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Notes:

Job Name: Images

Job ID: F132D661



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS NORTHEAST AIR DEFENSE SECTOR (ANG)
ROME, NEW YORK

R00003013146

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18 Jun 98

MEMORANDUM FOR CV, DO, LG, SC

FROM: NE AD Sector/CVX
4 Otis Street
Rome, NY 13441-4712

SUBJECT: FERTILE GAIN 98-2 After Action Report

1. The Northeast Air Defense Sector conducted a FERTILE GAIN exercise over three days from 9-11 Jun 98. Each day was split into an AM and PM exercise session. The training emphasis was on NABS operations, Battle Staff /Ops floor evacuation procedures and higher headquarters coordination. This exercise encompassed six distinct scenarios from peacetime to wartime and asset reconstitution. Each scenario included a prebrief and immediate debrief.

2. The six scenarios are as follows:

a. The first scenario was a lost pilot/aircraft. This was a peacetime, standard daily operations type scenario. It started as a request from FAA for help in locating a missing aircraft on a proposed flight route, then developed into a NORAD unknown air sovereignty intercept when the aircraft appeared over the ADIZ. The scenario continued into a Search and Rescue (SAR) as the aircraft ran out of fuel and crashed into the ocean. This scenario required the Ops floor and Battle Staff to coordinate with both civil and military headquarters to accomplish the desired learning objectives.

b. The second scenario was a hijacked USAIR B727. This was also a peacetime, standard daily operations scenario. The aircraft was hijacked by a bank robber enroute from Pittsburgh to Philadelphia to an undisclosed destination. FAA requested that NEADS monitor this aircraft with fighter escort. The hijacked aircraft flew out to approximately "Champ" where the hijacker jumped out of the aircraft and crippled the jet with a bomb blast. This scenario required the Ops floor/Battle Staff to coordinate extensively with FAA and military higher headquarters intercept and monitor the hijacked aircraft. Additionally, SAR assets were also required to accomplish the mission scenario.

c. The third scenario was an E-3/NABS decentralization exercise. The background for this exercise was that the E-3 was enroute to a specified point to meet a "Bear F" EPAT during heightened political tensions. This scenario was complicated by various scripted communication/data disruptions. Additionally, DMA inputs were added to the scenario to test various levels of DMA procedures. This scenario required the NABS and Battle Staff to

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coordinate through various communications methods to effectively execute the mission during changing decentralization command levels.

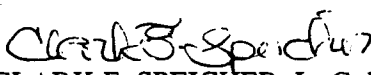
d. The fourth scenario was a SAOC bomb threat/evacuation. Prior to the bomb threat, there was an unknown within the NEADS AOR. The incident forcing the evacuation was a fire in the battery room. The scenario did not require an actual expansion by the SEADS. CVX and staff provided hip pocket manning for the exercise scenario to enable us to evacuate as many personnel as possible. This scenario stressed the coordination and setup of an alternate command center for the Battle Staff/EBS/Ops floor operations.

e. The fifth scenario was to defend against a coordinated SLCM attack in the NEADS AOR. The Battlestaff and Ops floor were given approximate locations of the threats, friendly assets (Navy, fighters, tankers, and ADA units) and a situational briefing. The scenario required a coordinated effort between the Ops floor and Battle Staff to decide on positioning of assets (air/ground) to effectively protect the NEADS AOR. This scenario also included reporting procedures (bullet/bean counting) for the EBS to effectively plan for follow-on operations.

f. The last exercise was a wartime scenario. The NEADS Battle Staff was faced with defending the AOR against a possible two pronged attack by BEAR H bombers with the surviving assets from the AM scenario. The Sector's radars/UHF radios (HF/SATCOM only) were simulated inoperable. They had a single E-3 as the eyes for the Sector. The Battle Staff was challenged to interface with the NABS team aboard the E-3 and to fight a comprehensive air battle with reconstituted forces. NABS team exercised command and control of air assets at level three decentralization.

3. Overall, feedback from the exercise was very positive. Individuals liked the opportunity to debrief after each scenario and generally felt the simulation of the E-3 allowed effective NABS interface with the Battle Staff and fully exercised the various levels of E-3 decentralization. With the ORI in January 1999, each of our upcoming GAIN exercises will continue to emphasize training scenarios that will challenge the Battle Staff/EBS/Ops Floor in the execution of daily operations (peacetime) to a wartime environment.

