TAB DD

PDB-5+ Communication Compatibility

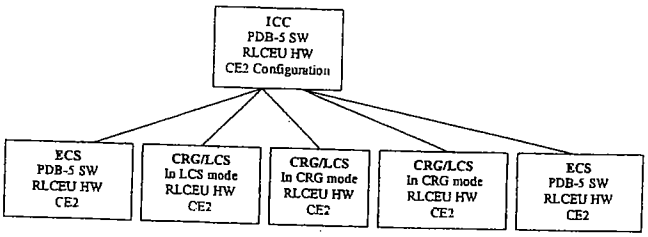
Review of Communications White Paper

Raytheon

Backward Compatibility
PDB-5 Capability

Raytheon Electronic Systems

Present Configuration of CE2 ICC controlling CE2 units

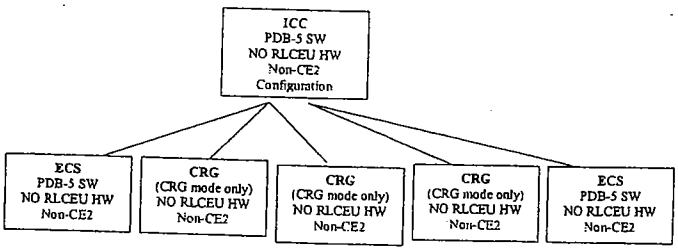


Raytheon

Backward Compatibility
PDB-5 Capability

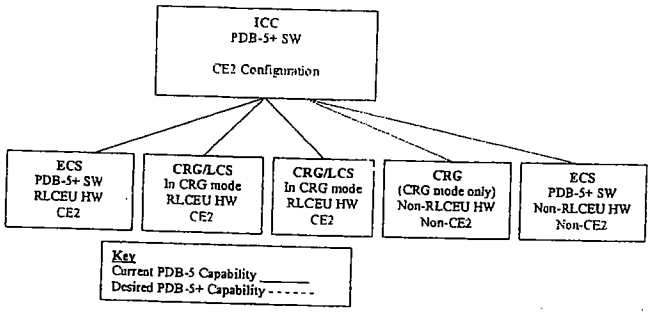
Raytheon Electronic Systems

Present Supported Configuration of Non-CE2 ICC controlling non-CE2 units



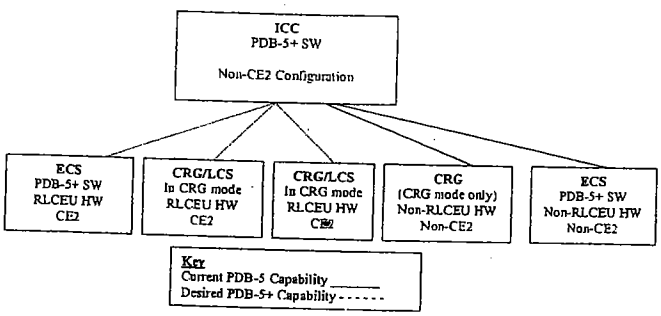
Backward Compatibility PDB-5+ Capability

Mixed Configurations of CE2 or Non-CE2 ICC controlling both CE2 and Non-CE2 units



Backward Compatibility
PDB-5+ Capability

Mixed Configurations of CE2 or Non-CE2 ICC controlling both CE2 and Non-CE2 units



Backward Compatibility
PDB5 MFT Initialization Issue

- The RLRIU Message Flag Table contains a "filter" or "pass" indication for each Patriot source code.
- New sources of data due the addition of Launch Control Stations
- Pre-PDB5 software used a 7-bit source code with a range of 0 to 127.
  - The Non-CE2 RLRIU correspondingly maintains a 128-entry source code filter table called the Message Flag Table (MFT).
- PDB5 software uses an 8-bit source code with a range of 0 to 255 to accommodate the new sources of message traffic.
  - The CE2 RLRIU correspondingly maintains a 256-entry Message Flag Table.
- In PDB5, the MFT initialization software at both the ECS and the ICC functions on the premise that entire battalion has been swept and all elements in the battalion are of the same configuration as its own based on MCS setting. (RLCEU CDR in August '96).
- In PDB5+, the RLRIU initialization software in the ICC and the ECS will be given the ability to initialize the message flag tables of RLRIUs of either CE2 or Non-CE2 configurations.

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Backward Compatibility
PDB-5+ MFT Initialization from FP

Raytheon Electronic Systems

New ECS TAB to define which elements are CE2 and which are non-CE2

TACI: New TAB 68 - Page 2

- Allows ECS operator to set configuration of all battalion RLRIUs.

New Page

```
                                    UNCLASSIFIED
          1         2         3         4         5         6
12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
      DATA COMMUNICATIONS CONTROL - BN ELEMENT STATUS  PAGE 2 OF 2 *68*
          *DO NOT CHANGE CONFIGURATION OF LOCAL FPn*

ICC/FP CONFIG      CRG  CONFIG        CONFIGURATION: 0=NON-CE2 HARDWARE
 ICC    (n)        CRG1  (n)                         1=CE2 HARDWARE
 FP1    ( )        CRG2  ( )
 FP2    ( )        CRG3  ( )
 FP3    ( )        CRG4  ( )
 FP4    ( )        CRG5  ( )
 FP5    ( )        CRG6  ( )
 FP6    ( )
```

Backward Compatibility
PDB-5+ MFT Initialization from ICC

New ICC TAB to define which elements are CE2 and which are non-CE2

BATI: New TAB 62 - Page 3

- Allows ICC operator to set configuration of all battalion RLRIUs.

New Page

```
        1         2         3         4         5         6
123456789012345678901234567890123456789012345678901234567890123456789
          ICC/ CRG/ LCS  DEPLOYMENT + COMMO ASSIGNMENT   PAGE 3 OF 3 *62*.
CONFIGURATION: 0=NON-CE2 HARDWARE, 1=CE2 HARDWARE
ICC/FP  CONFIG        CRG   CONFIG
 ICC      n
 FP1     (n)          CRG1  (n)
 FP2     (n)          CRG2  (n)
 FP3     (n)          CRG3  (n)
 FP4     (n)          CRG4  (n)
 FP5     (n)          CRG5  (n)
 FP6     (n)          CRG6  (n)
```

Warning: If the Operator makes a mistake in specifying the communications configuration, there are no software safeguards. This may result in inactive communication paths within the battalion; reducing multi-routing effectiveness and thus, the probability of successful message transfer.

Raytheon

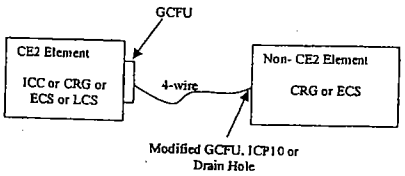
Backward Compatibility
PDB-5/5+ Hardware Connectivity - A

Raytheon Electronic Systems

Hardware Issue: Multiplexing Schemes

The CE2 upgraded systems have a different communications multiplexing scheme than the older non-CE2 systems.
UHF radios in a CE2 system are not over-the-air compatible with a non-CE2 element.

