E 014 35.563	Level Flight APLN	6.9E	1247		0	0/0	62	68	15.22.58	266.9	6263	2687
31	32	15.23.1.72	N 66 50,751	33W VQ 82301 14252	WGE	1115 FT	193C	57A	130	78	85	00+00+02	0.1	-1	42768
			E 014 35 798	Level Flight APLN	6.9E	1115		0	0/0	78	85	15:22:59	267.0	6262	2602
Cruise	22	T. C. C. C. C.	N 66 50 749	33W VQ 82384 14248		919 FT	190C	112A	13C	86	92	00+00+01	0.0	-1	42767
32	33	Latrecord		Level Flight APLN	6.9E	919	1000	0	0/0	86	92	15:23:00	267.0	6261	2570
Cruice	-	A CONTRACTOR OF THE PARTY OF TH	E 014 35 912			984 FT	190C	04	130	71	78	00+00+04	0.2	-3	42764
33	34	Location	N 66 50.790	33W VQ 82756 14322			1200	CP4.					267.2	6258	2814
Course			F 014 36 420	Level Flight APLN	6.9E	984		.0	0/0	71	78	15:23:04	207.2	0430	2014





# COM NAOC Safety Brief Flying in Norway

Current as of 01 June 2021



UGRADERT / UNCLASSIFIED

ROYAL NORWEGIAN AIR FORCE



### References

Military Air Regulations

• Air Operational Procedures (AOP):

• Aeronautical Information Publication (AIP)

• Agreement on Use of AMC Manageable Areas:

12 May 2017

09 Jun 2017

www.ippc.no

28 Jan 2021



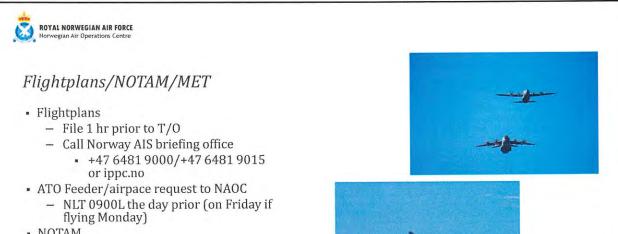
### Scope

- Flightplans / NOTAM / Met
- · Civilian regulations / Air space
- · Military Regulations / FUA
- Low Level flying in general
- Aircraft specific operations
  - Fighter aircraft
  - Fixed wing/transport
  - Maritime aircraft / MPA
  - Helicopters
  - Maritime helicopters
- Maps
- Phone numbers
- Main takeaways





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NOTAM

- ippc.no

- MET
  - ippc.no (METAR/TAF)
  - MW0: Oslo 22963000, Bergen 55236650, Tromsø 77621300





### General Information

- AIP: www.ippc.no (AIS publications)
- · PPR
  - Check AIP for requirements
- · Opening hours
  - Refer to AIP Norway and NOTAM
- Fuel
  - Normally available inside opening hours (some AFIS fiels do not have fuel)





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### Civilian regulations

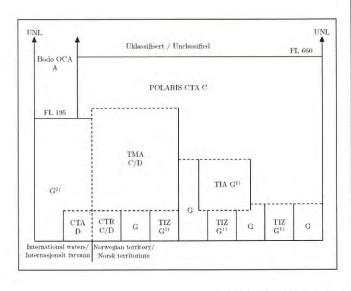
- Civilian airspace regulations are in accordance with SERA (Standardized European Rules of the Air), and additions depicted in BSL-F
  - www.caa.no
- Aeronautical Information Package Norway (AIP Norway)
  - www.ippc.no





# Civilian Airspace Structure (AIP Norway ENR 1.4)

- In Norway there are 4 classifications of airspace, A, C, D and G which comply with ICAO standards
  - 1) TIA and TIZ, and CTR outside opening hrs, are classified as RMZ (Radio Mandatory Zone)
  - 2) Some exceptions

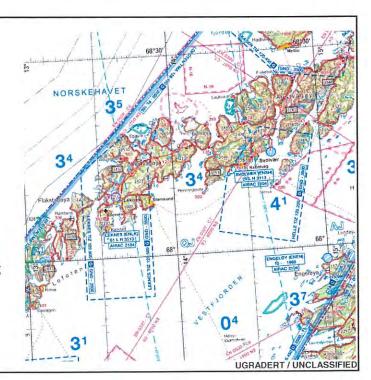


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### Communication

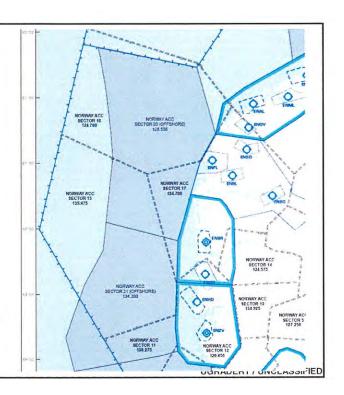
- All clearances shall be read back as given by ATC
  - (Do not use copy/wilco/roger)
- Radio Mandatory Zones (RMZ)
  - Closed CTR and AFIS airports (TIZ/TIA) are G airspace and defined as RMZ.
  - Before entering and manouvering within you shall transmit on respective CTR/AFIS frequency stating your callsign and intentions.





### Offshore CTAs and ADSs

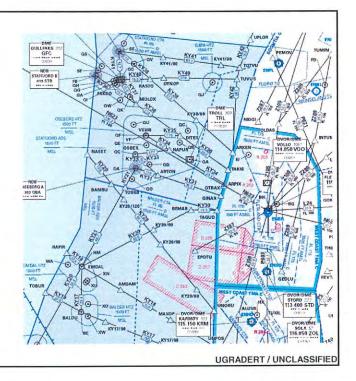
- CTA
  - Class D Airspace
  - 1500`AMSL-FL085
- ADS
  - Class G Airspace
  - GND 1500`AMSL
- Contact Norway ACC «Polaris Control» for traffic information or clearance
- AIP ENR 2.1 + 2.2

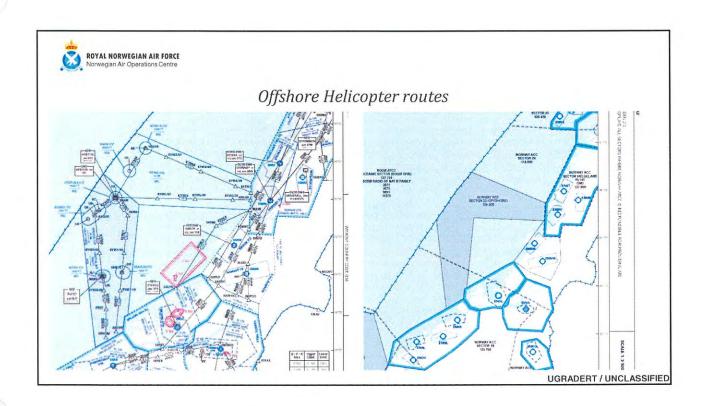




### Offshore Helicopter routes

- Normally:
  - Remain within 4 NM of route
  - 2000' out
  - 3000° in
  - May be lower in case of icing.
- Remain in contact with «Polaris Control»
- AIP ENR 2.2

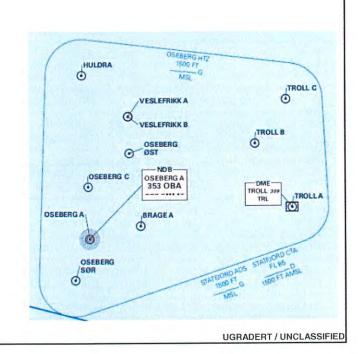






### Helicopter Traffic Zone (HTZ)

- Established at all permanent offshore installations with a landing pad.
- 5NM radius
- 2000' AMSL
- RMZ
- Usually «Polaris Control»
- Positions and frequencies: AIP ENR 2.2





### Safety Zones

- Offshore facilities have a 500 meter safety zone above and around.
- Unauthorized activities within the zone is forbidden.
- Refer to AIP ENR 2.2

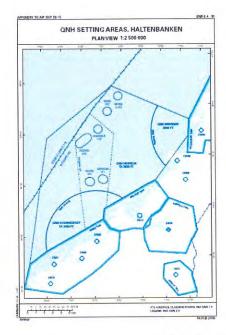


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### **QNH SETTING AREAS**

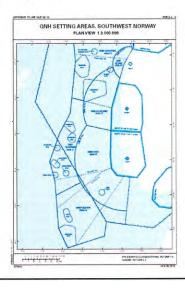
- QNH Settings and regions:
  - For air traffic operating on the Norwegian continental shelf, QNH setting areas are established. When flying in these areas altimeter setting is based on observed local QNH from a METAR station area.
  - ATS will state the QHH for the areas via R/T. When crossing a border between QNH areas, the altimeter setting shall be changed when informed by ATS





### QNH SETTING AREAS cont'd





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### Airspace Structure

- There is no military control outside Military Training Areas / Flexible Use of Airspace (FUA) like in other parts of Europe. We do not have military close control.
- Flying VFR, you will vertically and laterally pass numerous different zones, areas and classes of airspace.
- Clearance is mandatory if you intend to enter controlled
- Aircraft will avoid flying into uncontrolled TIZ/TIA space. Two way prior comms is mandatory if you have to enter.
- · It is the pilot's responsibility to adhere to the airspace
- We've had numerous near misses and airspace violations involving foreign aircraft the last years, and that is as always not acceptable!
- VFR flight gives you a lot of freedom, but also a lot of responsibility!



### Military regulations

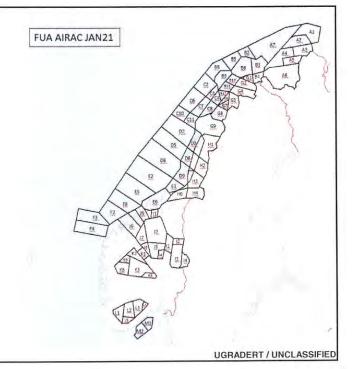
- · BML
  - Regulations for military aircraft
  - No english version





### Flexible use of airspace (FUA)

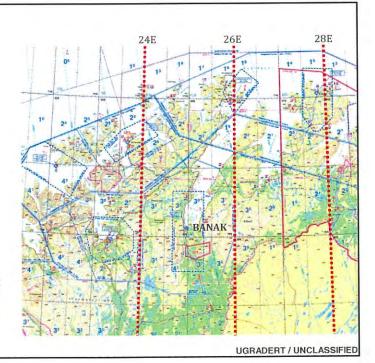
- Agreement effective as of 12. November 2015
  - Separates Mil/civ traffic
  - Typical: Unspecified
- Lower limit typically corresponds to lower limit of controlled airspace
   When G airspace below, expect to be cleared area from Ground and up to requested altitude
- Area entry:
  - Prior to entering FUA airspace, contact TAC C2 (usually ATC hands you over)
- - Advice TAC C2 about 5-10 min before leaving FUA airspace with intentions for RTB (IFR of VFR, and altitude)
- Do NOT leave FUA airspace without a clearance from TAC C2
- CRC is always available on NATO COMMON





### Geographic restrictions

- · Flying EAST of 24 Degrees:
  - Approval COM NAOC
    - Requests, routes, timings
      - Nav-log post flight
    - Flight-following mandatory (fighter A/C)
- · Flying EAST of 28 Degrees East:
  - Not authorized for Fighter a/c
- Border distance SWE / FIN / RUS:
  - 10 NM (5 NM along approved low level routes/ Training ranges / Departure-Approach)





### Temperature correction

 MSAA corrections to low temp's (ICAO doc 8168):

Table III-1-4-1 b). Values to be added by the pilot to minimum promulgated heights/altitudes (ft)

Aerodrome	Height above the elevation of the altimeter setting source (feet)													
(°C)	200	300	400	500	600	700	800	900	1 000	1 500	2 000	3 000	4 000	5 000
0	20	20	30	30	40	40	50	50	60	90	120	170	230	280
~10	20	30	40	50	60	70	80	90	100	150	200	290	390	490
-20	30	50	60	70	90	100	120	130	140	210	280	420	570	710
-30	40	60	80	100	120	140	150	170	190	280	380	570	760	950
-40	50	80	100	120	150	170	190	220	240	360	480	720	970	1 210
-50	60	90	120	150	180	210	240	270	300	450	590	890	1 190	1 500



#### Wind correction

- MSAA corrections to strong winds:
  - Guideline tool from ICAO doc 8168:
    - «It is up to the pilot-in command to evaluate whether the combination of terrain, wind strength and direction are such as to make a correction for wind necessary.»

Table III-1-4-5. Altimeter error due to wind speed (non-SI units)

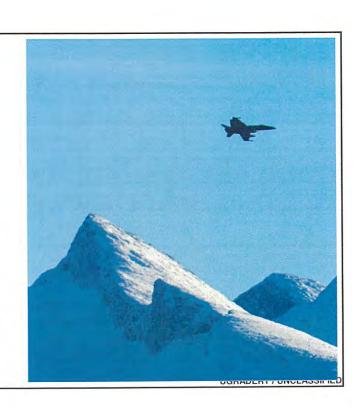
Wind speed (kt)	Altimeter error (ft				
20	53				
40	201				
60	455				
80	812				

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### Low Level Flying (<1000ft AGL)

- NAOC is the approval authority for all low level flying to ensure deconfliction from other military and known civilian traffic, noice-sensitive areas, furfarms, powerlines etc.
  - Normally, such approval will only be given when aircrew are departing from a Norwegian airfield or airbase.
- In certain conditions (e.g. during exercises), NAOC may approve low level flying in Norway for aircrew departing from abroad.
- Can be delegated to an experienced RNORAF pilot during exercises or other activities.
- Mandatory face to face or VTC brief required (telephone conference can be used if no other option available. Needs to approved by NAOC)





### Aborted low level flying

- If you have to abort low level flying, and this results in flying into IMC without prior coordination with ATC, the following applies when inside controlled airspace:
  - Climb above minimum safe altitude and level off at the lowest flight level that ends with 5 (FL35, FL45, FL55 etc.) or a higher altitude with 5 if a emergency situation so requires.
  - Inform appropriate controlling agency (ATC/CRC (Fighter Controller)) ASAP. Obtain an IFR clearance as soon as practical.
  - If unable to contact controlling agency (ATC/CRC), Squawk mode 3, code 7600 or 7700 if a emergency situation exists.
- If an emergency situation exists, regardless of position:
  - Climb to a safe altitude.
  - Squawk IFF Mode 3, code 7700.
  - Broadcast MAYDAY message on VHF or UHF Guard frequency.



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#### ROYAL NORWEGIAN AIR FORCE Norwegian Air Operations Centre

### Deviating from Preplanned Low-Level Track

- When forced to deviate from the pre-planned track due to poor weather conditions or other reasons, low-level flying will be discontinued.
- Low-level flying may be continued if and when the aircraft or formation is able to get back on the planned track.

#### Minimum safe altitude

- When planning the low level route:
  - A minimum safe abort altitude (MSAA) shall be determined and clearly depicted on the map for each leg or section of the route.
  - The MSAA is calculated based on the highest obstacle within 5NM on either side of planned track.
  - MSAA shall ensure 2000' terrain separation if the highest obstacle is above 6000' MSL, otherwise 1000' terrain separation.
  - These MSAA's shall be corrected for low temperature conditions and strong winds.





# Violations of low level flying regulations

- All violations of regulations regarding minimum altitudes are to be reported to Host Unit (HU) Air Wing Commander and COM NAOC as soon as possible.
- HU Air Wing Commanders are given disciplinary authority on behalf of COM NAOC.



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### Airspace for low level flying

- Norway has no dedicated low level airspace or corridors.
- The whole country and open waters is available for low level as long as minimum heights above the following areas are adhered to:
  - Cities, and smaller, densely populated areas
  - National parks
  - Fox/mink farms
  - Protected areas
  - Low flying over "open waters" means flying outside the Norwegian coast line, and more than 1 NM from islands and peninsulas.





### FIXED WING SECTION

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### Minimum altitudes – Foreign mil A/C

- As a general rule, aircraft will not fly lower than 1000' AGL, except during take-off and landing.
- The minimum altitude over cities and villages for Fighter a/c is 3000' AGL.
- Low flying (below 1000') requires NAOC approval.

- 500' AGL min ALT may be approved as a general minimum altitude for an approved low level route, inside a defined exercise area or inside a gunnery range.
  - Such approval may be granted on a mission to mission basis, or for a specific range of missions.
- 300' AGL min ALT may be approved inside a
  defined exercise area when participating in a
  planned exercise or other activity approved by COM
  NAOC. If a defined exercise area is not specified, or
  parts of the flight will occur outside the specified
  exercise area, 300' min ALT may still be approved
  inside a further specified area.
  - Such approval may be granted on a mission to mission basis, or for a specific range of missions.



# Minimum altitudes – Fighter A/C

- For Fighter A/C, 200' AGL min ALT may be approved provided the mission is conducted as a formation flight led by a Norwegian pilot.
- Prerequisites for flying 200' AGL in Norway is that the low level route has been flown and recognized at 300'-500' AGL within the last 12 months.
  - Reason: Towers and power lines are often erected without being reported to appropriate authorities, and without corresponding map updates.



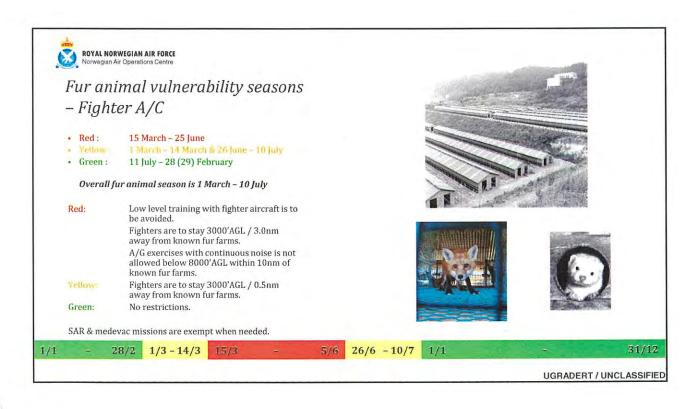
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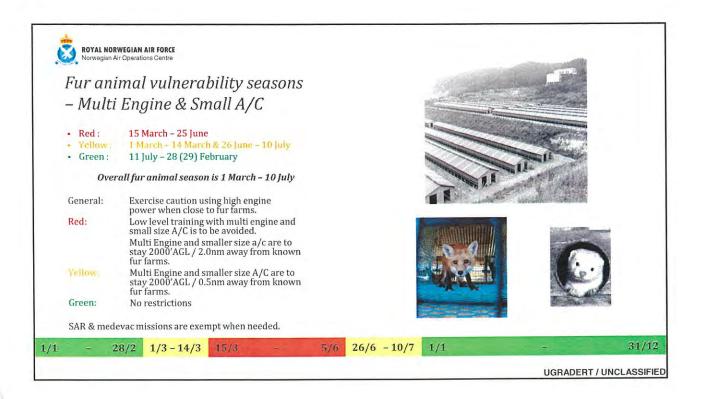


# Minimum altitudes MPA & Transport A/C

 Foreign MPA and Transport A/C flying in IMC may fly down to 200ft AGL min ALT over the water provided the A/C is equipped with radar altimeter, operational navigation equipment, the mission requires it and the A/C is 5NM or more from shore over open water







(316)

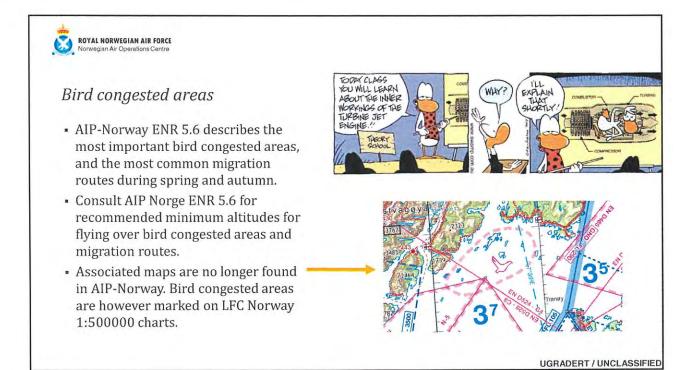


#### Reindeer

- Reindeer may be sensitive to noise from aircraft. Great caution is required to avoid overflying herds of reindeer at low altitudes. If possible, stay clear of reindeer-flocks when flying low level.
- The following periods require increased attention to avoid areas with reindeer:

15. April – 15. June and 25. August – 31. October







### Norwegian national holidays

- Low flying is not permitted on the following national holy days:
  - 1. January,
  - Maundy Thursday,
  - Good Friday,
  - Easter Eve,
  - Easter Sunday and Easter Monday,
  - 1. May, 17. May,
  - Ascension Day,
  - Whit Sunday and Whit Monday
  - 25. and 26. December.
- The same restriction applies after 13:00 local time on 24. and 31. December, and Pentecost Eve.



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### Flying at Supersonic speed

- · Over land:
  - Above FL300 only
- · Over open Water:
  - Minimum FL150 provided:
    - A/C is more than 10NM from land, pointing away from coastline.
    - A/C is more than 30NM from land.
    - If above conditions cannot be satisfied, use minimum altitude FL300.





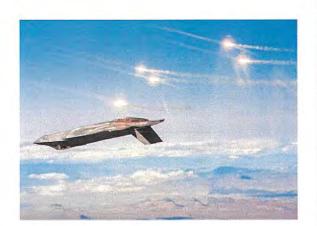
### Chaff & Flares

#### Release of Chaff:

- · Use of "Bulk Chaff" is to be coordinated with COM NAOC.
  - Take upper winds into consideration.
- No restrictions inside Military Training Areas (TSA / FUA).

#### Release of Flares:

- · No use of flares below 3000 feet AGL over land.
- Over open water; no altitude limit, but stay clear of
- No use of flares above populated areas.
- No use of flares at night unless approved by COM NAOC.
- · When releasing flares make sure that adversary is:
  - Above or at same altitude
  - On lead pursuit curve, or
  - On pure pursuit curve



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### ROTARY WING SECTION



### Helicopter specifics – Low Level Flying

- Minimum altitude for foreign crews is 1000' AGL. (Lower altitudes must be approved by COM NAOC and require a face to face VFR briefing).
- · Low level flying is defined below 500' AGL.
- Tactical flying below 200' AGL only in areas well known to the crew. Mission will be briefed with special attention to power lines and other low level hazards.
- For tactical terrain following flying, minimum altitude is 50' AGL.
- Minimum altitude in populated areas (cities) is 1000' AGL.
- Minimum altitude over protected areas is 1000' AGL

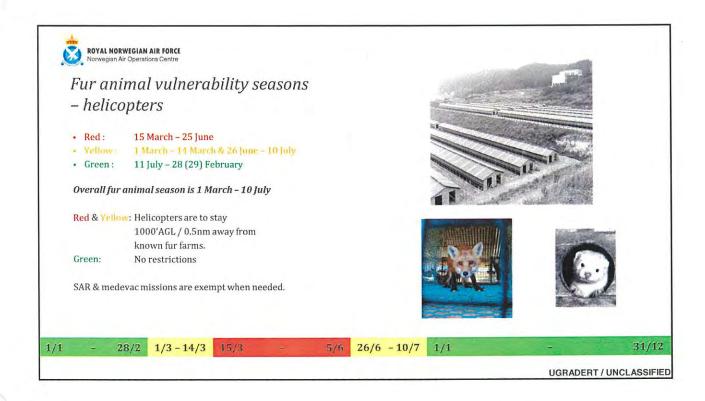
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# Minimum altitudes maritime helicopter

 Foreign maritime helicopters flying in IMC may fly down to 200' AGL min ALT over the water provided the a/c is equipped with radar altimeter, operational navigation equipment, the mission requires it and the helicopter is over open water 800 meters (2400') or more from shore/installations.





ENCLOSURE (3(1)



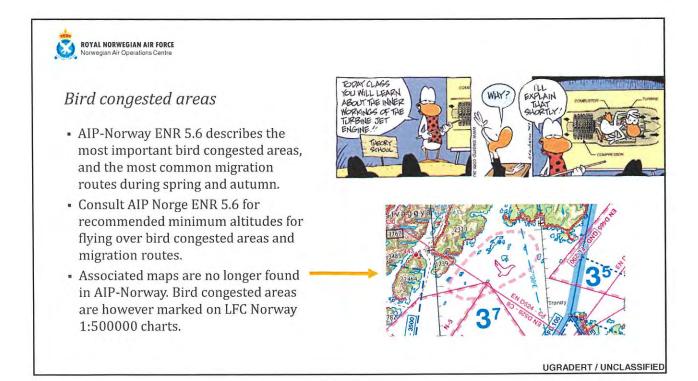
#### Reindeer

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- The following periods require increased attention to avoid areas with reindeer:

15. April – 15. June and 25. August – 31. October



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ENCLOSURE (3(1)



### Norwegian national holidays

- Low flying is not permitted on the following national holy days:
  - 1. January,
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  - Good Friday,
  - Easter Eve,
  - Easter Sunday and Easter Monday,
  - 1. May, 17. May,
  - Ascension Day,
  - Whit Sunday and Whit Monday
  - 25. and 26. December.
- The same restriction applies after 13:00 local time on 24. and 31. December, and Pentecost Eve.



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### Helicopter specifics – Landing outside airfield

- Landing on cultivated areas (Farmland) requires permission from the owner.
- Landing within military establishment without permanent landing area is subject to permission from the commander of the establishment.
- Landing inside densely populated area is subject to permission by the local police and by the owner or user of the area.

	Cultivated Ground	Uncultivated Ground	National Park etc		
SAR/Police/etc	YES	YES	YES		
Milops	NO (Owner)	YES	NO		
Exercise	YES (Owner)	YES	NO		



(3(2)



# Helicopter specifics – VFR operations

- Flying under bridges, power lines or any other installation is prohibited.
- · VFR Flight visibility below 1000' AGL
  - Day:
    - · min 0,8 km (civilian rules)
  - Night:
    - min 5 km visibility with distinctive terrain contours (military rules)
  - Night with NVG:
    - min 3 km visibility with distinctive terrain contours. Cloud base min 300'AGL (military rules)
- Special VFR (inside a control zone)
  - Min 800 m visibility
  - Clear of cloud and surface in sight

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# Helicopter specifics – NVG operations

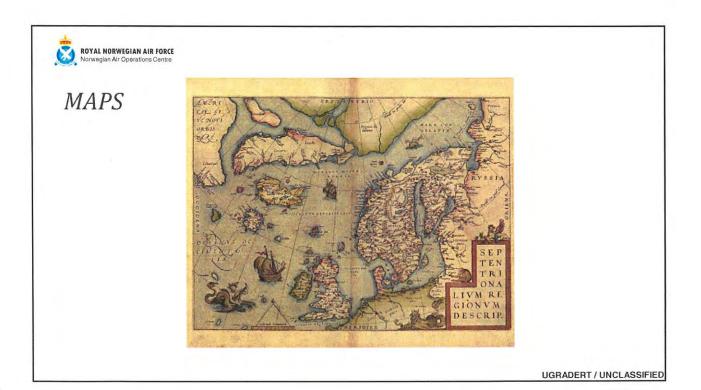
- If you are
  - outside controlled airspace and
  - below 500ft AGL and
  - NVG ops are reported on flightplan

Then conventional exterior lights may be switched off (IR lights should be on)



## [END OF ROTARY WING SECTION]

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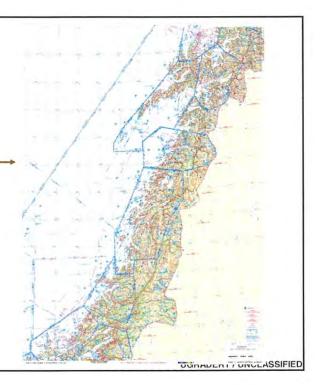


ENCLOSURE (3/4)



### Map requirements/availability

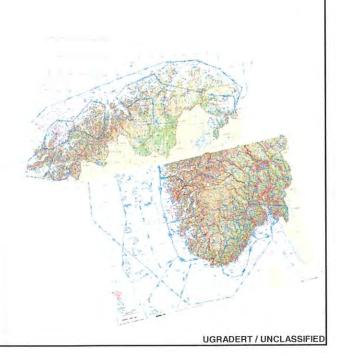
- The Norwegian mil GEOMETOC services have several types of maps available:
  - \*M517-AIR (1:250K)
  - \*LFC (1:500K)-
  - FLMA (1:1M)
  - N100-AIR (1:100K)
  - N50-AIR (1:50K)
- All maps are available in the following formats:
  - POD (Print-On-Demand) (M517, LFC, FLMA only)
  - GeoTIFF 169dpi
  - GeotTIFF 400dpi
  - Geopackage
  - MbTiles (For use in desktop app MapTiler and iOS app Foreflight)



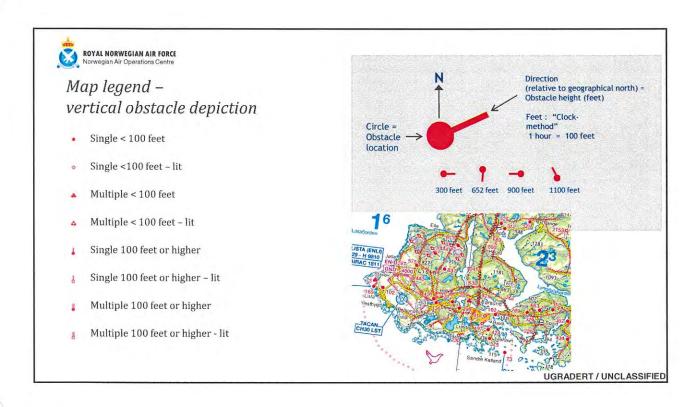


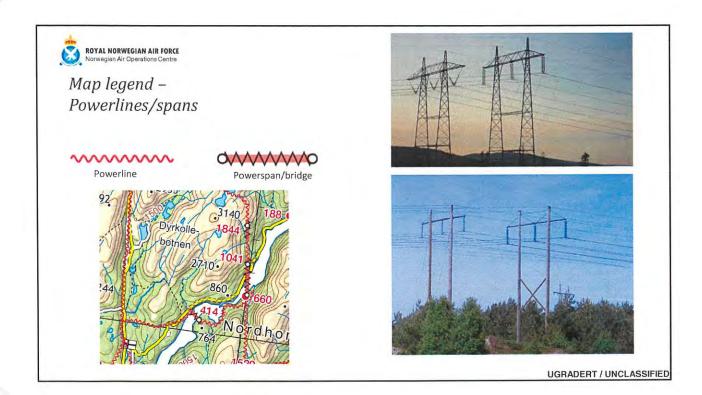
# Map requirements/availability cont'd

- Updates to the maps are issued according to AIRAC releases by Avinor (NOR CAA), approximately once a month.
  - This will enable aircrew to identify areas were low flying is prohibited.
- Your host base will be responsible for printing updated maps.
  - Downloads will be made available on request, but aware of file size in relation to your available bandwidth.
- If possible, obtain current maps through your own GEOMETOC organization



<sup>\*</sup> Maps to be used as reference to protected areas and areas prohibited for low flying.

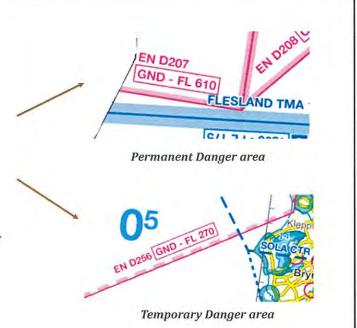






### Map legend – Danger- and restricted areas

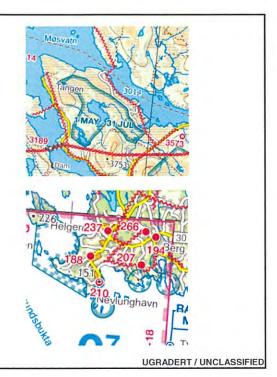
- Permanent Danger areas
  - Activity dangerous for aircraft may take place. Recommend to coordinate activity with NAOC before entry.
- · Temporary Danger areas
  - Activity dangerous for aircraft may take place.
     NOTAM activated.
- NOR NAVY firing area (SDP103(G))
  - Same marking as temporary danger ares.
     Identification will correspond with region. E.g.
     Eastern parts of Norway Ø10, Ø11, etc.
- · Restricted areas
  - Same marking as Danger areas. Identification
     «EN Rxxx» in stead of «EN Dxxx», To be
     avoided unless authorized by approval
     authority.

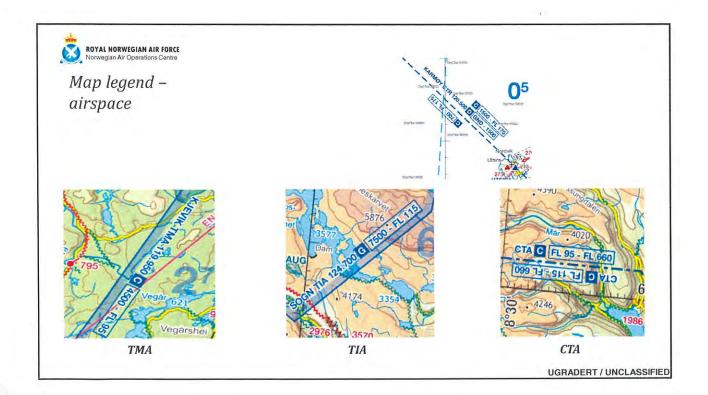




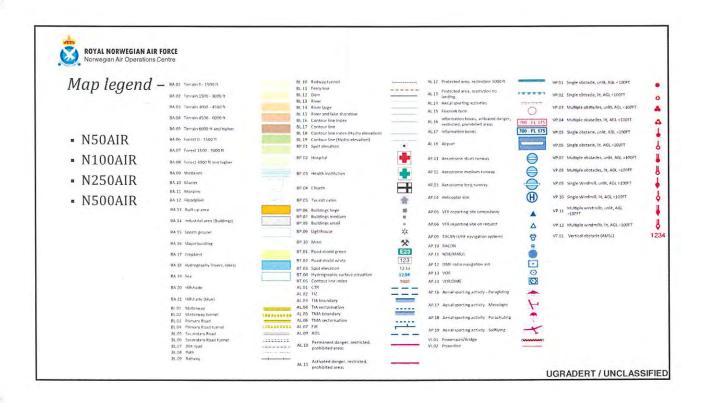
### Map legend – protected areas

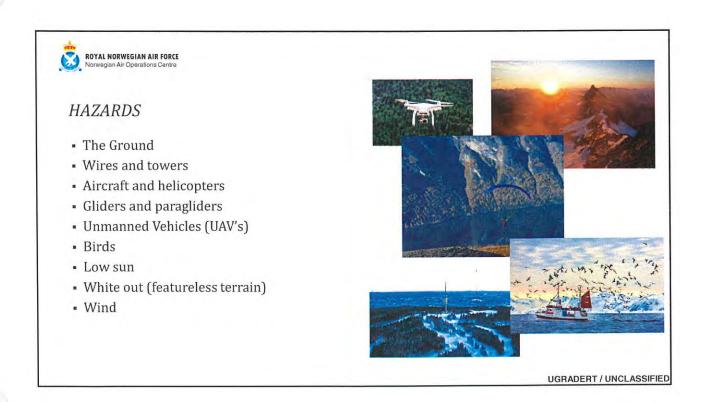
- Protected area restriction 1000 feet
  - Protected area 1.MAY-31.jul
    - NOR A/C allowed below 1000ft outside these dates
    - Foreign A/C: 1000ft restriction all year
- Protected area restriction NO LDG
  - Protected area NO LDG →
  - Applies all year unless otherwise depicted





(311)







#### The Ground

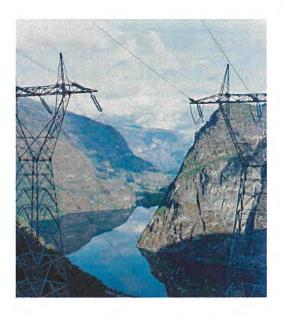
- Keep your priorities straight regarding your maneuvers and flight versus the proximity to the ground and the terrain surrounding you.
- If you have to look away, ensure deconfliction with ground for the duration. Quick cross-checks are paramount.
- GCAS systems may save you, but you have to act quickly.
- IF YOU ARE NOT 100% SURE YOU ARE IN THE RIGHT FJORD OR VALLEY
- CLIMB OR TURN AROUND!