4. We have changed our report format slightly and have attached CVX and Battle Staff/Ops floor observations, comments and recommendations. If you have any questions or comments concerning this report, contact Maj Nasypany at extension 6148.


CLARK F. SPEICHER, Lt Col, NYANG
Director, Exercise and Analysis

Attachment:
FG 98-2 Observations

cc: CC

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21 Sep 99

MEMORANDUM FOR CC, CV, DO, DOC, LG, SC, SF

FROM: NE AD Sector/CVX
387 Hangar Road
Rome, NY 13441-4507

SUBJECT: FERTILE GAIN 99-05 After Action Report

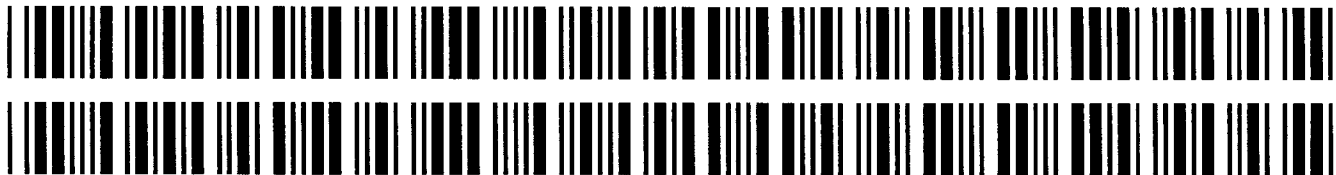
1. The Northeast Air Defense Sector conducted a FERTILE GAIN exercise on 15 Sep 99. The exercise was designed to emphasize Sector procedures for Deviating Aircraft, Reporting, Hijacker/Terrorist Activity, and Rules of Engagement (ROE). The exercise session encompassed peace time operations. The Battle Staff and Operations crew were briefed that any individual could request an "academic situation" to discuss or ask questions about a certain event to clarify and enhance the desired learning objectives.
2. Scenario Description: There were increased tensions throughout the world due to high profile terrorist events that recently occurred in Europe. Numerous threats against US and European governments have been made due to the attacks on Islamic Fundamentalist/Terrorist camps earlier this year in retaliation to terrorist attacks on Western embassies. There was one major air event that included multiple logistical support issues. Several minor air events were added as distracters and time compression exercises.
3. The overall feedback from the exercise was very positive. Future exercises will continue to emphasize challenging training scenarios to better prepare NEADS for possible real-world situations and inspections. The CVX/Battle Staff/Ops floor findings, observations, comments, and recommendations are attached. Any questions or comments concerning this report should be directed to CVXA at extension 6148.

KEVIN J. NASYPANY, Maj, NYANG
Deputy Director, Exercise and Analysis

Attachment:
FG 99-05 Findings and Observations

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Job Name: Images

Job ID: F132D661



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RDOD 03013147

DEPARTMENT OF THE AIR FORCE
Headquarters Northeast Air Defense (ANG)
Rome, New York

22 Jan 97

MEMORANDUM FOR CV, DO, DOC, LG, SC

FROM: NE AD Sector/CVX
4 Otis Street
Rome, NY 13441-4712

SUBJECT: FERTILE SPADE 97-11

1. CVX conducted a FERTILE SPADE on 21 Jan 97.
2. Participants: NE SAOC and 102 FW
3. Scenario: A Lear jet simulated an airliner from a country of interest deviating from a flight plan due to being hijacked. The target was intercepted by two F-15s from the 102 FW.
4. NE SAOC objectives:
 - a. Track Detection and Identification
 - b. Scramble and Intercept Procedures
 - c. Hijack Procedures
 - d. Internal/External Agency Coordination
 - e. OPSEC/COMSEC Awareness
5. Track Detection and Identification: The Southeast SAOC Identification Section called Huntress ID to pass the target flight plan information. The SE incorrectly identified the track as a FEDERAL rather than FERTILE SPADE. While this was misleading, there was no impact on track detection or identification. The target was quickly detected by the Tracking Technician (TT). The Identification Technician (IDT) correctly used the information received from the SE to identify the track as a Special 23. Once the flight plan deviation was confirmed, the track was made a Special 27. The Lear then

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transmitted to the Weapons Controller that he was simulating squawking mode III 7500 and the IDT made the track a Special 15.