A 4-wire cable gateway can be used to connect
a CE2 sub-network to a non-CE2 sub-network



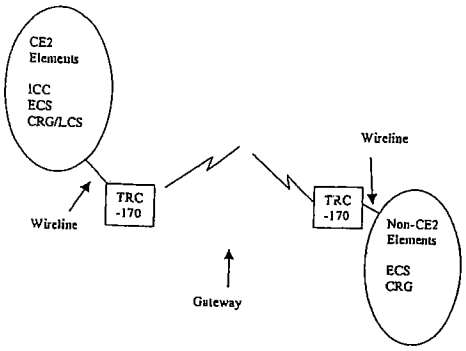
Raytheon

Backward Compatibility
PDB-5/5+ Hardware Connectivity - B

Raytheon Electronic Systems

TRC-170 troposcatter radios can be used as a data gateway between a CE2 and non-CE2 sub-networks

TRC-170 on the non-CE2 side must have the Patriot PADIL interface card



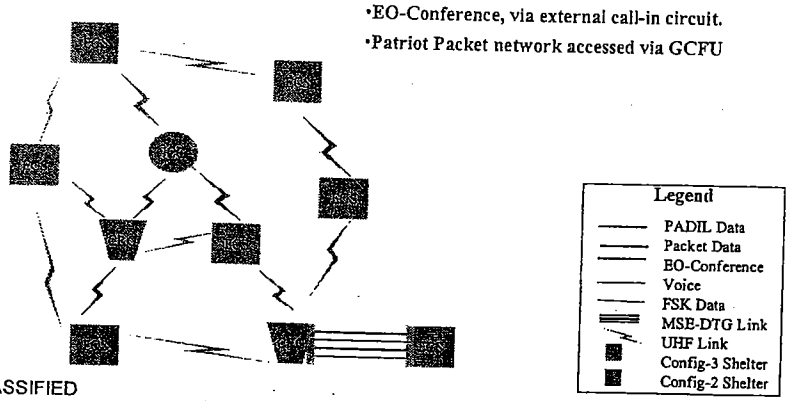
Backward Compatibility
PDB-5/5+ Hardware Connectivity - A
Amplification

Raytheon

Raytheon Electronic Systems

Colocated Config-2 ECS Participating In Config-3 Battalion

- PADIL Data over the Wireline via drain hole.
- Voiceservices provided by Switch in the colocated config-3 CRG shelter.
- EO-Conference, via external call-in circuit.
- Patriot Packet network accessed via GCFU



Backward Compatibility
PDB-5/5+ Hardware Connectivity - A
Detailed Amplification

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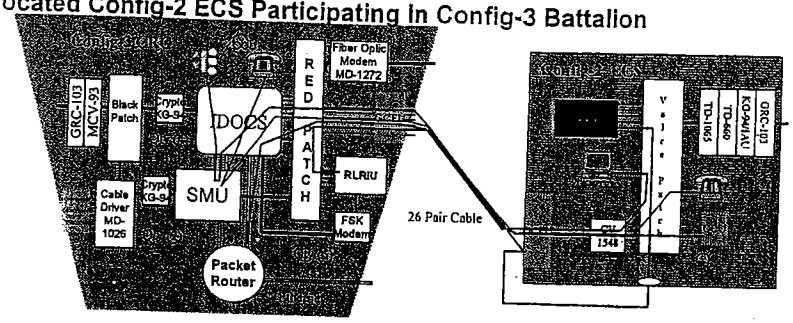
Raytheon Electronic Systems

Colocated Config-2 ECS Participating In Config-3 Battalion



Conference Path:

- Config-2 OCU via patch panel to GCFU
- Two GCFU joined by wire-line.
- GCFU channel connected to SMU via IDOCS

Conference Procedure:

- Call from Config-2 shelter is made
- SMU in config-3 shelter routes the call to call-ed OCU.
- Config-3 OCU operator patches the call to EO Party-line.

Legend

- PADIL Data
- Packet Data
- EO-Conference
- Voice
- FSK Data
- MSE-DTG Link
- UHF Link
- Config-3 Shelter
- Config-2 Shelter

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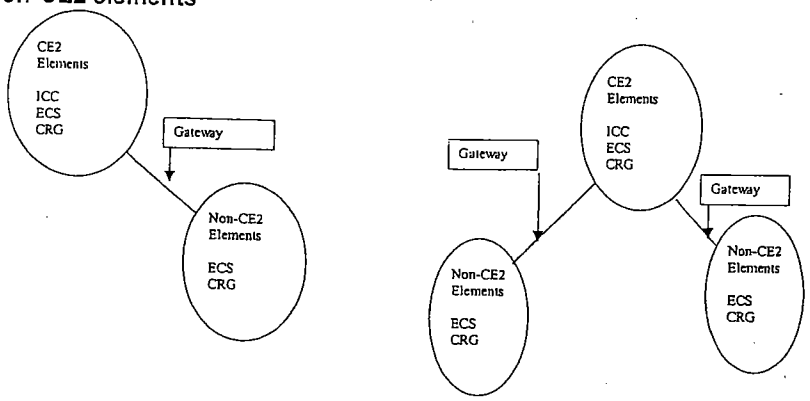
Backward Compatibility
Possible Sub-network Configurations

Raytheon Electronic Systems

A Possible Combination of Sub-networks and Gateways between CE2 and non-CE2 elements



Backward Compatibility
Duplicate Source Code Issue

- The PDB5 software and CE2 hardware supports 256 Source Codes
- Non-PDB5 and Non-CE2 hardware supports 128 Source Codes.
- The CE2 RLRIU recognizes these additional source codes. The Non-CE2 RLRIU contains no modifiable software and thus cannot be updated to differentiate the new codes from the original 128 codes.
- The overlapping band of source codes are only related to remote launch message packets.
- The duplicate message problem can be avoided completely by prohibiting the use of remote launch source codes in a mixed configuration battalion. I.e. NO Remote Launch Operations.

Backward Compatibility
Remote Launch Phase 3

WARNINGS:

- If the Operator makes a mistake in specifying the communications configuration, there are no software safeguards. This may result in inactive communication paths within the battalion; reducing multi-routing effectiveness and thus, the probability of successful message transfer.

- The Operator must insure that if Remote Launch Phase 3 is functioning in the CE2 sub-network, that there is no duplication of source codes with the Non-CE2 sub-network elements.

- The Operator must insure than there will be no means for a synchronization message to be multi-routed from a CE2 sub-network to a Non-CE2 sub-network and then return to the CE2 sub-network as that will throw the ECS/LCS out of synchronization.

- If an non-RLCEU element is emplaced as part of an existing Configuration 3 battalion that has a remote launch phase 3 capability, then the User must be trained to postpone all remote launch phase 3 functionality until the sub-network is completely configuration 3 compliant. (I.e. conditions above have been satisfied.)

Patriot SW IPR 6 March 1996
RLCEU SDR Action Item #18

Raytheon

Raytheon Electronic Systems

Can the Remote Launch capability be utilized prior to sweeping an entire Battalion with PDB-5 RLRIU-Us?

Response:

- PDB-5 requirements for Launch Control Stations (LCSs) place additional communication nodes on the Patriot UHF multi-routed network.
- Since Remote Launch adds LCSs to the network, each LCS must have a source code with which to communicate to it's Controlling PFP.
- The number of source codes for PDB-5 is increased to 256. To support this change, the Source Code field in the Routing Word of the PADIL message has been expanded by one bit.

Impact:

- The PDB-4 RLRIUs will check the PDB-4 7-bit source code field during duplicate message elimination. The PDB-5 RLRIUs will check the expanded 8-bit source code field during duplicate message elimination. A PDB-4 RLRIU by essentially masking off the 8th bit will not know the difference between an existing source code and one of the new ones. Thus the pre-PDB-4 RLRIU or PDB-4 RLRIU-U will discard the "duplicate" message. These new messages will only be utilized when operating with Launch Control Stations.
- Processing has been added to the CEII RLRIU-U to support system synchronization of a Patriot radar and a remote launch station. Every RLRIU-U in the multi-routed network must be capable of performing this function else transmission delays will not be accounted for and synchronization will not be possible.

Bottom line:

- The user CANNOT utilize remote launch capability until all RLRIU-Us in the BN are swept for PDB-5 capability.

TAB DE

SUMMARY

- [redacted]

- Unit Identified the incoming track [redacted] and Reported it to higher

- Unit challenged [redacted] with IFF and received No Response

- At [redacted] autical Miles the unit Manually Engaged [redacted]

- Unit had successfully engaged a TBM on 20 March 2003

- Unit was following established SPINS and TSOP procedures

TAB DF

LOG
SALEM.

C Y____OF____COPIES
HQ, TF IRON FIST
AL JABER, KUWAIT
19MAR03

[redacted]

Time Zone Used Throughout the Order: Zulu

TASK ORGANIZATION (S):

[redacted]

1. (U) SITUATION.

   a. (U) Enemy Forces. No Change.

[redacted]

1. (U) Tasks for Subordinate Units.

a. [redacted] HHB/2-1.

1). [redacted] Tactical Directors will verify all fire units are in compliance with 1003-V SPINS.