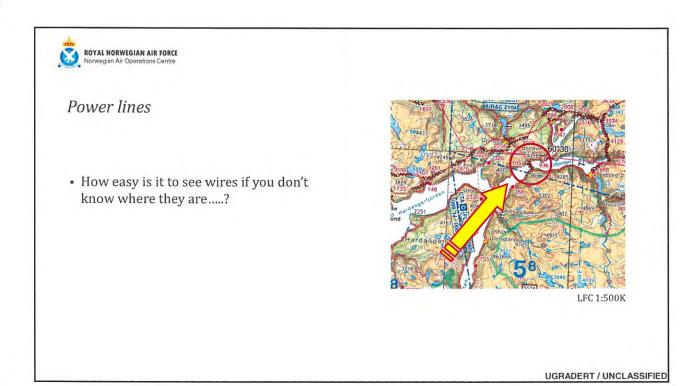
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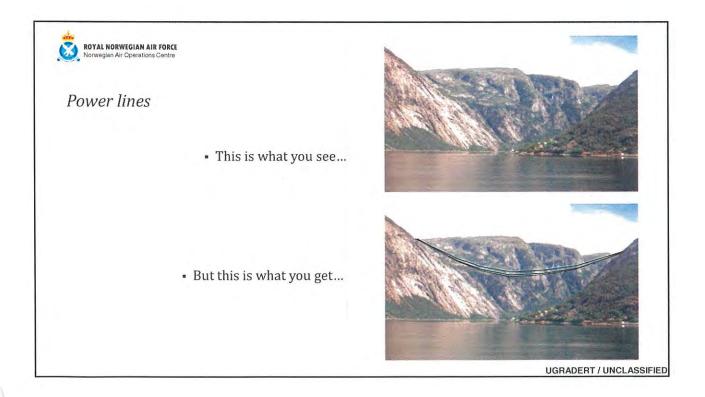


### Wires and Towers

- Most towers are under 200 feet AGL. (mobile phone towers).
- Short wire spans are as deadly as long spans.







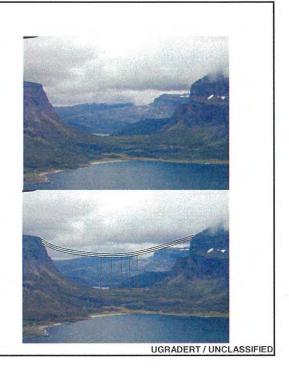
ENCLOSURE (3/ 4)

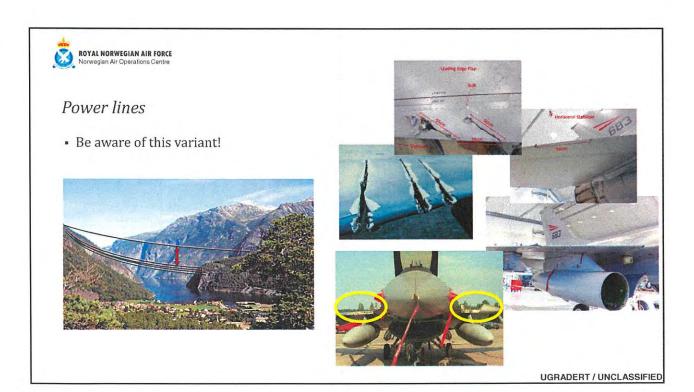


### Power lines

• How about this one?

NOVIK, 20 NM south of Bodø





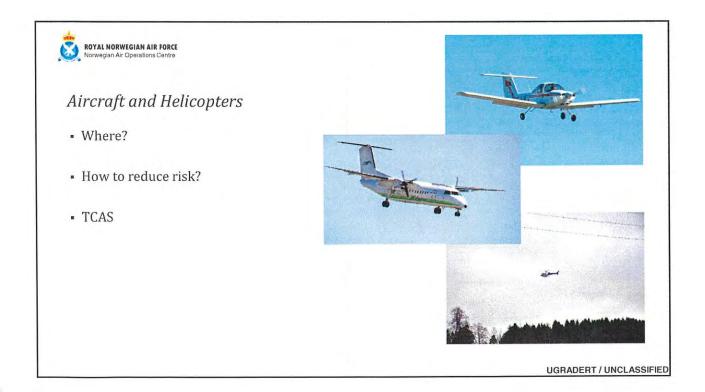


#### Wires

- Techniques on avoiding wires.
- Techniques on finding wires.



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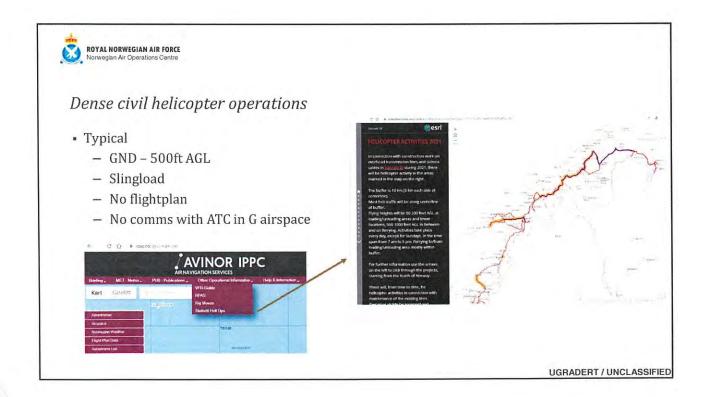


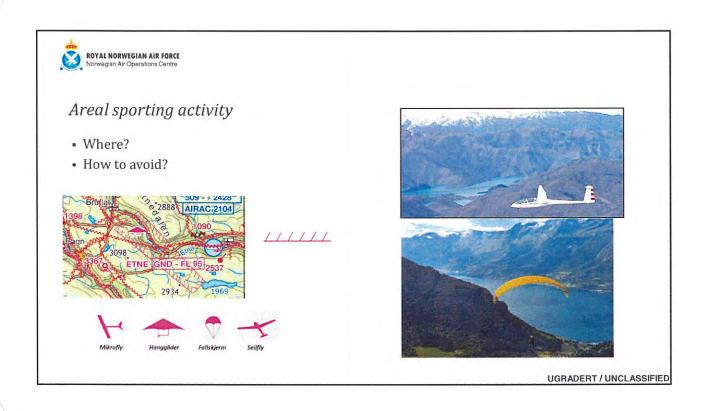
ENCLOSURE (31 )

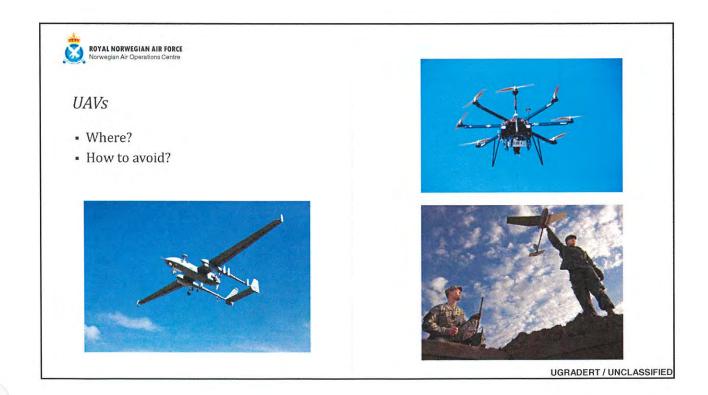


### Flying Hazards; Other Aircraft

- On-shore Civ VFR may fly without flightplan and talk to Nobody.
  - Refer to IPPC/briefing/Statnett for info about Powerline building operations (Typical 500 AGL slingload).
- Fly on the right side in the walleys to prevent head-on collisions with Other VFR traffic.
- Offshore helicopter traffic in/over the exercise area.
  - In ADS (Gairspace).
    - Requested to communicate position & intentions with ATC.
  - In D or C airspace:
    - Always obtain ATC clearance first.





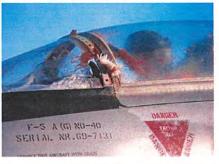




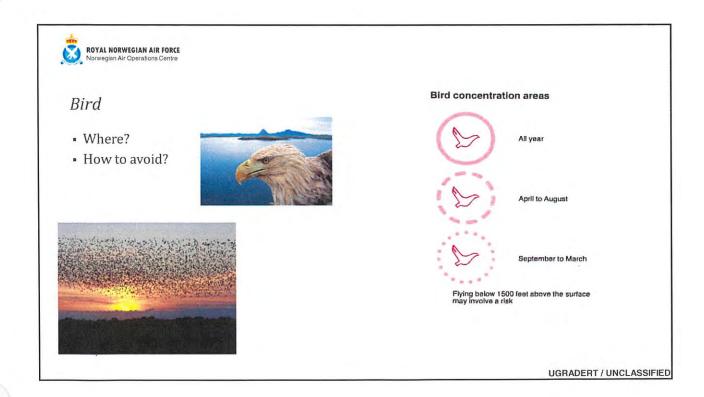
#### Birds

- · Birds are normally not a big problem during winter
- Eagles and falcons in mountains
- · Largest concentration of birds along the coast.
  - Avoid overflying small islands and fishing boats











#### Low sun

- Planning consid's.
  - If avoidable: Don't plan low level flying «into» a low sun.
- · Techniques.
  - Flight path deconfliction.





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#### Winter

- Low sun white snow-cover
- Expect winter conditions, even in summer...





#### Winter

- Visual height references:
  - No trees / small trees
  - Rocks size
- Depth perception in dim light conditions:
- NVG flight in snow conditions
- Wx may change rapidly CHECK LATEST
- METAR's keep updated. Plan for bad weather



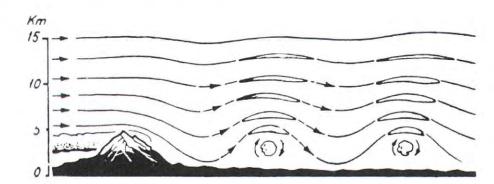


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#### Wind

· Severe turbulence - heavy downdrafts





- Snow/desert: Can be hard to judge altitude. The rock you assume to be 5 meters in diameter is only 1 meter, leading to a misperception of altitude.
- PGCAS can save you, but best to recognize hazard and avoid putting flight path marker into terrain.
- Water: «Glassy» water makes it hard to judge altitude. Use RALT to ease the a/c down.





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# The following subjects are Norwegian recommended emphasis items for low level authorization:

- Choice of routing, terrain, known hazards/obstacles (wires, towers), and fur farms.
- · Danger areas and other airspace restrictions
- · Weather and light conditions.
- Airspace structure and communication with ATC.
- · Other air traffic below 3000 feet AGL.
- Weather aborts and minimum safe altitudes. Your position in relation to surrounding terrain and min safe altitude.
- Contingencies (uncertain about position, wingman blind etc.)
- · Guidance and restrictions for (parts of) the planned route.
- Flight lead and flight members' experience and low level currency.



#### Please....

Do not expect to be approved for low level unless it's a part of your squadrons mission sets!

There are few restrictions and regulations for Low Level flying in Norway.

Please acknowledge- & adhere to the ones we have, then hopefully, we can keep things the way they are!

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#### MAIN TAKEAWAYS

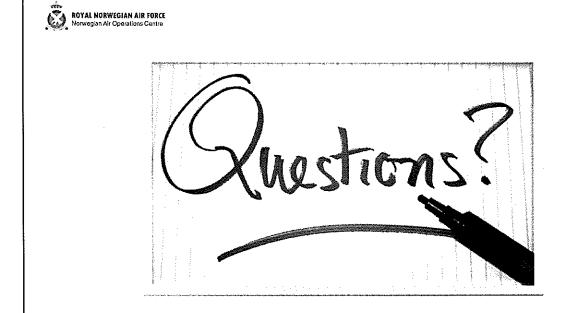
- AIRSPACE
  - Radio procedures
- Low Level restrictions
  - Mink Farms
  - Reindeer
  - Protected areas
    - 1000ft AGL
    - NO LAND/NO HOVER
- · Weather/season
  - Fuel consids/alternates
- NAOC ATO
  - Inputs needed 0900L the day prior
    - Maps: forward to naoc@mil.no
    - DOTAHs: call A3-5 if not able



# Reporting of safety related incidents

- All safety related incidents and occurences shall be reported to the loacal Wing Safety Officer (WFSO) or directly to the Inspectorate of Flight Safety.
- In some cases incidents shall also be reported anonymously to the Norwegian Civil Aviation Authority (CAA) in accordance with EU Reg 376/2014 and 2015/1018 Annex I.
- The form NF-2007 shall be utilized for all incident reporting involving ATC and/or civil aircraft.
- · Examples:
  - Runway incursions
  - Bird strikes
  - Anytime «mayday» is decleared
  - ATC clearance violations
  - Training Area violations
  - Near miss
  - Illuminated by laser

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### Useful phone numbers (civ/mil)

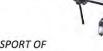
- NAOC
  - NDO: +47 7553 6900 / 0565-6900
     A3-3 FICO: +47 7553 6931 / 0565-6931
     A3-5 (ATO): +47 7553 xxxx / 0565-xxxx
- Wing ops:
  - ENBO
  - ENOL
  - ENDU
  - ENAN
  - ENGM
  - ENRY



#### UNITED STATES MARINE CORPS

MARINE MEDIUM TILTROTOR SQUADRON 261 (-) REINFORCED, COLD RESPONSE DETACHMENT MARINE AIRCRAFT GROUP 26, 2D MARINE AIRCRAFT WING, FMF POSTAL SERVICE CENTER BOX 21016

JACKSONVILLE, NC 28545-1016



MISSION: SUPPORT THE MAGTF COMMANDER BY PROVIDING ASSAULT SUPPORT TRANSPORT OF COMBAT TROOPS, SUPPLIES AND EQUIPMENT, DAY OR NIGHT, UNDER ALL WEATHER CONDITIONS DURING EXPEDITIONARY, JOINT, OR COMBINED OPERATIONS.

#### FLIGHT SCHEDULE MONDAY, 21 FEBRUARY 2022 (2052)

\*NO FLIGHTS SCHEDULED\*

SCHEDULED HOURS

FEB(GOAL/SCHEDULED/EXECUTED) 26.2 / 6.0 / 6.0 QTR 600.3 / 237 / 195.2 FY

2426.0 / 543.5 / 490.2

ADMIN NOTES:

START END	LOCATION	REMARKS	NOTES	POC
0800 0830	OPS 5	MAINTENANCE MEETING	DESIGNATED PERSONNEL	
NLT   0800	BARRACKS I	WEAPONS TURN IN	ALL MAINBODY PERSONNEL	
0900 1000	OPS NORTH	NORWAY COURSE RULES	ALL PILOTS TO ATTEND	
1100   1130	OPS 5	STAFF SYNC / WEEKLY SYNC	ALL SHOPS TO SEND A REPRESENTATIVE	(b)(3), (b)(6), (b)(7)c
1130   1200	OPS 5	OPS SYNC	OPS PERSONNEL TO ATTEND	(2)(3), (2)(3), (2)(.)3
1500 1600	OPS NORTH	2D MAW OPS SYNC	(b)(3) (b)(6) (b)(7\(\overline{1}\)O ATTEND	
1700 1730	OPS 5	MAINTENANCE MEETING	(b)(3), (b)(6), (b)(7],Q ATTEND DESIGNATED PÉRSONNEL	

#### FLIGHT SCHEDULE TUESDAY, 22 FEBRUARY 2022 (2053)

\*NO FLIGHTS SCHEDULED\*

**ADMIN NOTES:** 

START	END	LOCATION	REMARKS	NOTES	POC
NLT	СОВ	INDIVIDUAL SHOPS	COLD WEATHER TRAINING VIDEOS	SHOP LEADERS TO FACILITATE	
0800	0830	OPS 5	MAINTENANCE MEETING	DESIGNATED PERSONNEL	
0900	1000	OPS 5	INTRO TO WINTER SERVICE TRAINING	ALL AIRCREW TO ATTEND	
	1100	OPS 5	COLD WEATHER INJURIES	ALL AIRCREW TO ATTEND	
1	1130	OPS 5	COLD WEATHER NUTRITION	ALL AIRCREW TO ATTEND	
1	1400	OPS 5	COLD WEATHER CLOTHING DEMO	ALL AIRCREW TO ATTEND	(b)(3), (b)(6), (b)(7)c
1400	1500	OPS 5	COLD WEATHER LEADERSHIP	ALL AIRCREW TO ATTEND	
1500	1600	OPS NORTH	2D MAW OPS SYNC	(b)(3), (b)(6), (b)(7) O ATTEND	
1500	1600	OPS 5	SIBERIA TRAINING	ALL AIRCREW TO ATTEND	
1700	1730	OPS 5	MAINTENANCE MEETING	DESIGNATED PERSONNEL	

#### FLIGHT SCHEDULE WEDNESDAY, 23 FEBRUARY 2022 (2054)

\*NO FLIGHTS SCHEDULED\*

**ADMIN NOTES:** 

START	END	LOCATION	REMARKS	NOTES	POC
NLT	COB	INDIVIDUAL SHOPS	COLD WEATHER TRAINING VIDEOS	SHOP LEADERS TO FACILITATE	
0800	0830	OPS 5	MAINTENANCE MEETING	DESIGNATED PERSONNEL	
0900		OPS 5	INTRO TO BIVOUAC	ALL AIRCREW TO ATTEND	
1000	1100	OPS 5	AVALANCHE / SAFE ROUTING	ALL AIRCREW TO ATTEND	
	1200	OPS 5	COLD WEATHER WEAPONS EFFECTS	ALL AIRCREW TO ATTEND	(b)(3), (b)(6), (b)(7)c
1330	1430	OPS 5	SURVIVAL GEAR PRAC APP	ALL AIRCREW TO ATTEND	
1500	1600	OPS NORTH	2D MAW OPS SYNC	(b)(3), (b)(6), (b)(7) €O ATTEND	
	1730	OPS 5	MAINTENANCE MEETING	DESIGNATED PERSONNEL	
1900	0600	FIELD	OVERNIGHT SURVIVAL GEAR PRAC APP	ALL AIRCREW TO ATTEND	

#### FLIGHT SCHEDULE THURSDAY, 24 FEBRUARY 2022 (2055)

\*NO FLIGHTS SCHEDULED\*

SCHEDULE 24: CAPT REYNOLDS, R. SCHEDULE 48: CAPT TOMKIEWICZ, M.

ADMIN NOTES:

START	END	LOCATION	REMARKS	NOTES	POC
NLT	COB	INDIVIDUAL SHOPS	COLD WEATHER TRAINING VIDEOS	SHOP LEADERS TO FACILITATE	
0600	0700	FIELD	PRAC APP PACKUP AND DEBRIEF	ALL AIRCREW TO ATTEND	
0800	0830	OPS 5	MAINTENANCE MEETING	DESIGNATED PERSONNEL	# 1 / - 1 # 1 / - 1 # 1 / - 1
1400	1430	OPS 5	WEEKLY SYNC	ALL SHOPS TO SEND A REPRESENTATIVE	(b)(3), (b)(6), (b)(7)c
1500	1600	OPS NORTH	2D MAW OPS SYNC	(b)(3), (b)(6), (b)(7) (O ATTEND	
~~~0	1730	OPS 5	MAINTENANCE MEETING	(b)(3), (b)(6), (b)(7)(O ATTEND DESIGNATED PERSONNEL	

151

(b)(3), (b)(6), (b)(7)cCOMMANDING OFFICER Enclosure (32)

From: To:

(b)(3), (b)(6), (b)(7)c

Cc:

Subject:

RE: Data Request

Date:

Wednesday, May 25, 2022 1:31:28 PM

Attachments:

(CUI) CR22 VMM-261 FLIGHT SCHEDULE 21-24 FEB 22.pdf

Low Level Brief - Part 1 - Rules Regulations (ARC WIP).pptx

Low Level Brief - Part 2 - Recommended Procedures in Norway (ARC WIP).pptx 2022-02-21 (U) Gen Local Area Brief SOF (ARC).pptx

Sir,

Sorry for the delayed response. I took a bit of leave and am getting caught up.

There was no roster for that training. See attached schedule for the brief occurring on the 21st. All pilots attended that were present to include the mishap crew members. Also, I've attached the briefs we received. Let me know if you have any questions.

Very Respectfully,

(b)(3), (b)(6), (b)(7)c

----Original Message----

From:

(b)(3), (b)(6), (b)(7)c

Sent: Tuesday, May 24, 2022 11:51 AM

To: Cc:

(b)(3), (b)(6), (b)(7)c

(b)(3), (b)(6), (b)(7)cSubject: RE: Data Request

#### (b)(3), (b)(6), (b)(7)c

Thanks for following up on this. I don't think there was ever a definitive answer via email regarding the NAOC training.

If the answer is that there is not a physical record of all of the personnel from VMM-261 in Norway receiving the brief that is ok.

However, if the understanding is that all of the pilots, and specifically that any of the crew of GT31 did receive that brief, it would be helpful to have an email from you and each of the personnel in the CC line stating that and ideally when/where. A flight schedule with the brief as a ground event would be bonus material in that regard if you have it.

(b)(3), (b)(6), (b)(7)c

----Original Message----

From:

(b)(3), (b)(6), (b)(7)c

Sent: Wednesday, May 18, 2022 7:11 AM

To:

(b)(3), (b)(6), (b)(7)c

Subject: RE: Data Request

Sir,

I'll look to see if there was a roster if that is what you're referring to. I'll see what my team can figure out for you.

I'm not sure a document exists on who reached the site when, but I know my team did not reach the site until 24 March. A spec ops team which included Counter Intel, Navy Seals, and a PJ were on scene either that night or next day.

#### (b)(3), (b)(6), (b)(7)c

See if there is any document pertaining to the NAOC safety brief. If we don't have it, maybe ARC can help locate it.

Very Respectfully,

(b)(3), (b)(6), (b)(7)c

Original Message----

(b)(3), (b)(6), (b)(7)c

Sent: Friday, May 13, 2022 11:21 AM

(b)(3), (b)(6), (b)(7)c

Subject: Data Request

#### (b)(3), (b)(6), (b)(7)c

Is it possible to obtain a couple of products from your team if you have it?

Copy of NAOC Safety Brief Attendance for mishap crew members

Reference document of when and who first reached the mishap site

Thank you,

V/R,

(b)(3), (b)(6), (b)(7)c

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(b)(3), (b)(6), (b)(7)c

Cc:

Subject: RE: Data Request

Date:

Wednesday, May 25, 2022 1:31:28 PM

Attachments:

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(b)(3), (b)(6), (b)(7)c

Sent: Tuesday, May 24, 2022 11:51 AM

To:

(b)(3), (b)(6), (b)(7)c

Cc:

(b)(3), (b)(6), (b)(7)c

(b)(3), (b)(6), (b)(7)cSubject: RE: Data Request

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(b)(3), (b)(6), (b)(7)c

----Original Message----

Enclosure (32)

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Sent: Wednesday, May 18, 2022 7:11 AM

To: 1 (b)(3), (b)(6), (b)(7)c

Subject: RE: Data Request

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(b)(3), (b)(6), (b)(7)c

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Tal

(b)(3), (b)(6), (b)(7)c

Subject: Data Request

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Reference document of when and who first reached the mishap site

Thank you,

V/R,

(b)(3), (b)(6), (b)(7)c

di kangadan s					Fli	ghts Cance	lled due to	Weather*,						1,144114444
	2-Mar	7-Mar	8-Mar	10-Mar	12-Mar	13-Mar	18-Mar	21-Mar	23-Mar	25-Mar	27-Mar	28-Mar	29-Mar	Totals
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MV-22B	<u>Especialis</u>	1				Let the DE Days	A Sitt Page	1			1			3
UH-1Y	4													4
AH-1Z														0
KC-130J							1			1				2
F/A-18		4	4	4	2	4	10	6	10			2	10	56
TOTALS	5	5	8	4	2	4	19	13	18	4	7	4	16	109

<sup>\*</sup> DATES NOT DEPICTED - NO WEATHER CANCELLATIONS
\*\* INCLUDES FCF LINES CANX DUE TO WEATHER

### 18 March 2022

### Page 1

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	Sequenc											ADAR_		ALIBRATE			_	NORMAL_ACCELE			LATERAL_STICK_	-	DIRECTIONAL_
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22719.4	14199																	42.34375	1.3	-0.61230312	-0.14257776	2.44091172	0.0239296
22719.6	14199													220.25	4	3	3	-38.5	·1.2	-0.53906112	-0.439452	2.47899756	0.0158864
22719.8	14199																	-39.09375	-1.2	-0.48242064	0.58495944	2.46386088	0.0119148
22720	14200	15	21	54.5	66.80363584	14.4619453	2.	5	244	3022	2544	845	0.701660156	219.75	3	3	21.71575	-40.21875	-1.3	-0.44726448	-0.61132656	2.44286434	0
22720.2	14200																	-39.25	-1.2	-0.4345692	-0.62792808	2,43700548	-0.0119148
22720.4	14200													220.5625	4	3	3	40.9375	1.3	-0.40917864	0.63574056	2.43700548	-0.0238296
22720.6	14200																	-38.8125		-0.44726448	0.7226544	2,44677108	-0.0317728
22720.8	14200				66.80318339	14.45383491						829	0.703125	219.9375	3	3	-17.28125			-0.44042856	-0.79980264	2,4487242	-0.019858
22721	14200														•			-37.625		-0,3808584	-0.86034936	2,46386088	-0.019858
22721.2														222.375	2	1	1	34.4375				2,46386088	
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22722														226.0625	1	-1		-33.03125				2.45263044	
22722.2														220.0023	•		•	-36.78125				2.4389586	
22722.4					66 00775476	14.46758363						832	0.691894531	227.5	1	O	13.53125					2,44481796	
22722.6					00.50223470	14.40738383						632	0.631634331	221.5	2	v	, ,12,22172					2.45263044	
22722.8														227.375	1	G		-34.09375 -33.375				2.45995464	
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22723.4																_		-35.0625				2.45800152	
22723.6														226	1	a	)	-37.3125				2.45800152	
22723.8																_		-40.21875		-1.41308232		2.44286484	
22724					66.50136569	14.47141048						1061	0.658691406	225.8125	3_	2	10 76125			-1.48632432		2.43706548	
22724.2															į			48.09375		1.34667624		2.42968128	
22724.4														226.625	5	4	ļ	50.25		1.245114		2.43358752	
22724.6																		-51.875		-1 1914032		2 43358752	
22724.8		15	21 59.2	96875	66.80097166	14.47339782	2/	4	245	2934	2456	1219	0.635253906	225.9375	6	6	-2.96875					2.43700548	
22725																		-51.75		-1.25780928		2.43505236	
22725.2	14203													224.75	6	6	•	52.09375	1.6	1.29296544		2.4389586	
22725 4	14203																	-52.8125	1.7	-1.55566008	-0.29832736	2.43358752	
22725.6	14203				66.80062842	14 47544341						1262	0.60546875	225.25	6	6	3.125	-53.1875	-1.7	-1.82519064	-0 25464778	2.4389586	-0.258154
22725.8	14203																	-56.4375	1.8	1.92675288	-0 17890528	2.42772816	-0 2621256
22726	14203													224 1875	8	7	,	-60	-1.9	-1.78417512	-0 34374912	2 42577504	-0.2660972
22726.2	14203																	-59.5625	1.9	1.69237848	0.4687488	2.41991568	0.2700685
22725.4	14204	15	22 0	90625	66.80035366	14 47755106	24	1	245	2926	2448	1241	0.573242188	223.8125	10	8	9.8125	59.21875	1.9	1.6394483	0.50585808	2 42577504	0 2650972
22726 6	14204																	-58.96875	-1.8	-1 82519064	-0,4980456	2 43358752	-0.2621256
22726.8	14204													222.75	9	8	ļ.	-57.84375	1.8	-1.95507312	.0.439452	2.43505236	-0.2541824
22727	14204																	-55.65625		2.24315832		2.43358752	
22727.2	14264				66.80015408	14.47970873						1224	0.544433594	222.0625	8	8	. 13			2,44921248		2.4316344	
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### 18 March 2022

Page 2

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	equenc											RADAR		CALIBRATE			VELOCITY_VE	R NORMAL_ACCELE			TERAL_STICK_ THROTTLE_	
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22727.8	14284				cr coenano			~ .	345	2952	2474	1209	0.5078125	219.125	10	10	16.6562			-2,68358688	-0.3710928 2.4164977	2 -0.2660972
22728	14205	15	22	2.5	66.80003.39	7 14.48189833	5	24	245	2552	24/4	1203	0.2076123	213.122	40	•		61.40625		2.7978444	0.38378868 2,421868	8 -0.2819836
22728.2	14265													2161075	10	11		-62.375		2.69335248	-0.46093632 2.4277281	6 -0.2859552
22728.4	14205													215.1875	10	**	•	-62.125		-2,45397808	-0.66992016 2.4277281	6 -0.3058132
22728.6	14205													215 625	• •	13	20.57			-2.38573608	-0.537108 2.4257750	
22728.6	14205				66.7999996	14,48409783	3					1177	0.47265625	215.625	11	•	20.67	-58.87		-2.28417384	-0.5029284 2.431634	
22729	14205																			2.30663472	0.42870984 2.431634	
22729.2	14205													214.75	10	11	ŧ	-58.0937		2.3290956	0.439452 2.4277281	
22729.4	14205																	-57.5		-2.65233696	-0.28027272 2.4238219	
22729.6	14206	15	22	4.109375	66.8000499	14.48628374	•	24	245	2939	2511	1147	0.438476563	214.5	10	10	21.2187				0.20898384 2.4179625	
22729.8	14206																	-57.9687		-2.70604776		
22730	14206													214.0625	9	10	>	-57,5312		2.70604776	0.17773392 2.4164977	
22730.2	14206																	57.7812		-2.6706916	0.11914032 2.4257750	
22730.4	14206				66,8001863	14.48843739	3					1196	0.397460938	212.1875	11	1	1 19.12			-2.59179024	-0.12988248 2.4277281	
22730.6	14206																	-58.37		-2.56054032	-0.13476528 2.4238219	
22730.8	14206													211.125	11	1	1	-58.37	5 1.8	-2.45413424	-0.15039024 2.4257750	
22731	14206																	-58.562	1.8	2.43358752	-0.16406208 2.4238219	
22731.2	14207	15	22	5.703125	66.80040889	14.49053446	5	24	245	3021	2543	1226	0.36328125	209.25	12	1	1 16.312	5 58,1562	5 1.8	-2,46874368	-9.20410104 2.421865	
22731.4	14207																	-56.12	5 1.8	2,4462878	-0.49999872 2.431634	
22731.6	14207													207,875	10	1	Đ	-56.0312	5 -1.3	-2.43065784	-0.45507696 2.4199156	is -0.278012
22731.6	14207																	-55.6562	5 -1.7	-2.56932936	-0.097656 2,4164977	72 -0.2740404
22732	14207				aa onnaa ast	3 14.49255592	,					1160	0 328613281	207.75	9	11	0 11.7	5 -54 0937	5 -1.7	2.52831384	-0.09472632 2.421869	38 -0.2740494
22732.2	14207				00.00071334	, 14.4343333	_											-53.7812	5 1.7	2.30370504	0.21191352 2.4277281	6 -0.2740484
														207.25	10	11	В	-55.	5 -1.7	-2.12597112	-0.2783196 2.4238215	0.2740404
22732.4	14207													207.22	•••	_	•	-54.7812	5 -1.7	-2.13255764	-0.12402312 2.421869	8 -0.2740404
22732.6	14207		**	7 40 5075	CC 00100 101			24	245	3045	2567	1145	0.296386719	206	10	1	1 6.2187			-2.27831449	-0.05691384 2.4238215	2 -0.2740404
22732.8	14208	15	22	7.296875	66.8010549	14,49448259	,	24	243	3049	2207	1143	0.170300712					-55.062		-2,27245512	-0.02343744 2.4164977	72 -0.278012
22733	14208													205.1875	10	1	n	-55.2		2.23046304	-0.01269528 2.414544	15 -0.2819836
22733.2	14208													203.1013	10	•	•	54,2187		-2.14550232	-0.00781248 2-414544	16 -0.2819836
22733.4	14203													201.002	10	1:	0 687			-2 08788528	0.06445296 2.4125914	
22733.6	14208				€6.80154984	14.49629651	1					1109	0.263183594	205.9375	10	I.	0 0000	-54.0937		1.82812932	0.24706968 2.410638	
22733.8	14208																	51.687		1.50437896	0.47949096 2.41454	
22734	14203													206	9	3	U	50 812		1.27050456	0.57519384 2.419915	
22734.2	14208																			-1.18261416	0.60449064 Z.419915	
22734 4	14209	15	22	8.90625	66.80207044	14 49 79 865	1	24	245	3053	2575	1065	0.240234375	206	8		9 +5			-1.41991824	0.44531136 2.4238219	
22734.6	14209																	-45.62				
22734.8	14209													205.5625	6		7	44.687		1.23632496	0.44531136 2.425775	
22735	14209																	43.9687		1.06152072	0.58886568 2.4257759	
22735.2	14209				66.8026435	1 14.49956378	8					1013	0.221679688	206	6		6 11.3437			-0 93163824	0.68945136 2.419915	
22735.4	14209																	-42.62		-0 81738072	0.84277128 2.419915	
22735.6	14209													205.375	6		6	-41.	5 1.3	0.59960784	0.91113048 2.419915	
22735.8	14209																	39 062	5 -1.2	-0 49511592	0.8984352 2 425775	
22736	14210	15	22	10.5	66.8032575	9 14 50104134	4	24	245	3050	2572	960	C 212890625	204.4375	3		16 0937	rs 36.437	5 1.1	0.47265504	0.6984352 2.4257756	54 -0.1866652
22.50		-																				

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Fa	quenc										р	RADAR		CALIBRATE	_		VELOCITY VE	NORMAL_ACCELE			LATERAL_STICK_	THROTTLE	DIRECTIONAL
	•				TITUDE(DEGR	ONCITABLE	HOSED CE		DADO	ALTE PRES		***			L_AOA[DEGREES R_	ADAIDEGREES			1	ONGITUDINAL_STICK_		,,,_	PEDAL_POSITI
_	Numb	PANTE BATEL	STEE CECOS				EED								i nonfocontes K		(FEET/SEC)				\$1	NCHES)	ON(INCHES)
TIME er		OURS MIN	0163 3570	NUS CES	>1	DEGREES)	EED	DIRECE	TOTAL TOUSE	ILEES THEI	11002	DATAIT	TRUE_HEADING	D(KNO13)	1		i, restant	36,5625		-0.4785144	•	2.42772816	
22736.2	14210													205				-35.625		-0.35546784			
22736 4	14210													205	2	4		-35.125		-0.18456984			
22735.5	14210														_	_							
22736.8	14210				66.80390155	14,50244615	•					915	0.207519531	205.5625	2	4	19.062			-0.17773392		2,42772816	
22737	14210																	-33		0.20312448		2.42772836	
22737.2	14210													205-75	1	3		31,84375		0.18749952		2.4326344	
22737.4	14210																	-31.21875		-0.1806636		2.42577504	
22737.6	14211	15	22 12.16	99375	66.60456422	14.50380393	3 2	4	245	3034	2556	883	0.20703125	206	0	1	-21.9062			-0.24121032		2,43358752	
22737.6	14211																	-29.09375	-0.9	-0.19726512		2.43700548	
22738	14211													206.875	Ð	ı		26.78125	0.8	-0.18456984		2.43505236	
22738.2	14211																	-25.625	3.0-	0.16796832	0.63574056	2.4389588	
22738,4	14211				66.8052388	14,50514101	:					835	0.207519531	207.25	-1	c	-26.87	5 -26.25	-0.8	-0.13964808	0.48730344	2.44285484	-0.1509208
22738.6	14211																	-25.0625	-0.8	-0.20605416	0 66503736	2.4389586	-0.1469492
22738.8	14211													207.1875	-2	0	>	-26.71875	-0.8	-0.44042856	0.41601456	2,44286484	-0.158864
22739	14211																	-27.8125	0.9	-0.5419908	0.13574184	2.4389586	0.1469492
22739.2	34212	15	22 13.70	32125	66.80592134	14.506476	, ,	4	241	2996	2518	874	0.206542969	208.25	1	ŧ	.3	28.375	-0.9	-0.40234272	0.43730344	2.4389586	0.1270912
22739.4	14212	13	22 23	33113	00.50332134	14.555471	•	•	****	2000		41.4	0,2002,72503	200.12	-		_	-29.28125		-0.30463673	0 46093632	2.44286484	-0.1231196
22739.6	14212													209.5	-1	,		-29.9375		0.01855464	0.708006	2.4316344	-0.0953184
22739.6	14212													207.3		-		30.75		-0.15527304		2.44091172	
					44 00440074	14 (07010)						858	0.205566406	209.5	-1	,	32.2512			0.25097592		2.4389586	
22749	14212				66.80660974	14.50/81032	ž.					858	0.203300400	209.3		-		-32,46875		0.2557755		2.41649772	
22740.2	14212													202 75		2	•	-32.40375		0.31640544		2.40282583	
22740.4	14212													209.75	· · · · · ·	•	•			0.5224596		2.38182984	
22740.6	14212																	-30.59375					
22740.8	14213	15	22 15.25	96875	66.80730309	14,509151	2	4	235	2942	2464	835	0.205078125	210 75	-1	1	-33.62			0.5761704			
22741	14213																	- 30.625		0.64257648		2.41259145	
22741.2	14213													210.3125	1	2	1	28.0625		0.5957016			
22741.4	14213																	-29.3125		0.30371016		2.42382192	
72741.6	14213				65.80799938	14.51049982	?					798	0.206542969	212.5		-1	-37.5312			0.24999936		2,4560484	
22741.8	14213																	- 23.125	-0.7	0.0341796		2.44481798	
22742	14213													215.625	3	-2	!	24.4375	0.8	0.19335888		2.43700549	
22742.2	14213																	-27.875	-0.9	0.3320304	0.31542885	2.41991568	
22742.4	14214	15	22 16.5	90625	66.80369843	14.51186992	2 2	5	230	2689	2410	762	0.206542969	215.75	2	-1	-42.2	5 -28.6875	-0.9	0.6396468		2.38162984	
22742.6	14214																	28 75	-09	0.83886504	0.53027202	2.35936896	
22742.8	14214													213 1875	1	1		27.6875	0.9	0.57695088	3 0.46679568	2.34960336	0.0317728
22743	14214																	-27 6875	0.9	0 91894296	6 0.39257713	2.31005268	0.0317728
22743.2	14214				66 50939761	14 51375679	)					744	0.208907813	211.5	. 2	C	45.7812	5 -28.375	0.9	0.99804433	2 0.48535032	2.19774828	0.0317728
22743.4	14214				000000000	31.0404.						• • • •	0.230301.020					-26.84379	-0.8	1.15331736	6 0.50378776	2.19774828	0.0317728
22743.6	14214													213.4375	- 2	. 1		-24.5		1.1181612	0.32617104	2.13671326	0.0238296
22743.8	14214													2.40.40.0	•	•		23 4375		1.1621064		1.60448805	0.0239296
22744	14215	15	22	18.5	66.81009728	14 5146664	, ,	6	230	2823	2344	710	0.208007813	216 625	-3	3	52.437			1,2353484		1.6254841	
22744	14215	13	44	10.3	V4.01043725	*- つす。 つののつ。	. 4		444	4.04.3	2.2***	/10	0.200007515	220 023				-24.3125		1.4794884			
														217 875	. 2	.,	1	-22.5125		1.5810506		1.69774956	
22744.4	14215													217.875	*		:	-22 03125		1,44726192		1 68798398	
22744.6	14215													***						1 43847288			
22744.5	14215				66.61079491	14.51609449	,					697	0.211914063	218.8125	2	4	60 7187	5 20.59375	, 06	1 43041200	2 0.344.Yr	1.004500	0.1484040

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, ,	, P.C	1												102	1.004	1020.00.								
	Sequ	000											RADAR		CALIBRATE			VELOCITY_VE	R NORMAL_ACCELE			LATERAL_STICK_		
	e_Nu					LATITUDEIDEGR	LONGIDIDE	WIND S	CD WIND	nΔ	RO ALT	PRESSURE	-			L_AOA(DEGREES R	AOA(DEGREES	TICAL_SYSTE	M RATION(FEET/SEC	1	ONGITUDINAL_STICK_	POSITION(INCHE	POSITION(I	PEDAL_POSITI
710.45	***		DURS MUNU	are cer			DEGREES)	EED_						TRUE HEADIN	G D(KNOTS)	1		(FEET/SEC)	OND/SECOND)	G Load F	POSITION(INCHES)	5)	NCHES)	ON(INCHES) 1
TIME	er		IDRS WHAL	163 360	CHUJ	553}	DEGREES	CCO	DIIIZC	110.1170	021.22.1		"Brattal						19.937	0.6	1.66594104	0.10937472	1.71483936	0.119148
227		4215													218.5	-3		3	-19.7	-0.6	1.91991696	0.10937472	1.73192916	0.05929
22745		4215													110.5	-		-	-19.		1.85937024	0.14062464	1.72069872	0.0913468
22745		4215										****	~~~	* *******	19 221.5	-4		-71.8			1.70702688	0.21777288	1.72265184	0.0953184
22749		4216	1.5	22 2	0.09375	66.8114896	14.51754523	1	26	530	2737	2258	725	0.2182617	19 221.5	-4	•	, ,,,,,,,	19.0312		1.33007472	0.33105384		
22745		4216																	-20.12		1,24218432	0.35253816		
227	15 1	4216													221,3125	-4		3	-21.637		1.14648144		1.71288624	
22746	i.2 1	4216														_					1.245114		1.69774956	
22746	.4 1	4216				66.81217994	14.51902614	ı					772	0.2197265	63 223.625	-3	-	81.218			1.21972344		1.71483936	
22746	i.6 1	4216																	-26.0937				1.68993708	
22746	.8	4216													224.9375	. 2		2	28.2		1.30175448		1.70360892	
227	47 1	4216																	-27.7187		1,22948904			
2274	7.2	4217	15	22 21	.703125	66.81296465	14,52054184	1	26	230	2596	2116	809	0.22656	25 227.25	-1	•	2 -86.56			1.05175512		1.72411668	
2274	7,4	4217																	-27,0937		0.85839624		1.72602297	
2274	7.6	4217													229.125	-1	•	2	29.4687		6.87109152		1.73388228	
2274		4217																	-31.12	5 1.0	0.76366992		1.73388228	
227		4217				66.81354552	14.52210112	2					845	0.2377929	69 230.1875	. 0	,	1 -59.06	25 -32.5937	5 ·L0	1.01366928		1.71679249	
2274		4217																	-34,4062	5 -1.1	1.14062208		1.6826128	
2274		4217													230 625	. 0		0	-33.4587	5 -1.0	1.36816056	0.56445168	1.67675352	
2274		4217																	- 32.	5 1.0	1.4794884	0.48730344	1.6787066	
2274		4218	15	22 72	1.296375	66 21.17123	14.5237046	,	26	230	2437	1957	853	0.2475585	94 231.4375	0		0 90.06	25 -31.5312	5 1.0	1.21679376	0.1855464	1.760249	1 0.119148
227		4218	*~	44 4.		00.0142103.	1 14.5231040	,		***	2.2.		***						-32,9062	5 -1.0	1.10546592	0.04589832	1.8686475	6 0.0913468
															232.625	. 1		0	-32,4062		1.05175512	-0.03124992	2.4770444	4 0.0635456
2274		4218													4.74.74.	•			-33.812		0.84570096	-0.24609313	2.397454	8 0.0435876
2274		4218											949	0.2553710	94 233	. 0		0 -90.718			0.95019288	0.1455074	2.3476502	4 0.0476592
2274		4218				bb.5148528	14.52536001	ı					; <del>-</del> -,	0.2333120	23.				-36.312		0.93456792	0.20117136	2.3476502	4 0.0436876
2274		4218													234.125	. 1		1	-37.4062		0.96239816	-0.2490228	2.3344666	8 0,0436876
227		4218													234.123	•		+	37.13		0.97265376		2,3256073	
2275		4218														. 1		0 -83,468			0.89941176		2.292474	
2275		4219	15	22	4.90625	66 81554024	14.5270699	,	26	230	2264	1803	990	0.2592773	44 235.1875			0 -64.400	-39.062		0.8935524		2.2812441	
2275		4219																•	39 37		0.36425688		2.302240	
2275	3.0	4219													236.5625	. 2		1	-40.4962		0.27246024		2.302240	
227	31	4219																			0.51952992		2.3061464	
2275	1.2	4219				66.81619300	14.52852769	9					915	0.2656	25 238.1875	. 2		1 -82.56			0.74413872		2.2983339	
2275	1.4	14219																	-45 3437		0.87695088		2.2963808	
2275	1.6	4219													239.5	3		3	-45,562				2.2983339	
2275	1.8	4219																	44.931		0.8749212			
227	52	14220	15	22	26.5	56.81684493	7 14.5306222	5	26	229	2139	1658	796	0.2646484	38 240.6875	i 3		2 -73 3					2.2963508	
2275.	2.2	4220																	-40.7				2.3041933	
2275		14220													241.87	1		1	39.3437				2 3115175	
2275		14220																	37 406	5 1.2			2.3212831	
2275		14220				66 81750135	14.53243570	á					720	0.2651367	19 243.0625	0		0 69.031	25 35.562	5 1.1	0.80468544		2.3271424	
227		4220						-											34.2	5 11	0.74120904		5 2.3271424	
2275		4220													245	. 1		0	-36.031	5 -1.1	0.94042728	0.7939432	3 2.3080995	6 -0 0317728
															•	·			32.7812	5 -1.0	1.03613016	-0.5771469	\$ 2.3090995	6 -0.0239296
2275		14220	16	33	veran or	£6.01017.403	14.5342519		26	222	2041	1560	687	0.2597656	25 245.6875	, 1		1 -67.1		6 11	0.8837868	0.595701	5 2 3305604	4 0.0158864
2275	3.0	14221	15	22 .	28.09375	60.9101649;	14.35423191	,	40	-42	A-1,044.1	1200	, 687	0.2357030	1-0.001.	•								

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	5e	quent										Р	RADAR		CAUBRATE			VELOCITY_1	ER NORMAL_ACCELE			LATERAL_STICK_		
		Numb			LATITUDEID	EGR L	ONGITUDEL	WIND 5	P WIND	BARO	ALTI PRESS	URE A	ALTITUDE		D_AIRSPEE	L_AOAIDEGREES F	R_AOA(DEGREES	TICAL_SYST	M RATION(FEET/SEC		LONGITUDINAL_STICK_	POSITIONIINCHE		
TOM			HOURS MIN	UTES SECONE				EED			EET) ALTI	UDE	DATAIF	TRUE_HEADING		) ]	1	(FEET/SEC)	OND/SECOND)	G Load	POSITION(INCHES)	\$)	NCHES)	ON(INCHES)
	753.8	14221			,					,				-					-38.687	5 1.2	0.44628792	-C 81835728	2.34227916	0.0119148
	2754	14221													249	0	-:	ŧ	-38.0937	5 -1.2	-0.21874944	-0.70214664	2.33251350	-0.0357444
	754.2	14221																	-41.7187	5 -1.3	-0.57714690	-0.6003844	2,31737689	3 -0.0317728
	754.4	34221			66 8186	24171	14.53606026						669	0,247558594	252 873	0	(	-61	175 -43.	5 -1.4	-0.36\$23344	-0.77538864	2,32518936	5 -0.0079432
		14221			00.0200	P+211	14.03000020	,					507	V:E-7330374	402 010	•			-46.687		0.24023376	-0.9423804	2.32323624	0.0079432
	754.6														253,625	1		2	.4		0.45605353	0.82616978	2.33056044	0.0119148
	754.6	14221													233.023	•		-	-42.187		0.1582027	0.73925592	2.27391998	5 0.0039716
	22755	14221							70	220	1930	1448	635	0.232910156	252.6875	e		54				-0.2490228	2.18602950	s o
	755.2	14222	15	22 29.703	125 60,8193	) <del>1</del> 193	14.53782985	, ,	26	228	1930	149-54	633	0.232310130	232.0073	•			-44,437				2.17870530	
	755-4	14222													251.25	1		)	50.937				2.1122992	
	755.6	14222													251.23		'	•	-50.62				2.1235297	
	755.8	14222														a		47.71					2.1535030	
	12756	14222			66.820	02725	14.53953247	7					601	0.212890625	252,6875	4	•	3 -47.71	-4:				2.1328070	
	756.2	14222																					2.1445257	
22	756.4	14222													255,1875	2		)	-43.8437				2.1425726	
22	756.6	14222																	-49.12				2.182611	
22	756.8	14223	15	22 31.296	875 66.8210	3424	14.54114235	5	Zē	228	1837	1355	600	0.198730469	255.875	2		1 -42.8					2.1518499	
	22757	14223																	-53.187				2.1689397	
22	757,2	14223													253,375	3		3	-55,6562					
22	757.4	14223																	-60.				2.070307	
22	757.6	14223			66.8218	3002	14.54264609	9					593	0.185546875	258.75	3		5 -33.					1.5761678	
22	757.B	14223																	-42.3437				1.6005318	