6. **Scramble and Intercept Procedures:** Once FAA requested assistance with the hijack aircraft, the interceptors were quickly scrambled. The scramble heading of 250 degrees was based on a northbound target track. When the track deviated to the West toward JFK Airport, this heading created a hot intercept that could have jeopardized the covert operation. Recommend the Controller be aggressive in quickly adjusting to this type of fluid scenario so that the interceptors remain undetected by the target. In spite of this target maneuvering, the fighters were very successful in remaining covert. Additionally, the Controller continued to provide Bogey Dope to the fighters after they called Tally on the track. Recommend the Controller prompts for a Judy call after Tally to determine intercept responsibility (it cannot be assumed the fighter has assumed control of the intercept until he reports "Judy").(ACTION) All other procedures were handled well. Particularly noteworthy was the SD's coordination with the Otis SOF to keep him updated on the situation.

7. **Internal/External Agency Coordination:** Communications flowed well within and between sections. The DO moved to the Battle Staff area early in the scenario to reduce noise commonly encountered at the MCC position. In the future, recommend someone set up the scope and communications in the Battle Staff area early so the DO can more effectively monitor the tactical situation. To further streamline operations at the MCC position, the MCC/T needs to delegate OPREP-3 reporting.(ACTION) This would alleviate some of his workload and prevent task saturation. For example, the initial voice report was sent as a Beeline and needed to be amended to Pinnacle when the track became a Hijack. A designated MCC/T responsible only for OPREP-3 reporting could have expedited this change.

8. **Hijack Procedures:** There were no problems noted with Hijack procedures. There was some discussion as to why the DO checklist states that aircraft need to remain outside 30 miles when FAA does not want intercept assistance. The only identified criterion is ten miles set by FAA for traffic separation.(ACTION)

9. **OPSEC/COMSEC Awareness:** The DO made an announcement in the area for all sections to watch Open Line procedures. However, the DO made the only open line call during the scenario.(ACTION)

10. This report is intended to pass along observations to improve Sector performance during future events. The 177 FW at Atlantic City has informed CVX that they will be looking to conduct a no-notice AFE during the month of February. Crews need to be prepared for this scenario and expect it to be conducted as an IG inspection. This report

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is forwarded to directorates for further dissemination at their discretion. Any corrective actions identified in this report will be discussed at the next Directors Meeting.



ROBERT K. MARR, JR., Lt Col, NYANG
Director, Exercise and Analysis

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Copy

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS NORTHEAST AIR DEFENSE SECTOR (ANG)
ROME, NEW YORK

5 Mar 97

MEMORANDUM FOR CV, DO, DOC, LG, SC

FROM: NE AD Sector/CVX
4 Otis Street
Rome, NY 13441-4712

SUBJECT: FERTILE SPADE 97-15

1. CVX conducted a FERTILE SPADE on 26 Feb 97.
2. Participants: NE SAOC and 102 FW
3. Scenario: A Lear jet simulated a Spanish Air L1011 hijacked by terrorists with explosives on board. The target was intercepted by two F-15s from the 102 FW.
4. NE SAOC objectives:
 - a. Track Detection and Identification
 - b. Scramble and Intercept Procedures
 - c. Hijack/Terrorist Procedures
 - e. Internal/External Agency Coordination
5. Track Detection and Identification: The Surveillance Section quickly detected the track and followed all checklist procedures. Operations personnel observed two radar returns and asked the DQM to determine if there were two targets at that location. The track was sixty miles outside the correlation line which is too far out for the DQM to make that determination. In actuality the problem was double registration from two overlapping radar sites which created two radar returns. While the DQM did determine there was only one track, the AST never checked RTQC for double registration.
6. Scramble and Intercept Procedures: Once all identification possibilities were exhausted, the MCC aggressively directed the Senior Director to scramble alert aircraft at

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Otis prior to the track becoming Unknown. The Weapons Section performed all intercept procedures effectively. Even though the aircraft was not identified as hijack prior to the intercept, the Weapons Section made sure all precautions were taken to remain covert. Due to a request from the fighter squadron, the Lear was lights out during the intercept so the pilots could get some practice using Night Vision Goggles (NVG). The scrambled fighters were not anticipating this scenario which resulted in a time compressed situation of trying to adjust for NVGs during the final phases of the intercept.