2) [redacted] Tactical Directors will enter [redacted] ACO in the system and disseminate to all fire units

b. [redacted]

c. [redacted]

2. (U) Coordinating Instructions.

a. [redacted] SPINS take effect 190300ZMAR03.

b. [redacted] Rules of Engagement take effect 191800ZMAR03.

c. [redacted] Commanders will report directly to the battalion commander when units have fully transitioned to [redacted] SPINs and ROE.

d. [redacted]

e. [redacted]

b. [redacted] Friendly Forces. As the deadline for possible conflict approaches, the command continues to prepare for full transition to [redacted] operations. Air Defense fratricide remains a top concern to the brigade and all actions must be initiated to mitigate the risk. Commanders closely monitor critical transition tasks as the stance transforms into combat operations. [redacted]

2. (U) MISSION. No Change.

3. (U) EXECUTION.

a. (U) Concept of the Operation. No Change.

b. [redacted]

[redacted]

[redacted]

3) [redacted]

c. (U) Coordinating Instructions.

[redacted]

[redacted]

[redacted]

4) [redacted]

4. (U) SERVICE & SUPPORT. No Change.

5. (U) COMMAND & SIGNAL. No Change.

ACKNOWLEDGE:

[redacted]

[redacted]

[redacted]
LTC

OFFICIAL:

[redacted]
S-3

DISTRIBUTION:
A

[redacted]

COPY___C _COPIES
HEADQUARTERS, 5-52 ADA
CAMP VIRGINIA, KUWAIT
280700ZFEB02

[redacted] **FRAGO 001 TO 5-52 ADA OPLAN KNIGHTHAWK STRIKE DATED 240001ZFEB03.**

(U) THIS FRAGO HAS BEEN APPROVED FOR RELEASE BY MAJ[redacted], 5-52 ADA BN S3.

[redacted] **THIS FRAGO PROVIDES GUIDANCE FOR REVISED/ UPDATED CONCEPT OF OPERATIONS AND TASK TO SUBORDINATE UNITS.**

[redacted] REFERENCES [**CHANGE**]:

[redacted] V CORPS OPLAN CHANGE #1

[redacted] MAPS: [NO CHANGE]

[redacted] TASK ORGANIZATION: [**CHANGE**] SEE ANNEX A (ATTACHED)

1. [redacted] SITUATION. [CHANGE]
   a. ENEMY FORCES: [NO CHANGE]
   b. FRIENDLY FORCES: [CHANGE]
      (1) COMCFLCC MISSION: [NO CHANGE]
      (2) COMCFLCC INTENT: [NO CHANGE]
      (3) V CORPS MISSION: [NO CHANGE]
      (4) V CORPS COMMANDERS INTENT: [DELETE ALL AND ADD FOLLOWING]:

V CORPS COMMANDER'S INTENT FOR THIS OPERATION IS PHASED:

PHASE II AND III A: SHAPING THE BATTLESPACE (PHASE II) AND SETTING CONDITIONS FOR DECISIVE MANEUVER (PHASE III A). NO CHANGE.

PURPOSE: ALLOW DECISIVE OFFENSIVE OPERATIONS IN PHASE III B

KEY TASKS:

- MAINTAIN AN INITIAL CORPS LEVEL C2 CAPABILITY IN THEATER
- ASSUME A CORPS AO
- DEPLOY AND RSOI FORCES ALREADY TAILORED TO CONDUCT COMBAT OPERATIONS
- ~~RECEIVE ATTACHMENT OF AND INTEGRATE FORCES AS THEY CLOSE IN THEATER~~
- DEFEAT THE IRAQI 11TH INFANTRY DIVISION
- PROTECT THE CORPS RIGHT FLANK BEYOND THAT PROTECTED BY I MEF FORCES
- ESTABLISH SECURE CROSSING AREAS WEST OF AN NASIRIYAH
- INITIATE CIVIL MILITARY OPERATIONS AS REQUIRED IN ORDER TO MAINTAIN TEMPO OF THE ATTACK
- CONTINUE THE ATTACK IN ORDER TO MAINTAIN OPERATIONAL TEMPO,
- CONDUCT A FORWARD PASSAGE OF I MEF FORCES IOT ENSURE CONTINUED PROTECTION OF THE CORPS RIGHT FLANK
- ESTABLISH LSA ADDER IOT ENSURE THE ABILITY TO SUPPORT CFLCC OPERATIONS IN PHASE II

END STATE:

- IRAQI RA FOR(ARE DEFEATED OR COMPLIANT WITH . . MILITARY DIRECTIVES
- CORPS HAS INTEGRATED THOSE FORCES REQUIRED FOR DECISIVE OPERATIONS
- SUFFICIENT BATTLESPACE BOTH NORTH AND SOUTH OF THE EUPHRATES SECURED IN ORDER TO CONDUCT AND SUSTAIN DECISIVE OPERATIONS
- CORPS POSTURED TO ATTACK NORTH TO BAGHDAD

PHASE III B AND C: DESTROY THE MEDINA DIVISION (PHASE III B) AND ESTABLISH THE INNER CORDON (PHASE III C)

PURPOSE: SET THE CONDITIONS REQUIRED TO ALLOW REGIME REMOVAL.

KEY TASKS:
- CONTINUE TO RSOI CORPS FORCES
- CONDUCT AVIATION ATTACKS WITHIN THE CORPS AO
- DESTROY THE MEDINA DIVISION OF THE RGFC
- CONDUCT CMO/HA OPERATIONS IN ASSIGNED AO
- PREPARE TO EXPLOIT SUDDEN REGIME COLLAPSE WITH RAPID GROUND MANEUVER TO BAGHDAD
- PROTECT THE CORPS EASTERN FLANK BEYOND I MEF'S LIMIT OF ADVANCE
- SECURE IRAQI WMD PRODUCTION, STORAGE, AND DELIVERY FACILITIES/SYSTEMS IN ZONE AS DIRECTED
- PREPARE FOR THE INTEGRATION OF COALITION FORCES
- CONDUCT DELIBERATE RIVER CROSSING OF EUPHRATES NORTH OF KARBALA, MOST LIKELY VICINITY AR RAMADI
- DEFEAT THE HAMMURABI DIVISION OF THE RGFC
- BE PREPARED TO INTERDICT THE LOC BETWEEN TIKRIT - BAGHDAD
- SECURE KEY TERRAIN SOUTH, WEST AND NORTH OF BAGHDAD TO POSTURE FORCES FOR FOLLOW-ON OPERATIONS AND TO ISOLATE OR DESTROY IRAQI LEADERSHIP
- PREPARE FOR TRANSITION TO OPERATIONS IN AND AROUND BAGHDAD

ENDSTATE:
- MEDINA DIVISION DESTROYED
- HAMMURABI DIVISION DEFEATED (INCAPABLE OF INTERDICTING MOVEMENT TO BAGHDAD)
- HIGH PRIORITY WMD PRODUCTION, STORAGE, AND DELIVERY SITES/SYSTEMS IN V (US) CORPS AO SECURED
- V (US) CORPS FORCES POSTURED FOR FOLLOW-ON OFFENSIVE OR TRANSITION OPERATIONS

PHASE IV A: REMOVE THE REGIME

PURPOSE: REMOVE THE CURRENT IRAQI REGIME

KEY TASKS:

- DESTROY NON-COMPLIANT RGFC FORCES, SRG FORCES AND REGIME SECURITY FORCES IN ASSIGNED CORPS AO
- CONTINUE TO SECURE PRIORITY SENSITIVE IRAQI WMD PRODUCTION, STORAGE AND DELIVERY FACILITIES/SYSTEMS IN ZONE.
- ASSUME A CORPS AO, TO INCLUDE AIRSPACE AND FIRES CONTROL MEASURES, VIC BAGHDAD WHICH IS SUFFICIENT TO ACHIEVE THE REMOVAL OF THE REGIME