	22758	14223													259.75	.1	-	2	-34.7187			-	1.6557574	
22	758.2	14223																	-35.62	5 -1.1			1.6879839	
22	758.4	14224	15	22 32.90	625 66.8226	65078	14,54405299	3 .	26	228	1793	1316	586	0.171875	259.0625	-2		1 -35.1	375 -36.5937	5 1.7			1.6655230	
22	758.6	14224																	37.687	5 1.2	2 -0.0500779		1.6694293	
	758.B	14224													258.5625	-2		1	40.7812	5 1.	3 -0.2666008	8 0.64159993	1 6274372	
	22759	14224																	-37.5937	5 1	2 -0.253905	6 D.42187392	1.6694293	
	759.2	14224			66.8234	18511	14.54538521	1					558	0.163035938	257.125	-2		0 -34.03	125 -36.62	5 -1.3	1 -0.263671	2 0 1406246	1.6977495	
	759,4	14224																	36 7812	5 1.	1 -0.2822258	4 -0.04492176	1 691690	
	759.6	14224													259	1		1	√35.2	5 1.	D 2851555	2 0.072265-4	1.7299760	4 -0.0675172
	759.8	14224																	-37.2812	5 1.	2 -0.3046867	2 0.12499965	1,7128362	4 -0.0754604
	22760	14225	15	22 3	34.5 66.824	22492	14.54665767	7	26	228	1729	1247	521	0.153320313	256.6875	0		1 -31.90	625 -38.4687	5 1	2 -0.2568352	8 0.17285117	1.7280229	2 -0.0714888
	760.2	14225		••			14.04003101												41.2812	5 1.	3 -0.1494136	8 0.6337874	1.7167924	8 -0.0556024
	760.4	14225													257.25	1		1	-41.062	5 1.	3 0.0888669	6 0.7871073	1.6879839	6 0.0436876
	760 6	14225														-			37 1552	5 1.	2 0.0283202	4 0.7314434	1.7146393	6 0 0436876
	760.8	14225			66 274	51027	14.54787347	7					495	0.154785156	255.8125	-1	,	1 -29 71			0.009765	6 0.69433416	1.7206987	2 -0.0317728
					06.62.	2103/	14.34767347	•					433	0.1,4703130	200.0120	-			-30.312			6 0.5781235	1.6957964	4 -0.0278012
	22761	14225													254.8125	-3		2	30.937				1 68456	6 -0.0317728
	761.2	14225													254,8125	. 3			31 9687				1.657710	
	761.4	14225						_										0 -36	375 30.62		-		1 674500	
	761 6	14226	15	22 36.09	375 66.8266	J1992	14.54906185	•	25	228	1695	1212	453	0 155761719	255.125	-3		0 -20	-35 5312	-			5 1 6767535	
	761.8	14226														_							5 1.7148393	
	22762	14226													252.3125	-7		1	-33 0937				3 1.6997026	
	762.2	14226														_			-31 9687				2 1.0593020	
22	762.4	14226			66.826	89462	14 55024303	3					454	0.151367188	249.9375	2		1 29.65	625 30.812	25 1	0 -0.5057240	a 0.7020703	- +/10/43	

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. ~0												1721		1020.00	<u></u>							
S	quenc										RADAR		CALIBRATE			VELOCITY_VI	R NORMAL_ACCELE			LATERAL_STICK_	THROTTLE_	DIRECTIONAL
	Numb			LATITUDE(DEGR	LONGITUDE	WIND SI	P WIN	D BARO	ALTI PRES		_			L AOA(DEGREES F	AOAIDEGREES	TICAL SYSTE	M RATION(FEET/SEC	1	LONGITUDINAL_STICK_	POSITION(INCHE	POSITION(I	PEDAL_POSITI
TIME e	-	OURS MIN	UTES SECONDS	,	DEGREES)	EED -		_				FRUE_HEADING	~~	; )	-	(FEET/SEC)	OND/SECOND)		POSITION(INCHES)	<b>S</b> }	NCHES)	ON(INCHES)
22762.6	14226										-	•	•			•	34.7187	5 -1.1	1.02343488	0.87988056	1 68795396	6 -0.1231196
22762.8	14225												250.875	-1		1	-39.187	5 1.2	-1.21679376	0.25488216	1.63795396	G 1032616
22763	14226													_			-42.812		-1 11523152	0.0878904	1.6748004	-0.0754604
22763.2	14227	15	22 37.70312	5 66 6277456	3 14 5514246		22	226	1611	1128	478	0.154296875	251.5	1		2 -22.56			-0.88769304		1.63476144	
22763.4	14227		11 37.7031	2 00.0277-00.	, 14.5514144			,,,,			-1.0	0.10-12,000.		-	•		-41.812		-0.92870856		1.64648016	
22763.6	14227												246.6125	1		1	-45.7812		-0.88085712		1,6332966	
22763.8	14227												2-14:0223	•		-	-43.7187		-0.97948968		1.63134348	
22764	14227			66 8285903	5 14.55262131	,					469	0.160644531	245	1		2 -13.781.			-1.06152072		1.62543412	
22764.2	14227			00.0203303	J 44.3320223.	•					403	0.2000		•			-42.6562		1.14452832	0.91113048		
22764.4	14227												245.125	1		2	-43.7187		1.36913712		1.61230056	
													243.123	1		-	-47.0937		-1.4257776		1.59325764	
22764.6	14227		33 30 30/83					~~~		1004	470	0.174004500	242.5	2		3 -3.			-1.44237912		1.59862872	
22764.8	14228	25	22 39.29687	5 66,82942129	5 14.55385169	* 4	22	228	1567	1084	470	0.174804688	242.5	2		s +3.	75 -50.312 -50.187		-1.53710544		1.62157788	
22765	14223															•					1.60253496	
22765.2	14228												240.4375	2	;	2	-45.		-1.61327712 -1.4257776	1.50194928		
22765.4	14225													_			-48.2512		-1,3623012	1.4013636		
22765.6	14225			66.83022676	5 14 55515969	9					481	0.193359375	240.9375	4		3 5.06.						
22765.8	14128													_		_	-43,2		-1.26757488		1.63475144	
22766	14228												238.6875	5		3	-49.3437		-1.53716544		1.63671456	
22765.2	14228																-47.812		-2.19628344		1.64257392	
22766.4	14229	15	22 40.9062	5 66.83099999	14.55655485	5 2	22	228	1563	1025	532	0.226074219	237.5	3		3 8,406.			-2.49413424		1.62157788	
22766.6	14229																-53.7187		-2.46483744		1.61425363	
22766.8	14229												236.375	6		7	-58.9687		-2.27245512		1.58739828	
. 22767	14229																-58.		-1.89159672		1.58739828	
22767.2	14229			66.8317224	14.5580734	<b>!</b>					493	0.25390625	233.75	7		6 12.963			-1,58105064		1.59862872	
22767.4	14229																54.062		1.35351216		1.59862872	
22767.6	14229												232.5	6	1	6	50.0312		-1.58105064		1,60253498	
22767.8	14229																-42.2812		-2.61854952		1.63476144	
2,2768	14230	15	22 42.	5 66.83239357	7 14.55970338	3 2	22	228	1600	1117	449	0.275390625	230.375	3		3 8.05			-2.2119084		1.66356996	
22768.2	14230																-44.1562		2.56932936		1 61962476	
22768 4	14230												229.6875	3		3	43,562		-2.43358752		1.61962476	
22768.6	14230																-49.9062	5 1.6	-2.36034552		1.60839432	
22768.8	14230			66.83301183	14.56144733	7					393	0.30859375	227.5	6		5 3.218	75 -51.312	5 -1.6	-2.03417448		1.60839432	
22769	14230																-53,	5 1.7	-1.71483936		1.5893514	
22769.2	14230												227.125	8		7	-47.62	5 15	1 56542568	-0.7861308	1 60448808	8 0.0158864
22769.4	14230																-45,1562	5 14	1.34031638	1.03806328	1,6162068	6 0.0119148
22769.6	14231	15	22 44.10937	5 66.83357365	14.56328209	) 2	12	228	1607	1124	346	0.322753906	222.375	4		3 0 656	25 -40 37	5 1.3	-1.20409848	1.28222328	1.64843328	В О
22769.8	14231																35.4687	5 -1.1	-1 26757488	-0.86327904	1.66356996	5 0.0317728
22770	14231												223,6875	2		1	34 6562	5 11	1.22655936	1.0937472	1 63134348	8 0.0278012
22770.2	14231																-32.2	5 1.0	1.23241872	1.14159864	1.6503864	4 0 0079432
22770 4	14231			66 83409618	14.5651712						324	0 333436094	223.375	C		1 -4.156.	25 34.0312	5 1.1	1 18847352	-1 33691064	1 64257392	0 0039716
22770.6	14231																-37.	5 -1.2	-1.12206744	-1 16796576	1 70702688	9 -0 0079432
22770 B	14231												224.625	2		3	-38.187	5 1.2	-1.02343488	-1.30077792	1.79101104	0.0119148
22771	14231																36.2187		-0.9472632	-1 78808136	2.26220124	4 -0.1350344
22771 2	14232	15	22 45 70312	5 66.83458912	14.56709753	3	.2	228	1596	1113	330	0 33203125	224.1875	3		3 2.093	75 -41.7812	5 1.3	-0.96386472	2.15038512	2.31005268	0.2065232
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٠,	quenc										RADAR		CALIBRATE				NORMAL_ACCELE			LATERAL_STICK_		
	Numb				LATITUDE(DEGR	LONGITUDE	WING SI	WIND	BARO A	LTI PRESSURE	ALTITUDE		D ASRSPEE	L_AOA(DEGREES R	AOA(DEGREES	TICAL_SYSTEM	RATION/FEET/SEC		ONGITUDINAL_STICK_	POSITION(INCHE	POSITION(I	
_		HOURS MIN	HITTE EER			DEGREES)	EED					TRUE_HEADING		1		(FEET/SEC)	OND/SECOND)		POSITION(INCHES)	5)	NCHES)	ON(INCHES)
.TIME er		uchus aun	iuiza azt	.O:ND3	ECS	DEGREES	LCD	Diricant	on tootis	ici, _neii,ob	T TOWN	1.102	2(,	,			-37.34375	1.2	-0.82128696	2.4951103	2,30419332	-0.337586
22771.4	14232												222.75	. 3	2	3	-40,09375		-0.76366992	-2.41796256	2.24315832	-0.377302
22771.6	14232												222.1.	, ,	•	•	-37.78125		-8.78320112	-2,124018	2.24511144	-0.3693588
22771.8	14237						_						272.3/	. 2	,	2.3437			-0.78320112			
22772	14232				66.8350684	8 14.569033:	5				37.	0.307617188	222.25	, 2	•	1 2.3437.	38.96875		-0.8496072		2.20097872	
22772.2	14232														_	_	-36.5625		0.91601328		2.23583412	
22772.4	14232												225	3	(	U			-0.8398416		2.23925208	
22772.5	14232																-36.375		-0.98241936			
22772.8	14233	15	22 47	.296875	66.8355621	8 14.5709367	7 7	2 2	229	1612 137	9 444	0.284667969	223.375	; 3	(	0 3.0937						
22773	14233																-38.90622		-0.95405912		2.22069744	
22773.2	14233												222.5	5 2	(	D .	-37.625		0,65624832		2.22997476	
22773.4	14233																39.7		-0.80859168		2.22606852	
22773.6	14233				66.8360874	7 14.5727725	S				470	0.2578125	225.375	5 2	(	0 -0.657	5 -39	• 1.2	-0.49511592		2.22216228	
22773.8	14233																-40.62	5.1.3	-0.70702944		2.2241154	
22774	14233												227.5	3		C	-41.812	5 1.3	1.05273168	-0.86620872	2.23192788	
22774.2	14233																-43 12	5 1.5	1.50194928	0.0048828	2.1997014	0.3812736
22774.4	14234	15	22	8.90625	66.8366584	5 14.574505	,	.2 2	229	1607 112	14 557	7 0.225097656	227,3125	5 6	:	3 9.2812	5 -43.71\$7	5 -1.4	-1.89843264	-0.37890528	2,1997014	0.4130464
				0.500	QQ.0320320*	2 141514565		-									4	7 -1.5	-2.07519	-0.77050584	2,20507248	-0.4636483
22774.6	14234												227.7	5 6		2	-48.6562	5 -1.5	-2.03710416	-0.5957016	2.2070256	-0.4448192
22774.8	14234												447-1,	,	•	-	-5:		-2.01561984	-0.61132656	2.20507248	-0.4487908
22775	14234										446	0.180175781	220	5 8		7 16.7187			1.88573736		2.20507249	0.4487903
22775.2	14234				66.8372837	4 14.5760951	,				****	0.180173781	. 220	, ,			-64.437		1.64745672		2.21288496	5 -0,4527624
22775.4	14234												557	5 11		8	-60.312		-1.76464392		2.1597014	
22775.6	14234												227.5	2 11	•	o O	-58.2		-1.94530752		2.17675224	
22775.8	14234															7 -25.62			1.58183112		2.18456472	
22776	14235	15	22	50.5	66.8379684	5 14.5774892	4 :	22 2	229	1556 107	73 400	0.146484379	226.B7	5 9		7 -25.62			1,58495688		2.18602956	
22776.2	14235																53 7812				2.19774828	
22776.4	14235												226.62	5 8	i	6	-56.312		-1.3720668		2.1997014	
22776.6	14235																-51.312		-1.49608992			
22776.8	14235				66.8387009	5 14.5786902	9				410	0.122070313	224.7	5 7		5 -3			-1.66405824		2.2070256	
22777	14235																49,5937		-1.51757424		2 235B3412	
22777.2	14235												226.62	5 4		4	-54.87		-1.0839816		2.138666	
22777 4	14235																-48,1562	5 1.5	-0.96972408		2.1025336	
22777.6	14236	15	22 5	2.109375	66.8394709	1 14,5797063	4 :	22 2	229	1512 102	9 42	6 102050781	228.37	5 5		4 -44.062	5 -49.437	5 1.5	1.15038765		1.8915967.	
22777.8	14236																-43.62	5 1.4	-1.05273169		1 5322226	
22778	14235												228 7	5 3		2	-38 187	5 1.2	1.19433288	1.71679249	1.5302695	
22778.2	14236																-38 062	5 1.2	1.14452833	1.53612888	1.56444913	
22778.4	14236				66 8407613	4 14.5805875	3				383	0.100097650	228 937	5 1		2 -46.937	5 -39.687	5 -1.2	1.0400364	1 12226224	1.62353	
22778.6	14236				00,040,2043	4 14,200,0072	•										-41.	5 -1.3	-1.13476271	1 04882544	1.62353	1 -0.3653872
													231.87	, ,		4	-47.5937	5 -1.5	1.20702816	1.1132784	1.5551710	6 -0.377392
22778 8	14236												4.72.07.	•			-49 3437		0.98925526	2 16991632	1.5092734	8 -0.3653872
22779	14235							., ,	330	1475 61	17 31.	1 0.099121094	232 7	5		6 -37.37			0 82128696		1.5092734	S -0 2699268
22779.2	14237	15	22 5	3.703125	66.8410700	9 14.581387	3	12 1	229	1430 %	•7 31.	7 6.033:4103-	2327	, ,			-49.4687		-0 8808571		1.5131797	
22779.4	14237												222.42	5 5		۵	-42,3437		-0.9570288		1.5170859	
22779.6	14237												232.12	,		-	~42,3437 -4		1.2640984		1.570992	
22779.8	24237															* ****			1 40722229		1.5229453	
22780	14237				66.8418793	7 14.582167	6				39.	1 0 128417969	22	9 1		2 29.0937	3 41.5937	J 2.3	A (1222)			

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Sequenc	: "							RADAR		CALIBRATE			VELOCITY_VE	R NORMAL_ACCELE			LATERAL_STICK_			-
e_Numb		LATITUDE(DEGR	CONGITUDES	WIND SP	WIND	BASO AL	TI PRESSURE	ALTITUDE		D AIRSPEE	L_AOAIDEGREES R	AOA(DEGREES	TICAL_SYSTEM	A RATION(FEET/SEC		LONGITUDINAL_STICK_	POSITION(INCHE	POSITION(I	PEDAL_POSITI	- }
TIME er	HOURS MINUTES SECOND	•	DEGREES)	EED					TRUE_HEADING		ı 1		(FEET/SEC)			POSITION(INCHES)	Si	NCHES)	ON(INCHES)	
22780.2 1423			Concess				.,		-		•			49.3125	1.5	-2.06249472	1.31444976	1.54394136		
22780 4 1423										226.875	4		7	-55.3125	1.7	-2.60155584	1.4355432	1.54003512	0.2899268	
22780.6 1423														-60.125	-1.9	-3,12694512	1.18945003	1.53222264	-0.3058132	
22780.8 1423		975 66 8416703	7 14.58305768	3 23	2 225	9 17	60 876	6 401	0.1796879	227.125	7	•	9 -19.	5 -64,90625	2.0	-3.51366288	0.64648272	1.53417576	-0.317728	
22781 1423		07.0-20703	,000,00,00	• • • • • • • • • • • • • • • • • • • •	• •••	,								72.0937	2.3	-3.83984392	0.52441272	1.51708596	0.3137564	(
22781.2 1423										226 75	12	1	a	-76.7187	5 2.4	-3.8720604	0.55956883	1.5112266	-0 317728	i
22781.4 1423											<del></del>			76.2812	5 -2.4	-3.90331032	0.84765408	1.4568126	-0.3216996	i
22781.6 1423		66.8434113	3 14.584163	1				426	0.241210939	227.875	14	10	6 -10.7812	5 -77.62	5 -2.4	-3.92870088	1.39843392	1.47362904	-0.337586	
22781.9 1423		CO:0-13-143	, , , , , , , , , , , , , , , , , , , ,	,										-82.0937	.2.6	-3.92284152	1.0595676	1.69970268	-0.337586	-
22752 1423										217.75	16	1	7	78.687	5 -2.5	-3.91893528	0.89550552	2.36669316	0.3415576	
22782.2 1423														80,052	5 2.5	-3.91893528	0.92480232	2.74511016	-0.3415576	
22782.4 1423		2170110 23 252	7 14.58551047	7 23	2 225	a 1:	33 849	9 343	0.299804688	214.625	19	1:	8 -8.2	5 -80.687	5 -2.5	-3.91893528	0.95898192	2.55516924	-0.3455292	
22782.6 1423		C#10###0,00 C.10	, 14,3633104	•	• •••				0.25500400.					-85.2812	5 -2.7	-3.9257712	1.23241872	2.57030592	-0.3296428	-
22782.8 1423										212.3125	21	21	0	-85.5937	5 2.7	-3.92870088	1.0838644	2.52831384	-0.3216996	-
22783 1423										222-5105		_	•	84.1562	5 2.6	-3.92870088	1 19237976	2,49413424	0.3216996	- 1
22783.2 1423		66 2446327	7 14.58709574					254	0.354492188	212.5	21	1'	9 -10.9837	5 -80.2	5 -2.5	3.92870088	1.16601264	2.3364199	-0.3415576	- !
22783.4 1423		50.0410307	, 14.20,025,	•					0.001104			-		-76.312	5 -2.4	-3.9257712	0.99902088	(	-0.3693588	i
22783.6 1423										210.4375	19	1	7	-70.9062	5 -2.2	-3.92284152	0.9960912	(	-0.4329044	
22783.8 1423										****				70.562	5 -2.2	-3.92284152	0.91693934	(	-0.4329044	ì
22784 1424		58.5 66.8450968	4 14.5889659	2 22	2 225	q 17	19 83	5 19	0.400878909	207.625	18	1	6 -25,4062	.67.37	5 2.1	-3.93846648	1.09960656	(	-0.4726204	1
22784.2 1424		30.5 49.04.5055	- 1,0000003.			-			4		•	_		-65.62	5 2.1	-3.93846648	0.26757744	(	-0.7387176	
22784.4 1424										204,625	16	1	5	-64.87	5 2.0	-3,9697164	1.02245832	í	-0.913468	
22784.6 1424										404,043				-62.562	5 -2.0	-3.99510696	0.69726384	(	-0.9214112	
22784.8 1424		66 045 (503)	1 14.59075654	•				12	0.44677734	202.8125	16	1	3 46.1562	5 -63.187	5 -2.0	-3.99998976	-0.19941304	(	-0.9055248	
22785 1424		00.0454503.	1 14.0501505	-				***			==			-61.67	5 1.9	-3.99998976	-0.51855336	(	-0.9611272	-
22785.2 1424										202.125	17	1	3	-65.2	5 -2.0	-3.99998976	-0.9960912	(	1.6068432	1
22785.4 1424														-65,2812	5 -2.0	-3.99998976	-1.17039544	(	-1.0207012	- 1
22785.6 1424		375 66 RAS69A9	9 14.5927142	2	2 22	9 17	41 75	7 4	0.502441406	5 200.5	18	1	4 -64.13	5 -64,9687	5 -2.0	-3.99993976	-1.25292648	(	-1.8286444	-
22785.6 1424		0.0-303-0	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											-68.1562	5 2.1	-3.99998976	1.20214536	(	1.0405592	
22786 1424										198-5625	19	1	6	75.187	5 2.3	3 99998976	1.2792936	(	1.012758	
22786.2 1424														-70.2512	5 -2-2	-3.95409144	-3.8671776	0.1372066	1 0961616	
22786.4 1424		66 8455209	6 14.5946932	,				2	0.55126953	1 198.4375	22	2	0 -68.9063	5 -74,4687	5 -2.3	-2.5439388	0.58007664	2.6137628	-0.8499224	
22786.6 1424		03.0430203	44.054055					-						75 9062	5 2.4	2.19628344	1 70300344	0.8120096	1 -1.0332184	- 1
22766.8 1424										196-3125	22	2	2	77.2	5 2.4	2.59471992	3.99998976	1 2059812	0.5520524	- }
22767 1424														72.5312	5 -2.3	1.95214344	3 99998976	2.1157172	-0.5102064	- [
22787.2 1424		1105 66 8458400	8 14.5966390	1 2	2 225	9 11	113 625	9 57	7 0.57958984	193 6875	20	2	1 -57.0937	75 -66.3437	5 -2.1	-2.24999424	-3 99998976	3 1669840	-0.7506324	į
22787.4 1424		1125 50.0430420	0 14:3700330			•		-						-67,2187	5 -2.1	-3.3837804	-3,7499904	2.7260672	-0.5997116	ì
22787.6 1424										193.625	13	1	7	-62.4062	5 -2.0	-3.43163184	-3.99998976	3.3818272	-0.6195696	1
22787.8 1424										175.012	••	•		55.87		3.36131952	3.91405248	3 2905189	0 6235412	
22788 1424		<u> ሐ</u> ፋ የለፕሮስንን	1 14.5985444	,				111	0.589355469	9 190 5625	8	1	6 39.8437				-3 60741264	4 0097553	5 -0.56793SS	1
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22785.4 1424 22785.4 1424										189.8125	2	1	4	-46.0312		-2.36425176	-2.89745352	3 1054373	5 -0.6632572	
22788.6 1424										p.cc012.0	•	•		-46,4062		-2.35448616	-3.01171104	2.9106370	3 0.754604	ì
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							6998	11198.2
	1354	207.375	14.54078858	66.82049361	31 32.296875	16	6999	11198.4
							6999	11198.6
		208.0625					6999	11198.8
							6999	11199
	1327	208.5	14.54231878	66.82118			6999	11199.2
							6999	11199.4
		208.1875					6999	11199.6
							6999	11199.8
	1288	207.3125	14.5438121	66.8218809	31 33.90625	16	7000	11200
							7000	11200.2
		210.375					7000	11200.4
							7000	11200.6
DI	1233	212.8125	14.54527432	66.82258833			7000	11200.8
Bl							7000	11201
		222.0625					7000	11201.2
							7000	11201.4
	1178	225.875	14.54670243	66.82330314	31 35.5	16	7001	11201.6
							7001	11201.8
		224					7001	11202
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	1097	223.4375	14.54809936	66.82402642			7001	11202.4
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		226.75					7001	11202.8
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	1003	229.8125	14.54947298	66.82475388	31 37.109375	16	7002	11203.2
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	927	229	14.55082817	66.82548378			7002	11204
							7002	11204.2
		230.125					7002	11204.4
		100000	A a S Maria calcular				7002	11204.6
	773	226.9375	14.55217187	66.8262156	31 38.703125	16	7003	11204.8
							7003	11205
		222.625					7003	11205.2
	440	201022					7003	11205.4
	751	218.1875	14.55350686	66.8269481			7003	11205.6
							7003	11205.8
Page 1		216.875					7003	11206
-00							7003	11206.2

17 March 2022 1631:32Z - 1632:21Z

	equenc Numbe								
TIME r 11206.4		DURS M		SECONDS LA 40.296875	TITUDE(DEGREES) LON 66.82767875	GITUDE[DEGREES] CALIBRAT 14.55484939	ED_AIRSPEED(KNOTS) RADAR_ALTIT 216.6875	UDE_DATA(FEET) 691	
11206.4	7004	10	3.	40.2300/3	00.02/0/0/3	14,33404333	210.0013	0.52	
11206.8	7004						216.875		
11200.8	7004						220.013		
11207.2	7004				66.82840546	14.55621287	215.875	649	
11207.4	7004				00.020 10010				
11207.6	7004						214.75		
11207.8	7004								
11208	7005	16	31	41.90625	66.82912789	14.55759664	214.9375	698	
11208.2	7005								
11208.4	7005						214.75		
11208.6	7005								
11208.8	7005				66.82984773	14.55899122	213.5625	706	
11209	7005								
11209.2	7005						212.9375		DUNO 100220 KVADD Data
11209.4	7005								BUNO 168330 KVADR Data
11209.6	7006	16	33	43.5	66.8305674	14.56038807	212.5	714	17 Manah 2022
11209.8	7006								17 March 2022
11210	7006						213.1875		1631:32Z - 1632:21Z
11210.2	7006						+	210	2002.022
11210.4	7006				66.83128757	14.56178399	212.125	682	
11210.6	7006						244.7425		
11210.8	7006						211.8125		
11211	7006			45 00075	55 03300003	44.55347440	244 2425	725	
11211.2	7007	16	3.	45.09375	66.83200993	14.56317119	214.3125	125	
11211.4	7007						212.625		
11211.6	7007						212.023		
11211.8 11212	7007 7007				66.83273572	14.56454138	215	868	
11212	7007				00.032/33/2	14.30434130	213	000	
11212.4	7007						215.1875		
11212.6	7007								
11212.8	7008	16	31	46.703125	66.83346695	14.56589841	216.1875	926	
11213	7008								
11213.2	7008					9.5	213.9375		
11213.4	7008								
11213.6	7008				66.83420347	14.56723734	213.8125	850	
11213.8	7008								
11214	7008						216		
11214.2	7008								
11214.4	7009	16	3:	48.296875	66.83494586	14.56855916	214	804	Page 2
11214.6	7009								rage 2

THAT	Sequenc e_Numbe	HOUSE H	HITEC	cennunc	LATITUDE(DEGREES) LO	NIGITI IDEIDEGREESI	CALIBRATED_AIRSPEED(KNOTS)	BADAR ALTITUDE DATALEFETI	
TIME 11214.8		muuma m	MULES	OC CONNO	CATTOOCIDE CINES	availabe (be are es)	215.125		
11214.6									
11215.2					66.83569377	14.56986741	216.8125	774	
11215.4					00.000007	14130200141	-		
11215.6							223.25		
11215.8									
11215.6		16	31	49.90625	66.83644957	14.57115412	220.5625	738	
11216.2		10	31	45.50023	00.03044337	14.5/115412	LEVISORS		
11216.4							219		
11216.6									
11216.8					66.8372083	14.57243211	219.3125	667	
11217					00.0372003	14,3/243211	213.322		
							219.8125		
11217.2							215.0125		
11217.4		16	21	51.5	66.83796837	14.57370557	219.5	613	
11217.6		16	31	31.3	00.03/3003/	14.3/3/03/	213.3	,	BUNO 168330
11217.8							219		DOI10 100550
							2.17		17 March
11218.2					CC 02072CC0	14.57498616	217.25	575	
11218.4					66.83872668	14.57498016	217.23	, 3,3	1631:32Z - 1
11218.6							216.75		
11218.8							216.75	•	
11219		45	24	F2 0027F	CC 02047045	44.57530304	247 375	602	
11219.2		16	31	53.09375	66.83947946	14.57628384	217.375	602	
11219.4							216.5		
11219.6							216.5	•	
11219.8					55 04024774	** 5775220	216 1975	701	
11220					66.84021774	14.57762394	216.1875	701	
11220.2							245 0525		
11220.4							215.0625	,	
11220.6		4.5		C + 700400	CC 0400340*	14 53000000	344376	839	
11220.8		16	31	54.703125	66.84093481	14.57902933	3 214.375	839	
11221							347		
11221.2							216	9	
11221.4					CC 04454 ****	** *******	22775	022	
11221.6					66.84161467	14.58052416	5 217.75	923	
11221.8							7.2		
11222							219	,	
11222.2			24	200000					
11222.4		16	31	56.296875	66.842248	14.58211941	217.9375	1023	
11222.6							2.22		
11222.8							217.5	•	Page 3
11223	7014								1 466 3

**KVADR** Data

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RADAR ALTITUDE DATAIFFETI	ALIBRATED_AIRSPEED(KNOTS)	CMCIT/INCINESPERO	ATITI MEIDEGREES	occounc	. BLE PET P	אמן ומר	Sequenc e_Numbe	TU P
995	218.375	14.58381071	66.8428282	SELLINUS	MINUTES		7014	TIME 11223.2
	2,0,0,0	14.50501071	00.0420202					11223.4
	218.5							11223.4
								11223.8
948	221.125	14.58558801	66.8433519	57.90625	31			11224
		14.50550001	00.0435315	37.30023	31			11224.2
	229							11224.4
								11224.6
887	223.875	14,587457	66.84380771					11224.8
			30131330114					11225
	226.5							11225.2
								11225.4
817	221.875	14.58940395	66,84420358	59.5	31			11225.6
				55.5				11225.8
	223.875							11226
								11226.2
768	232	14.59139398	66.84456099					11226.4
								11226.6
	229.9375							11226.8
								11227
727	224.875	14.59343246	66.84487103	1.09375	32			11227.2
				-				11227.4
	220.875							11227.6
								11227.8
693	217.75	14.59550438	66.84514839			,	8 7017	11228
								11228.2
	216.875					,		11228.4
								11228.6
696	217.875	14.59759525	66.845397	2.6875	32	16		11228.8
		ocation on Mishap Day						11229
	217.75		With the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	,				11229.2
								11229.4
798	218.75	14.59969659	66.84562172					11229.6
								11229.8
	219							11230
		- Alle Control	,					11230.2
842	219.875	14.60179199	66.84584644	4.296875	32			11230.4
								11230.6
	219.3125							11230.8
								11231
782	218.875	14.60387003	66.84609219					11231.2
								11231.4

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TIME !		OURS MIN	UTES	SECONOS LA	TITLOE(DEGREES) LO	NGITUDE(DEGREES)	CALIBRATED_AIRSPEED(KNOTS)	RADAR_ALTITUDE_DATA[FEET]
11240	7025	16	32	13.90625	66.85094607	14.62424903	214.6875	868
11240.2	7025							
11240.4	7025						213.75	
1240.6	7025							
1240.8	7025				66.85156591	14.62581687	215,625	1007
11241	7025							
1241.2	7025						215.875	
1241.4	7025							
1241.6	7026	16	32	15.5	66.85221593	14.627321	216.5625	995
1241.8	7026							
11242	7026						216.75	
11242.2	7026							
11242.4	7026				66.85290249	14.62873695	217.125	963
11242.6	7026							
1242.8	7026						216.875	
11243	7026							
1243.2	7027	16	32	17.09375	66.85362493	14.6300535	216.0625	926
1243.4	7027							
1243.6	7027						216.6875	
1243.8	7027							
11244	7027				66.8543772	14.63127567	216.75	906
1244.2	7027							
11244.4	7027						217.1875	
1244.6	7027							
1244.8	7028	16	32	18.703125	66.85515253	14.63242072	218.375	869
11245	7028							
1245.2	7028						218.3125	
1245.4	7028							
1245.6	7028				66.85594286	14.6335076	218.9375	843
1245.8	7028							
11246	7028						219.75	
1246.2	7028							
11246.4	7029	16	32	20.296875	66.85674735	14.63453748	219.5	802