7. Hijack/Terrorist Procedures: The scenario began in the morning with an Intel message outlining the situation of a simulated hijacked Spanish Air L1011 which took off from Lisbon with over 200 passengers and possible drums of explosives on board. The day crew and DO did an excellent job coordinating with higher headquarters and adjacent sectors developing courses of action based on the information available at the time. The target initially was appropriately classified as an Unknown, but aircraft spacing demanded by hijack restrictions were adhered to in anticipation of the hijack track.

8 Internal/External Agency Coordination: Communications within and between sections were noteworthy. Sections insured accurate information was passed and corrections made immediately when there was an error. All sections used their internal communications channels so noise in the operations room was kept at a minimum.

9. This report is intended to pass along observations to improve Sector performance during future events. Both the day and evening crews are to be commended for their teamwork and professionalism. This report is forwarded to directorates for further dissemination at their discretion. Any corrective actions identified in this report will be discussed at the next Directors Meeting.



ROBERT K. MARR, JR., Lt Col, NYANG
Director, Exercise and Analysis

cc: CC

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**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS NORTHEAST AIR DEFENSE SECTOR (ANG)
ROME, NEW YORK**

18 Jun 97

MEMORANDUM FOR CV, DO, DOC, LG, SC

FROM: NE AD Sector/CVX
4 Otis Street
Rome, NY 13441-4712

SUBJECT: FERTILE SPADE 97-26

1. CVX conducted a FERTILE SPADE on 16 Jun 97.
2. Participants: NE SAOC and 177 FW
3. Scenario: A Lear 35 simulated an IL-62 which had been hijacked. The target was intercepted by two F-16s from 177 FW.
4. NE SAOC objectives:
 - a. Response to IG Team Arrival
 - b. SAOC Initial Response
 - c. SAOC Command and Control
 - d. SAOC Employment
5. Response to IG Team Arrival: Personnel from CVX acted as the NORAD IG team to allow sections to practice procedures in anticipation of a NORAD Alert Force Evaluation (AFE). The Security Police processed the team quickly and efficiently. The MCC on duty gave a thorough brief to the team and was knowledgeable in all Sector outages. All slides were accurate both in the computer version and hard copy.
6. SAOC Initial Response.
 - a. Track Detection and Identification: The track was detected quickly and the possibility of a deviation was immediately addressed. Sim New York Center passed to Huntress ID that the aircraft was simulating a Hijack squawk when the mode III code changed to 5475. This

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information was initially overlooked because the sections were focusing on the possibility of a DMA. During a Spade, the crews need to be careful not to "read into" the scenario but listen carefully to all the information that is passed. Once the squawk was recognized as a Hijack, the classification was changed to a Special 15.

b. Tactical Action: Aircraft at Atlantic City were scrambled and airborne within all established time limits. The SD directed the WD to conduct a cold stern and remain covert.

c. Use of Proper Authentication Procedures: All authentication procedures were correct. Some of the other crews have conducted a double-check between the SD and WD to ensure there were no errors.

7. SAOC Command and Control.

a. Coordination: Good aggressive flow of information from the DO down to the Ops floor. Information between sections and coordination with external agencies also went well.

b. Reporting Procedures: The Form 61 and OPREP-3 voice reports were both passed within the five minute criteria. The hard copy reports also went out within NORAD established time limits.

c. Security: COMSEC concern was obvious. However, the crew procedures did not comply with the DO policy letter on "Open Line" Procedures dated 11 Jun 97.