- ASSUME A /MAND RELATIONSHIP WITH SELECTL CFC FORCES OPERATING W/IN THE CORPS AO
- SEIZE SADDAM HUSSEIN INTERNATIONAL AIRPORT AND OTHER OBJECTIVES WHICH PROVIDE BASES OF OPERATION IN AND AROUND BAGHDAD
- SEIZE KEY TERRAIN/FACILITIES IN AND AROUND BAGHDAD TO DEGRADE THE REGIME'S ABILITY TO EXERCISE CONTROL AND DIRECT OPERATIONS
- IDENTIFY ROUTES WHICH ALLOW FOR MOVEMENT AND SCREENING OF DCS TO DESIGNATED NGO/PVO/HA SUPPORT SITES. O/O, PROVIDE ROUTE AND SITE SECURITY
- CONDUCT ATTACKS AGAINST DESIGNATED TSTS
- CONDUCT CONCURRENT STABILITY OPERATIONS WITHIN THE CORPS AO
- BPT CONDUCT OPERATIONS VIC. TIKRIT AND EXPAND THE ESTABLISHED CORPS AO
- BPT PROVIDE NECESSARY POPULATION CONTROL TO PREVENT UNREST AND ENABLE THE NEW GOVERNMENT'S LEGITIMACY
- BPT ESTABLISH AND MAINTAIN AND SECURITY OF A GROUND LOC TO JORDAN
- BPT TO CONDUCT LINK UP WITH AND ASSUME OPCON OF CFC FORCES ATTACKING FROM TURKEY
- POSTURE FORCES/ASSETS TO SUPPORT POST-HOSTILITY OPERATIONS

END STATE: IRAQI REGIME INCAPABLE OF EFFECTIVELY EXERCISING POWER WITHIN IRAQ

[redacted]

[redacted]

(C) [redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

2. [redacted]-52 ADA MISSION. [NO CHANGE]

[redacted] EXECUTION. [CHANGE]

A. [redacted] COMMANDER'S INTENT. [NO CHANGE]

B. [redacted] CONCEPT. **[DELETE ALL AND ADD FOLLOWING]**

(1) **PHASE I** (PREPARATION)(PRESENT- A DAY)-PHASE II (SHAPING OPERATIONS)(A-DAY-LD): COMBAT POWER FLOWS INTO KUWAIT IN ACCORDANCE WITH RFF 174 , 177 & 185. 31ST ADA BDE PROVIDES SUPPORT TO 6-52 ADA AND 5-52 ADA AS THEY CONDUCT MISSION PLANNING, PRE-DEPLOYMENT ACTIVITIES, AND DEPLOYMENT AS ORDERED. UPON RECEIPT OF DEPORD, UNITS BEGIN PREPARATION FOR DEPLOYMENT AND ON ORDER FROM THEIR RESPECTIVE CORPS OR HIGHER HEADQUARTERS, BEGIN MOVEMENT TO APOE/SPOE OF PERSONNEL AND CARGO. ~~UNITS REMAIN ASSIGNED TO PARENT HEADQUARTERS FOR PREPARATION ACTIVITIES BEF REPORT DEPLOYMENT/CIRCE READINESS INFORMATION TO 31ST BDE HQ AS DIRECTED. THIS PHASE WILL SEE THE DEPLOYMENT OF HHB/A/B/C/D/E/50TH~~ 5-52 ADA, C/6-52 ADA AND 31ST ADA BDE HQ IN ACCORDANCE WITH RFF 174 ,177 AND 185. ~~ONCE PAX AND EQUIPMENT ARE IN THEATER AND RSOIS COMPLETE, 31ST BDE PATRIOT UNITS WILL PROVIDE TBM/ABT DEFENSE OF 11AHR AND 3ID MAIN FORCES AT CAMPS NY/NJ AND UDARI AND OTHER V CORPS CRITICAL ASSETS AS THEY FLOW INTO THEATER~~ O/O AS 3ID OCCUPIES NORTHERN ATTACK POSITIONS (1BCT & 3BCT), 5-52 ADA DEPLOYS A PATRIOT BATTERY FORWARD TO PROVIDE ABT/TBM DEFENSE. O/O 5-52 ADA DEPLOYS A SECOND PATRIOT BATTERY FORWARD TO PROVIDE ABT/TBM DEFENSE OF THE SOUTHERN ATTACK POSITION (2BCT & 3-7 CAV), AND BATTALION HQS DEPLOYS TO PROVIDE C2. ~~A/5-52 SIGN FOR AND MAN EAC FLOAT EQUIPMENT MINIMUM ENGAGEMENT PACKAGE (SHORTSTOP) EQUIPMENT AND PROVIDE ABT/TBM DEFENSE TO 11TH AHR AND CAMPS NY & UDARI. 5-52 ADA SYNCHRONIZES THE TRANSITION OF UNITS PROVIDING ABT/TBM DEFENSE OF 11TH AHR AND 3ID CAMPS AND PROVIDES CONTINUOUS COVERAGE THROUGHOUT PHASES.~~ BDE HQS CONDUCTS C2 OPERATIONS BEGINNING 251200FEB03 @ CP VA UTILIZING JTOC EQUIPMENT.

(a) HIGH-VALUE ASSET PRIORITIES FOR THIS PHASE:

1. ~~11TH AHR AND OTHER AVIATION ASSETS @ CAMP UDARI~~
2. 3ID ATTACK POSITIONS
3. ~~3ID MAIN & OTHER FORCES AT CAMP NY AND NJ~~

(2) **PHASE II** (SHAPING OPERATIONS)(A DAY-LD): 3ID DEPLOYS FROM TAAs INTO ATTACK POSITIONS. THE EAC PATRIOT FLOAT MEP, MANNED BY ~~C/5-52 ADA (VIC CAMP NEW JERSEY)~~, CONTINUES TO COVER 11AHR AT CAMP UDARI, ~~3ID MAIN & FORCES AT CAMPS NY AND PA.~~ 5-52 ADA DEPLOYS ONE BTRY FORWARD TO PROVIDE ABT/TBM DEFENSE OF 1BCT AND 3 BCT ATTACK POSITIONS AND AN ADDITIONAL PATRIOT BTRY

PROVIDES ABT/TBM D NSE FOR 2BCT AND 3-7 CAV ATTACK . TIONS. ~~A/5-52 IS CONDUCTING RSOI OF EQUIPMENT IN PREPARATION FOR FOLLOW-ON ORDERS.~~

(3) **PHASE III A** (SET THE CONDITIONS FOR DECISIVE MANEUVER)(LD – PREPARATION FOR DESTRUCTION OF MEDINA DIVISION): HHB/B/E/507TH CONDUCT MOVEMENT TO OBJ RAMS TO PROVIDE ABT/TBM DEFENSE OF 11AHR & 12 AVN AND OTHER FORWARD V CORPS ASSETS. 5-52 (-) ADA ARE TACON FOR MOVEMENT TO 1BCT DURING MOVEMENT TO OBJ RAMS. UPON COMPLETION OF RSOI, A/5-52 CONDUCTS MOVEMENT TO VICINITY FOB 5. ~~C/5-52 ADA CONTINUES TO PROVIDE ABT/TBM DEFENSE TO 11 AHR IN CAMP UDARI. C/5-52 IS ATTACHED TO 2-1 ADA NLT G-DAY AND WILL CONTINUE TO PROVIDE ABT/TBM DEFENSE TO CORPS ASSETS @ CP NEW JERSEY & UDARI DURING THROUGHOUT THE OPERATION.~~ C/6-52 CONDUCTS RSOI OF PERSONNEL AND EQUIPMENT. THIS PHASE ENDS ONCE 3ID IS PREPARED TO DESTROY THE MEDINA DIVISION.