1246.6	7029							
1246.8	7029						219.3125	
11247	7029							456
1247.2	7029				66.85756836	14.63549847	219	777
1247.4	7029							
1247.6	7029						219.0625	
1247.8	7029							
11248	7030	16	32	21.90625	66.85840311	14.63638787	218.375	738
1248.2	7030							
* ***	מרחד						340 370	

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# Polaris ACC Bodø - RADAR and radio communication summary regarding GHOST31 flight March 18 2022.

All times UTC.

Freq 118,55Mhz (Polaris ACC): (GHOST 31 departed ENBO 13:33)

13:42:42 GHOST31 checks in on 118,55MHz "Southbound"

14:09:20-14:11:12 "Unreadable" from ATC "contact Stokka freq 120,4Mhz"

There are no transmissions from GHOST31 on 118.55 MHz between 14:11:12 to 15:30:00.

#### MSSR radar Polaris ACC:

Radar contact between 13:32:44 (departure) until time 13:59:26 (BOO VOR R-211 46Nm)

altitude 1000-1100 ft.

Radar contact between 14:01:50 (STO VOR R-015 35Nm) until time 14:05:25 (STO VOR R-016 28Nm) altitude 1000-1200 ft.

Radar contact between 14:11:15 (STO VOR R-017 11Nm) until time 14:24:45 (BNN VOR R-320 12Nm) altitude 800-1100 ft.

Radar contact between 14:26:15 (BNN VOR R-294 11Nm) until time 14:26:44

altitude 900 ft.

Radar contact between 14:32:05 (BNN VOR R-226 14Nm) until time 14:36:47

altitude 300-900 ft.

Radar contact between 14:38:16(BNN VOR R-165 12Nm) until time 14:39:45(BNN VOR R-149 9 Nm) altitude 600 ft.

Radar contact between 14:44:25(BNN VOR R-077 6 Nm) until time 14:45:30

altitude 900 ft.

Radar contact between 14:46:30 (BNN VOR R-042 6 Nm) until time 14:55:00

altitude 900 ft.

Last shown on MSSR radar at position 65536N0125116E time 14:55, 900 feet, turning southeast.

ENST (Stokka AFIS) last contact with GHOST31 time 1455.

ENMS (Mosjoen AFIS) in contact with GHOST31 time 1458-1501

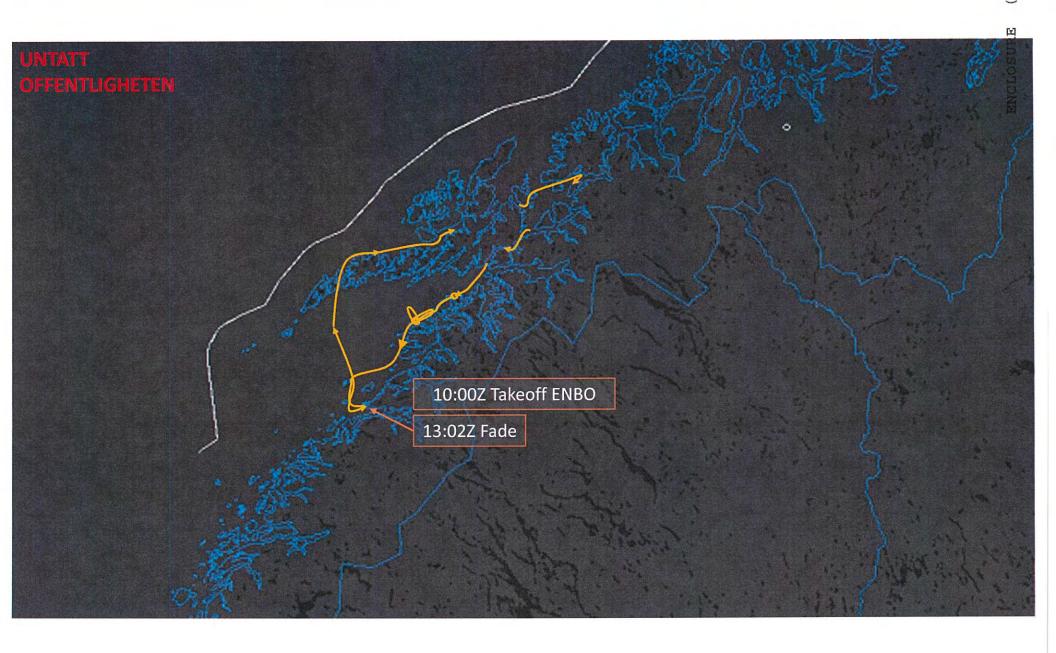
ENRA (Rana AFIS) in contact between 1504-1510. GHOST31 informed ENRA (Rana AFIS) "Entering your zone in the west to leave to the north" No further contact after that.

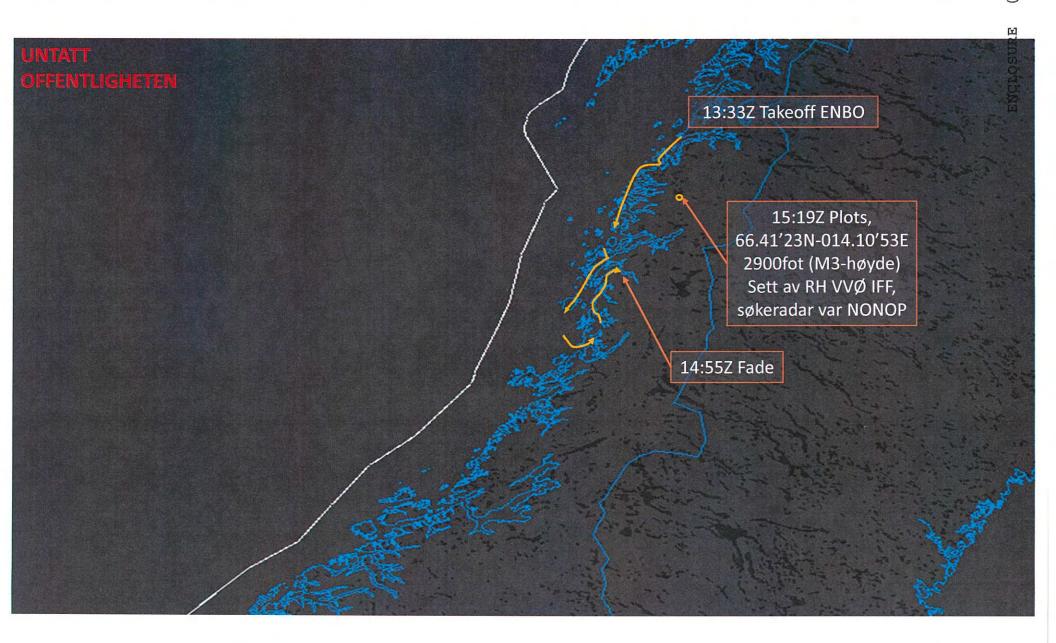
# Info

- Gul linje viser der vi har hatt radarkontakt med GT31.
- CRC har ikke på noe tidspunkt hatt radiokontakt med GT31.
- På siste posisjon ble GT31 sett med to IFF plott med 12 sekunders mellomrom. Høyde på plott 1 var 2800fot, høyde på plott 2 var 2900fot. På bakgrunn av kun to plott kan vi ikke med sikkerhet si noe om hvilken HDG GT31 hadde.

# Info

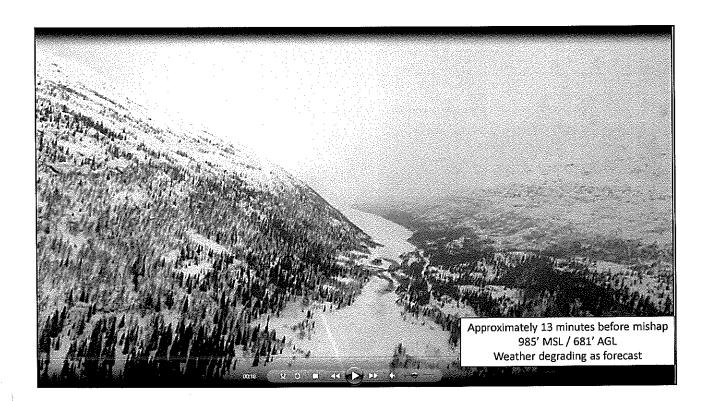
- Yellow line shows where we have had radar contact with GT31.
- CRC has at no time had radio contact with GT31.
- In the last position, the GT31 was seen with two IFF plots at 12 second intervals. Height of plot 1 was 2800 feet, height of plot 2 was 2900 feet. Based on only two plots, we can not say with certainty which HDG GT31 had.





### GHOST 3-1 Recovered GoPro Video Footage 18 March 22

- Altitudes and Airspeeds were correlated from KVADR data
  - Estimated accuracy within 15 sec
- Profiles listed are approximate based upon:
  - Aircraft performance characteristics
  - Configuration
  - · Auditory and visual information from the video recording







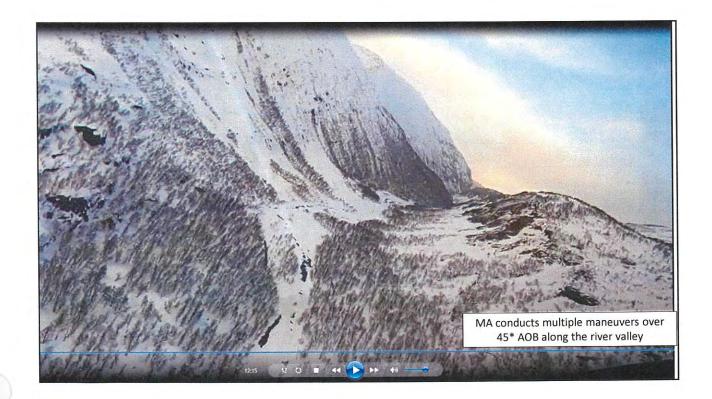


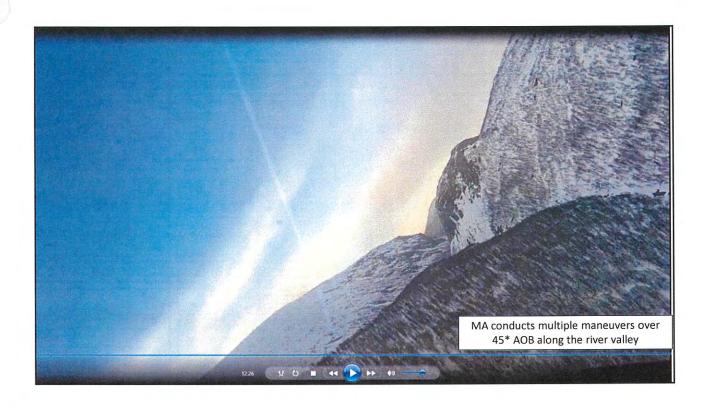




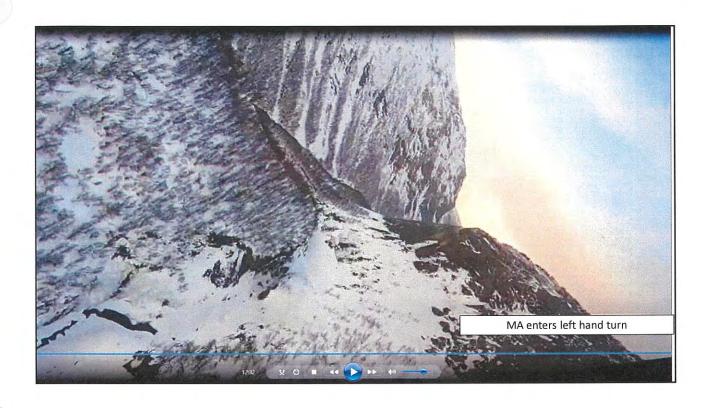










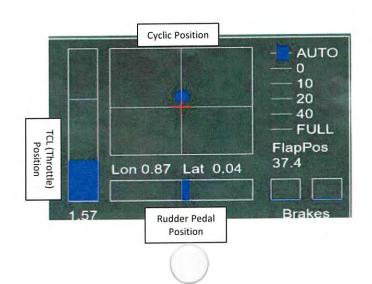


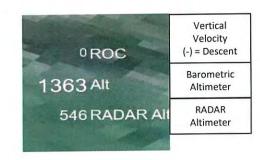




# GHOST 3-1 FST Mishap Flight Recreation 18 March 22

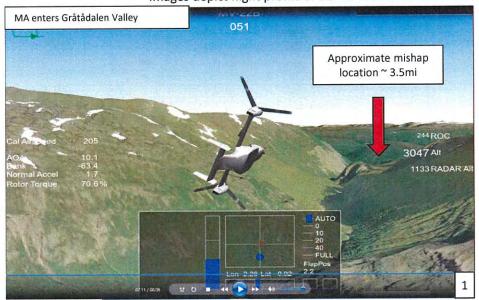
Depiction created from MA recovered KVADR data

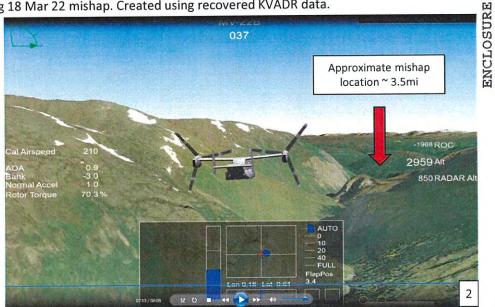




## GT31 18 March 2022 FST Recreation

Images depict flight profile of BUNO 168330 as flown during 18 Mar 22 mishap. Created using recovered KVADR data.









#### GT31 18 March 2022 FST Recreation

Images depict flight profile of BUNO 168330 as flown during 18 Mar 22 mishap.

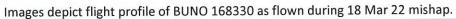








# GT31 18 March 2022 FST Recreation









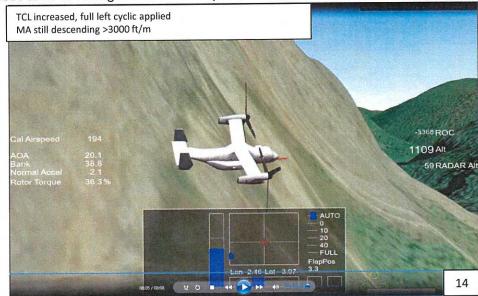


ENCLOSURE

## GT31 18 March 2022 FST Recreation

Images depict flight profile of BUNO 168330 as flown during 18 Mar 22 mishap.









#### First Interview 1 April 2022

Name / Rank / Billet: (b)(6), (b)(7)c Bodø, Norway

#### Can you describe your role in the search and rescue efforts of GT31?

I was the sensor operator and navigator on the helicopter (b)(3), (b)(6), (b)(7) was in charge of the aircraft.

#### Can you describe how you were notified of the mishap and tasked?

We were on our standard alert when we received notice of the possible missing Osprey. We were notified at 1900 (1800Z) by our dispatch desk.

#### When did you launch?

We launched at 1935. Our standard scramble time is 15 minutes, but due to the mountains and the weather, we had to take extra time to plan for that.

#### Can you describe the weather that caused your delay?

The weather was very bad, and it had deteriorated in the mountains. We tried three times to get into the valley of the Osprey from the south before having to go all the way around to the north. The weather was very bad. Showers and snow showers. Visibility was very bad. The clouds were around 2000', and we had to be very careful entering the valley. Inside he valley, the winds were strong, coming from the south down the valley.

#### Can you describe how you located the aircraft?

We originally were asked to proceed to the last radar contact location. On the way, we were told that the aircraft may have gone through the Gråttådalen valley and so we turned in that direction. There was a P-3 in the area that had not picked up any signals. Once we got to the area we began searching. On our second pass, we picked up the emergency locator beacon. Once we got into the area, we were able to see signs of the aircraft in the terrain, through the trees.

#### Can you describe what you saw at the crash site?

It was not good. There were not many large pieces of the aircraft that we could see. There was a hole in the trees, maybe 50m x 100m, where you can see the aircraft went through. There was maybe, one large piece of the aircraft, a couple of meters long.

#### Can you describe the site itself, it's orientation in the valley?

The aircraft appeared to be going up the hill, it was spread out going up the hill, not in one area. From southwest to northeast.

#### Can you describe your attempts to rescue the crew?

We attempted to lower a doctor and rescuer. But the winds were too high and the weather started to come down. We did not want to become trapped in the valley.

#### Based on your experience, do you believe any of the crew may have survived the mishap?

No, I don't believe so. There was not much of the aircraft left.

Enclosure (39)

01.04.2022, 15:42 TouchTime

# 330 skv Bodø

# 330 SAR AMB-rapport

Helikoptertype: Sea King

SAR/AMB: SAR SAR/AMB Nr: 020 Evt B-rapport etc:

AMIS-nr:

Løpenummer: 128

Oppdrag kort fortalt: Savnet Opsprey V-22 Scrambletidspunkt: 2022-03-18 19:00

Take off tid: 2022-03-18 19:35 ⇒aksjonstid i minutter: 35

eredskapsstatus ved scramble: 15 min Situasjon ved scramble: Normal standby

✓ Var det avvik på reaksjonstid?

Planlegging

√ Vær

Andre forsinkende faktorer

Spesifiser andre forsinkende faktorer om nødvendig: Behov for mer informasjon før avgang

#### Besetning

Base: Bodø

Fartøysjef: (b)(6), (b)(7)c

2. flyger: (b)(6), (b)(7)c

Sys.op./ Nav: (b)(6), (b)(7)c

Maskinist: (b)(6), (b)(7)c

https://sr.hovedredningssentralen.no/#/checklistdata/153921

01.04.2022, 15:42

TouchTime

Redningsmann:

(b)(6), (b)(7)c

Lege: (

(b)(6), (b)(7)c

Flightlogg:

1935-2155 ENBO-ENBO

Total flytid: 2.3 Derav IMC: 0.0 Derav Natt: 2.3 Derav NVG: 2.2

# SAR Oppdrag

# Om oppdraget

Type oppdrag: Luft /stand til kystlinje:

mråde / sted: Helgeland- Bodø

Datum/posisjon:: N 6650.84 E 01436.37 Datum/posisjon pålitelighet: Usikker

☑ Ble det gjennomført SØK?

**Siste sikre posisjon:** N 6650.84 E 01436.37

**Start søk:** 2022-03-18 19:55 **Slutt søk:** 2022-03-18 21:05

# Søksobjekter

Luftfartøy

✓ Nødpeilesender

#### Type søk

https://sr.hovedredningssentralen.no/#/checklistdata/153921

01.04.2022, 15;42

☑ Visuelt søk

☑ Elektronisk søk

☑ Contour

Gjennomsnittlig høyde: 500

TouchTime

Track-spacing:

#### Resultat SØK

☑ Ble det gjort funn?

Funnsted: N6659,79 E01436,42

✓ Luftfartøy

☑ Nødpeilesender

#### Funn metode

Funnet med NVG

\_ Funnet med annet

Spesifiser funnet med annet: ELT

#### Utfyllende redningsdetaljer

∪ Utfyllende redningsdetaljer

## Ressurser ved redningsoppdrag

# Utstyr benyttet

☑ Benyttet radar

Benyttet varmesøkende kamera

☑ Benyttet NVG

Benyttet peiler

https://sr.hovedredningssentralen.no/#/checklistdata/153921

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ENCLOSURE (40)

01.04.2022, 15:42

TouchTime

#### Generell status pasient / reddede

#### Vær som påvirket oppdraget

✓ Var det vær som påvirket oppdraget?

✓ Snø

Skydekke

Skydekke i antall fot: 0-2000

Vind

Vindretning/styrke: 15-45

☑ Mørke
☑ Sikt

Sikt i meter: 5-10+

Turbulens

#### ffekten av sensorer

Effekten av varmesøkende kamera: Noe

Effekten av NVG: Avgjørende Effekten av RADAR: Noe

#### Oppfølging

#### Oppsummering av oppdraget

Oppdraget ble: Fullført Utfyllende kommentar:

Oppdraget var søk etter savnet Osprey V-22 i området mellom Svartisen og Bodø. Vi brukte litt tid før avgang på å samle mest mulig informasjon for å prøve å starte et søk på rett sted, samt få et bilde av hva vi lette etter. Vi ble bedt, av HRS, om å dra til Storglomvatnet for å starte søk da det var siste bekreftede radar observasjon. Noen snøbyger skapte noen utfordringer på veien inn, men etter hvert kom vi oss til området og fikk søkt dette området

https://sr.hovedredningssentralen.no/#/checklistdata/153921

01.04.2022, 15:42 TouchTime

ganske godt. Odin-50, Norsk P3-C Orion, lå over oss og søkte etter signaler samt videreformidlet beskjeder fra oss når vi var utenfor radiodekning. Etter hvert fikk vi beskjed om at det savnede flyet mest sannsynlig hadde fløyet ned Gråttådalen. Vi satte dermed kursen dit samtidig som vi også satte opp for elektronisk søk på VHF og UHF guard. Kun kort tid etter at vi startet søk i Gråttådalen plukket vi opp ELT signaler på VHF-guard. På andre passering observerte vi IR-strobe og så tydelige merker i terrenget etter et havari, dette var 2105L. Ny passering bekreftet havaristed. Vi rapporterte funn 2117L. Deretter gikk vi inn en gang til for å forsøke å heise ned Redningsmann og Lege. Dette måtte avbrytes på grunn av at været forverret seg ganske raskt og vi ønsket ikke å bli værfast inne i Gråttådalen. Vi var sikre på at ingen kunne ha overlevd basert på hva vi så på havaristedet. Returnerte deretter Bodø. Støttet HRS og Sjef Luft med nødvendig briefinger etter landing.

Rapporten ble godkjent og signert 2022-03-19 13:18 av (b)(6), (b)(7)c Versjon:1
Rapporten er - Unntatt offentlighet - iht. Offentleglov §13, 1.ledd, jfr. Forvaltningslov §13, 1. ledd,nr. 1 og 2

https://sr.hovedredningssentralen.no/#/checklistdata/153921

Machine Translated by Google 01.04.2022, 15:42

TouchTime

330 according to Bodø

# 330 SAR AMB Report

Helicopter type: Sea King SAR / AMB: SAR SAR / AMB No: 020 Possible B-

report etc: AMIS no: Serial number: 128 Assignments in brief:

Missed Opsprey V-22 Scramble time:

2022-03-18 19:00 Take off time: 2022-03-18

19:35 Reaction time in minutes: 35

mergency status in case of scramble: 15 nin Situation in case of scramble: Normal standby Were there deviations in reaction

✓ time?

✓ Planning✓ Weather

Other delaying factors

Specify other delaying factors if necessary: Need more information before departure

#### Crew

Base: Bodø

Commander: (b)(6), (b)(7)c

Tore 2nd pilot: (b)(6), (b)(7)c

Sys.op./ Nav: (b)(6), (b)(7)c

Sys.op./ Nav: (b)(6), (b)(7)c Engineer (b)(6), (b)(7)c

https://sr.hovedredningssentralen.no/#/checklistdata/153921

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TouchTime

Rescuer: (b)(6), (b)(7)c Doctor: (b)(6), (b)(7)c Flight log: 1935-2155 ENBO-ENBO Total flight time: 2.3 Of which IMC: 0.0 Of which Night: 2.3 Of

which NVG: 2.2

# SAR Mission

About the assignment

Type of assignment:

r Distance to

bastline: Area / location:

Helgeland- Bodø **Date / position ::** N 6650.84 E 01436.37 **Date / position** 

reliability: Uncertain Was the SEARCH carried out?

Last safe position: N 6650.84 E 01436.37 Start search: 2022-03-18 19:55 End search:

2022-03-18 21:05

Search objects

✓ Aircraft

✓ Emergency beacon transmitter

Type of search

https://sr.hovedredningssentralen.no/#/checklistdata/153921

Machine Translated by Google 01.04.2022, 15:42

✓ Visual search

Electronic search

**⊘** Contour

Average height: 500

Track spacing:

#### Result SEARCH

✓ Were any discoveries made?

Site: N6659.79 E01436.42 Aircraft

Emergency beacon transmitter

V

#### Find method

Found with NVG Found with other

Specify found with other: ELT

#### Supplementary rescue details

Supplementary rescue details

#### Resources for rescue missions

#### Equipment used

Used radar

Used heat-seeking camera

Used NVG

Used bearings

https://sr.hovedredningssentralen.no/#/checklistdata/153921

TouchTime

Machine Translated by Google 01.04.2022, 15:42

TouchTime

#### General status patient / rescued

Weather that affected the mission Was it weather

- that affected the mission?
- V
- Snow Cloud
- cover Cloud cover in number of
- feet: 0-2000 Wind Wind direction /
- strength: 15-45 Dark Visibility
- Visibility in meters: 5-10 +
- Turbulence

# he effect of sensors

The effect of heat-seeking camera: Something

The effect of NVG: Decisive
The effect of RADAR: Something

## Follow-up

Summary of the assignment The assignment was:

Completed Additional comment: The assignment was

a search for the missing Osprey V-22 in the area

between Svartisen and Bodø. We spent some time before departure to gather as much information as possible to try to start a search in the right place, as well as get a picture of what we were looking for. We were asked, by HRS, to go to Storglomvatnet to start a search when it was the last confirmed radar observation. Some snow showers created some challenges on the way in, but eventually we got to the area and searched this area

https://sr.hovedredningssentralen.no/#/checklistdata/153921

4/5

ENCLOSURE (40)

Machine Translated by Google

01.04.2022, 15:42

TouchTime

pretty good. Odin-50, Norwegian P3-C Orion, lay over us and searched for signals as well as relayed messages from us when we were out of radio coverage. Eventually we were told that the missing plane had most likely flown down Gråttådalen. We thus set the course there at the same time as we also set up for electronic search on VHF and UHF guard.

Only a short time after we started searching in Gråttådalen, we picked up ELT signals on VHF-guard. On the second pass we observed IR strobe and saw clear marks in the terrain after an accident, this was 2105L. New passage confirmed crash site. We reported findings 2117L. Then we went in again to try to hoist down Rescuer and Doctor. This had to be canceled due to the weather deteriorating quite quickly and we did not want to become weatherproof inside Gråttådalen. We were sure that no one could have survived based on what we saw at the crash site. Then returned to Bodø. Supported HRS and Sjef Luft with necessary briefings after landing.

The report was approved and signed 2022-03-19 13:18 by (b)(6), (b)(7)c Version: 1 The report is - Excluding the public - according to Public Law §13, 1st paragraph, cf. Public Administration Act §13, 1st paragraph, no. 1 and 2

https://sr.hovedredningssentralen.no/#/checklistdata/153921

# SAR/AMB raport for 330 skv avd Bodø, oppbevares 12 mnd på opsen.

Dance San

TID LOGG
- FUNN/NOPP. SONDOR GRATADAG
6650,79N
01436,42E > 01436,37
- PLANLEGGING VAR NOOVENOIG PGA VÆR
FOR TO
Oppdragsdetaljer : (Sykdom, Skade, LRS, TLFnr, Comm, mm)
SAUNOT OSPREY SYD AV BODG
Gen Status Pas (0- AMIS:Nr HRS: Nr.
7)/reddede

# SAR/AMB rapport for 330 skv avd Bodø, oppbevares i 12 mnd på opsen.

To the second

	/: /	
	Crew: PET/AND/P	
Utkalt: (900	Pos 6650,79 N	01436,42 E
SAR/AMB	Ank:	Avg:

Registrerte landinger:

IANDING	STED/POSISJON		AVGANG
	BODO		1935
2155	B000		
		1	
•			,
	•	- · · ·	

Fuel:

Tid			
Fwd	•		
Aft		•	

ORG

ORG Name MM261

Aircraft Data: MODEX

# NALCOM MA SCHEDULED INSPECTIONS REPORT 11 MAR 2022 - 07 APR 2025

DATE: 07 APR 2022

TIME: 1347

**REQ BY:** (b)(3), (b)(6), (b)(7)c

PAGE: 1 of 2

		Assy					Wher	ı Due		
MODEX	BUNO/Serno	Cd	Position Code	<u>Task Name</u>	<u>Location</u>	<u>Interval</u>	<u>Date</u>	<u>Units</u>	Current	Remaining
14	000117164	AYNE		560 HR INSPECTION	MISHAP	560 Hour		1237.700	1055.000	182.700
	168330	AYNE		56 DAY INSPECTION	MISHAP	56 Day	19 APR 202	2		12
		AYNE		70 FLIGHT HOUR INSPECTION	MISHAP	70 Hour		1697,700	1685.700	12.00(
		AYNE		420 FLIGHT HOUR INSPECTION	MISHAP	420 Hour		1825.800	1685.700	140.10(
		AYNE		210 FLIGHT HOUR INSPECTION	MISHAP	210 Hour		1837.700	1685.700	152.000
		AYNE		PLANNED MAINTENANCE INTERVAL IN	MISHAP	1680 Hour		3307.700	1685.700	1622.000
		AYNE		7 DAY INSPECTION	MISHAP	7 Day	21 MAR 202	22		-17
		AYNE		364 DAY INSPECTION	MISHAP	364 Day	01 NOV 202	2		208
		AYNE		PHASE D INSPECTION	MISHAP	280 Hour		1907.700	1685.700	222.00(
		AYNE		91 DAY INSPECTION	MISHAP	91 Day	03 MAY 202	2		2€
		AYNE		182 DAY INSPECTION	MISHAP	182 Day	03 MAY 202	2		2€
		AYNE		4315 FLIGHT HOUR INSPECTION	MISHAP	4315 Hour		4315.000	1685.700	2629.30(
		AYNE		1000 LANDING INSPECTION	MISHAP	1000 Lndg		4000.000	3492.000	508.000
		AYNE		900 DAY INSPECTION	MISHAP	900 Day	20 APR 202	4		744
		AYNE		5 YEAR INSPECTION	MISHAP	5 Year	23 APR 202	4		747
		AYNE		140 FLIGHT HOUR INSPECTION	MISHAP	140 Hour		1767.700	1685.700	82.00(
	168330-5	AYNE		CRASH POSITION INDICATOR TEST (AN	MISHAP	364 Day	01 NOV 202	2		208
	A-1696	AYNE		35 HOUR INSPECTION.	MISHAP	35 Hour		1511.000	1499.000	12.000
	A-1877 ^	AYNE		35 HOUR INSPECTION.	MISHAP	35 Hour		1150.000	1138.000	12.000
	A-1900 ·	AYNE		35 HOUR INSPECTION.	MISHAP	35 Hour		956.000	944.000	12.000
	A-1939	AYNE		35 HOUR INSPECTION.	MISHAP	35 Hour		1652.000	1640.000	12.000
	A-253 -	AYNE		35 HOUR NEWLY INSTALLED SWASHPL	MISHAP	35 Hour		1202.100	1190.100	12.000
E	BEC-0097	AYNE		4480 HR EDDY CURRENT INSP	MISHAP	4480 Hour		4480.000	185.000	4295.000
뎐	BH218389-	AYNE		35 HOUR INSPECTION.	MISHAP	35 Hour		1287.000	1275,000	12.000
90	BH418334-	AYNE		35 HOUR INSPECTION.	MISHAP	35 Hour		887.000	875.000	12.000
ENCLOSURE	BH505505~	AYNE		35 HR NEWLY INSTALLED SWASHPLAT	MISHAP	35 Hour		1304.800	1292.800	12.000
	EN0025 <b>4</b> 97	AYNE		CABIN EMERGENCY EQUIPMENT INSPI	MISHAP	182 Day	03 AUG 202	2		118
' )	EN0033768	AYNE		CABIN EMERGENCY EQUIPMENT INSPI	MISHAP	182 Day	03 AUG 202	2		118

ORG /

ORG Name . VMM261
Aircraft Data: MODEX

# NALCON MA SCHEDULED INSPECTIONS REPORT 11 MAR 2022 - 07 APR 2025

DATE: 07 APR 2022

TIME: 1347

**REQ BY:** (b)(3), (b)(6), (b)(7)c

PAGE: 2 of 2

		Assy					When C	)ue		
MODEX	BUNO/Serno	<u>Cd</u>	Position Code	Task Name	<u>Location</u>	<u>Interval</u>	<u>Date</u>	<u>Units</u>	Current	Remaining
14	NP52446	AYNE		UNDERWATER ACOUSTIC BEACON TE	E MISHAP	364 Day	01 NOV 2022			20
	A-1486 ~	CV2L		364 DAY PROPROTOR HUB CORROSIC	MISHAP	364 Day	01 NOV 2022			20
		CV2L		PHASE A INSPECTION	MISHAP	280 Hour		2032.300	1810.300	222.00
	BH307881~	CV2R		364 DAY PROPROTOR HUB CORROSIC	MISHAP	364 Day	01 NOV 2022			20
		CV2R		PHASE C INSPECTION	MISHAP	280 Hour		1684.300	1462.300	222.00
	CAE130478	T1B	RH	70 HOUR ENGINE INSPECTION	MISHAP	70 Hour		1751.000	1739.000	12.00
		T1B	RH	70 HOUR POWER ASSURANCE	MISHAP	70 Hour		1751.000	1739.000	12.00
		T1B	RH	1680 HR ENGINE INSPECTION - 053A05	5 MISHAP	1680 Hour		3011.000	1739.000	1272,00
		T1B	RH	2520 HOUR ENGINE INSPECTION - UNS	S MISHAP	2520 Hour		3851.000	1739.000	2112.00
		T1B	RH	PHASE B ENGINE INSPECTION	MISHAP	280 Hour		1961.000	1739.000	222,00
		T1B	RH	4200 HR ENGINE INSPECTION -UNS 05	: MISHAP	4200 Hour		5531,000	1739.000	3792.00
		T1B	RH	140 FLIGHT HOUR INSPECTION	MISHAP	140 Hour		2331.000	1739.000	592.00
		T1B	RH	6720 HR ENGINE INSPECTION - UNS 05	5 MISHAP	6720 Hour		8051.000	1739.000	6312.00
	CAE130508	T1B	LH	70 HOUR ENGINE INSPECTION	MISHAP	70 Hour		1549.900	1537.900	12.00
		T1B	LH	70 HOUR POWER ASSURANCE	MISHAP	70 Hour		1549.900	1537.900	12.00
		T1B	LH	1680 HR ENGINE INSPECTION - 053A05	MISHAP	1680 Hour		2938.000	1537.900	1400.10
		T1B	LH	PHASE D ENGINE INSPECTION	MISHAP	280 Hour		1759.900	1537.900	222.00
		T1B	LH	2520 HOUR ENGINE INSPECTION - UNS	S MISHAP	2520 Hour	:	3778.000	1537.900	2240.10
		T1B	LH	4200 HR ENGINE INSPECTION -UNS 05	( MISHAP	4200 Hour		5458.000	1537.900	3920.10
		T1B	LH	6720 HR ENGINE INSPECTION - UNS 05	5 MISHAP	6720 Hour		7978.000	1537.900	6440.10
		T1B	LH	140 FLIGHT HOUR INSPECTION	MISHAP	140 Hour	;	2258.000	1537.900	720.10
	30005855	YPEE		180 DAY INSPECTION AN/PRC-149 RAD	MISHAP	180 Day	23 FEB 2023			32:
EN		YPEE		448 DAY INSPECTION AN/PRC-149 RAD	MISHAP	448 Day	23 FEB 2023			32:
ÇĻ		YPEE		90 DAY INSPECTION AN/PRC-149 RADIO	MISHAP	90 Day	23 FEB 2023			32:
າສດ	20L5297·	YPRH		AIMD) 448 DAY INSPECTION LRU-34/A	MISHAP	448 Day	23 FEB 2023			32;
ENCLOSURE	1									

NALCOWIS OWA WISC DISTORY ISD

DUNU/Serno:

100000

VIVIVIZO I

U/ APH 2022 13

Part No: MV-22B

Nomen: MV-22B AIRCRAFT Next Highest Inventory Serno: 168330 Next Highest Inventory Nomen: MV-22B AIRCRAFT

Date	Description	Activity	Enter
13 MAR 2022	EFFECTIVE THIS DATE PERFORMED ONE TIME MISSING FASTENER REPORT FOR 6LO3 LOWER FORWARD FITTING ASSY. FOUND PIN BROKEN ON DAILY INSPECTION. PERFORMED INVESTIGATION FOR 6LO3 LOWER COMPRESSION LATCH, BROKEN PIECE COULD NOT BE LOCATED.RECOMMEND RELEASE FROM INVESTIGATION. AIRCRAFT RELEASED DSAFE FOR FLIGHT BY AMO. REFER TO MFR: 22011.	VMM261DET1	SGT
25 FEB 2022	EFFECTIVE THIS DATE, ACFT BUNO 168330 PREFORMED 91 DAY INSPECTION IAW A1-V22AB-MRC-000. BASE REMAINS 211102 WITH THE NEXT 91 DAY INSPECTION DUE ON 220503.	VMM261DET1	SGT
22 FEB 2022	EFFECTIVE THIS DATE, 7 DAY INSPECTION WAS RESCHEDULED FROM 220130 TO 220221 IAW COMNAVAIRFORINST 4790.2D. NEXT 7 DAY INSPECTION IS DUE AT 220228.	VMM261DET1	LCPI
31 JAN 2022	EFFECTIVE THIS DATE, TECHNICAL DIRECTIVE DEFFERAL FOR ASC-123, INSTALLATION OF TACTICAL SYSTEM SOFTWARE ON ACFT BUNO 168330, GRANTED NLT 60 DAYS AFTER RETURN FROM CR22 IAW CNAF MSG DTG 310416Z JAN 22.	VMM261	LCPI
07 JAN 2022	EFFECTIVE THIS DATE PERFORMED ONE TIME MISSING FASTENER REPORT FOR RH IB MFD OFF/DAY/NIGHT KNOB.FOUND MISSING DURING POST FLIGHT WALK AROUND RH INBD MFD OFF/DAY/NIGHT KNOB. CONDUCTED A SEARCH OF THE IMMEDIATE AREA AND AROUND THE COCKPIT, COULD NOT LOCATE THE MFD KNOB. CONDUCTED A SEARCH OF THE COCKPIT. RH IB MFD KNOB COULD NOT BE LOCATED. MFD KNOB DOES NOT POSE A THREAT TO AIR WORTHNESS. RECOMMEND RELEASE A/C FROM INVESTIGATION. AMO CONCURS, RELEASE AIRCRAFT, SAFE FOR FLIGHT. REFER TO MCN:28QT9YU MFR#:27004.	VMM261	CPL
18 NOV 2021	EFFECTIVE THIS DATE, PERFORMED ONE TIME MISSING FASTNER REPORT ON AIRCRAFT 168330 FOR A RH INBOARD CLAMSHELL STRUT HARDWARE. DURING PEST FLIGHT INSPECTION HARDWARE FOR RH INBOARD CLAMSHELL STRUT WAS MISSING. THE LOWER INTAKE WAS REMOVED TO LOCATE CLAMSHELL STRUT HW LWR. HW WAS NOT FOUND. THE INSTAKE CENTER BODY WAS REMOVED AND BOLT WITH WASHER AND SPACE WAS LOCATED. ONE SPACER STILL UNACOUNTED FOR. SEARCHED THOROUGHLY IN THE FIREWALL AREAS AND SPACER WAS STILL NOT LOCATED. PERFORMED INVESTIGATION FOR MISSING SPACER COUND NOT LOCATED. RECOMMEND RELEASE OF AIRCRAFT FROM INVESTIGATION. AIRCRAFT RELEASED SFF BY AAMO. REFER TO MFR:21076 AND MCN:28QT7JV.	VMM261	LCPI
17 NOV 2021	EFFECTIVE THIS DATE RECEIVED ACFT BUNO 168330 FROM PMI IAW CNAF ATO H510-21 MSG DTG 090517Z NOV 21. HYDRAULIC SAMPLES ARE AS FOLLOWS:TOOK SAMPLE VIA PODS METHOD IAW NAVAIR 01-1A-17 SYS 1 RAN NAVY CLASS 0 SYS 2 RAN NAVY CLASS 0 SYS 3 RAN NAVY CLASS 1. THIS DATE, THE MONTHLY FLIGHT SUMMARY HOURS SINCE NEW WERE VERIFIED TO BE CORRECT. PHASE BASE IS 1627.7 ATSN WITH THE NEXT PHASE 'D' DUE AT 1907.7 ATSN. ACFT CURRENTLY HAS 0 APU STARTS AND 0 SPWS. THE FOLLOWING	VMM261	CPL
17 NOV 2021	INSPECTIONS HAVE BEEN VERIFIED TO MATCH AIRCRAFT LOGBOOK AND OOMA CM ALS.         INSPECTION       BASE       DUE       INSPECTION       BASE       DUE         56 DAY       211102       211228       91 DAY       211102       220201         70 HR       1627.7       1697.7       140 HR       1627.7       1767.7         4315 HR       0.0       0.0	VMM261	LCPI