8. Employment.

a. Management and Direction: The information required for the 30 mile call was passed between 25-28 miles. Recommend starting this call earlier so the information is not late. TCAS was implemented appropriately and the fighters turned off just Mode 3/C, maintaining mode 2.

b. Intercept Phase: The weapons team conducted a stern but the initial heading did not ensure the fighters remained covert. The fighters changed their heading to remain undetected by the simulated Hijack. The Weapons Section kept the fighters abreast of the operational situation, briefing them on changes in the hijackers intentions to go to JFK and then Dulles. All altitude changes were efficiently coordinated with PTC until the fighters called Judy and took over the intercept.

c. Post Intercept Phase: The pilots maintained five miles in trail of the hijack and monitored the situation. The thought process for the scenario was continued to a logical conclusion. The MCC/T aggressively coordinated with SAR on availability of assets.


9. This report is intended to pass along observations to improve Sector performance in upcoming Alert Force Evaluations. Areas observed are those listed in NI 90-3. No grades were applied to performance, although the results were very positive. Recommendations

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are provided to help present a well-polished performance. This report is forwarded to directorates for further dissemination at their discretion.



ROBERT K. MARR, JR., Lt Col, NYANG
Director, Exercise and Analysis

cc: CC

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DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS NORTHEAST AIR DEFENSE SECTOR (ANG)
 ROME, NEW YORK 13441-4507

30 Nov 98

MEMORANDUM FOR NBMC, CONUS RAOC, FACSFAC VACAPES, Norfolk Tower,
 NEW YORK ARTCC, WASHINGTON ARTCC, NORFOLK APPROACH, 1 AF/IGXL, NORAD J3Z, 1OSS/OSA, FLIGHT INTERNATIONAL

FROM: NEAD Sector/CVX
 4 Otis Street
 Rome, NY 13441-4712

SUBJECT: No-Notice Air Defense Exercise - FERTILE ANGEL 99-01 and FERTILE SPADE 99-07

The Northeast Air Defense Sector will conduct FERTILE ANGEL 99-01 and FERTILE SPADE 99-07 on 04 Dec 98. TSgt Lee or Major Labelle will be POC for this exercise, DSN 587-6752/6147 or 587-6394 at STARTEX.

2. The exercise will involve participation of CONUS RAOC, Norfolk Tower, VACAPES, Washington and New York ARTCC. Specific mission details are as follows:

- a. Exercise Name: FERTILE ANGEL 99-01 and FERTILE SPADE 99-07
- b. Fighter Unit to be scrambled/Base: 119FW DET 1/Langley AFB VA
- c. Target callsign/Aircraft Type: BOLAR70 / C5
- d. Departure Base/Time: DOVER AFB / as req'd
- e. Estimate time on station: 1+30 / 300KIAS
- f. MARSAs instructions: Target will be MARSAs with alert interceptors
- g. Initial Point (IP)/Altitude/Time(Z): BERGH 3908N / 7203W / FL210 / 1900Z
- h. End Exercise Point (EEP): 3720N / 7500W (Recovery)
- i. Flight altitude to recovery base: As Filed
- j. Routing: from filed routing - As per IFR flight plan -Dir BERGH- W386 (delay) - RTB WRI
- k. Airspace Reserved/ALT/Times: W386 Air D - K SFC - FL500 / 1900 - 2030Z
- l. Radio/IFF/SIF procedures: BOLAR 70 is to monitor freq. 251.8 B/U 258.0 on outbound route for pre-scenario coordination. Handoff from ATC to Zoom Control will occur at IP. BOLAR 70 is requested to squawk ATC assigned mode 3 until IP. BOLAR 70 will be directed to squawk mode 3 5402 at IP under Zoom Control.

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DO NOT ANSWER UNKNOWN RIDER CALLS UNTIL DIRECTED TO BY ZOOM CONTROL.