(a) HIGH VALUE ASSET PRIORITIES FOR THIS PHASE:
~~1. 11TH AHR @ UDARI~~
2. 11TH AHR & 12 AVN @ OBJ RAMS
~~3. CP NY AND UDARI~~

(4) **PHASE III B** (DESTROY THE MEDINA DIVISION): B & E/5-52 PROVIDES ABT/TBM DEFENSE FOR OBJ RAMS. AFTER 3ID HAS SECURED FOB 5, A/5-52 UNITS PROVIDE ABT/TBM DEFENSE FOR FOB 5. ~~C/5-52, USING EAC FLOAT SYSTEM, PROVIDES ABT/TBM DEFENSE TO 11AHR.~~

(a) HIGH VALUE ASSET PRIORITIES FOR THIS PHASE:
1. 11TH AHR &12 AVN @ OBJ RAMS
2. FOB 5
3. 3ID MOVEMENT THROUGH KARBALA GAP
~~4. CP NY AND UDARI~~

(5) **PHASE III C** (ESTABLISH THE INNER CORDON): A/5-52 CONTINUES DEFENSE OVER FOB 5. B/5-52 AND E/5-52 PROVIDE DEFENSE FOR OBJ RAMS. ~~C/5-52, USING EAC FLOAT SYSTEM, PROVIDES ABT/TBM DEFENSE TO V CORPS CRITICAL REAR ASSETS.~~ C/6-52 COMPLETES RSOI OF EQUIPMENT O/O MOVE TO OBJ RAMS AND CONDUCT RELIEF IN PLACE WITH B/5-52. THIS PHASE ENDS ONCE V CORPS HAS ESTABLISHED AN AO VIC BAGHDAD.

(a) HIGH VALUE ASSET PRIORITIES FOR THIS PHASE
1. 11TH AHR & 12 AVN @ OBJ RAMS
2. 101ST AASLT @ FOB 5
3. CORPS MAIN @ OBJ CHARGERS
4. 3ID MOVEMENT THROUGH KARBALA GAP
~~5. CP NY AND UDARI~~

(6) **PHASE IVA/B** (REMOVE THE REGIME & TRANSITION TO POST HOSTILITIES): THIS STAGE BEGINS ON ORDER AS 3ID AND 1 MEF CONTINUE THE ATTACK OF BAGHDAD. B/E PROVIDES TBM/ABT DEFENSE TO OBJ RAMS. A/5-52 CONTINUES ABT/TBM DEFENSE. ~~C/5-52, USING EAC FLOAT SYSTEM, PROVIDES ABT/TBM DEFENSE TO V CORPS CRITICAL REAR ASSETS. O/O FIRE UNITS ARE PREPARED TO MOVE TO SUPPORT ANY CHANGES TO THE V CORPS CONCEPT OF OPERATIONS.~~ THIS PHASE ENDS WITH THE CORPS HAVING TRANSITIONED ITS OPERATIONS TO CJTF 4-4 AND CORPS FORCES RE-DEPLOYED AND PREPARED FOR FOLLOW ON OPERATIONS.

(a) HIGH VALUE ASSET PRIORITIES FOR THIS PHASE
1. 3ID/101ST @ OBJ LIONS
2. CORPS MAIN @ OBJ CHARGERS
3. 11TH AHR & 12 AVN @ OBJ RAMS
4. 101ST AASLT @ FOB 5
5. CP NY, AND UDARI

c. TASKS TO SUBORDINATE UNITS. **[DELETE ALL & ADD FOLLOWING]** REFER TO ATTACHMENT #1 (31ST BRIGADE SYNCHRONIZATION MATRIX DATED 241800FEB03) FOR UNIT TASKS BY PHASES OF OPERATION.

(1) 31ST BDE HQS WILL ISSUE BATTERY MOVEMENT WARNING ORDERS (MWO) & MOVEMENT EXECUTION ORDERS (MEO) TO BN HQS. UPON RECEIPT OF MWO (IDEALLY 12 HRS PRIOR TO MEO) UNIT MARCH ORDERS ALL NON-MISSION ESSENTIAL EQUIPMENT. UPON RECEIPT OF MEO, UNITS HAVE ONE HOUR TO MARCH ORDER EQUIPMENT AND REPORT "RODEO RED" TO 31ST BDE HQs. UNITS WILL UTILIZE TACTICAL MOVEMENT COLOR CODE SYSTEM IAW APPENDIX 7 OF 31ST BDE FSOP DATED 24 APRIL 2002.

(2) C/3-124 (-) INF

(a) PROVIDE FORCE PROTECTION TO 5-52 ADA.

(b) PROVIDE LIMITED FORCE PROTECTION TO 31ST BDE.

I have the follow-on mission same mission

(3) A/5-52 ADA

(a) ~~ASSUME MISSION ON SHORTSTOP EQUIPMENT AT CAMP NEW JERSEY TO PROVIDE AIR AND MISSILE DEFENSE FOR CAMP UDARI AT A PTL OF 0 DEGREES AND ALERT STATE 2.~~

(b) UPON MISSION ASSUMPTION REPORT TO ICC AND TCS IMMEDIATELY.

(4) E/5-52 ADA

(a) ASSUME MISSION ON ORGANIC PAC-III/CONFIG-3 EQUIPMENT AT CAMP NEW JERSEY AT A PTL OF 25 DEGREES.

(b) UPON MISSION ASSUMPTION REPORT TO ICC AND TCS IMMEDIATELY.

© BPT to displace and tactically move to conduct Air and Missile Defense of TAA Detroit.

~~(5) C/6-52 ADA~~

~~(a) ASSUME MISSION ON ORGANIC PAC-II/ CONFIG -2 EQUIPMENT AT CAMP NEW JERSEY IOT RSOI EQUIPMENT.~~

(b) BPT MOVE UNIT, ONCE RSOI IS COMPLETE, TO OBJ RAMS IOT CONDUCT RELIEF IN PLACE WITH A 5-52 ADA PATRIOT BATTERY.

I [redacted]

[redacted]

[redacted]

4. (U) SERVICE SUPPORT. **[ADD THE FOLLOWING]**

1. (U) SERVICE SUPPORT. Missile Distribution Plan (CG, 32d AAMDC approved 20 Jan 03.

a. Initial Distribution:

5-52 ADA BN: 4 PAC III / 50 GEM/0 PAC II
B/5-52 ADA: 4 PAC III/23 GEM/0 PAC II
E/5-52 ADA: 0 PAC III/27 GEM/0 PAC II

b. Pre – A Day Missile Distribution Plan.

5-52 ADA BN: 12 PAC III / 50 GEM / 42 PAC II
B/5-52 ADA: 4 PAC III/23 GEM/13 PAC II **(8 PAC II on GMT)**
E/5-52 ADA: 8 PAC III/27 GEM/9 PAC II **(8 PAC II on GMT)**
~~C/6-52 ADA: NO EQUIPMENT IN THEATER~~
~~MSA: 0 PAC III/0 GEM/20 PAC II.~~

c. ~~ALL UNITS WILL DRAW THEIR COMPLEMENT OF PAC II MISSILES NLT 011 [illegible] FROM THE MSA LOCATED @ CAMP [illegible] MISSILES WILL BE UPLOADED ONTO LAUNCHERS AND SERVICEABILITY CHECKS WILL BE CONDUCTED.~~ A STATUS REPORT WILL BE SUBMITTED TO BN UPON COMPLETION.

5. (U) COMMAND AND SIGNAL. **[NO CHANGE]**

ACKNOWLEDGE

//ORIGINAL SIGNED//
[redacted]
LTC

[redacted]

31ST ADA BRIGADE:

HHB, 31ST ADA BDE (RFF 177)

I/1/C/3-124 INF (1 X SQUAD)

TF 5-52 ADA (RFF 174/177)

HHB/5-52 ADA (2 x TROPO TEAMS)

A/5-52 ADA

B/5-52 ADA (2 x TROPO TEAMS)

C/5-52 ADA

D/5-52 ADA

E/5-52 ADA (2 x TROPO TEAMS)

507TH MT CO

C/3-124(-) INF

TF 6-52 ADA (CURRENTLY ON TPFDD)

HHB/6-52 ADA

A/6-52 ADA

B/6-52 ADA

C/6-52 ADA

D/6-52 ADA

E/6-52 ADA

549TH MT CO

1-265TH ADA BN (CURRENTLY ON TPFDD)

HHB/1-265

A/1-265 ADA

B/1-265 ADA

C/1-265 ADA

2-174TH ADA BN (CURRENTLY ON TPFDD)

HHB/2-1

A/2-174

B/2-174

C/2-174

ACKNOWLEDGE:

[redacted]

OFFICIAL:

LTC

[redacted]

S3

COPY 4 OF 10 COPIES
HEADQUARTERS, 5-52 ADA
CAMP VIRGINIA, KUWAIT
030700ZMAR03

[redacted]

2. [redacted]

[redacted]