17 NOV 2021	EFFECTIVE THIS DATE, ACFT BUNO 168330 TRANSFERRED TO VMM-261 UPON COMPLETION OF PMI-2. THIS DATE, THE MONTHLY FLIGHT SUMMARY FLIGHT HOURS IN PERIOD AND SINCE NEW WERE VERIFIED TO BE CORRECT. AUTOMATED LOGSET VERIFIED TO BE ON CD-RW AND ENCLOSED IN MANILLA ENVELOPE IN THE BACK OF THE LOGBOOK.	FRC EAST NADEP CP	CIV 、
15 NOV 2021	EFFECTIVE THIS DATE, PMI-2 COMPLETED WITH 1631.2 FLIGHT HOURS IAW MV22B-PMI SPEC. NBNC (NOTED BUT NOT CORRECTED) DISCREPANCIES ARE FORWARDED FOR CUSTODIAN ACTION. HYDRAULIC CONTAMINATION RESULTS UPON COMPLETION OF PMI-2 ARE AS FOLLOWS: SYSTEM I CLASS #0; SYSTEM II CLASS #0; AND SYSTEM III CLASS #1. NEXT, PMI EVENT IS PMI-2 DUE ON 03/27.		CIV .
15 NOV 2021	THE FOLLOWING SPECIAL INSP'S ARE COMPLIED WITH AND BASE DATE ESTABLISHED TO BE 211102 AT ACFT HOURS: 1627.7: 70 HR, 140 HR, 210 HR, 280 HR PHASE C INSP, 56 DAY, 91 DAY, 182 DAY, 364 DAY, AND 900 DAY. AIRCRAFT PAINTED MARINE TACTICAL GRAY. THE FOLLOWING TECHNICAL DIRECTIVES WERE INCORPORATED: AFB-0182, ASC-0095, ASC-0114, ASC-0117, AND ASC-0118. THE FOLLOWING TORQUE CHECKS WERE PERFORMED: L/H TAG BOX RETORQUE AFTER 9-18 FLIGHT HOURS IAW SSS 0550. L/H SWASHPLATE RETORQUE AFTER 35 FLIGHT HOURS IAW SSS 0550. L/H MAST NUT BOLTS RETORQUE AFTER 35 FLIGHT HOURS IAW SSS 0550. L/H MAST NUT BOLTS RETORQUE AFTER 35 FLIGHT HOURS IAW SSS 0550.	FRC EAST NADEP CP	civ.
19 SEP 2021	EFFECTIVE THIS DATE, FLAP RIG PIN IS SUSPECTED OF BEING LOST IN SUBJECT AIRCRAFT. A THOROUGH INVESTIGATION WAS CONDUCTED WITH NEGATIVE RESULTS. TCN: SF1535. REFERENCE MTR: 21000219.	FRC EAST NADEP CP	CIV
04 AUG 2021	EFFECTIVE THIS DATE, FLAP RIG PIN (PN: 901-232-020-101) IS SUSPECTED OF BEING LOST IN SUBJECT AIRCRAFT. A THOROUGH INVESTIGATION WAS CONDUCTED WITH NEGATIVE RESULTS. TCN: PA3SF4206. REFERENCE MTR: 21000195	FRC EAST NADEP CP	CIV
07 APR 2021	EFFECTIVE THIS DATE, A 5/32 ALLEN WRENCH WITH S/N 21000137 FROM TOOL KIT # SM-B-278 IS SUSPECTED OF BEING LOST IN SUBJECT AIRCRAFT. A THOROUGH INVESTIGATION WAS CONDUCTED WITH NEGATIVE RESULTS.	FRC EAST NADEP CP	CIV
2021	EFFECTIVE THIS DATE, A 7/32 DRILL BIT WITH S/N 21000101 IS SUSPECTED OF BEING LOST IN SUBJECT AIRCRAFT. A THOROUGH INVESTIGATION WAS CONDUCTED WITH NEGATIVE RESULTS.	FRC EAST NADEP CP	CIV

NALCOMIS OMA Misc History Tab

BUNO/Serno:

168330

VMM261

07 APR 2022 13

Part No: MV-22B

Nomen: MV-22B AIRCRAFT

Next Highest Inventory Serno: 168330 Next Highest Inventory Nomen: MV-22B AIRCRAFT <u>Date</u> Description **Activity** Enter EFFECTIVE THIS DATE, ACFT BUNO 168330 RECEIVED FROM VMM-365 FOR PMI-2. THIS DATE, 17 DEC 2020 FRC EAST NADEP CP CIV. THE MONTHLY FLIGHT SUMMARY FLIGHT HOURS IN PERIOD AND SINCE NEW WERE VERIFIED TO BE CORRECT. EFFECTIVE THIS DATE, TRANSFERRED ACFT BUNO 168330 TO PMI CHERRYPOINT IAW ATO 1) \_\_\_C 2020 VMM365 CPL H166-21 MSG DTG 171716Z DEC 20. PHASE BASE ESTABLISHED AT 1405.8 ATSN WITH NEXT PHASE 'C' DUE AT 1685.8 ATSN. THIS DATE THE MONTHLY FLIGHT SUMMARY OPERTING HOURS AND HOURS IN LIFE HAVE BEEN VERIFIED TO BE CORRECT. TSN AT TIME OF TRANSFER IS 1626.9 ATSN, 3330 LANDINGS. THE FOLLOWING INSPECTIONS HAVE BEEN VERIFIED TO MATCH AIRCRAFT LOGBOOK AND OOMA CM ALS: INSPECTION BASE 17 DEC 2020 WHEN DUE INSPECTION BASE WHEN DUE VMM365 CPL 56 DAY 201119 210114 91 DAY 170503 210127 70 HR 1569 1639 140 HR 1405.8 1685.8 210HR 1405.8 11825.8 420 HR 1405.8 1825.8 1680 PMI HR 0.000.0 1680.0 4315 HR 0.000.0 4315.0 1000 LANDING 40000 900 DAY 200930 230319 EFFECTIVE THIS DATE 19 NOV 2020 COCKPIT STANDBY COMPASS CALIBRATION WAS 19 NOV 2020 VMM365 **CPL** PERFORMED BY (b)(6), (b)(7)c VERIFIED BY(b)(3), (b)(6), (b)(7)c UTILIZING THE GROUND SWING METHOD AT MCAS NEW RIVER, ALL READINGS ARE WITHIN THE LIMITS SPECIFIED BY MV22 IETMS S/S/S 3110. (CONTINUED COCKPIT COMPASS ROSE) EFFECTIVE THIS DATE 19 NOV 2020 CABIN STANDBY COMPASS CALIBRATION WAS 19 NOV 2020 VMM365 CPL PERFORMED BY()(3), (b)(6), (b)(7) ERIFIED BY(b)(3), (b)(6), (b)(7) UTILIZING THE GROUND SWING METHOD AT MCAS NEW RIVER, ALL READINGS ARE WITHIN THE LIMITS SPECIFIED BY MV22 IETMS S/S/S 3110. (CONTINUED CABIN COMPASS ROSE) HD=00, RD=00, RE=00 HD=180, RD=180, RE=00 HD=90, RD=90, RE=00 HD=270, RD=270, 19 NOV 2020 VMM365 CPL RE=00 HD=15, RD=15, RE=00 HD=195. RD=195, RE=00 HD=105, RD=105, RE=00 HD=285, RD=285, RE=00 HD=30, RD=30, RE=00 HD=210, RD=210, RE=00 HD=120, RD=120, RE=00 HD=300, RD=300, E=00 HD=45, RD=45, RE=00 HD=225, RD=225, RE=00 HD=135, RD=135, RE=00 HD=315, RD=315, RE=00 HD=60, RD=60, RE=00 HD=240, RD=240, RE=00 HD=150, RD=150, RE=00 HD=330, RD=330, RE=00 HD=75, RD=75, RE=00 HD=255, RD=255, RE=00 HD=165, RD=165, RE=00 HD=345, RD=345, RE=00 HD=00, RD=00, RE=00 HD=180, RD=180, RE=00 HD=90, RD=90, RE=00 19 NOV 2020 HD=270, RD=270, VMM365 CPL RF=00 HD=15, RD=15, RE=00 HD=195, RD=195, RE=00 HD=105, RD=105, RE=00 HD=285, RD=285, RE=00 HD=30, RD=30, RE=00 HD=210, RD=210, RE=00 HD=120, RD=120, RE=00 HD=300, RD=300. RE=00 HD=45, RD=45, RE=00 HD=225, RD=225, RE=00 HD=135, RD=135, RE=00 HD=315, RD=315, RE=00 HD=60, RD=60, RE=00 HD=240, RD=240, RE=00 HD=150, RD=150, RE=00 HD=330, RD=330, RF=00 HD=75, RD=75, RE=00 HD=255. RD=255, RE=00 HD=165, RD=165, RE=00 HD=345, RD=345, RE=00 ON THIS DATE THE AMO HAS DETERMINED TO NOT PLACE AIRCRAFT INTO LEVEL 1 13 NOV 2020 VMM365 CWC PRESERVATION. AC IS ACTIVELY BEING REPAIRED AND IS EXPECTED TO FLY BEFORE IT REACHES 45 DAYS. 26 AUG 2020 EFFECTIVE THIS DATE, UPON SCREENING OF AIRCRAFT FLIGHT SUMMARY PAGE, IT WAS VMM365 CPL DISCOVERED THAT THERE WERE 13 ACCUMILITIVE ARREST LANDINGS ERONIOUSLY DOCUMENTED. ARREST LANDINGS DO NOT APPLY TO TYPE MODEL SERIES, NO OTHER DISCREPANCIES NOTED. EFFECTIVE THIS DATE, 70 FLIHT HOUR INSPECTION WAS RESCHEDULED FROM 1606 ATSN TO VMM365 13 AUG 2020 CPL 1569 ATSN IAW 4790.2C. NEXT 70 FLIGHT HOUR INSPECTION DUE AT 1639 ATSN. EFFECTIVE THIS DATE, SUSPENDED 7 DAY AFLOAT INSPECTION DUE TO RETURN FROM 23 JUL 2020 VMM365 CPL DEPLOYMENT ABOARD THE USS BATAAN. EFFECTIVE THIS DATE, SUSPENDED 35 HOUR AFLOAT INSPECTION DUE TO RETURN FROM 23 JUL 2020 VMM365 **CPL** DEPLOYMENT ABOARD THE USS BATAAN. EFFECTIVE THIS DATE, 35 HR INSP WAS RESCHEDULED FROM 1545.8 TO 1536.0. NEXT 35 HR 08 JUN 2020 VMM365 GYS INSP IS DUE AT 1571.0. EEFFECTIVE THIS DATE, 70 HR INSP WAS RESCHEDULED FROM 1545.8 TO 1536.0. NEXT 70 08 JUN 2020 VMM365 **GYS** HR INSP IS DUE AT 1606.0. EFFECTIVE THIS DATE, 35 HR INSP WAS RESCHEDULE FROM 1510.8 TO 1507.4. NEXT 35 HR 18 MAY 2020 VMM365 **GYS** INSP IS DUE AT 1542.4. EFFECTIVE THIS DATE, PERFORMED ONE-TIME INSPECTION FOR MISSING TOOL. MTR: 16 APR 2020 VMM365 SGT 20M094 APPLIES. COULD NOT LOCATE MISSING TOOL, REFER TO MCN; 2MF1/LK EFFECTIVE THIS DATE, TSN FOR ACCUMULATED SPHERICAL BEARINGS, THE (4) BEARINGS 02 APR 2020 VMM365 CPL WERE INSTALLED DURING ACFT PRODUCTION, CURRENT BFWS CTSN: 331 EFFECTIVE THIS DATE, PERFORMED ONE-TIME INSPECTION FOR RH TCL SEARCH LIGHT 24.MAR 2020 VMM365 SGT BUTTON. MFR: 2020-11 APPLIES. COULD NOT LOCATE RH TCL SEARCH LIGHT BUTTON. AIRCRAFT RELEASED FOR FLIGHT BY MMCO. REFER TO MCN: 2MF1GUB 2020 EFFECTIVE THIS DATE, PERFORMED ONE TIME INSPECTION OF RH ENGINE TO VERIFY NO VMM365 SGT LEAKAGE VISABLE. NO LEAKAGE VISIBLE. ATAF. APAF. AFF. REFER TO MCN: 2MF1CKO.

#### UNCLASSIFIED//FOR OFFICIAL USE ONLY

BUNO	TMS	Trai	nsferre	ed In	Transferred Out Currently Assigned								
168330	MV-22B	11/07	7/2021	1459						•			
LAUNCH	TIME	TFT 30.3	SRT 15	SBTP 30.3	TRNG 24.2	SUPT 6.1	OPER	CONT	TMR/HRS	TMR/HRS	CREW	ICAO	LNE
01/06/22	20:12 - 01:00	4.4	2	4.4	4.4	0.0	0.0	0.0	1B9 4.4			KNCA	
01/17/22	09:00 - 10:00	1.0	1	1.0	0.0	1.0	0.0	0.0	2J2 1.0		(b)(3), (b)(6), (b)(7)c	KNCA	
02/20/22	13:30 - 14:30	1.0	1	1.0	0.0	1.0	0.0	0.0	2J2 1.0			ZZZZ	
03/01/22	09:15 - 12:00	2.8	1	2.8	2.8	0.0	0.0	0.0	1A1 2.8		TOMKIEWICZ	ENBO	
03/07/22	14:15 - 17:30	3.3	2	3.3	2.0	1.3	0.0	0.0	1A1 2.0	2M4 1.3	TOMKIEWICZ	ENBO	
03/07/22	19:30 - 22:45	3.3	1	3.3	3.3	0.0	0.0	0.0	1A9 3.3			ENBO	
03/09/22	15:00 - 17:50	2.8	2	2.8	0.0	2.8	0.0	0.0	2M4 2.8			ENBO	
03/09/22	20:00 - 22:45	2.8	1	2.8	2.8	0.0	0.0	0.0	1A9 2.8			ENBO	
03/10/22	19:45 - 22:00	2.3	1	2.3	2.3	0.0	0.0	0.0	1A9 2.3		(b)(3), (b)(6), (b)(7)c	ENBO	
03/17/22	15:00 - 18:15	3.3	1	3.3	3.3	0.0	0.0	0.0	1A1 3.3			ENBO	
03/17/22	19:45 - 23:05	3.3	2	3.3	3.3	0.0	0.0	0.0	1A9 3.3			ENBO	



Automated	Aircraft Discrepancy Book				1	
RG: FC3	▼ BUNO: 168330	TMS: MV-22B	Next Phase: 222	.000 Hours Up/Down/Partial: P	Cancel	
DEX: 14	▼ Assy Cd: AYNE	Basic Wgt: 34761	Acft Hours: 1,685.700 L	ast Flown: 17 MAR 2022 1945		
spections Ne gine/APU/P	rop Data   Open Work Orde	ers Awaiting Mainten	ance Control Approval Closed	Work Orders Last 10 Flights	Acceptance For Flight	Consumption
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	I have personally inspected this applicable MRCs/checklists. Any have been entered on a work orde	discrepancies noted Certific	ation of safe for flight condition by MMCO, D. If authorized, other persons may sign.	MO flights, insured wgt, and balance of accept this aircraft for flight.		
Signatures:	Plane Captain:(b)(3), (b)(6),	(b)(7)c Safe	for Flight(b)(3), (b)(6), (b)(7)c	Pilot: CAPT M TOMKIEWICZ	and of the annual and the definition of the desired and the second of the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second	
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# SFF SCREENING CHECKLIST

мо	DEX: 14	BUNO:	168330		
Print A/C Equipment / Workload Repo	ort				
Print A/C Scheduled Inspection Repor			ahead)		
Screen Scheduled Inspection Report. V			00/100D LNDGS		
Screen Component Removals - 25% /	7 days				
Screen ALSS Inspection Report for Per	sonal Equipment - Verify o	off of flight schedu	e and OTR reports		
Screen Technical Directives Outstandi	ng Report in Configuration	Management			
Screen Installed Explosives Report in C	Configuration Management	t			
Verify Compass Cal initial compass wa	s done				
Verify date and time on D&T are enou	igh to cover flight - Print D	/T paperwork for I	Binder.		
Verify APU Starts/Hours, and BFWS	20				
Check Oil Consumption: () APU, (/	/   #1 ENG, (1/) #2 ENG - QA	needs to sign thei	r block weekly		
Verify Fuel Samples - Valid for 24 HRS					
Screen Open Discrepancies/Verify In F	Processes in AADB Open Di	screpancies tab			
Screen Closed Discrepancies in OOMA	to include Hourly, Calenda	ar, Landing, Phase,	Xfer/Accep insp		
Verify 10 previous flights NAVFLIR's w	ith Last 10 A-Sheets tab in	AADB. Print Last 1	A-Sheets for ADB. (Ref	er to Alrcraft Flight Report)	
Run Ad Hoc ensuring no open tools or	ı A/C			•	
Change M3's to M7					
Verify Weight & Balance Form F does	not exceed 57,000 lbs in b	lock 16 and is with	n 180 day expiration tim	neline	
Screen FCF/GT Matrix for anything the	at might need to be signed	off before the flig	nt		
Ensure Oil servicing Is annotated in th	e Special Equipment block	on A-Sheet of AAD	В		
Annotate If Ord/Special equipment is	installed (if applicable) on	Part A - If none, as	notate "ND ORDNANC	OR AAS INSTALLED"	
Update aircraft limitations					
Update AC Remarks in OOMA to refle	ct Safe For Flight				
Sign SFF block on A-Sheet in the AAD	3 <del>- 10-10-10-10-10-10-10-10-10-10-10-10-10-1</del>	of ADD		)	7
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Print Part A once pilot signs for A/C a	nd save summary back up.	7	7	ı	
Sign/Date/Time					
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Debrief Pilots to find out if any maint Ensure Pilots/CDI/CDQAR's sign FCF/t Download screened by QA Ensure NAVFLIR's are downloaded fro Closeout A/C hours from NAVFLIR on	GT Matrix if anything appli om MSHARP to OOMA by N	ed	urred -		
Closeout Oil Consumption Change all M7's to M3	•				4 3
Update hours on board after verifyin Update Remarks in OOMA to reflect		ta		ENCLOSURE	(457

ENCLOSURE

Snapshot: 11-Apr-22 11:36

# Qual/Cert/License/Medicals Cross-Tab Report (Condensed)

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Organization Structure: MARINE AVIATION - TECOM - COMMARFORCOM - 2ND MAW - MAG-26 - VMM-261

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Report: QCLXTCond

Date Printed: 11-Apr-2022

\* Inactive Personnel

Page 2 of 3



ENCLOSURE

# Qual/Cert/License/Medicals Cross-Tab Report (Condensed)

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Organization Structure: MARINE AVIATION - TECOM - COMMARFORCOM - 2ND MAW - MAG-26 - VMM-261



Snapshot: 11-Apr-22 11:36

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Report: QCLXTCond Date Printed: 11-Apr-2022 \* Inactive Personnel

Page 3 of 3



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MCN JCN MODEX :14

**NALCOMIS** REQUIRED MA. ...IAL

Date : 28 APR 2

Time : 0823

Req (13), (b)(6), (b)(7)c

Page :1 of 1

Sys Reason: RH OB VORTEX GEN REMOVED

**Ordered DDSN** Reference RPBL Cage Part Number QTY Proj PRI <u>Date</u> <u>Status</u> NIIN 1 AK1 06 09 DEC 2021 1530 13434068 S/F/I 57/205/1 VORTEX GENERATOR PAOZZ KP NO 97499 901-032-346-115 09 DEC 2021 1904 343COMPL 01-647-1127

ENCLOSURE

504

JCN : FC3322059

MODEX: 14

Sys Reason: RH OB VORTEX GEN REMOVED

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0823

**Req**(**B**)(3), (b)(6), (b)(7)c

<u>CDI</u>

Page: 1 of 5

End <u>Date</u>

09 DEC 2021 1510

#### **Job Status**

Job <u>Status</u>	Date <u>Time</u>	<u>EOC</u>
МЗ	18 NOV 2021 1209	
M4	18 NOV 2021 2045	
МЗ	19 NOV 2021 1025	
M4	22 NOV 2021 2340	
МЗ	23 NOV 2021 0557	
M7	23 NOV 2021 0836	
МЗ	24 NOV 2021 0630	
M4	24 NOV 2021 1202	
МЗ	29 NOV 2021 0600	
M7	29 NOV 2021 1957	
МЗ	01 DEC 2021 1633	
M4	03 DEC 2021 1814	
МЗ	05 DEC 2021 1511	
M4	06 DEC 2021 0007	
M2-	06 DEC 2021 0614	
	06 DEC 2021 0615	
IW	09 DEC 2021 1505	
МЗ	09 DEC 2021 1511	
WP	09 DEC 2021 1530	
МЗ	09 DEC 2021 1851	
M4	10 DEC 2021 0230	
МЗ	10 DEC 2021 0653	
M7	11 DEC 2021 0204	
МЗ	11 DEC 2021 0607	
M4	11 DEC 2021 1632	
МЗ	12 DEC 2021 1521	
M4	13 DEC 2021 0424	
МЗ	13 DEC 2021 0602	
M4	14 DEC 2021 0155	
МЗ	14 DEC 2021 0612	
M4	15 DEC 2021 0256	
МЗ	15 DEC 2021 0604	
M4	15 DEC 2021 1423	
МЗ	15 DEC 2021 1737	
M	16 DEC 2021 0136	
	16 DEC 2021 0610	
M4	17 DEC 2021 0145	

	W	orker Hours
Name	Toolbox	Start <u>Date</u>
(b)(3), (b)(6), (b)(7)c	CDISUP	09 DEC 2021 1505

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: FC3322059

MODEX : 14

Sys Reason: RH OB VORTEX GEN REMOVED

### **NALCOMIS OMA Job Status / Worker Hours**

Date : 28 APH 2022

Time : 0823

Req(B)(3), (b)(6), (b)(7)c

<u>CDI</u>

Page :2 of 5

#### Job Status

Job <u>Status</u>	Date <u>Time</u>	<u>EOC</u>	<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>
МЗ	17 DEC 2021 0604	<u></u>	Marito	JOGIDOX	Date	Date
M4	18 DEC 2021 0138					
МЗ	18 DEC 2021 0739					
M4	18 DEC 2021 1758					
МЗ	20 DEC 2021 0621					
M4	23 DEC 2021 1729					
M5	28 DEC 2021 0720					
МЗ	28 DEC 2021 0814					
M4	28 DEC 2021 1807					
МЗ	29 DEC 2021 0739					
M7	29 DEC 2021 1653					
M4	29 DEC 2021 1805					
МЗ	30 DEC 2021 0705					
М7	30 DEC 2021 1317					
M4	30 DEC 2021 1618					
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M4	07 JAN 2022 0221					
МЗ	07 JAN 2022 0627					
M5	10 JAN 2022 0009					
M4	10 JAN 2022 0150					
МЗ	10 JAN 2022 0625					
M4	11 JAN 2022 0221					
МЗ	11 JAN 2022 0607					
M4	12 JAN 2022 0154					
МЗ	12 JAN 2022 0629					
M7	13 JAN 2022 0251					
МЗ	13 JAN 2022 0252					•
M4	13 JAN 2022 0253					
МЗ	13 JAN 2022 0620					
M4	14 JAN 2022 1817					
МЗ	16 JAN 2022 1522					
M7	16 JAN 2022 2044					
МЗ	20 JAN 2022 1458					
M4	20 JAN 2022 1554					
	24 JAN 2022 0824					
Мн	24 JAN 2022 1825					
МЗ	25 JAN 2022 0613					

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NALCOMIS OMA Job Status / Worker Hours

JCN : FC3322059 MODEX : 14

Sys Reason: RH OB VORTEX GEN REMOVED

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End

<u>Date</u>

Time : 0823

**Req** (8)(3), (b)(6), (b)(7)c

<u>CDI</u>

Page:3 of 5

#### Job Status

Job <u>Status</u> M4	Date <u>Time</u> 27 JAN 2022 1640	EOC	<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>
МЗ	28 JAN 2022 0616				
M4	28 JAN 2022 1625				
МЗ	31 JAN 2022 0609				
M4	31 JAN 2022 1613				
МЗ	01 FEB 2022 0637				
M4	03 FEB 2022 1709				
МЗ	06 FEB 2022 1658				
M4	07 FEB 2022 0054				
МЗ	07 FEB 2022 0623				
M4	08 FEB 2022 0016				
МЗ	08 FEB 2022 0622				
M4	10 FEB 2022 0244				
МЗ	10 FEB 2022 0629				
M4_	11 FEB 2022 1203				
	14 FEB 2022 0914				
Ň <sub>ros</sub>	17 FEB 2022 1618				
M2	22 FEB 2022 1442				
МЗ	23 FEB 2022 0734				
M2	23 FEB 2022 0735				
МЗ	24 FEB 2022 0911				
M4	28 FEB 2022 1550				
M7	28 FEB 2022 1609				
МЗ	01 MAR 2022 0620				
МЗ	01 MAR 2022 1439				
M4	01 MAR 2022 1602				
M4	01 MAR 2022 1914				
МЗ	02 MAR 2022 0728				
M4	02 MAR 2022 1837				
M3	03 MAR 2022 0715				
M4	03 MAR 2022 1643				
МЗ	04 MAR 2022 1035				
M4	04 MAR 2022 1620				
МЗ	05 MAR 2022 0713				
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: FC3322059

Sys Reason: RH OB VORTEX GEN REMOVED

**NALCOMIS OMA** Job Status / Worker Hours Date : 20 AFR 2022 Time : 0823

Req (3), (b)(6), (b)(7)c

Page :4 of 5

#### **Job Status**

Job Status	Date <u>Time</u>	<u>EOC</u>	<u>Name</u>	<u>Toolbox</u>	Start	End	CDI
M7	08 MAR 2022 2203	<u> 200</u>	Hairie	TOOIDOX	<u>Date</u>	<u>Date</u>	<u>CDI</u>
МЗ	09 MAR 2022 2318						
M4	10 MAR 2022 0212						
МЗ	10 MAR 2022 1141						
М7	10 MAR 2022 1359						
МЗ	10 MAR 2022 2259						
M4	11 MAR 2022 2354						
МЗ	13 MAR 2022 0804						
M7	13 MAR 2022 2048						
МЗ	13 MAR 2022 2348						
M4	14 MAR 2022 0155						
МЗ	14 MAR 2022 1432						
M4	15 MAR 2022 0240						
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M7	15 MAR 2022 0853						
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МЗ	16 MAR 2022 0913						
M7	16 MAR 2022 1006						
МЗ	16 MAR 2022 1009						
M4	17 MAR 2022 0435						
МЗ	17 MAR 2022 1137						
M7	17 MAR 2022 1138						
МЗ	17 MAR 2022 2335						
M4	18 MAR 2022 0141						
МЗ	18 MAR 2022 0919						
M7	18 MAR 2022 0920						
МЗ	23 MAR 2022 1259						
M4	23 MAR 2022 2200						
МЗ	25 MAR 2022 1457						
M4	25 MAR 2022 1759						
M3	26 MAR 2022 0852						
M4	27 MAR 2022 1905						
M3	28 MAR 2022 0858						
M4	28 MAR 2022 1855						
	29 MAR 2022 1124						
N14	29 MAR 2022 1907						
МЗ	30 MAR 2022 0948						
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MCN : 28QT7KX JCN : FC3322059

MODEX: 14

Sys-Reason: RH OB VORTEX GEN REMOVED

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0823

Req(B)(3), (b)(6), (b)(7)c

<u>CDI</u>

Page:5 of 5

End

<u>Date</u>

#### **Job Status**

Job	Date	
<u>Status</u>	<u>Time</u>	<u>EOC</u>
M4	30 MAR 2022 1634	
МЗ	31 MAR 2022 0829	
M7	09 APR 2022 0851	
МЗ	18 APR 2022 0651	
M4	21 APR 2022 1602	
МЗ	22 APR 2022 0618	
M4	25 APR 2022 0104	
МЗ	25 APR 2022 0606	
M4	25 APR 2022 2359	
МЗ	26 APR 2022 0610	
M4	27 APR 2022 0115	
МЗ	27 APR 2022 0600	
M4	28 APR 2022 0104	
МЗ	28 APR 2022 0557	
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Sys Reason: R GRN BLD TEMP SNSR

NALCOMIS OMA

Job Status / Worker Hours

Date : 28 APH 2022

Time : 0822

Req (3), (b)(6), (b)(7)c

Page :1 of 2

#### Job Status

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M4	08 MAR 2022 0141	1
МЗ	08 MAR 2022 0557	ı
M7	08 MAR 2022 2203	ı
МЗ	09 MAR 2022 2318	ı
M4	10 MAR 2022 0212	i
МЗ	10 MAR 2022 1141	ı
M7	10 MAR 2022 1359	1
МЗ	10 MAR 2022 2259	1
M4	11 MAR 2022 2354	1
IW	13 MAR 2022 0800	I
МЗ	13 MAR 2022 1716	1
M7	13 MAR 2022 2048	1
МЗ	13 MAR 2022 2348	1
M4	14 MAR 2022 0155	1
	14 MAR 2022 1432	ŀ
M4	15 MAR 2022 0240	ŀ
МЗ	15 MAR 2022 0807	i
M7	15 MAR 2022 0853	1
М3	16 MAR 2022 0236	1
M4	16 MAR 2022 0237	I
M3	16 MAR 2022 0913	I
M7	16 MAR 2022 1006	ŀ
МЗ	16 MAR 2022 1009	1
M4	17 MAR 2022 0435	1
МЗ	17 MAR 2022 1137	1
M7	17 MAR 2022 1138	1
M3	17 MAR 2022 2335	1
M4	18 MAR 2022 0141	i
МЗ	18 MAR 2022 0919	1
M7	18 MAR 2022 0920	I
M3	23 MAR 2022 1259	[
M4	23 MAR 2022 2200	I
МЗ	25 MAR 2022 1457	1
N	25 MAR 2022 1759	1
	26 MAR 2022 0852	1
M4	27 MAR 2022 1905	i

		Start	End	
<u>Name</u>	<u>Toolbox</u>	<u>Date</u>	<u>Date</u>	<u>CDI</u>
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(5)(5), (5)(6), (5)(7)	NTR	13 MAR 2022 0800	13 MAR 2022 1715	AMV

JCN : FC3067680

MODEX : 14

Sys Reason: R GRN BLD TEMP SNSR

NALCOMIS OMA

Job Status / Worker Hours

Uate : 28 APH 2022

Time : 0822

Req (3), (b)(6), (b)(7)c

Page : 2 of 2

### Job Status

Job	Date	
<u>Status</u>	<u>Time</u>	EOC
МЗ	28 MAR 2022 0858	I
M4	28 MAR 2022 1855	1
МЗ	29 MAR 2022 1124	1
M4	29 MAR 2022 1907	I
МЗ	30 MAR 2022 0948	1
M4	30 MAR 2022 1634	1
МЗ	31 MAR 2022 0829	1
M7	09 APR 2022 0851	1
МЗ	18 APR 2022 0651	1
M4	21 APR 2022 1602	1
МЗ	22 APR 2022 0618	l
M4	25 APR 2022 0104	1
МЗ	25 APR 2022 0606	ı
M4	25 APR 2022 2359	l
МЗ	26 APR 2022 0610	1
	27 APR 2022 0115	1
Jr	27 APR 2022 0600	l
M4	28 APR 2022 0104	ı
МЗ	28 APR 2022 0557	1

<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>	<u>CDI</u>

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<u>MCN</u> : 28T0883 <u>JCN</u> : FC3067674

MODEX

Smalleason : L PEN DAMP HEATERS

**NALCOMIS OMA QAR/CDI In Process Inspection** 

Date : 28 APR 2022

Time :0822

Req B(8)(3), (b)(6), (b)(7)c Page : 1 of 1

**Description** 

FOD FREED AND CLOSED LEFT HAND SPINNER DOME. WIT'D TQ OF 80 IN-LBS ON SPINNER DOME SCREWS.

<u>Rank</u>

<u>Name</u>

(b)(3), (b)(6), (b)(7)c

**DateTime** 

MCN :287 JCN :FC '4 MODEX :14

RPBL Cage

NALCOMIS REQUIRED MA. JAL

Date : 28 APR 2

Time : 0822

**Req**(**B)**(3), (b)(6), (b)(7)c

NIIN

Page :1 of 1

Sys Reason :L PEN DAMP HEATERS

Part Number

QTY Proj PRI Ordered DDSN

<u>Date</u> <u>Status</u> 13 MAR 2022 1948 073COMPL

NO 97499 901-311-205-107

3 AK7 02 13 MAR 2022 1729 2072GC20 SLIP RING PENDULUM SFI: 62, 209, 11 PAOZZ

Reference

ENCLOSURE

セク)

MCN : 28T0883 JCN : FC3067674

MODEX : 14

Sys Reason: L PEN DAMP HEATERS

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0822

Req(B)(3), (b)(6), (b)(7)c

Page : 1 of 2

#### **Job Status**

Job Status	Date <u>Time</u>	EOC
МЗ	08 MAR 2022 0047	1
M4	08 MAR 2022 0141	1
мз	08 MAR 2022 0557	1
IW	08 MAR 2022 1600	l
МЗ	08 MAR 2022 1645	ı
M7	08 MAR 2022 2203	1
мз	09 MAR 2022 2318	1
M4	10 MAR 2022 0212	1
МЗ	10 MAR 2022 1141	i
M7	10 MAR 2022 1359	1
мз	10 MAR 2022 2259	1
M4	11 MAR 2022 2354	1
МЗ	13 MAR 2022 0804	ı
WP	13 MAR 2022 1729	1
<i>y</i>	13 MAR 2022 1949	l
	14 MAR 2022 0700	I
МЗ	14 MAR 2022 1401	1
M4	15 MAR 2022 0240	ļ
МЗ	15 MAR 2022 0807	i
M7	15 MAR 2022 0853	1
МЗ	16 MAR 2022 0236	1
M4	16 MAR 2022 0237	1
МЗ	16 MAR 2022 0913	1
M7	16 MAR 2022 1006	l
МЗ	16 MAR 2022 1009	1
M4	17 MAR 2022 0435	I
МЗ	17 MAR 2022 1137	ſ
M7	17 MAR 2022 1138	I
МЗ	17 MAR 2022 2335	1
M4	18 MAR 2022 0141	1
МЗ	18 MAR 2022 0919	[
M7	18 MAR 2022 0920	l
МЗ	23 MAR 2022 1259	1
M4	23 MAR 2022 2200	ŧ
1	25 MAR 2022 1457	1
	25 MAR 2022 1759	1
МЗ	26 MAR 2022 0852	1

		Start	End	
<u>Name</u>	<u>Toolbox</u>	<u>Date</u>	<u>Date</u>	CDI
	CDISUP	08 MAR 2022 1600	08 MAR 2022 1644	
(b)(c) (b)(7)o	200-4-1	08 MAR 2022 1640	08 MAR 2022 1644	.) (1) (2) (1) (2)
(b)(6), (b)(7)c	CR-15	14 MAR 2022 0700	14 MAR 2022 1400	3), (b)(6), (b)(7)c
	200-3-1	14 MAR 2022 0700	14 MAR 2022 1400	

MCN : 2810883 : FC3067674 JCN

MODEX : 14

Sys Reason: L PEN DAMP HEATERS

### **NALCOMIS OMA** Job Status / Worker Hours

Date : 28 APR 2022

Time : 0822

Req (8)(3), (b)(6), (b)(7)c

Page: 2 of 2

#### Job Status

Job	Date	
<u>Status</u>	<u>Time</u>	EOC
M4	27 MAR 2022 1905	I
МЗ	28 MAR 2022 0858	ı
M4	28 MAR 2022 1855	1
МЗ	29 MAR 2022 1124	1
M4	29 MAR 2022 1907	I
МЗ	30 MAR 2022 0948	1
M4	30 MAR 2022 1634	1
МЗ	31 MAR 2022 0829	1
M7	09 APR 2022 0851	I
МЗ	18 APR 2022 0651	1
M4	21 APR 2022 1602	I
МЗ	22 APR 2022 0618	I
M4	25 APR 2022 0104	1
МЗ	25 APR 2022 0606	I
M4.	25 APR 2022 2359	I
	26 APR 2022 0610	ı
Ni+	27 APR 2022 0115	1
МЗ	27 APR 2022 0600	ı
M4	28 APR 2022 0104	1
МЗ	28 APR 2022 0557	1

<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>	CDI

<u>MCN</u> : 28T0883 <u>JCN</u> : FC3067674

MODEX : 14

Syc-Reason : L PEN DAMP HEATERS

NALCOMIS OMA

QAR/CDI In Process Inspection

Date : 28 APR 2022

Time : 0822

**Req(B)**(3), (b)(6), (b)(7)c

Page :1 of 1

**Description** 

FOD FREED AND CLOSED LEFT HAND SPINNER DOME. WIT'D TQ OF 80 IN-LBS ON SPINNER DOME SCREWS.

<u>Rank</u>

<u>Name</u>

(b)(3), (b)(6), (b)(7)c

<u>DateTime</u>

אר ש88C	JCN FC3	l 1067681	Tyl	oe WO	Org Code FC3	Modex 14	Bund 1683	o/Serno		Assy Cd AYNE	- 1		- 1		- 1		1		Work Cen		CF Re	4	QA Req N
Intrm Cd	Code		i		Rev Ltr	14			Amend		<b>└</b>	art	1 1		Kit No								
Turn-In Doc		VUC/UNS				Trans	M/L	Item Pr	rocess	Action Ta	aken	Mal Code		Code	1								
	62	221130333 REMOVI	-D/OL	D ITEM		11	1	1		INICT	ALLE	D/NEW IT	H		В								
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Part Numbe	er			<b>I</b>	emoved		Par	t Number	ır			- 1	Date Insta										