3. Scenario: The scenario is to evaluate emergency action and coordination procedures between the 119FW, FAA, VACAPES and the NE SAOC. BOLAR 70 will be simulating a Boeing 747 departing JFK enroute to Paris. The 747 (Trans Atlantic Flight 5050) was hijacked on departure and the terrorists have given the pilot a new destination. Due to political considerations the FBI and the FAA have directed Huntress Control (through NORAD) to direct the interceptors to force the heavy to land. Intercept will take place in W386 airspace. Initial Point for BOLAR 70 is BERGH 3809N / 7203W at FL210 then proceed direct to TP01 - 3801N / 7239W. Then turn southwest to TP02 3730N / 7330W. ZOOM CONTROL will advise BOLAR 70 when the C5 has entered special use airspace. At that time BOLAR 70 will be instructed to take different evasive maneuvers. Upon reaching TP 02 turn westerly to EEP 3720N / 7500W. Once the fighters have been positioned and all coordination checks have been completed the exercise will be terminated. Fighter blocks 5-9, Target blocks 0-4.
4. Special Instructions for Command and Control agencies:
 - a. FAA/VACAPES: **This is a NOPAR exercise, NO NOT PASS ANY INFORMATION TO HUNTRESS CONTROL.** Zoom Control will contact ATC 30 minutes prior to BOLAR70 entering assigned airspace for handoff coordination.
 - b. CONUS RAOC: Take form 61 information from MCCT; pass emergency/special track data to NBMC.
 - c. NBMC: This is an HIKACK scenario.
 - d. VACAPES/Washington ARTCC/New York ARTCC: Huntress or the flying unit may attempt to cancel the airspace since there is no regularly scheduled mission. Be advised no one from NEADS or HUNTRESS with the exception of TSgt Lee or Major Labelle may cancel this scheduled airspace.

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Gerald G Lee, TSgt, NYANG
NE ADS Live Exercise and Analysis

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS NORTHEAST AIR DEFENSE SECTOR (ANG)
ROME, NEW YORK

31 Mar 99

MEMORANDUM FOR CV, DO, DOC, LG, SC, SF

FROM: NE AD Sector/CVX
4 Otis Street
Rome, NY 13441-4712

SUBJECT: After Action Report (FERTILE SPADE 99-20)

1. CVX conducted a FERTILE SPADE on 25 Mar 99.
2. Participants: NE SAOC and 119 FW, Det 1, Langley AFB, VA
3. Scenario: A simulated NORAD Alert Force Evaluation (SAFE) was conducted with two live targets (2 F-15Cs) from the 1 FW, 94 FS. The F-15s simulated two LEAR 55s. One of the F-15s simulated a stolen LEAR with weapons of mass destruction (WMD) enroute from the Middle East, and the other a LEAR on a filed flight plan. The friendly LEAR 55 was shadowed by the stolen LEAR to appear as a single piece of radar data. The goal of this scenario was to exercise the Sector's WMD, HAVE QUICK, and tracking/identification procedures/checklists and LFI alert procedures.
4. NE SAOC Objectives:
 - a. Scramble/Intercept Procedures
 - b. Internal/External Coordination
 - c. WMD Procedures
 - d. NORAD Alert Force Evaluation (AFE) Practice
 - e. Exercise LFI Scramble Procedures
5. Care and Feeding of the IG: The Security Force desk personnel quickly and efficiently processed the IG. The SF desk personnel did an outstanding job in working a possible HELPING HAND event that occurred during the in-processing. The crew MCC met the IG at the Entry Control Point. Once the team completed in-processing, members were escorted into the SAOC Conference Room. The MCC and Weather Briefer presented an excellent briefing.

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6. Track ID and Detection: There were no problems noted in any areas. Kudos to the ID Section for catching the two tracks splitting.

7. AOC Command and Control:

- Coordination: There was excellent coordination between higher headquarters, adjacent sectors, and Ops floor sections.

- Reporting Procedures: Reports were current and sent out in a timely manner.

8. AOC Employment:

- Management and Direction: The SD provided the 119th FW/SOF with excellent information and mission updates throughout the mission. The Control Team provided effective guidance and direction to the fighters. HAVE QUICK was attempted but it was not effective. Two "MICKEYS" were sent, one from the SAOC and one from the fighters, but the radios could not synchronize.

- Intercept Phase: Excellent coordination with PTC. SD was very proactive throughout the mission with fighter management and information flow to the MCC/DO. When the targets split, the SD requested to split the flight to effectively negate any detection loss of the "threat aircraft." Unfortunately, the scenario was cut short due to one of the F-15's running short of fuel.

- Post Intercept Phase: No problems noted.

9. The crew performed in a highly positive and professional manner. This report is forwarded to directorates for further dissemination at their discretion. CVX POC for After Action Reports is Maj Nasypany, 6148.

CLARK F. SPEICHER, Lt Col, NYANG
Director, Exercise and Analysis

cc: CC

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