A. [redacted]

[redacted]

[redacted]

4. (U) SERVICE SUPPORT. **[NOCHANGE]**

5. (U) COMMAND AND SIGNAL. **[NO CHANGE]**

ACKNOWLEDGE

//ORIGINAL SIGNED//
[redacted]
LTC

[redacted]
S3

DEPARTMENT OF THE ARMY
UNITED STATES ARMY AIR DEFENSE ARTILLERY CENTER AND FORT BLISS
FORT BLISS, TX 79916-6812

PERMANENT ORDERS 55-502 24 February 2003

C BATTERY, 5-52 ADA BDE, Super Cargo, (WD0AC0) Fort Bliss, Texas 79916
D BATTERY, 5-52 ADA BDE, Super Cargo, (WD0AD0) Fort Bliss, Texas 79916
C BATTERY, 5-52 ADA BDE, Main Body (1), (WD0AC0) Fort Bliss, Texas 79916
HHB, 5-52 ADA BDE, Main Body (1), (WD0AT0) Fort Bliss, Texas 79916
D BATTERY, 5-52 ADA BDE, Main Body (1), (WD0AD0) Fort Bliss, Texas 79916
HHB, 5-52 ADA BDE, Main Body (3), (WD0AT0) Fort Bliss, Texas 79916
507TH Maintenance Company, Main Body (3), (WB37AA) Fort Bliss, Texas 79916

Following organization/unit action directed.
Action: Attachment/Temporary Change of Station
Assigned to: Headquarters, United States Army Forces Command, Ft McPherson, GA 30330-6000
Effective dates: 25 February 2003

Accounting Classification: Not applicable
Authority: HQ FORSCOM Message 092210Z, 0922126Z, 092216Z Jan 03 Subject: FORSCOM DEPLOYED ISO Operation Enduring Freedom Serial 177B(S)

Additional Instructions:
1. Unit and all supporting elements are placed under the OPCON of commander USCENTCOM for duration of deployment in the CENTCOM AOR, concurrent UCMJ authority transfers to CDR USCENTCOM with OPCON all UCMJ authority and authority over the general administration of Military Justice that may be exercised over assigned force to include under Articles 15,22,23 and 24. Unit and all supporting elements and are attached to ARCENT-KU (W4TAAA) upon arrival at APOD for rations, quarters, and administrative support. Soldiers will deploy in a TCS status in support of Operation Enduring Freedom.
2. Accompanying personnel-see attached roster.
3. Ensure that attached roster includes: Soldier's Last Name, First Name, Middle Initial, Grade and last five digits of SSN (E.G. 0-5835)
4. Unit members who are part of advance party, main body, or trail party will move to theater as part of a unit movement.
5. Unit members who are moving to theater under individual TCS orders (Format 401) as fillers or in a follow on mode will flow through the CONUS Replacement Center (CRC), FT. Banning, GA.
6. Administration: Process soldiers IAW AR 608-8-11 for overseas movement. Conduct HIV testing IAW AR 600-110.
7. Funding: Supporting installation will bear incremental deployment expenditures for this operation and capture expenses using MDEP VFRE and FCA F3202.
Fund cite: FY03, 2132020.0000 01-1100 P135198 21T1/21T2/22NZ/2579 VFRE F3203 5570 S99999 (OEF)
8. Pay and allowance entitlements: Service members deploying to SWA are in a TDY/TCS status. Soldiers are authorized BAS if lodging and meals are provided then soldiers are authorized three dollars and fifty cents ($3.50) per day (incidental expenses).
9. Entitlements authorized: Soldiers are authorized Hardship Duty Pay (HDP) based on location of duty and Foreign Duty Pay. Family Separation Allowance Type II is authorized to soldiers with dependents on TCS away from their permanent duty station for more than 30 consecutive days. Soldiers are authorized Hostile Fire/Imminent Danger Pay (IDP) at 150 dollars per month and Combat Zone Tax Exclusion (CZTE).
11. Dependents of soldiers occupying government quarters are authorized to remain in those quarters.
11. Movement of family members to a designated location is not authorized at government expense.
12. Dislocation allowance is not authorized.

13. BAH will be paid based on the member's permanent duty station (PDS). Mobilizing soldiers are entitled to BAH and it is paid to those soldiers with dependent(s) and /or maintaining a home of residence
14. The rate is determined by the soldiers home ZIP code not the PDS: See 260203 DODFMR Vol 7A. Soldiers cannot receive both BAH and storage of Household goods (HHG) entitlements.
15. Authorized transportation of individually assigned, government owned weapons. Courier authorization; personnel with SECTRET clearance are authorized to carry classified documents commensurate with level of clearance. Travel variations are authorized.
16. Special storage of House Hold Goods (HHG). Single personnel both RC/Active), Soldiers married to another soldier when both deployed, and single parents when a childcare plan requires dependent to leave the residence, may store HHG at government expense for the period of the contingency operation. When this option is executed **there is no entitlement of the soldier to receive both BAH and storage.**
—Personal property is authorized IAW JFTR U4770. Storage of one POV authorized. Installation contract will be utilized. Fund cite will be provided separately.
17. Supporting organizations are required to report all costs to Program and Budget Division, DRM, for reimbursement, as appropriate.

Format 745

FOR THE COMMANDER:

Encl

C. L. [illegible]
AG

DISTRIBUTION:
HQDA, Alexandria, VA 22332-0400
DAPE-OPD (1)
DAMH-FPO (2)
DAMH-HSO (1)
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HQ, FORSCOM: FCJ5-MD (2)
FCJ1-FS (2)
FCJ3-FD (2)
FCJ4-PO (2)
USAADACENFB: ATSA-DAC (HISTORIAN) (1)
ATZC-AGP-M (2)
ATZ-AGO- (1)
ATZC-AGP-SI (1)
ATZC-DPT-MZ (1)
ATZC-DPT-PO (5)
CDR, 32d AAMDC (2)
ATZC-DRM-B (1)
ATZC-DRM-T (2)
ATZC-IS (1)
ATZC-ISE-PR (1)
ATZC-IMP (1)
ATZC-JA (1)
ATZC-JAJ (1)
ATZC-DPT-MR (1)
CDR, 11th ADA BDE (2)
CDR, 5-52 ADA BN (2)
ATZC-DPWL ATTN: MR. RIVERA (1)
CDR: C BATTERY, 5-52 ADA BDE, Super Cargo, (WD0AC0) Fort Bliss, Texas 79916
D BATTERY, 5-52 ADA BDE, Super Cargo, (WD0AD0) Fort Bliss, Texas 79916
C BATTERY, 5-52 ADA BDE, Main Body (1), (WD0AC0) Fort Bliss, Texas 79916
HHB, 5-52 ADA BDE, Main Body (1), (WD0AT0) Fort Bliss, Texas 79916
D BATTERY, 5-52 ADA BDE, Main Body (1), (WD0AD0) Fort Bliss, Texas 79916
HHB, 5-52 ADA BDE, Main Body (3), (WD0AT0) Fort Bliss, Texas 79916
507TH Maintenance Company, Main Body (3), (WB37AA) Fort Bliss, Texas 79916

[redacted]

Copy _____ of _____ Copies
HQ, 11th ADA Brigade
Ali Al Salem, Kuwait
APO AE 09855
171800ZMAR03

FRAGO 25 to OPERATIONS ORDER 03-8 (IMPERIAL COBRA II), 11th ADA BDE

(U) References:

a. 11th Brigade Operations Order 03-8, dtd 181559ZFEB03

Time Zone Used throughout the Order: ZULU

1. (U) SITUATION.

a. Enemy Forces. No Change.

b. Friendly Forces. No Change.

2. (U) MISSION. No Change.

3. (U) EXECUTION.

a. [redacted] Tasks to Subordinate Units:

(1) TF 2-1 ADA

a. On order, assume command and control of D/5-52 vic TAA Thunder in order to provide TAMD of Thunder Road.

b. On order, assume command and control of C/5-52 vic Camp New Jersey in order to provide TAMD of Camps Udari, New York, and Pennsylvania.

[redacted]

4. (U) SERVICE SUPPORT. No Change.

5. (U) COMMAND & SIGNAL. No Change.