Man Hrs		Elapsed Hrs		Received		EOC	In W		. 4500	EC.	- 1	Completed			/O Status C								
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L SPINNEF	R TEMP		E 10											7)c									
L SPINNEF	R TEMP		E 10											7)c									
	R TEMP		E 10											7)c									

<u>MCN</u> :28T088B <u>JCN</u> : FC3067681

MODEX : 14 Syn-Reason : L SPINNER TEMP SNSR

**NALCOMIS OMA QAR/CDI In Process Inspection** 

Date : 28 APR 2022

Time : 0822

Req(B)(3), (b)(6), (b)(7)c

Page :1 of 1

Description

FOD FREED AND WIT INSTALL OF LH SPINNER DOME. SCREWS TQ TO 80IN/LBS.

**Rank** 

<u>Name</u>

(b)(3), (b)(6), (b)(7)c

<u>DateTime</u>

JCN : 2810888

MODEX: 14

Sys Reason: L SPINNER TEMP SNSR

### NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0822

Req (3)(3), (b)(6), (b)(7)c

<u>CDI</u>

Page: 1 of 2

#### Job Status

	our otatao	
Job Status	Date Time	EOC
	08 MAR 2022 0110	
	08 MAR 2022 0141	i
мз	08 MAR 2022 0557	1
M7	08 MAR 2022 2203	ı
МЗ	09 MAR 2022 2318	ı
M4	10 MAR 2022 0212	Į.
МЗ	10 MAR 2022 1141	į.
M7	10 MAR 2022 1359	ŀ
МЗ	10 MAR 2022 2259	ı
M4	11 MAR 2022 2354	ı
МЗ	13 MAR 2022 0804	I
IW	13 MAR 2022 1823	1
МЗ	13 MAR 2022 1826	1
M7	13 MAR 2022 2048	1
M2	13 MAR 2022 2348	1
	14 MAR 2022 0155	1
МЗ	14 MAR 2022 1432	1
M4	15 MAR 2022 0240	I
МЗ	15 MAR 2022 0807	i
M7	15 MAR 2022 0853	1
МЗ	16 MAR 2022 0236	1
M4	16 MAR 2022 0237	I
МЗ	16 MAR 2022 0913	I
M7	16 MAR 2022 1006	I
МЗ	16 MAR 2022 1009	1
M4	17 MAR 2022 0435	1
МЗ	17 MAR 2022 1137	I
M7	17 MAR 2022 1138	ı
МЗ	17 MAR 2022 2335	I
M4	18 MAR 2022 0141	1
МЗ	18 MAR 2022 0919	I
M7	18 MAR 2022 0920	I
M3	23 MAR 2022 1259	I
M4	23 MAR 2022 2200	I
	25 MAR 2022 1457	1
146	25 MAR 2022 1759	
МЗ	26 MAR 2022 0852	1

	W	orker Hours	
<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>
(b)(3), (b)(6), (b)(7)c	CDISUP	13 MAR 2022 1823	13 MAR 2022 1825

MUN : 2810888 JCN : FC3067681

MODEX : 14

Sys Reason: L SPINNER TEMP SNSR

## **NALCOMIS OMA** Job Status / Worker Hours

Date : 28 APR 2022

Time : 0822

Re(b)(B)(1:0w, (b)(6), (b)(7)c

<u>CDI</u>

Page : 2 of 2

End

<u>Date</u>

#### **Job Status**

МЗ 28 APR 2022 0557

### **Worker Hours**

Start

<u>Date</u>

Job	Date			
<u>Status</u>	<u>Time</u>	<u>EOC</u>	<u>Name</u>	<u>Toolbox</u>
M4	27 MAR 2022 1905	l		
МЗ	28 MAR 2022 0858	1		
M4	28 MAR 2022 1855	1		
МЗ	29 MAR 2022 1124	1		
M4	29 MAR 2022 1907	1		
МЗ	30 MAR 2022 0948	1		
M4	30 MAR 2022 1634	1		
МЗ	31 MAR 2022 0829	I		
M7	09 APR 2022 0851	1		
МЗ	18 APR 2022 0651	l		
M4	21 APR 2022 1602	1		
МЗ	22 APR 2022 0618	1		
M4	25 APR 2022 0104	1		
МЗ	25 APR 2022 0606	I		
M4	25 APR 2022 2359	1		
(	26 APR 2022 0610	1		
Nim	27 APR 2022 0115	ı		
МЗ	27 APR 2022 0600	1		
M4	28 APR 2022 0104	1		
DAG.	28 ADD 2022 0557	1		

<u>MCN</u> : 28T088B <u>JCN</u> : FC3067681

MODEX

S Reason : L SPINNER TEMP SNSR

**NALCOMIS OMA QAR/CDI In Process Inspection** 

Date : 28 APR 2022

Time : 0822

**Rea** (B)(3), (b)(6), (b)(7)c

Page :1 of 1

**Description** 

FOD FREED AND WIT INSTALL OF LH SPINNER DOME. SCREWS TQ TO 80IN/LBS.

<u>Rank</u>

<u>Name</u>

(b)(3), (b)(6), (b)(7)c

<u>DateTime</u>

3888	JCN FC306	67679	Тур ОМ	e WO	Org Code FC3	Мо <b>1</b> 4	odex 1	Buno 1683	/Serno		Assy Cd AYNE	W 200	ork Center	r CF N	Req	QA Req N
Intrm Cd	Code	Basic No	D.141		Rev Ltr	1 "		1000		Amend		Part		1 14		Kit No
Turn-In Doc	i i	JC/UNS				Tra	ans	M/L	ltem F	rocess	Action 7	aken	Mal Code	<b>→</b> D	isc Cod	e Type Main
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		REMOVED/	OLD	ITEM							INS <sup>-</sup>	ΓALLE	D/NEW IT	EM		
Cage				Serial N	lumber			Cag	je					Serial	Number	•
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					(H-Z) Fa	ailed/	'Requir	ed Mate	erial	-						
ndex F/P	√T MAI	L Cage	Part	Number	QT	ΥP	PROJ	PRI	Date O	RD	DDSN	ļ	Date R	CVD		NOMEN
DISCREPA		SNSR 2 F(P)									-			IATOF 3), (b)((	R 6), (b)(7	)c
DISCREPA R SPINNEF		SNSR 2 F(P)									-					)c
DISCREPA		SNSR 2 F(P)									-					)c
DISCREPA	RTEMP										-					)c
DISCREPA R SPINNER	RTEMP										-					)c
DISCREPA R SPINNEF	RTEMP										-					)c

MCN : 28T0888 JCN : FC3067679

MODEX:14

son: R SPINNER TEMP SNSR 2

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0821

**Req(19)(**3), (b)(6), (b)(7)c

Page : 1 of 2

#### Job Status

	Job Status	
Job Status	Date <u>Time</u>	EOC
МЗ	08 MAR 2022 0104	ı
M4	08 MAR 2022 0141	ı
мз	08 MAR 2022 0557	1
M7	08 MAR 2022 2203	1
МЗ	09 MAR 2022 2318	l
M4	10 MAR 2022 0212	ļ
МЗ	10 MAR 2022 1141	1
M7	10 MAR 2022 1359	l
МЗ	10 MAR 2022 2259	ł
M4	11 MAR 2022 2354	I
МЗ	13 MAR 2022 0804	1
IW	13 MAR 2022 1800	I
МЗ	13 MAR 2022 1802	1
(	13 MAR 2022 2048	1
	13 MAR 2022 2348	1
M4	14 MAR 2022 0155	l
МЗ	14 MAR 2022 1432	I
M4	15 MAR 2022 0240	1
М3	15 MAR 2022 0807	1
M7	15 MAR 2022 0853	ļ
МЗ	16 MAR 2022 0236	I
M4	16 MAR 2022 0237	1
МЗ	16 MAR 2022 0913	1
M7	16 MAR 2022 1006	I
МЗ	16 MAR 2022 1009	I
M4	17 MAR 2022 0435	1
МЗ	17 MAR 2022 1137	Į
<b>M</b> 7	17 MAR 2022 1138	1
M3	17 MAR 2022 2335	1
M4	18 MAR 2022 0141	I
МЗ	18 MAR 2022 0919	I
<b>M</b> 7	18 MAR 2022 0920	1
M3	23 MAR 2022 1259	I
	23 MAR 2022 2200	1
Ivio:	25 MAR 2022 1457	1
M4	25 MAR 2022 1759	1
MЗ	26 MAR 2022 0852	l

	W	orker Hours		
<u>Name</u>	Toolbox	Start <u>Date</u>	End <u>Date</u>	<u>CDI</u>
(b)(3), (b)(6), (b)(7)c	CDISUP	13 MAR 2022 1800	13 MAR 2022 1801	

##CN : 2010888 JCN : FC3067679

MODEX: 14

Sys Reason: R SPINNER TEMP SNSR 2

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0821

Req (3), (b)(6), (b)(7)c

Page: 2 of 2

#### **Job Status**

Job	Date	
<u>Status</u>	<u>Time</u>	EOC
M4	27 MAR 2022 1905	1
МЗ	28 MAR 2022 0858	1
M4	28 MAR 2022 1855	1
МЗ	29 MAR 2022 1124	1
M4	29 MAR 2022 1907	1
МЗ	30 MAR 2022 0948	1
M4	30 MAR 2022 1634	1
МЗ	31 MAR 2022 0829	1
M7	09 APR 2022 0851	1
МЗ	18 APR 2022 0651	1
M4	21 APR 2022 1602	1
МЗ	22 APR 2022 0618	1
M4	25 APR 2022 0104	1
МЗ	25 APR 2022 0606	ı
M4	25 APR 2022 2359	1
(	26 APR 2022 0610	1
lum	27 APR 2022 0115	1
МЗ	27 APR 2022 0600	1
M4	28 APR 2022 0104	1
мз	28 APR 2022 0557	1

<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>	<u>CDi</u>

MCN : 28T0888 JCN : FC3067679

MODEX : 14

Smagason: R SPINNER TEMP SNSR 2

NALCOMIS OMA

QAR/CDI In Process Inspection

Date : 28 APR 2022

Time : 0821

Req (3), (b)(6), (b)(7)c

Page : 1 of 1

**Description** 

FOD FREED AND WIT INSTALL OF RH SPINNER DOME. PANEL SCREWS TQ TO 80IN/LBS.

<u>Rank</u>

<u>Name</u>

(b)(3), (b)(6), (b)(7)c

**DateTime** 

Received	Date:	18 MAR 202	2 0044 Completion Date: 18 MAR 2022 0925 Maint Cntl Sig:(	b)(3), (b)(6), (b	)(7)c (b)(3), (b)(6), (b)(7)c
Card No	Wc Cd 310	Tool <u>Box #</u> 6-9	Discrepancy NONE ON 20220318 @ 0042 PEMA 92007	Corrected	Signature
12	310	6-9	FUEL SAMPLES TAKEN FROM PORTS 1,2,3,4,5,6 ALL PASSED. NONE ON 20220318 @ 0042 PEMA 92007	,  	
13	310	6-9	NONE ON 20220318 @ 0042 PEMA 92007	}	
14	310	6-9		\$	
15	310	6-9		, , , , , , , , , , , , , , , , , , ,	
16	310	6-9		1.	
17	310	6-9		1	
18	310	6-9			(b)(3), (b)(6), (b)(7)c
)9	310	6-9		and fore	
0	310	6-9	·	(1° • • • • • • • • • • • • • • • • • • •	
1	310	6-9		(	
2	310	6-9			
13	310	6-9			
14	310	6-9			
15	310				
λΤΑF	310	6-9	NONE ON 20220318 @ 0042 PEMA 92007	, an ~ } }.	

P ∼ vei	d Date:	18 MAR 2022 0042	Completion Date:	18 MAR 2022 0925	Maint Cntl Sig:(b)(3), (b)(6),	(b)(7)c
Card No	We Cd	Tool Box#	Die	screpancy	Correcte	Worker d Signature
09.1	310	6-9				
09.2	310	6-9			ſ. ·	
10	310	6-9			(	
11	310	6-9			**************************************	
12	310	6-9			1	
12.1	310	6-9			To the second	
12.2	310	6-9			<b>.</b> .	
12.3	310	6-9			) 1	
12.4	310	6-9			) 1	(b)(3), (b)(6), (b)(7)c
12.5	310	6-9			_ {	
12.6	310	6-9				
12.7	310	6-9			e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l	
13	310	6-9			jange Š	
13,1	310	6-9			er er-	
13.2	310	6-9			Ĺ	
13.3	310	6-9			(	
	310	6-9			C.	

ENCLOSURE

QCL By Person (Accreditations/Duties/Billets)



Snapshot: 18-Apr-22 5:15

Date Printed: 22-Apr-22

Report generated by: (b)(3), (b)(6), (b)(7)c

UIC: <ALL>
Program: <ALL>
Show Tests: No

This Report is based on a database Snapshot. Data in this report will be delayed. Please see snapshot date.

Controlled by: NUWC Keyport

Controlled by: NUWC Keyport C414

CUI Category: PRVCY Distribution Statement: D

POC: ASM Helpdesk 360-315-7450

ENCLOSURE

# QCL By Person (Accreditations/Duties/Billets)

Organization Structure: MARINE AVIATION - TECOM - COMMARFORCOM - 2ND MAW - MAG-26 - VMM-261

Snapshot: 18-Apr-22 5:15

Title	Effective Date	QCL/Med Date		Granted Manually	Expired Expiring	Days To Expiration	In Progress
MARINE AVIATION - TECOM - COMMARFORCOM - 2ND MAW - MAG-26 - V	MM-261 - MAIN	IT DEPT - FLIGH	IT LINE	C			
WALLACE, SPENCER L CPL (OH 09Sep24)							
CERTIFICATION							
AIRCRAFT CONFINED SPACE PROGRAM (ACSP) AUTHORIZED ENTRANT (USMC)	01-Feb-21	01-Feb-21(G)					
AIRCRAFT CONFINED SPACE PROGRAM (ACSP) ENTRY SUPERVISOR (USMC)	13-Dec-21	13-Dec-21(G)					
AIRCRAFT CONFINED SPACE PROGRAM (ACSP) SAFETY OBSERVER (USMC)	13-Dec-21	13-Dec-21(G)					
MHE: CATEGORY 3 CRANE (NON-CAB OPERATED) (USMC)	03-Mar-22	03-Mar-25(E)	Х			1051	
LICENSE							07-Dec-21 3.8%
A/M24M-6 TRAILER MOUNTED ELECTRIC POWER PLANT (MV-22) (USMC)		IN PROGRESS	ı			1010	U7-Dec-21 3.6%
A/M32A-108, SHORE MOBILE ELECTRIC POWER PLANT (MV-22)	18-Aug-20	18-Aug-25(E)				1219	
A/M32M-40 SMALL CORROSION CONTROL CART (MV-22)	16-Jun-20	16-Jun-25(E)				1156	
A/M42M-2/2A PORTABLE FLOODLIGHT SET (MV-22)		IN PROGRESS	ı				17-Aug-20 98.19
A/S32A-45 MID-RANGE TOW TRACTOR (MV-22)	16-Jun-20	09-Sep-24(E)				876	
ACU-24/M PORTABLE AIR COMPRESSOR (MV-22)	13-Jul-20	13-Jul-25(E)				1183	
GHO-EAPS-1 (EAPS) WASH SYSTEM (V-22) (MC)	18-Aug-20	18-Aug-25(E)				1219	
HDU-43 PRE HEATER (V-22) (MC)		IN PROGRESS	i				17-Aug-20 98.19
NC-10A/B/C MOBILE ELECTRIC POWER PLANT (MV-22)	13-Jul-20	13-Jul-25(E)				1183	
MEDICALS						<b>-</b>	
PERIODIC HEALTH ASSESSMENT (PHA)	14-Aug-20	19-Dec-20(E)	Х		EXPIRED	485	
QUALIFICATION							
AIRCRAFT ENGINE/APU TURN-UP LICENSE (4790/192)(APU)(V-22)	14-Jun-21	14-Jun-22(E)			EXPIRING	58	
AIRCRAFT TOW DIRECTOR QUALIFICATION/CERTIFICATION (V-22) (MC)	21-Dec-20	21-Dec-20(G)					
AIRCRAFT TOW DRIVER QUALIFICATION/CERTIFICATION (V-22) (MC)	16-Sep-20	16-Sep-20(G)					
BLADE FOLD WING STOW QUAL (V-22) (MC)	17-Jul-20	17-Jul-20(G)					
BRAKE RIDER QUAL (V-22) (MC)	04-Jun-20	04-Jun-20(G)					

Report: QCLByPerson Date (b)(d), (b)(2)Apr-22 The Information after the person's name is Driver's License State and Expiration Date

If the QCL/Med is expired, it will have border around the Exp Date.

if the QCL/Med is expiring (i.e. today's date > notification date) there will be a value in Days to Expiration

\* Inactive Personnel

Page 2 of 3

## QCL By Person (Accreditations/Duties/Billets)

Snapshot: 18-Apr-22 5:15

Your complete record of maintenance training

Title	Effective Date	QCL/Med Date	Image Exists	Granted Manually	Expired Expiring	Days To Expiration	In Progress
IARINE AVIATION - TECOM - COMMARFORCOM - 2ND MAW - MAG-26 - VN WALLACE, SPENCER L CPL (OH 09Sep24) (Cont.) QUALIFICATION (Cont.)	1M-261 - MAIN	IT DEPT - FLIG	HT LINE	Ε			
CPR/AED QUALIFIED (USMC)	17-Mar-21	02-Feb-23(E)	Х			291	
EGRESS/EXPLOSIVES SYSTEMS CHECKOUT QUALIFICATION (MV-22)	30-Mar-22	30-Sep-22(E)				166	
EWIS NON-AVIONICS (TECOM) (MC)	26-Oct-21	26-Oct-22(E)	Х			192	
FUEL SURVEILLANCE PROGRAM QUAL (V-22) (MC)	11-Jun-20	11-Jun-20(G)					
PLANE CAPTAIN DESIGNATION (4790/158) (V-22) (USMC)	22-Mar-22	30-Sep-22(E)	х			166	
QUALITY ASSURANCE INSPECTOR DESIGNATION (4790/12)(CDI)(310)(V-22) (USMC)	10-Dec-21	10-Dec-21(G)	X				
THINGS FALLING OFF AIRCRAFT (TFOA) INDOCTRINATION	27-May-20	27-May-20(G)					
TRAINING: HAZCOM NON-SUPERVISOR (USMC)	13-Mar-22	13-Mar-23(E)				330	
TRAINING: NAMP INDOCTRINATION (USMC)	30-Jul-21	30-Jul-21(G)					
TRAINING: NAVOSH INITIAL (USMC)	11-Nov-21	11-Nov-21(G)					

#### Duty/Billet

SUPERVISOR (MC)

Report: QCLByPerson Date (b), (b)22)Apr-22 The information after the person's name is Driver's License State and Expiration Date If the QCL/Med is expired, it will have border around the Exp Date. If the QCL/Med is expiring (i.e. today's date > notification date) there will be a value in Days to Expiration \* Inactive Personnel

Page 3 of 3

√887	JCN FC30	067678	Тур Ом	e WO	Org Code FC3		lodex 4	Bunc 1683	/Serno 3ก		Assy Cd AYNE	200	ork Cente	er C	F Req	QA Req N
Intrm Cd	Code		Divi		Rev Ltr		4	1003	30	ATINE		art	<u> </u>	•	Kit No	
Turn-In Doc	l Tw	VUC/UNS			<u> </u>	Trans M/			Item F	Action Ta	aken	Mal Cod	le l	Disc Cod	le Type Mair	
		2220806					11	1							В	
		REMOVED	/OLD	ITEM							INST	ALLE	D/NEW I	TEM		
Cage				Serial N	Number			Cag	e		~			Seria	al Numbe	r
Part Numbe			Part	t Numb	er				Date 00	Installed						
Man Hrs		Elapsed Hrs	Received		- 1	EOC	In Wo			EC	- 1	Complete			WO Status C	
2.0 Meter	08 MAR 2 Safety El	2022 0101 Posit	,	l Fid	14 M	AR 202 I	2 1901		-	0000 eason	0 000	0	P			
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			-		(H-Z) F	ailed	l/Requi	red Mate	rial							
Index F/PA	√T M/	IAL Cage	Part	Number	QT	Υ	PROJ	PRI	Date O	RD	DDSN		Date F	RCVD		NOMEN
e e e e e e e e e e e e e e e e e e e																
		ATERS F(P)												TIATC , (b)(6	DR ), (b)(7)c	
DISCREPAI R PEN DAM		ATERS F(P)														
	MP HE															
R PEN DAN	MP HE															

MCN : 28T0887

JCN : FC3067678

MODEX : 14

Syn-Reason : R PEN DAMP HEATERS

NALCOMIS OMA

QAR/CDI In Process Inspection

Date : 28 APR 2022

Time : 0821

**Req**(**B**)(3), (b)(6), (b)(7)c

Page : 1 of 1

Description

FOD FREED AND CLOSED RH SPINNER DOME. WIT'D TQ OF 80 IN-LBS ON SPINNER DOME SCREWS. AFF

<u>Rank</u>

<u>Name</u>

(b)(3), (b)(6), (b)(7)c

**DateTime** 

MCN : 2810887 JCN : FC3067678

MODEX : 14

Sys Reason: R PEN DAMP HEATERS

NALCOMIS OMA

Job Status / Worker Hours

Date : 28 APR 2022

Time : 0821

Req (By(3), (b)(6), (b)(7)c

(b)(6), (b)(7)c

Page :1 of 2

#### **Job Status**

Job <u>Status</u>	Date Time	EOC
	08 MAR 2022 0101	1
	08 MAR 2022 0141	\ 
	08 MAR 2022 0557	1
	08 MAR 2022 2203	·
	09 MAR 2022 2318	
M4	10 MAR 2022 0212	i
	10 MAR 2022 1141	
M7	10 MAR 2022 1359	I
	10 MAR 2022 2259	i
	11 MAR 2022 2354	-
МЗ	13 MAR 2022 0804	E
M7	13 MAR 2022 2048	1
	13 MAR 2022 2348	1
M4	14 MAR 2022 0155	I
M2	14 MAR 2022 1432	1
(	14 MAR 2022 1901	Ţ
МЗ	14 MAR 2022 2001	ı
	15 MAR 2022 0240	1
МЗ	15 MAR 2022 0807	1
M7	15 MAR 2022 0853	1
мз	16 MAR 2022 0236	1
M4	16 MAR 2022 0237	1
МЗ	16 MAR 2022 0913	1
M7	16 MAR 2022 1006	1
МЗ	16 MAR 2022 1009	l
M4	17 MAR 2022 0435	1
МЗ	17 MAR 2022 1137	1
M7	17 MAR 2022 1138	l
МЗ	17 MAR 2022 2335	I
M4	18 MAR 2022 0141	1
МЗ	18 MAR 2022 0919	1
M7	18 MAR 2022 0920	İ
МЗ	23 MAR 2022 1259	ŀ
М4	23 MAR 2022 2200	1
	25 MAR 2022 1457	1
	25 MAR 2022 1759	I
МЗ	26 MAR 2022 0852	!

	W	orker Hours		
<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>	<u>CDI</u>
(h)(a) (h)(c) (h)(7)-	CDISUP	14 MAR 2022 1901	14 MAR 2022 20	00
(b)(3), (b)(6), (b)(7)c	200-3-4	14 MAR 2022 1901	14 MAR 2022 20	<b>(b)</b> (3), (b)(

MCN : 2810887 JCN : FC3067678

MODEX: 14

Sys Reason: R PEN DAMP HEATERS

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0821

Req(B)(3), (b)(6), (b)(7)c

Page : 2 of 2

#### **Job Status**

Job	Date	
<u>Status</u>	<u>Time</u>	EOC
M4	27 MAR 2022 1905	I
МЗ	28 MAR 2022 0858	i
M4	28 MAR 2022 1855	ı
МЗ	29 MAR 2022 1124	I
M4	29 MAR 2022 1907	1
МЗ	30 MAR 2022 0948	I
M4	30 MAR 2022 1634	1
МЗ	31 MAR 2022 0829	1
M7	09 APR 2022 0851	ı
МЗ	18 APR 2022 0651	I
M4	21 APR 2022 1602	1
МЗ	22 APR 2022 0618	1
M4	25 APR 2022 0104	I
МЗ	25 APR 2022 0606	1
M4	25 APR 2022 2359	1
(	26 APR 2022 0610	ı
lv	27 APR 2022 0115	!
МЗ	27 APR 2022 0600	1
M4	28 APR 2022 0104	1
МЗ	28 APR 2022 0557	1

<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>	<u>CDI</u>
			·	

<u>MCN</u> :28T0887 <u>JCN</u> :FC3067678

MODEX

Sy-Reason: R PEN DAMP HEATERS

**NALCOMIS OMA QAR/CDI in Process Inspection** 

Date : 28 APR 2022

Time : 0821

Req(B)(3), (b)(6), (b)(7)c

Page :1 of 1

**Description** 

FOD FREED AND CLOSED RH SPINNER DOME. WIT'D TQ OF 80 IN-LBS ON SPINNER DOME SCREWS. AFF

Rank

<u>Name</u>

(b)(3), (b)(6), (b)(7)c

<u>DateTime</u>

28 APR 2022 Full ORG Name: VMM261

# NALCOM. JMA AIRCRAFT/EQUIPMENT WORKLOAD REPORT

DATE : 28 APR 2022

TIME : 0812

**REQ BY:** (b)(3), , (b)(6), (b)(7)c

PAGE: 1 of 4

Work <u>Center</u>	Assy <u>Cd</u>	MODEX	BUNO/ Serno	Maint <u>Level</u>		<u>JCN</u>	Acft/ Equip <u>Stat</u>	Job <u>Stat</u>	EOC	WUC/UNS	System <u>Reason</u>	DDSN	Proj <u>Code</u>		Received <u>Date</u>
021	AYNE	14	168330	1	28QTABN	FC3011098	U	M3		1000000	AFC-0289/DNLT/PHSD/1907				
					28QT7J8	FC3321011	U	M3		1000000	AFC-239/NLT 30JUN24				
					28QT7LU	FC3323085	U	МЗ		1000000	AFC-0272 DNLT 31 MAY 20: 1	3234030	AK1	323COMPL	19 NOV 202
							U	МЗ		1000000	AFC-0272 DNLT 31 MAY 20: 1	3234029	AK1	323COMPL	19 NOV 202
					28QT8X2	FC3344302	U	МЗ		1000000	AFB-0195 DNLT AF 1767.7				
					28QT9DB	FC3354175	U	МЗ		252005	ACC-0771 RE IN ABEYANC				
					28QT9DC	FC3354176	U	МЗ		252007	ACC-0771 RE IN ABEYANC				
					28QT9DD	FC3354177	U	МЗ		252009	ACC-0771 RE IN ABEYANC				
					28QT9DE	FC3354178	U	МЗ		252011	ACC-0771 RE IN ABEYANC				
					28QT9DF	FC3354179	U	МЗ		252013	ACC-0771 RE IN ABEYANC				
					28QT9DG	FC3354180	U	МЗ		252015	ACC-0771 RE IN ABEYANC				
					28QT9DH	FC3354181	U	МЗ		252017	ACC-0771 RE IN ABEYANC				
					28QT9DI	FC3354182	U	МЗ		252019	ACC-0771 RE IN ABEYANC				
					28QT9DJ	FC3354183	U	МЗ		252021	ACC-0771 RE IN ABEYANC				
					28QT9DK	FC3354184	U	МЗ		252023	ACC-0771 RE IN ABEYANC				
					28QT9DL	FC3354185	U	МЗ		252025	ACC-0771 RE IN ABEYANC				
					28QT9DM	FC3354186	U	МЗ		252002	ACC-0771 RE IN ABEYANC				
Ħ					28QT9DN	FC3354187	U	МЗ		252004	ACC-0771 RE IN ABEYANC				
NC.					28QT9DO	FC3354188	U	МЗ		252006	ACC-0771 RE IN ABEYANC				
ENCLOSURE					28QT9DP	FC3354189	U	МЗ		252008	ACC-0771 RE IN ABEYANC				
URJ					28QT9DQ	FC3354190	U	МЗ		252010	ACC-0771 RE IN ABEYANC				
[A]					28QT9DR	FC3354191	U	МЗ		252012	ACC-0771 RE IN ABEYANC				
(50					28QT9DS	FC3354192	U	МЗ		252014	ACC-0771 RE IN ABEYANC				

FOR-OFFICIAL-USE-ONLY-

28 APR 2022 1

ORG Name: VMM261

# NALCOM. JMA AIRCRAFT/EQUIPMENT WORKLOAD REPORT

DATE : 28 APR 2022

TIME : 0812

**REQ BY:** (b)(3), (b)(6), (b)(7)c

PAGE : 2 of 4

Work <u>Center</u>	•	MODEX	BUNO/ Serno	Maint <u>Level</u>	MCN	<u>JCN</u>	Acft/ Equip <u>Stat</u>	Job <u>Stat</u>	<u>EOC</u>	<u>wuc/uns</u>	System <u>Reason</u>	DDSN	Proj <u>Code</u>	Supply <u>Status</u>	Received <u>Date</u>
021	AYNE	14	168330	1	28QT9DT	FC3354193	U	МЗ		252016	ACC-0771 RE IN ABEYANC				
					28QT9DU	FC3354194	U	М3		252020	ACC-0771 RE IN ABEYANC				
					28QT9DV	FC3354195	U	МЗ		252022	ACC-0771 RE IN ABEYANC				
					28QT9DW	FC3354196	U	М3		252024	ACC-0771 RE IN ABEYANC				
					28QT9DX	FC3354197	U	МЗ		252001	ACC-0771 RE IN ABEYANC				
					28QT9DY	FC3354198	U	М3		252003	ACC-0771 RE IN ABEYANC				
					28QT9I3	FC3356328	U	М3		1000000	AFC-0256RE/SCHD/31MAY:				
120	AYNE	14	168330	1	28QTAC9	FC3012114	Р	M3	F	259102	AFT CARGO SCREW HAND				
					28QT7KX	FC3322059	U	МЗ		57	RH OB VORTEX GEN REM	13434068	AK1 3	343COMPL	09 DEC 202
					28QT7L9	FC3323067	U	М3		255080	CARGO ROLLER RAILS				
					28QT7LV	FC3323086	U	M3		1000000	AFC-0287 DNLT PHS 1907.	13234031	AK1 3	35COMPL	01 DEC 202 <sup>-</sup>
					28QT7Q7	FC3326231	U	М3		542115	WORN RIVETS				
12C	AYNE	14	168330	1	28QT7LQ	FC3323084	U	МЗ		1000000	MODEX AIRCRAFT				
200	AYNE	14	168330	1	28QT9Q6	FC3004582	Р	МЗ	I	621105	LEFT WHITE BLD TEMP SN				
			,		28QT9Q8	FC3004595	U	МЗ		219001	ECS PROP VLV F(T)				
					28QTB1D	FC3026285	U	М3		461102	ASC-0123/DNLT/60AFTERC				
					28QTB1E	FC3026286	U	М3		462101	ASC-0123/DNLT/60AFTERC				
년					28QTB1F	FC3026287	U	М3		463006	ASC-0123/DNLT/60AFTERC				
ÄCE					28QTB1G	FC3026288	U	МЗ		463007	ASC-0123/DNLT/60AFTERC				
,081					28QTB1H	FC3026289	U	МЗ		463010	ASC-0123/DNLT/60AFTERC				
ENCLOSURE					28QTB1I	FC3026290	U	МЗ		463011	ASC-0123/DNLT/60AFTERC				
					28QTB1 <b>J</b>	FC3026291	U	М3		463101	ASC-0123/DNLT/60AFTERC				
(50					28QTB1K	FC3026292	U	М3		463008	ASC-0123/DNLT/60AFTERC				
7								TAB	A EC	464 AI-HGE-GAH V					

FOR OFFICIAL USE ONLY

28 APR 2022

ORG Name: VMM261

# NALCOM MA AIRCRAFT/EQUIPMENT WORKLOAD REPORT

DATE : 28 APR 2022

TIME : 0812

REQ BY (b)(3), (b)(6), (b)(7)c

PAGE:3 of 4

Work <u>Center</u>	Assy <u>Cd</u>	MODEX	BUNO/ Serno	Maint <u>Level</u>		<u>JCN</u>	Acft/ Equip <u>Stat</u>	Job <u>Stat</u>	EOC	<u>wuc/uns</u>	System <u>Reason</u>	<u>DDSN</u>	Proj <u>Code</u>	Supply <u>Status</u>	Received <u>Date</u>
200	AYNE	14	168330	1	28QTB1L	FC3026293	U	МЗ		461101	ASC-0123/DNLT/60AFTERC				
					28T080Y	FC3060637	Р	МЗ	J	193005	AVSS				
					28T0810	FC3060638	Р	МЗ	Н	785206	R COANDA BLEED VALVE				
					28T0880	FC3067671	Р	МЗ	1	621103	L GRN BLD DEICE ZONE 3				
					28T0881	FC3067672	Р	МЗ	1	621103	L GRN BLD FAIRING				
					28T0882	FC3067673	Р	МЗ	1	621105	L WHT BLD ZONE 1-8 F(P)	2072GC19	AK7 0	80COMPL	21 MAR 202
					28T0883	FC3067674	Р	МЗ	1	62210713	L PEN DAMP HEATERS	2072GC20	AK7 0	73COMPL	13 MAR 202
					28T0884	FC3067675	Р	МЗ	ı	621105	L WHT BLD PARTING STRI				
					28T0885	FC3067676	Р	МЗ	1	621101	L RED BLD TEMP SNSR				
					28T0886	FC3067677	P	МЗ	I	621103	L GRN BLD TEMP SNSR				
					28T0887	FC3067678	Р	МЗ	ı	62220806	R PEN DAMP HEATERS				
					28T0888	FC3067679	Р	мз	F	6222140434	R SPINNER TEMP SNSR 2				
					28T088A	FC3067680	Р	МЗ	I	621204	R GRN BLD TEMP SNSR				
			•		28T088B	FC3067681	Р	МЗ	j	6221130333	L SPINNER TEMP SNSR				
					28T08AJ	FC3069743	U	МЗ		435106	AFT CABIN STATION ICS				
					28QTCPG	FC3081330	U	МЗ		1000000	AFC-0256/DNLT/MAR/31/20				
					28QT7L1	FC3322063	U	WP		1000000	AFC-0236 DNLT 31DEC202:	13224014	ZO9 3	49BBNRP	
<b></b>							U	WP		1000000	AFC-0236 DNLT 31DEC202:	13224013	AK1 0	20COMPL	20 JAN 2022
ENCI					28QT7TQ	FC3328345	Р	мз	J	344401	WX RADAR INOP				

28 APR 2022

FOR MODEX: 14

ORG Name: VMM261

NALCOM. JMA
AIRCRAFT/EQUIPMENT WORKLOAD REPORT

DATE : 28 APR 2022

TIME : 0812

**REQ BY** (b)(3), (b)(6), (b)(7)c

PAGE: 4 of 4

Acft/

AWP: 1

Equip Job System Proj Supply Received Work Assy BUNO/ Maint EOC WUC/UNS Cd MODEX Serno Level MCN <u>JCN</u> Stat <u>Stat</u> Reason **DDSN** Code **Status** Date Center МЗ 2190AH33 BYPASS INDICATOR RUBE 310 AYNE 168330 28QTAC6 FC3012113 U 14

IW: 0

\*\* TOTAL Work Orders: 64

Work Orders: 64

TOTAL AWP: 1

TOTAL AWM: 63

AWM: 63

TOTAL IW: 0

TOTAL RQN'S: 8

RQN's: 8

N N	JCN			e WO	Org Code			o/Serno	Assy		ork Cente	- 1	F Req	QA Req
J8E9 ntrm Cd	FC30 Code	076656 Basic	DM No	1	FC3 Rev Ltr	14	1683	Amen	4 AYNE		90 Part	N	l	N  Kit No
	0000		, 140		Tiov Eu			Amen	<b>-</b>		ı ait			Tall 140
urn-In Doc	W	VUC/UNS				Trans	M/L	Item Proces	s Acti	on Taken	Mal Cod	е	Disc Co	de Type Mair
	26	52002				23	1	1	R		295		Н	В
		REMO'	VED/OLI	) ITEM					١	NSTALLI	ED/NEW I	TEM		
Cage					Number		Cag						al Numbe	er .
D6535         EN0034713         06535         EN0025497           Part Number         Date Removed         Part Number         Date Installed					-1									
132-008														
Man Hrs		Elapsed H	Irs	Receive		EOC	In W			EOC	Complete			WO Status C
0.2		0.2		17 MAF	2022 2333	z	17 M	AR 2022 2337	7	z	18 MAR 2		0057	D
Meter		In Process	Insp	Safety E		Fid	Tech			System F			•	
		N			AF	ailed/Requi			R/R f	IRE EX	INGUISH	ER		
en,														
DISCREPAN	1CY											TIATC	DR (6), (b)(7	)c
		SHER WAS	USED T	O PUT O	UT GRASS F	FIRE								)c
FIRE EXTIN	GUIS VE AC	СТІОМ			Million and			NO DENA CO	400.475		(b)(3			)c
FIRE EXTIN	GUIS VE AC	СТІОМ			Million and		2620 US	NG PEMA 92	186 ATA	AF APAF	(b)(3			)c
CORRECTION CANNIBALI	GUIS VE AC ZED (	CTION (BUNO: 166			Million and	MS SSS: 2	2620 US	NG PEMA 92		AF APAF	(b)(3			)c

MCN :28 ÷FĊ, JCN 56

**NALCOMIS** REQUIRED MAI\_AIAL

Date :28 APR

Time : 0817 **Req** (3), (b)(6), (b)(7)c

Page :1 of 1

MODEX : 14

Sys Reason: R/R FIRE EXTINGUISHER

NIIN Reference <u>Status</u> Part Number QTY Proj PRI Ordered <u>DDSN</u> Date RPBL Cage 1 AKC 02 17 MAR 2022 2348 2076GC63 EXTINGUISHER, ASSY FIRE, IETMS SSS 26 FIGURE 205 18 MAR 2022 0001 077CANNB

NO 06535 132-008

ENCLOSURE

MCN : 28T08E9
JCN : FC3076656

MODEX: 14

Sympeason: R/R FIRE EXTINGUISHER

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0817

Req (3), (b)(6), (b)(7)c

Page : 1 of 1

### **Job Status**

Job <u>Status</u>	Date <u>Time</u>	EOC
МЗ	17 MAR 2022 2333	Z
IW	17 MAR 2022 2337	Z
WP	17 MAR 2022 2348	Z
МЗ	17 MAR 2022 2348	Z
JC	18 MAR 2022 0057	z

		Start	End		
<u>Name</u>	<u>Toolbox</u>	<u>Date</u>	<u>Date</u>	<u>CDI</u>	
(b)(3), (b)(6), (b)(7)c	92186	17 MAR 2022 2337	17 MAR 2022 23	14B)(3), (b)(6), (l	b)(7)

											FOR						
N ,8E8	l	ON C3076	6655	Type DM	WO	Org Code FC3	Modex 14	Bunc 1683	Serno	l.	Assy Co	1 W	ork Cente	r C	CF Req	\ \ \ \	QA Req