[redacted]

[redacted]

Copy _____ of _____ Copies
HQ, 11th ADA Brigade
Ali Al Salem, Kuwait
APO AE 09855
181939ZMAR03

FRAGO 27 (SS #1 & SS #3 C2) to OPERATIONS ORDER 03-8 (IMPERIAL COBRA II), 11th ADA BDE

(U) References:

a. 11th Brigade Operations Order 03-8, dtd 181559ZFEB03.

Time Zone Used throughout the Order: ZULU

1. (U) SITUATION.

a. Enemy Forces. No Change.

b. Friendly Forces. C/5-52 ADA becomes OPCON to 11th BDE effective 190900ZMAR03. A/5-52 released from TAMD mission for TAA Thunder effective 190300ZMAR03.

2. (U) MISSION. No Change.

3. (U) EXECUTION.

[redacted]

4. (U) SERVICE SUPPORT. No Change.

5. (U) COMMAND & SIGNAL. No Change.

6. (U) Safety. No Change.

ACKNOWLEDGE

[redacted]
COL

OFFICIAL:

[redacted]

[redacted]

[redacted]
S3

DISTRIBUTION:

11th ADA BDE
- CDR
- DCO
- S-1
- S-2
- S-3
- S-4
- S-6
- ADAFCO
- BDE KU LNOs

TF 2-1 ADA
- CDR
- S-3

CDR, 1-179 IN

CDR, HHB 11TH ADA BDE

CDR, 286th Signal CO.

[redacted]

TAB DG

Entire Tab Redacted - 3 pages.

TAB DH

py _____ of _____ Copies
HQ, 11th ADA Brigade
Ali Al Salem, Kuwait
APO AE 09855
100001ZMAR03

FRAGO 16 to OPERATIONS ORDER 03-8 (IMPERIAL COBRA II), 11th ADA BDE

(U) References:

a. 11th Brigade Operations Order 03-8, dtd 181559ZFEB03

b. 32nd AAMDC EXORD, dtd 3 MAR 03

c. 11th Brigade Fragmentary Order 10 to Operations Order 03-8

Time Zone Used throughout the Order: ZULU

1. (U) SITUATION.

a. Enemy Forces. No Change.

b. Friendly Forces. D/5-52 ADA OPCON to 11th ADA BDE, effective 050800ZMAR03, attached to TF Iron Fist 050900ZMAR03. "Team Bullpen" arrives in Kuwait on 100054Z MAR 03. All float equipment will be organized under "Team Bullpen".

2. (U) MISSION. No Change.

3. (U) EXECUTION.

[redacted]

b. [redacted]

[redacted]

4. (U) SERVICE SUPPORT. No Change.

5. (U) COMMAND & SIGNAL. No Change.

6. (U) Safety. No Change.

ACKNOWLEDGE

[redacted]

OFFICIAL:

[redacted]

S3

DISTRIBUTION:

11th ADA BDE
CDR
DCO
S-1
S-2
S-3
S-4
S-6

TF 2-1 ADA
CDR
S-3

CDR, HHB 11TH ADA BDE
CDR, 286th Signal CO.

[redacted]

TAB DI

For use of this form, see AR 190-45; the proponent agency is DCSOPS

LOCATION	DATE	TIME	FILE NUMBER
HANGER 17, ALI AL SALEM, B. KUWAIT	30 MAR 03	14	
LAST NAME, FIRST NAME, MIDDLE NAME	SOCIAL SECURITY NUMBER		GRADE/STATUS
[redacted]	[redacted]		CW3/ACTIVE

ORGANIZATION OR ADDRESS
HHB 11TH ADA BDE

I, [redacted], WANT TO MAKE THE FOLLOWING STATEMENT UNDER OATH:

I WAS AT THE APOD DURING THE EARLY MORNING HOURS OF 22 MAR 03. I RECEIVED A CALL AT APPROXIMATELY 0500L OF THE BLUE ON BLUE AT C/5-52. I ARRIVED AT CAMP NEW JERSEY APPROX AT 0830L. I IMMEDIATLY ENTERED THE ECS AND VERIFIED THAT [redacted] THE LOWER RIGHT HAND CORNER OF EACH DISPLAY HAD (/9B) SIGNIFYING THAT [redacted]. THE ECS HAD NO OTHER SOFTWARE BRICK OR INSTRUCTIONS ON [redacted]. THE UNIT WAS IN ALERT STATE 2, SO I ALSO CHECKED THE IFF. I VERIFIED THAT THE IFF WAS FUNCTIONAL AND WAS IN FACT RECEIVING IFF RESPONSES IN MODES I, III AND IV.

E BTRY 5-52 WAS MANNING THE EQUIPMENT AT CAMP NEW JERSEY AT THE TIME [redacted] BY HANK PRAYTOR OF RAYTHEON ACCORDING TO [redacted] OF RAYTHEON POSCO. END OF STATEMENT [redacted]

EXHIBIT	INITIALS OF PERSON MAKING STATEMENT	PAGE 1 OF 1 PAGES
	[redacted]	

ADDITIONAL PAGES MUST CONTAIN THE HEADING "STATEMENT OF ___ TAKEN AT ___ DATED ___ CONTINUED." THE BOTTOM OF EACH ADDITIONAL PAGE MUST BEAR THE INITIALS OF THE PERSON MAKING THE STATEMENT AND BE INITIALED AS "PAGE ___ OF ___ PAGES." WHEN ADDITIONAL PAGES ARE UTILIZED, THE BACK OF PAGE 1 WILL BE LINED OUT AND THE STATEMENT WILL BE CONCLUDED ON THE REVERSE SIDE OF ANOTHER COPY OF THIS FORM.

There is no

TAB DJ

TAB DK

CD

TAB DL

SERIES	1501 AIR
SHEET	NH 38-08
EDITION	9

SERIES 1501 COMPANION SHEET IS EDITION 8-GSGS

POPULATED PLACES
- Over 100,000 — BAGHDĀD
- 50,000 to 100,000 — KARKŪK
- 10,000 to 50,000 — Karbalā'
- 2,000 to 10,000 — Al Ḥadīthan
- Less than 2,000 — Bayji

ROADS
- Dual Highway — 6 LANES DUAL
- All weather, hard surface
  - Two or more lanes wide
  - One lane wide
- All weather, loose or light surface
  - Two or more lanes wide
  - One lane wide
- Fair or dry weather, loose surface
- Trail