Intrm Cd	$\vdash$	ode	Basic No	DIVI		Rev Ltr	14	1000		Amend		<del></del>	Part	1.		٠,	(it No
Turn-in Doc	1		C/UNS				Trans	M/L	Item F	Process	Action	 Taken	Mal Code	- 1	Disc Co	- 1	Type Main
,	_	2620					23	1	1		R		295		Н		В
			REMOVED	OLD	-						INS	STALLE	D/NEW IT				
Cage 06535		1			Serial N EN0034			Cag 065				Serial Number EN0033768					
Part Numbe	r				1	emoved 3 2022 235	7	1	t Numb	er	Date Installed 18 MAR 2022 0050				150		
Man Hrs		- 1	Elapsed Hrs	ı	Received		EOC	In Wo	ork			- 1	OC Completed WO Sta				O Status Co
0.1 Meter			n Process Insp	<del></del>	Safety El	2022 2332 Posit	Z Fid	Tech	AR 202	2 2333	-	stem F	eason		0056	D	
			N			FW (UZ) E	ailed/Requ	1.4-1.	1		R/R FIF	RE EXT	INGUISHE	R			
<del>_</del>																	
—.																	
DISCREPA	NC.	Y											INIT	TIATO	DR		
			ER WAS USE	D TO	PUT OU	Γ GRASS F	ine:								DR )(6), (b)(1	7)c	
			ER WAS USE	D TO	PUT OU	「GRASS F	FIRE									7)c	
			ER WAS USE	OT O	PUT OU	Γ GRASS F	FIRE									77)c	
			ER WAS USE	D TO	PUT OU	Γ GRASS F	FIRE									7)c	
			ER WAS USE	D TO	PUT OU	Γ GRASS F	FIRE									7)c	
FIRE EXTIN	JVE	JISHE						620 USI	NG PE	MA 9218	of ATAF	APAF /	(b)(3			7)c	
FIRE EXTIN	JVE	JISHE	ION					620 USI	NG PEI	MA 9218	36 ATAF	APAF A	(b)(3			7)c	
FIRE EXTIN	IGU IVE	ACTI D (BU	ION		: 28T08E		MS SSS: 2	620 USI	NG PE	MA 9218	36 ATAF		(b)(3			7)c	

MCN :287 JCN :F¢ 55

:14

MODEX

**NALCOMIS** REQUIRED MA. \_. (IAL

Date : 28 APR

Time : 0818

Req (B)(3), (b)(6), (b)(7)c

Page :1 of 1

Sys Reason: R/R FIRE EXTINGUISHER

Part Number <u>Status</u> <u>NIIN</u> Ordered DDSN Reference <u>Date</u> RPBL Cage QTY Proj PRI 1 AKC 02 17 MAR 2022 2346 2076GC62 EXTINGUISHER, ASSY FIRE, IETMS SSS 26 FIGURE 205 18 MAR 2022 0000 077CANNB

NO 06535 132-008

ENCLOSURE

MCN : 28T08E8
JCN : FC3076655

MODEX:1

Syc-Reason: R/R FIRE EXTINGUISHER

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0818

**Req**(**b**)**y**(3), (b)(6), (b)(7)c

Page :1 of 1

#### Job Status

Job	Date	
<u>Status</u>	<u>Time</u>	<u>EOC</u>
МЗ	17 MAR 2022 2332	Z
IW	17 MAR 2022 2333	Z
МЗ	17 MAR 2022 2337	Z
WP	17 MAR 2022 2346	Z
JC	18 MAR 2022 0056	Z

		Start	Ena		
<u>Name</u>	<u>Toolbox</u>	<u>Date</u>	<u>Date</u>	CDI	
(b)(3), (b)(6), (b)(7)c	92186	17 MAR 2022 2333	17 MAR 2022 23	3 <b>(35)</b> (3), (b)(6),	(b)(7)c

∕8EH		C307766	61	Type DM	e WO	Org Code FC3	Modex 14	Bund 1683	o/Serno		Assy Cd AYNE	310	ork Cente	er C	F Req	QA Req N
ntrm Cd	+-	ode	Basic No			Rev Ltr	IT	1		mend		-	art	<u> </u>	<u> </u>	Kit No
urn-In Doo	1	WUC/U	JNS				Trans	M/L 1	Item Pro	cess	Action Ta	aken	Mal Cod		Disc Cod	de Type Mair B
		F	REMOVED/	OLD	ITEM			1			1	ALLE	D/NEW I			
age					Serial N	lumber		Са	je					Seria	ıl Numbe	er
art Numbe	er					emoved 000 0000		Par	t Number					Date 00	Installed	
1an Hrs		Elap	psed Hrs		Received		EOC	In W	ork		EO	)C	Complete			WO Status (
.6		0.3			18 MAR 2	1 1	Z	<del>-</del>	AR 2022 (	0030	Z		8 MAR 2	2022 0	048	D
1eter			rocess Insp N	•	Safety El	Posit	Fid	Tech			Syste R/H ENG		eason SERV 36	07		
		•				(H-Z) Fa	iled/Requi	red Mate	erial							
· ·																
		Y												TIATO		L
			6 OZ												DR 6), (b)(7)	c
			6 OZ													c
			6 OZ													c
			6 OZ			•										c
			6 OZ													c
/H ENG C	DIL S	SERV 36			OF MIL-PF	RF-23699 IA	W SSS 12	210, USI	NG PEMA	A 9200	7. ATAF, A	PAF,	(b)(3	3), (b)(6		c
VH ENG C	DIL S	SERV 36	N	GOZ (	OF MIL-PP	RF-23699 I <i>A</i>	AW SSS 12	210, USI	NG PEMA	A 9200	7. ATAF, A	PAF,	(b)(3	3), (b)(6		c
CORRECT SERVICED	TIVE	SERV 36 ACTION HENGIN	N			F-23699 IA	9-00	210, USI	NG PEMA	A 9200	7. ATAF, A		AFF, ACF	3), (b)(6		c

MCN : 28T08EH
JCN : FC3077661

MODEX: 14

Syc-Reason: R/H ENG OIL SERV 36 OZ

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0816

**Req** (3), (b)(6), (b)(7)c

Page :1 of 1

### Job Status

Job <u>Status</u>	Date <u>Time</u>	EOC
МЗ	18 MAR 2022 0008	Z
IW	18 MAR 2022 0030	Z
МЗ	18 MAR 2022 0046	Z
JC	18 MAR 2022 0048	Z

<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>	<u>CDI</u>
(1-)(0) (1-)(0) (1-)(7)	CDISUP	18 MAR 2022 0030	18 MAR 2022 0045	5
(b)(3), (b)(6), (b)(7)c	6-5	18 MAR 2022 0030	18 MAR 2022 00(bb)	(3), (b)(6), (b)(7)

√8CM I	JCN FC307360	03	Туре СМ	e WO	Org Code FC3	Mode:	x	Buno 1683	/Serno 30		Assy Cd AYNE	120	ork Centei )	r CF Req N	- 1	QA Req N
itrm Cd C	Code	Basic No			Rev Ltr			***************************************		Amend		F	art			Kit No
urn-In Doc	WUC/L				1	Trans	N	Λ/L	1	rocess	1	aken	Mal Code		ode	Type Mai
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age					Number			Cag	e		7101			Serial Numb	er	
7272 art Number				168330 Date R	)-1 emoved			772 Pari	72 Numb	er				0379 Date Installe	ed .	
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.3	3.9			15 MAR :	2022 1608	Z				2 1645	z	]-	Completed 6 MAR 20		D	O Status (
/leter		rocess Insp N	)   .	Safety El	Posit	Fid		Tech			Syste Cannib TF		eason :NTR VAL	VE		
					(H-Z) F	ailed/Red	quire	d Mate	erial							
)ISCREPAN	CY											<b></b>		TIATOR (b)(6), (b)(7)	ıc	
		-380-036-11	07 TI	HERMAL	CONTROL	VALVE N	1001	ULE (C	DDSN: :	2073GC;	28) for Mo	dex 0	(b)(3),	(b)(6), (b)(7)		
Cannibalized	item: 901		07 TF	HERMAL	CONTROL	VALVE N	10DI	ULE (C	DDSN: 1	2073GC	28) for Mo	dex 0	(b)(3),	(b)(6), (b)(7)		
DISCREPANI Cannibalized CORRECTIV CANNIBALIZ HYDRAULIC	item: 901	N O: 166724	MCN	: 28T08D	5) REPLAC	CED RH S	SYS ;	3 THE	MAL C	ONTROL	_ VALVE I/	w s	(b)(3),	(b)(6), (b)(7)	BBZ	

:287 MCN JCN :F¢ MODEX :14

**NALCOMIS** REQUIRED MAN \_ A IAL

Date : 28 APR ?

Time : 0818

**Req**(**B)**(3), (b)(6), (b)(7)c

NIIN

Page :1 of 1

RPBL Cage

Part Number

QTY Proj PRI

Ordered

DDSN

<u>Reference</u>

<u>Date</u> <u>Status</u>

YES 77272 901-380-036-107

Sys Reason: Cannib TRML CNTR VALVE

1 AKC 02 14 MAR 2022 2009 2073GC28 SSS 27 FIG 533 IND 67 MODULE ASSY PAODD JCS.

16 MAR 2022 1235 075CANNB

ENCLOSURE

551

MCN : 28T08CM JCN : FC3073603

MODEX: 14

Sympeason: Cannib TRML CNTR VALVE

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0818

**Req** (**B**)(3), (b)(6), (b)(7)c

Page :1 of 1

#### **Job Status**

Job	Date	
<u>Status</u>	<u>Time</u>	<u>EOC</u>
МЗ	15 MAR 2022 1608	Z
WP	15 MAR 2022 1609	Z
1W	15 MAR 2022 1645	Z
WP	15 MAR 2022 1831	Z
МЗ	16 MAR 2022 1236	Z
IW	16 MAR 2022 1400	Z
МЗ	16 MAR 2022 1546	Z
M8	16 MAR 2022 1547	Z
IW	16 MAR 2022 2020	Z
МЗ	16 MAR 2022 2041	Z
JC	16 MAR 2022 2208	Z

<u>Name</u> <u>T</u>	<u>oolbox</u>	Start <u>Date</u>	End <u>Date</u>	<u>CDI</u>
	120-2-3	15 MAR 2022 1645	15 MAR 2022 1830	JCS
	CDISUP	15 MAR 2022 1645	15 MAR 2022 1830	
(h)(0) (h)(0) (h)(7) -	CDISUP	16 MAR 2022 1400	16 MAR 2022 1545	
(b)(3), (b)(6), (b)(7)c	120-2-5	16 MAR 2022 1400	16 MAR 2022 1545	NQC
	HAZ	16 MAR 2022 1500	16 MAR 2022 1545	NQC
	120-2-5	16 MAR 2022 2020	16 MAR 2022 2040	JCS

<u>MCN</u> :28T08CM JCN

:FC3073603

MODEX :14

Syc-Peason : Cannib TRML CNTR VALVE

## **NALCOMIS OMA QAR/CDI In Process Inspection**

Date : 28 APR 2022

Time :0818

Req(B)(3), (b)(6), (b)(7)c

Page :1 of 1

**Description** 

WTD TQ OF (3) FITTINGS TO 40 FT LBS. WTD TQ OF (1) FITTING TO 70 FT LBS. WTD INSTALL OF (3) MOUNT SCREWS TO TIGHT. ATAF APAF AFF ACF.

PERFORMED BLOC . ALL CHECKS GOOD.

PERFORMED FOD FREE OF PANEL 6RI3 AND WTD INSTALL OF PANEL ALL ATTACHING HW TQD TO 40 IN LBS. ATAF APAF AFF ACF.

PERFORMED FOD FREE OF PANEL 6RB4 AND WTD INSTALL OF PANEL AND ALL ATTACHING HW TQD TO 40 IN LBS. ATAF APAF AFF ACF.

<u>Rank</u>	<u>Name</u>	<u>DateTime</u>
		16 MAR 2022 1507 16 MAR 2022 1854
	(b)(3), (b)(6), (b)(7)c	16 MAR 2022 1858
		16 MAR 2022 2201

I	JCN	7.100.4		e WO	Org Code	Modex		/Serno	Į.	Assy Cd		ork Cente		F Req	QA Req
	FC307		DM		FC3	14	1683	30		AYNE	20		N		N Izros
ntrm Cd	Code	Basic No			Rev Ltr				Amend			Part .			Kit No
urn-In Doc	Wu	JC/UNS			<u>,                                    </u>	Trans	M/L	Item F	rocess	Action	aken	Mal Cod	e [	Disc Cod	le Type Mair
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		REMOVEDA	OLD	ITEM						INS	TALLE	D/NEW IT	тем		•
age				Serial I	Number		Cag	 je					Serial	ıl Numbe	r
7499	_			LH000	415		974						LH00	0577	
art Number				1	lemoved		1	t Numb						Installed	
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l5.8 Meter		16.7 In Process Insp	$\dashv$	Safety El	2022 1031 Posit	Z Fid	Tech	AR 202 I	2 1/38	Z		17 MAR 2	:022 0	948	D
note:		ni Frocess insp N	<b>'</b>	Salety Ci	LH	FIG	recii		LH			eason TCH SEN	ISOR		
					(H-Z) Fa	ailed/Requi	red Mate	 erial							
ISCREPAN	ICY												TIATO		7)c
		LOWER LATC	H St	ENSOR F	(P)									PR ))(6), (b)(	7)c
		LOWER LATC	H St	ENSOR F	(P)										7)c
		LOWER LATC	∵H St	ENSOR FI	(P)										7)c
H WHITE B	LADE					TEM OP-C	CHECK C	GOOD.	USED F	PEMA 930	02. AT	(b)	(3), (b)	o)(6), (b)(	7)c
H WHITE B	LADE	TION				STEM OP-C	CHECK (	GOOD.	USED P	PEMA 930	02. AT	(b)	(3), (b)	o)(6), (b)(	7)c
CORRECTIV	LADE /E ACT	TION		IAW SSS			CHECK (	GOOD.	USED F	PEMA 930		AF. APAF	(3), (b)	o)(6), (b)(	7)c

MCN :FĹ JCN :14 MODEX

**NALCOMIS** REQUIRED MA. \_. (IAL

Date :28 APR ?

Time : 0819

**Req E(y)(3)**, (b)(6), (b)(7)c

Page : 1 of 1

Sys Reason: LH WHT LWR LATCH SENSOR

QTY Proj PRI <u>Ordered</u> <u>DDSN</u> Reference <u>Date</u> Status <u>NIIN</u> RPBL Cage Part Number YES 97499 901-005-662-101

1 AKC 02 15 MAR 2022 1818 2074GC44 SFI42,66E,16 DISTRIBUTOR ASSY,CENTRAL DEICE PAOOL 16 MAR 2022 1939 075CANNB

ENCLOSURE

MCN : 28T08C1 JCN : FC3074604

MODEX : 14

МЗ

JC

NALCOMIS OMA
Job Status / Worker Hours

Date : 28 APR 2022

Time : 0819

**Req (b)**(3), (b)(6), (b)(7)c

Page : 1 of 1

Job Status

17 MAR 2022 0921

17 MAR 2022 0948

Z

Syc-Reason: LH WHT LWR LATCH SENSOR

Job <u>Status</u>	Date <u>Time</u>	EOC	<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>	<u>CDI</u>
МЗ	15 MAR 2022 1031	Z		TB3-4	15 MAR 2022 1738	15 MAR 2022 1800	
IW	15 MAR 2022 1738	Z		200-3-1	16 MAR 2022 0900	16 MAR 2022 1800	
МЗ	15 MAR 2022 1801	Z		200-CR25	16 MAR 2022 0900	16 MAR 2022 1800	
WP	15 MAR 2022 1818	Z		CDISUP	16 MAR 2022 0900	16 MAR 2022 1800	3), (b)(6), (b)(7)c
IW	16 MAR 2022 0900	Z	(b)(3), (b)(6), (b)(7)	CDISUP	16 MAR 2022 1900	17 MAR 2022 0200	<i>57</i> ; ( <i>b</i> )( <i>0</i> ), ( <i>b</i> )(1-70
WP	16 MAR 2022 1801	Z		200-3-4	16 MAR 2022 1900	17 MAR 2022 0200	
IW	16 MAR 2022 1900	Z		CDISUP	16 MAR 2022 2210	17 MAR 2022 0200	
		_		200-3-1	17 MAR 2022 0900	17 MAR 2022 0920	
МЗ	17 MAR 2022 0201	Z		CDISUP	17 MAR 2022 0900	17 MAR 2022 0920	
СТ	17 MAR 2022 0240	Z					
IW	17 MAR 2022 0900	Z					

MCN : 28T08C1 JCN : FC3074604

MODEX : 14

Sys-Reason: LH WHT LWR LATCH SENSOR

NALCOMIS OMA

QAR/CDI In Process Inspection

Date : 28 APR 2022

Time : 0819

**Req**(**By**(3), (b)(6), (b)(7)c

Page :1 of 1

Description

WIT TQ OF LH CDD MOUNTING BOLTS TO 85 IN/LBS. BOLTS SAFETY WIRED. NEEDS SEALANT. SYSTEM OP-CHECK GOOD.

<u>Rank</u>

<u>DateTime</u>

FOD FREED L/H WHITE TRAILING EDGE FAIRING, GOOD TO BE

INSTALLED.

(b)(3), (b)(6), (b)(7)c

Name

(b)(3), (b)(6), (b)(7)c

16 MAR 2022 2236

16 MAR 2022 1940

FOD FREED AND CLOSED LH WHITE LEADING AND SPINNER DOME. CLOSED LH WHITE TRAILING EDGE. WIT'D TQ OF 80 IN-LBS ON ALL PANEL SCREWS. BLADE FOLD OP CHECKS GOOD. AFF

(b)(2)Low, (b)(6), (b)(7)c

17 MAR 2022 0244

<u> </u>	1 10	. N. I			1110		1							T		
8D3	JC FC	N 307563	1	Type DM	WO	Org Code FC3	Modex 14	1683	o/Serno 130		Assy Cd AYNE	120	ork Cente 1	r CF N	Req	QA Req N
Intrm Cd	Co		Basic No		:	Rev Ltr				mend			art			Kit No
Turn-In Doc		WUC/U	INS				Trans	M/L 1	Item Pro	ocess	Action Ta	ken	Mal Code	e D	isc Cod	Type Main
		F	REMOVED/	OLD I	ITEM		•				. 1	ALLE	D/NEW 17	ГЕМ		
Cage					Serial N	lumber	, , , , , , , , , , , , , , , , , , , ,	Cag	je		,			Serial	Number	
Part Numbe	er		2112		Date Re	emoved 000 0000	<del></del>	Par	t Number						nstalled	20
Man Hrs		Flan	sed Hrs	I	Received	****	EOC	In W	ork		EO	c I	Completed		0000 00 <del>0</del>	
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Meter			rocess Insp	<del></del>	Safety El	Posit	Fid	Tech			Syste	_			<u>  •</u>	
			N .		•					UP	PER CRE			DOW		
						(H-Z) Fa	iled/Requi	red Mate	erial							
Index F/P/	¥∕T .	MAL C	age I	⊃art N	Number	QT	Y PROJ	PRI	Date ORI	D	DDSN		Date R	CVD		NOMEN
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UPPER CF	REW	DOOR		CRAZ	ŒD AND	CANNOT B	E SEEN C	DUT OF.								
UPPER CF	REW	DOOR	1			CANNOT B			IA 92116.	ATAF /	APAF AFF	ACF.				
UPPER CF	REW	DOOR	1						IA 92116.	ATAF /	APAF AFF	ACF.				
UPPER CF	REW	DOOR	1						IA 92116.	ATAF /	APAF AFF	ACF.				
UPPER CF	REW	DOOR	1						IA 92116.	ATAF /	APAF AFF	ACF.				
DISCREPA UPPER CF  CORRECT REPLACE	IVE /	DOOR ACTION	1		NDOW IA		0 UTILIZI		IA 92116.	ATAF /	APAF AFF		( <u>b</u> )(3),			

MCN : 28T08D3 JCN : FC3075637

MODEX: 14

Syn-Reason: UPPER CREW DOOR WINDOW

# NALCOMIS OMA Job Status / Worker Hours

Date : 28 APR 2022

Time : 0818

**Req**(**B**)(3), (b)(6), (b)(7)c

Page :1 of 1

#### **Job Status**

Job <u>Status</u>	Date <u>Time</u>	EOC	<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>	<u>CDI</u>
МЗ	16 MAR 2022 1032	Z	(b)(3) (b)(6) (b)(7)c	120-2-5	16 MAR 2022 1546	16 MAR 2022 1800	NQC
IW	16 MAR 2022 1546	Z	(b)(3), (b)(6), (b)(7)c	CDISUP	16 MAR 2022 1546	16 MAR 2022 1800	
МЗ	16 MAR 2022 1801	Z					
JC	16 MAR 2022 1850	Z					

<u>MCN</u> : 28T08D3 <u>JCN</u> : FC3075637

MODEX : 14

**QAR/CDI In Process Inspection** 

Date : 28 APR 2022

Time : 0818

Req(5)(3), (b)(6), (b)(7)c

Page :1 of 1

Description

WTD INSTALL AND TQ OF ALL ATTACHING HW TO 25 IN LBS. ATAF APAF AFF ACF.

Sym-Reason : UPPER CREW DOOR WINDOW

Rank

**NALCOMIS OMA** 

(b)(3), (b)(6), (b)(7)c

<u>Name</u>

<u>DateTime</u>

16 MAR 2022 1849

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MCN 38C		C306768	92	Type	WO WO	Org Code	ı	Modex 14	1	Buno/	/Serno		Assy (	- 1	Wa 310	ork Cente	- 1	CF Req		QA Req
., Cd	H	ode	Basic No	DIVI		Rev Ltr		14	ļ <u>.</u>	10030		Amend				art	'	<u> </u>		it No
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2010003	_		REMOVED	OLD	ITEM			23	_	1	1		R	USTAL		585 D/NEW I	TEM	Н		В
Cage					Serial N	Number				Cag	<u></u> е		•					ial Numbe	er	
97499 Part Numbe	r	*			221018 Date R	80-440 emoved				9749 Part	99 Numb	er						0180-892 e Installe		
901-364-002 Man Hrs	2-10	·i	psed Hrs	ï		R 2022 131	7	EOC		901- In Wo		02-109		EOC	1,	\\	08	MAR 202	2 21	
11.4		6.2		_	08 MAR 2	2022 0114	<del></del>	z				2 0800		Z	10	Completed 08 MAR 2		2117	D	O Status Cd
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						(H-Z) F	aile	d/Requi	ired	Mate	rial									
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<u> </u>																			_	
(RECT (b)(3), (b)						(b)(3), (b				_ <del></del>				INT CC ), (b)(6)						

MCN	i i	ON Soos	7000	1 -		wo	Org Code	Modex			Serno	ŀ	Assy Cd	ı	ork Cente	er (	CF Req		)A Req
.n Cd	┷	23067 ode	7682 Basic	O No	<b>v</b> 1		FC3 Rev Ltr	14	110	6833	30		AYNE	31		1	<u> </u>	<u>                                     </u>	
II Oa		id <del>e</del>	Dasit	CINO			Luev Lit					Amend		'	Part			ļK	iit No
Turn-In Doc	Τ	WUC	C/UNS				ļ	Trans	M/L	. 1	Item F	rocess	Action 1	aken	Mal Cod	le	Disc Co	de	Type Main
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Part Numbe	r					-	lemoved				Numbe	er					e Installe		
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Meter		In	Process	s Insp	S	afety El	Posit	Fid	Te	ch			Sys	tem R	eason				
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Date : 28 APR 7

Time : 0820

**Req By**(3), (b)(6), (b)(7)c

Page :1 of 1

Svs Reason	:SDC FAIL/INOP
OJS HEASON	.000111101101

RPBL	<u>Cage</u>	Part Number	QTY	<u>Proj</u>	<u>PRI</u>	Ordered	<u>DDSN</u>	Reference	<u>Date</u>	Status	NIIN
YES	77272 901-364	-002-109	1	AKC	02	08 MAR 2022 0950	2067GC74	SFI 21,100,12 COMPRESSOR ASSY SHAFT DRIVEN PAOOL	08 MAR 2022 153	0 067COMPL	
NO	77272 901-366	-582-791	2	AKC	02	08 MAR 2022 1520	2067GC80	SFI 21,100,20 SEAL ECS PAOZZ NB	08 MAR 2022 153	0 065COMPL	
NO	97499 901-046	615-101	1	AKC	02	08 MAR 2022 1524	2067GC81	SFI 21,100,14 ADAPTER SPLINED PAOZZ NB	08 MAR 2022 163	0 067COMPL	
NO	77272 901-366	582-764	2	AKC	02	08 MAR 2022 1617	2067GC82	S/F/I 21,202A,11 SEAL, ECS COUPLING PAOZZ	08 MAR 2022 183	0 067COMPL	

MCN : 28T088C JCN : FC3067682

MODEX : 14

Sym-Reason : SDC FAIL/INOP

## **NALCOMIS OMA Job Status / Worker Hours**

Date : 28 APR 2022

Time : 0820

Req( $\frac{8}{9}$ )(3), (b)(6), (b)(7)c Page : 1 of 1

### **Job Status**

Job	Date	
<u>Status</u>	<u>Time</u>	EOC
МЗ	08 MAR 2022 0114	Z
M4	08 MAR 2022 0141	Z
МЗ	08 MAR 2022 0557	Z
IW	08 MAR 2022 0800	Z
МЗ	08 MAR 2022 0901	Z
IW	08 MAR 2022 0945	Z
МЗ	08 MAR 2022 0948	Z
WP	08 MAR 2022 0950	Z
IW	08 MAR 2022 1600	Z
МЗ	08 MAR 2022 2111	Z
JC	08 MAR 2022 2117	Z

	<u>Name</u>	<u>Toolbox</u>	Start <u>Date</u>	End <u>Date</u>	<u>CDI</u>
		CDISUP	08 MAR 2022 0800	08 MAR 2022 090	
(	b)(3), (b)(6), (b)(7)	NTR	08 MAR 2022 0945	08 MAR 2022 094 (t 08 MAR 2022 2110	7 (b)(2) (b)(6) (b)(7)
(	5)(3), (5)(6), (5)(7)6	1-6	08 MAR 2022 1600	08 MAR 2022 2110	)
		CDISUP	08 MAR 2022 1600	08 MAR 2022 2110	1

<u>MCN</u> :28T088C <u>JCN</u>

: FC3067682

:14 Syc-Reason : SDC FAIL/INOP

**NALCOMIS OMA QAR/CDI In Process Inspection** 

Date : 28 APR 2022

Time :0820

Req(15)(3), (b)(6), (b)(7)c

Page :1 of 1

**Description** 

**MODEX** 

WIT TQ OF SDC TO MWGB VBAND CLAMP TO 125INLBS, BEAT TO SEAT

WIT TO OF SDC BARRIER FILTER HOUSING TO SDC VBAND CLAMP TO 25INLBS, BEAT TO SEAT

WIT TO OF SDC GROUNDING STRAP HW TO 50INLBS.

ALL CANNON PLUGS FULLY SEATED SDC PROPERLY SERVICED WITH MIL-PRF-23699, LEAK CHECK AND OP CHECK GTG.

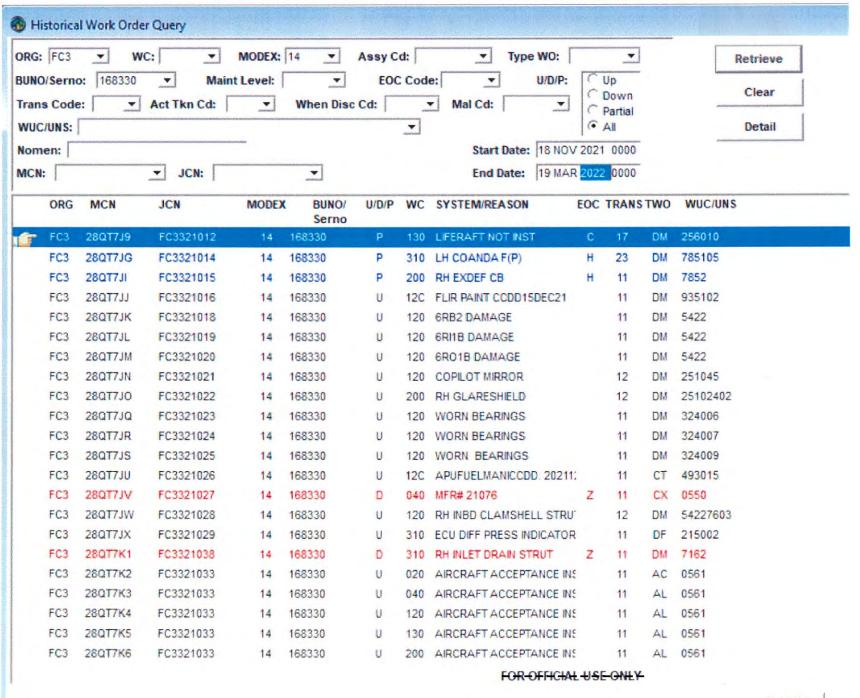
Rank <u>Name</u>

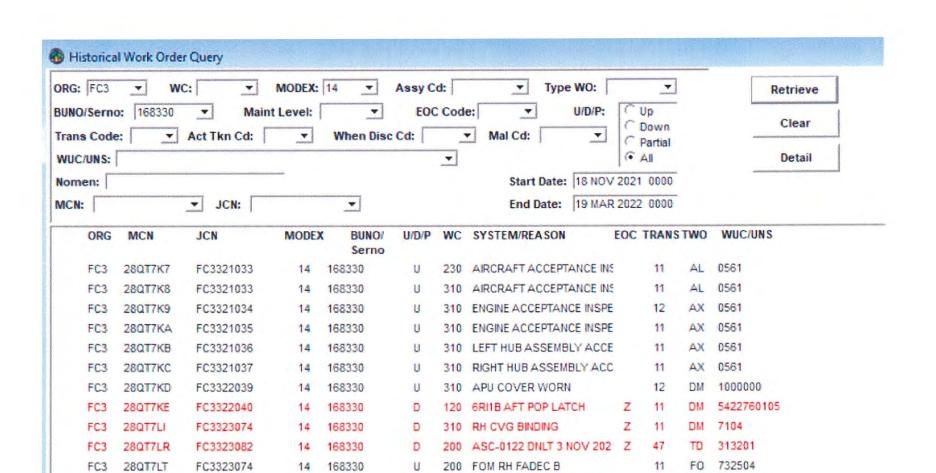
(b)(3), (b)(6), (b)(7)c

**DateTime** 

08 MAR 2022 2123

(b)(3), (b)(6), (b)(7)c 08 MAR 2022 2125





310 DCB-0057 DNLT 1697.7 HRS

310 DCB-0057 DNLT 1697.7 HRS

310 DCB-0057 DNLT 1697.7 HRS

310 DCB-0057 DNLT 1697.7 HRS

310 DCB-0057 DNLT 1697.7 HRS

310 DCB-0056 DNLT 1697.7 HRS

120 AYB-1716 NLT 1767.7

120 AYB-1716 DNLT 1767.7

130 INSTALL TROOP SEAT

DCB-0057 DNLT 1697.7 HRS

AFB-0188 HELD IN ABEYAN

FOR OFFICIAL USE ONLY

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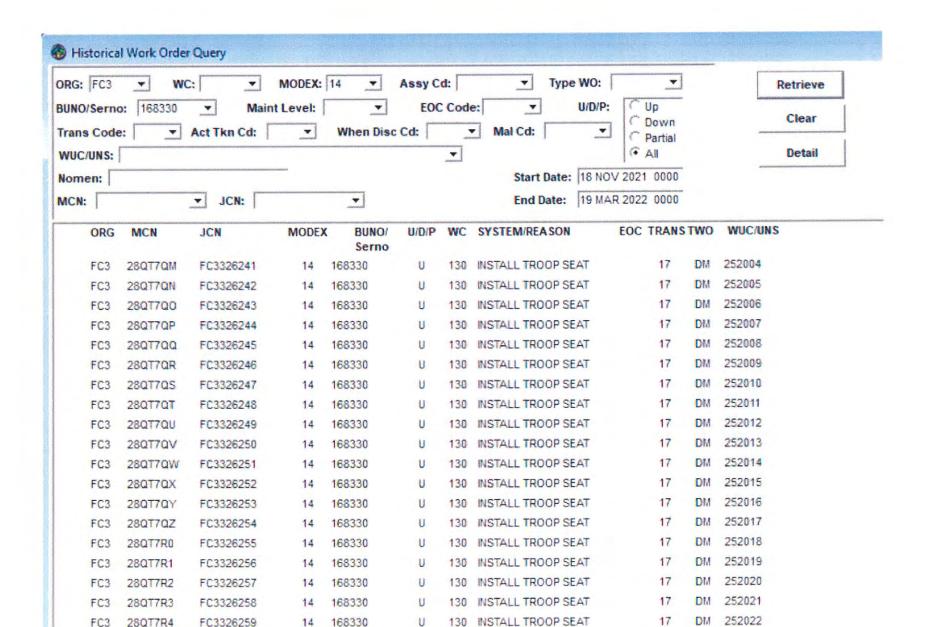
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FOR OFFICIAL USE ONLY

130 INSTALL TROOP SEAT

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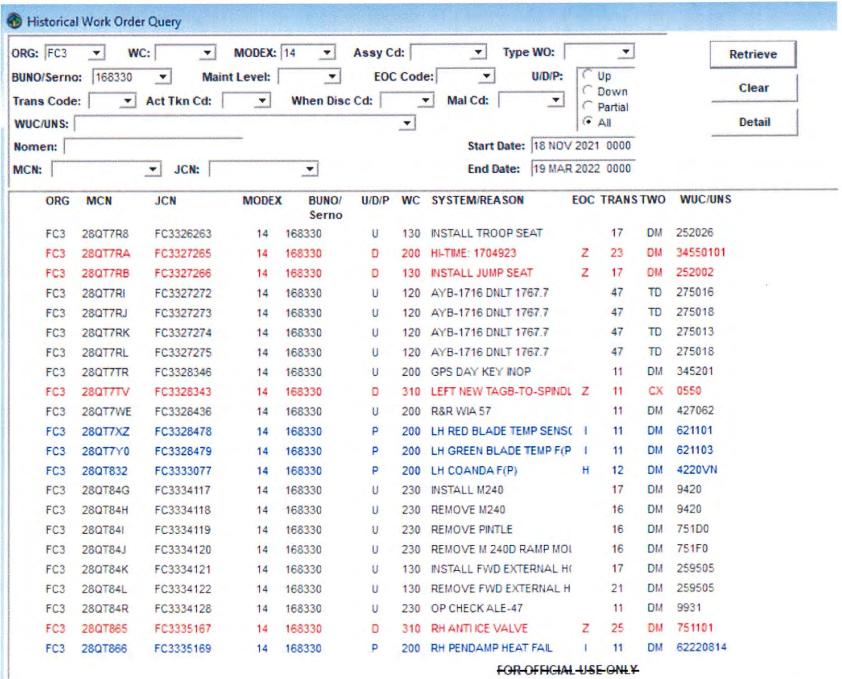
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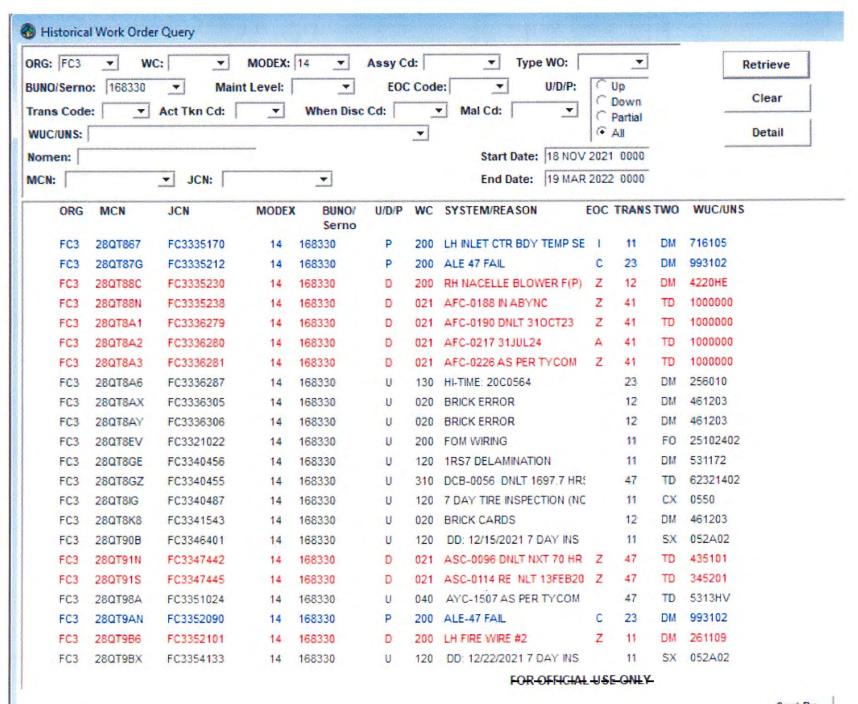
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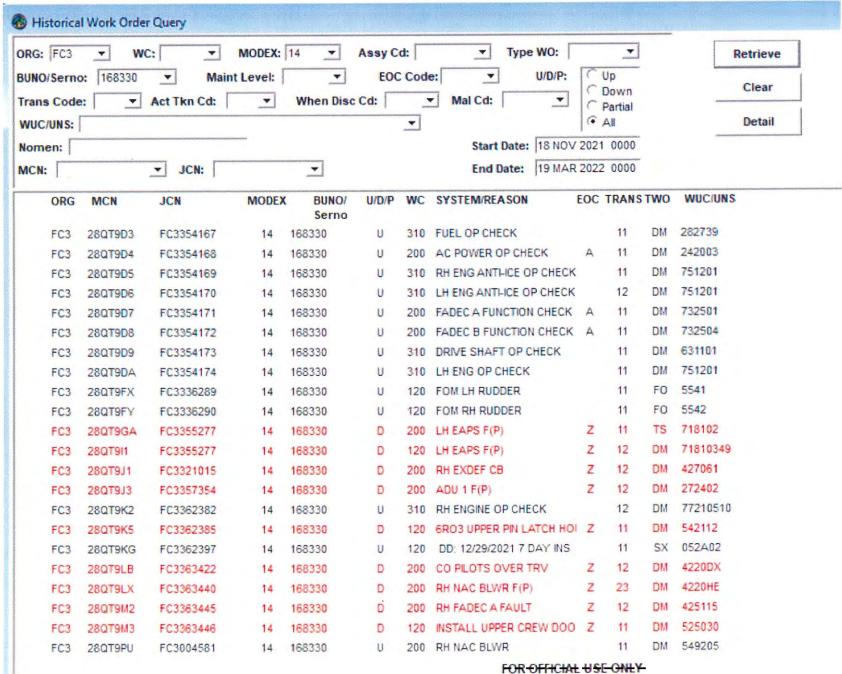
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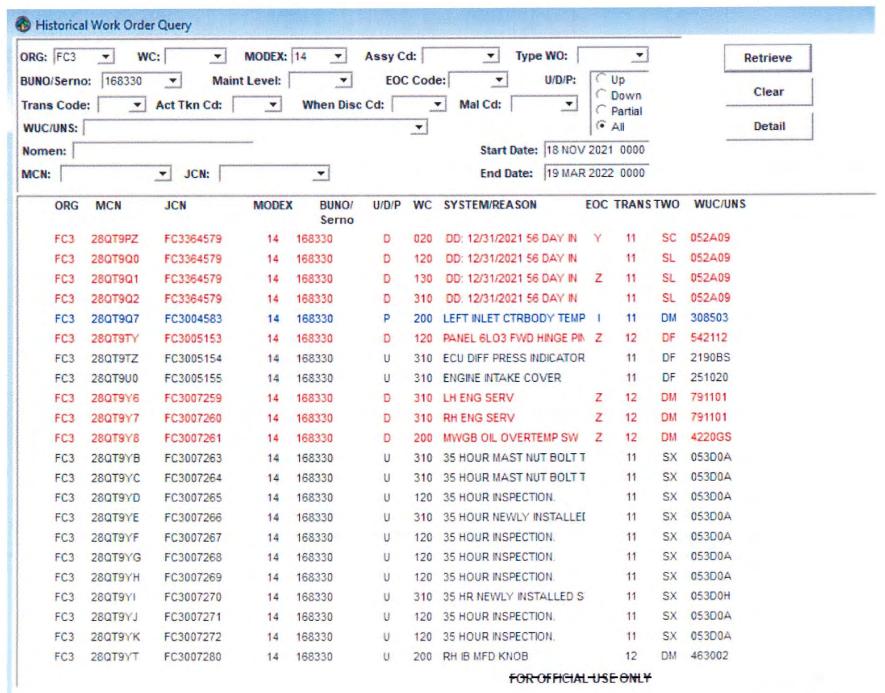
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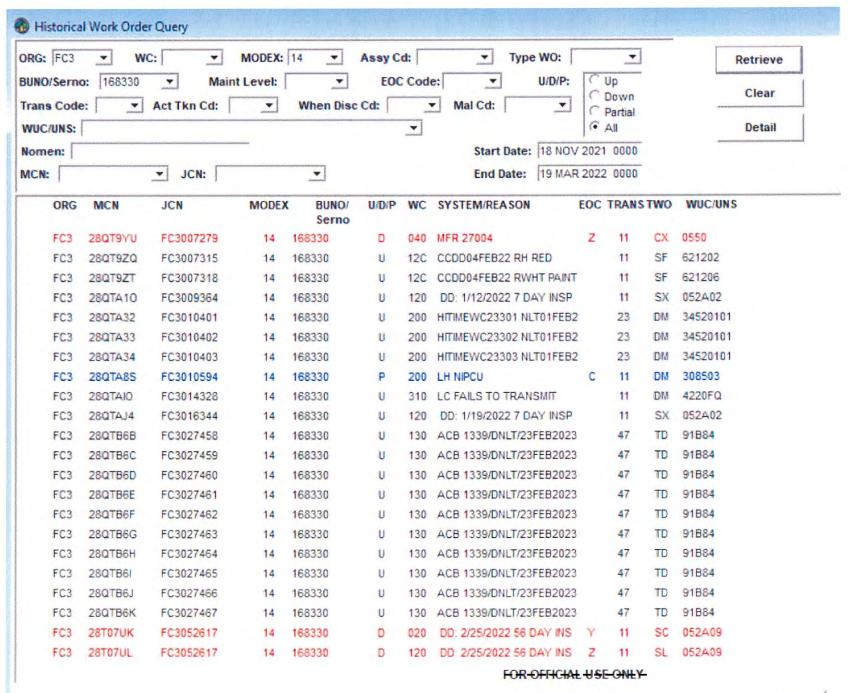


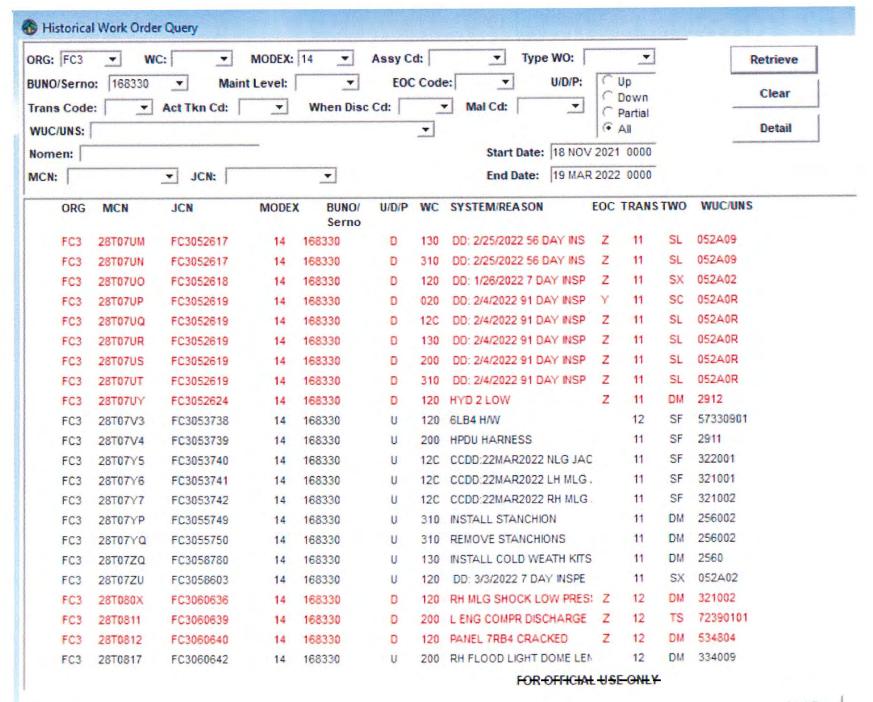


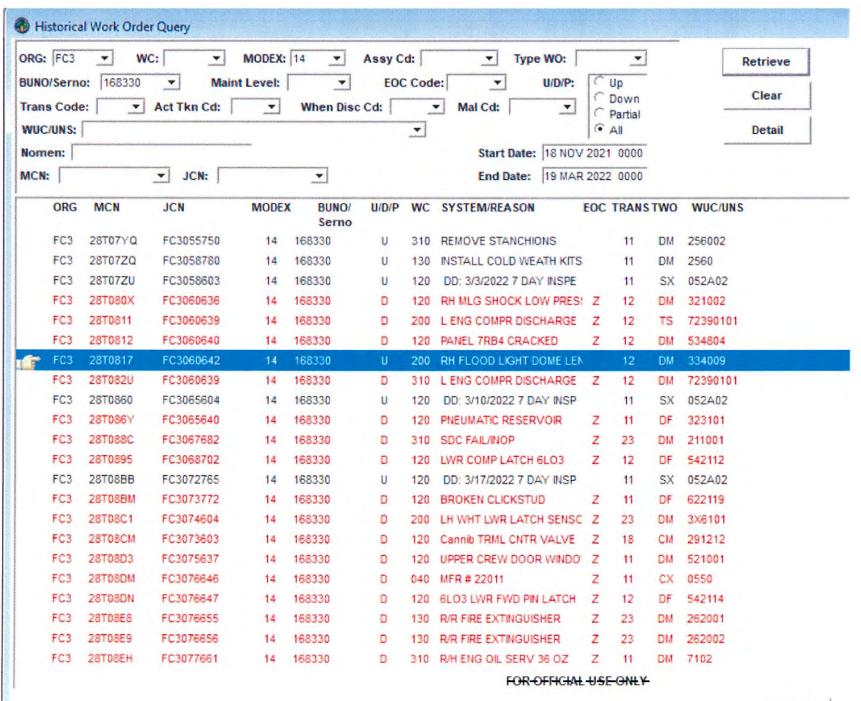


THUME OBLIGHT









ıbject:

Replacement Cost of V22

From	(b)(6), (b)(7)c	
	(b)(6), (b)(7)c, (b)(7)b	
Date:	Monday, May 09, 2022, 3:21 PM	
To:	(b)(6), (b)(7)c	
	(b)(6), (b)(7)c	>
Cc:	(b)(3), (b)(6), (b)(7)c	

Subject: RE: Replacement Cost of V22

#### (b)(3), (b)(6), (b)(7)c

See below for the EA of the raw data.

Review of KVADR data shows the following:

At time 22786.6 RH Rotor Torque sees a spike 75776 Foot-Pounds while LH Rotor Torque -2440 Foot-Pounds after throttle position is moved away from zero inches (full aft). Data does not indicate any component failed resulting in the corresponding torque spike.

ptential Causes for this type of asymmetric rotor torque spike:

- -Sudden change in blade pitch on the effected rotor (not seen in this case)
- -Blade(s) strike (data cannot determine this conclusively)
- -One Engine Inoperative (no signs of degraded engine performance)
- -Ingestion of FOD into rotor (data cannot determine this conclusively)

Outside of the above time stamp review of KVADR reveals no other anomalies of aircraft systems or components.

Thanks,

(b)(6), (b)(7)c

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4. 4.1 Years

NAVAIR 00-80T-109

DATE: 20220318

						ISSU	ES							DEFUELS	
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NAVAIR 00-80T-109

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ENCLOSURE (54)

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		TRUCK 632745! 2800	
and with		TRUCK 632749: 4800	
المهدين معلد	-	TRUCK; 632733; 4785	
		TRUCK 618482, 173	
المراجع البد	0157	TRUCKS 327 45 STARTS RECIEVING	
20		TRUCK 632795 RECIEVING FENDS (1990 GALS)	2
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-		TRIVE (2-23) STANDS RECTEVEN (6	3), (b)(6), (b)( 22
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المسالي	DUAN	BAG 043 BEGINS RECIRCING	<u>13</u>
	D459	BAG DYS FINISH'S RECIRCING SAMPLE'S WERE	23
بدسلون		PULLED FROM POINTS 1,2, ANS TEST RESULTS BELOW	, 22
المراسد		PT1; SED(40) WATER (6.2) APICKO TEMP (47) FSZI (613)	₹ <sup>3</sup> C
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19		PT3; SED(AO) WATER(O.D) API(45) TEMP(44) FSI40.135	
	0635	TRUCK 63745 LEAVES TO FUEL VMFA-312 (b)	(3), (b)(6), (b)(7 <b>2</b> C
١	0710	TRUCK 63045 FUELED AC: F/A-18, NH 25, TIT 164653	1
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الله الله الله الله الله الله الله الله	0733	TRUCK 637.745 RECIEVED FLIEL 1046 GAL (STOP OFF)	
	0915	TRUCT 632745 (EAVES TO PUEC MM-26) and MICH 312	
کار ا	2930	TRUCK 632 THE CEAUSE TO FULL TRUCK AND FILE UMPA-SIZ	
	1009	TRUCK 632745 FUELED AC: 22, N#14, T# 168330	
		<u>HUB GALS</u> (b)(3), (b)(6), (b)(7)c (b)	(3), (b)(6), (b)(7 s
	louo	TRUCK 632745 RECIEVED FLUEL BY3GAS (STOP 1007)	
<u>c</u>	1405	A(:MV-22, N#14, B#168330, BAG D43, T-1405-1930	(b)(6) (b)(7)c
		1392 (xALS, (b)(3), (b)(6), (b)(7)c	(5)(5), (5), (5), (5)
	1709	DEFLEL SAMPLE TEST RESULTS 039 KC-1300)(3	a), (b)(6), (b)(7)d
	. [	ECON: 190 API: 46 TEMP: 960E EXILIA CULL	
	90mg \	4CIF/A-18C, New 19, B# 169 685, TRUCK C23745 T- 2842-20583	(b)(6), (b)(7)(c)
		16736 (xALS) (b)(3), (b)(6), (b)(7)c EN	CLOSURE (54)
R SI		,	

## MIL-STD-3004-1A APPENDIX F

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	PETRO	LEUM SAMPLE CHAIN OF CUSTOD		COC DUCUM	ENT NUMBER
			Transmission II.		
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TEM MC).	CLIMATITY	Control weeker, and weeker	CESCRIPTION OF ARTICLE , final destination, condition and second		
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FIGURE F-1. Chain of Custody Document, page 1

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Enclosure (55)



## Glossary of Acronyms and Terms

AGL Above Ground Level

AIRMET Airman Meteorological Information AIO Assistant Investigating Officer

ALS Air Logistics Support AMB Aircraft Mishap Board

AOB Angle of Bank

APR Aircrew Performance Record
ASM Advanced Skills Management

BuNo Bureau Number

CALs Confined Area Landings
CDD Central Deice Distributer
CDI Collateral Duty Inspector

CDQAR Collateral Duty Quality Assurance Representative

CRM Crew Resource Management

ENBO Bodo Airport

EOC Equipment Operational Capability
GoPro A portable digital media camera
IMC Instrument Meteorological Conditions

IO Investigating Officer

JAGMAN Judge Advocate General Manual JMPS Joint Mission Planning System KVADR K-series Voice Data Recorder

LAT Low Altitude Tactics

MA Mishap Aircraft

MAC Mishap Tiltrotor Aircraft Commander

MAGTAB Marine Aircraft Group
MAGTAB Marine Air Ground Tablet

MAO Mishap Aerial Observer / Gunner

MAT Mountain Area Training
MAW Marine Aircraft Wing

MAWTS Marine Aviation Weapons and Tactics Squadron

MC Mishap Crew

MCC Mishap Crew Chief
MCN Master Control Number

MCP Mishap Tiltrotor Second Pilot (copilot)

mi Statute Mile
MS Mishap Squadron

MSHARP Marine Sierra-Hotel Aviation Reporting Program

MSL Mean Sea Level

NALCOMIS Naval Aviation Logistics Command Management Information

System

NAOC Norwegian Air Operations Center

NATOPS Naval Aviation Training and Operating Procedures

No Go Briefed condition that would prevent launch of aircraft

ODO Operations Duty Officer

OOMA Optimized Organizational Maintenance Activity

PED Portable Electronic Device
PMC Partial Mission Capable
PMI Planned Maintenance Interval

PPED Personally Owned Portable Electronic Device

QAR Quality Assurance Representative QCL Qualifications / Certifications / Licenses QPT Qualified Proficient Technician RAW Risk Assessment Worksheet RVL Reduced Visibility Landings SAR Search and Rescue SFF Safe for Flight SIGMET Significant Meteorological Information SMQ Special Maintenance Qualification SOP Standard Operating Procedure T2P Tiltrotor Second Pilot (copilot) TAC Tiltrotor Aircraft Commander TCL Thrust Control Lever (throttle) VFR Visual Flight Rules VHF Very High Frequency VMC Visual Meteorological Conditions MMV Marine Medium Tiltrotor Squadron ŴΟ Work Order WX Weather