RAILROADS
- Normal gauge 1m (3.3')
- Narrow gauge
- Abandoned

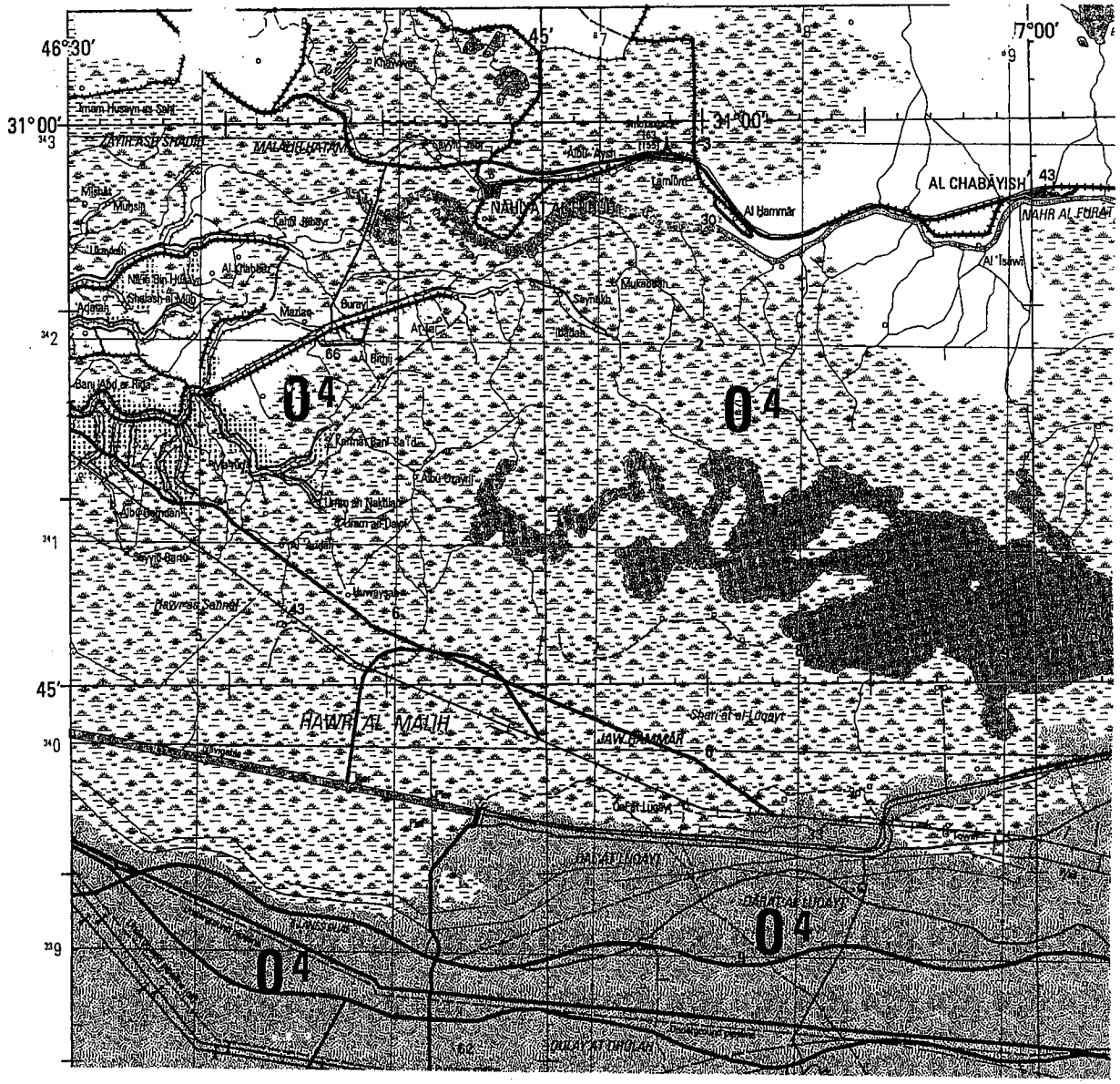
BOUNDARIES
- International boundary
- First-order administrative division

TERRAIN ELEVATIONS
- Horizontal control point
- Spot elevation: normal, critical — · 646 · 1273

HIGHEST KNOWN elevation is 499 feet at the following coordinates:
- Geographic — 30°04'N, 46°36'S
- Grid — PU5528

± following elevation values indicates accuracy is not within 100 feet

MISCELLANEOUS
- Landmark: feature, area
- Mosque, tank, ruins
- Pipeline
- Telephone/telegraph line
- Bridge
- Conveyor
- Distorted surface
- Sand
- Gravel
- Escarpment, levee
- Depression
- Area name — HAUD



HELIPORT ..... (H)

RADIO FACILITIES

RADIO RANGE LF/MF ..... RNG HURN

MULTIPLE RADIO FACILITIES ..... NDB-RNG LA HABANA

RADIO AIDS TO NAVIGATION

VHF OMNI RANGE (VOR) .....
VORTAC .....
TACAN .....
VOR with DME .....
Other Facilities .....

CONTROLLED AIRSPACE

ADIZ ..... ATLANTIC ADIZ

VISUAL AIDS AND OBSTRUCTIONS

Obstruction 1108 (259)

1108-Elevation of obstruction top,above sea level.
(259)-Elevation of obstruction top, above ground level.

Group obstruction .....

Radio facility obstruction .....

Power transmission line .....

Aero light, Marine light .....

CAUTION

AIR INFORMATION CURRENT THROUGH
15 NOVEMBER 1999

Consult NOTAMS and Flight Informations Publications for the latest information, the DOD Aeronautical Chart Updating Manual or MOD (U.K.) Aeronautical Chart Amendment document, for other chart revision information.

MAGNETIC VARIATION THROUGHOUT CHART AREA FOR 1995
IS APPROXIMATELY 3° 00' EAST
(Annual rate of change 1' increase)

LOCATION DIAGRAM
(ONC INDEX SHOWN IN BLUE)
(WAC INDEX SHOWN IN BROWN)

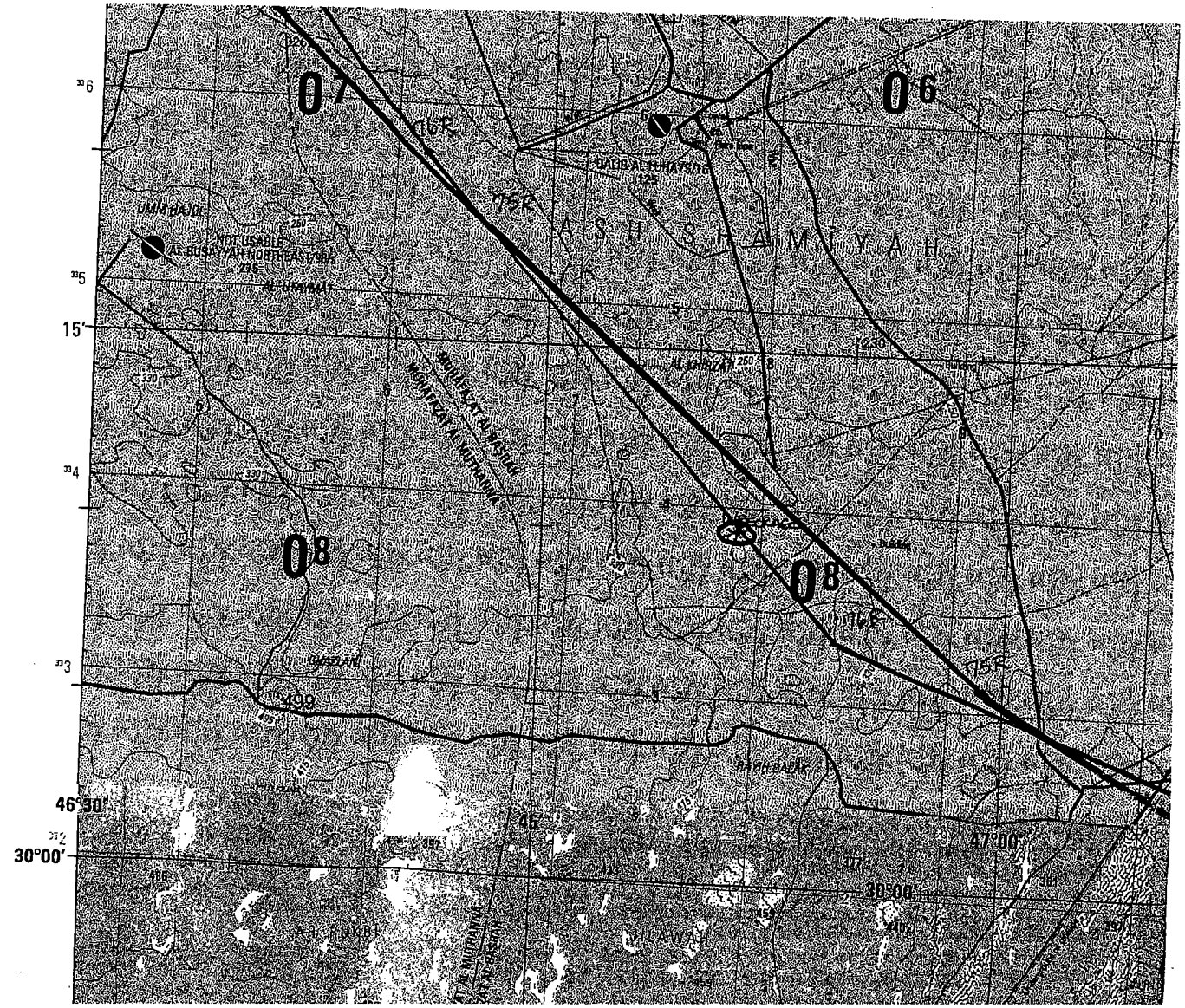
The representation of boundaries is not necessarily authoritative.

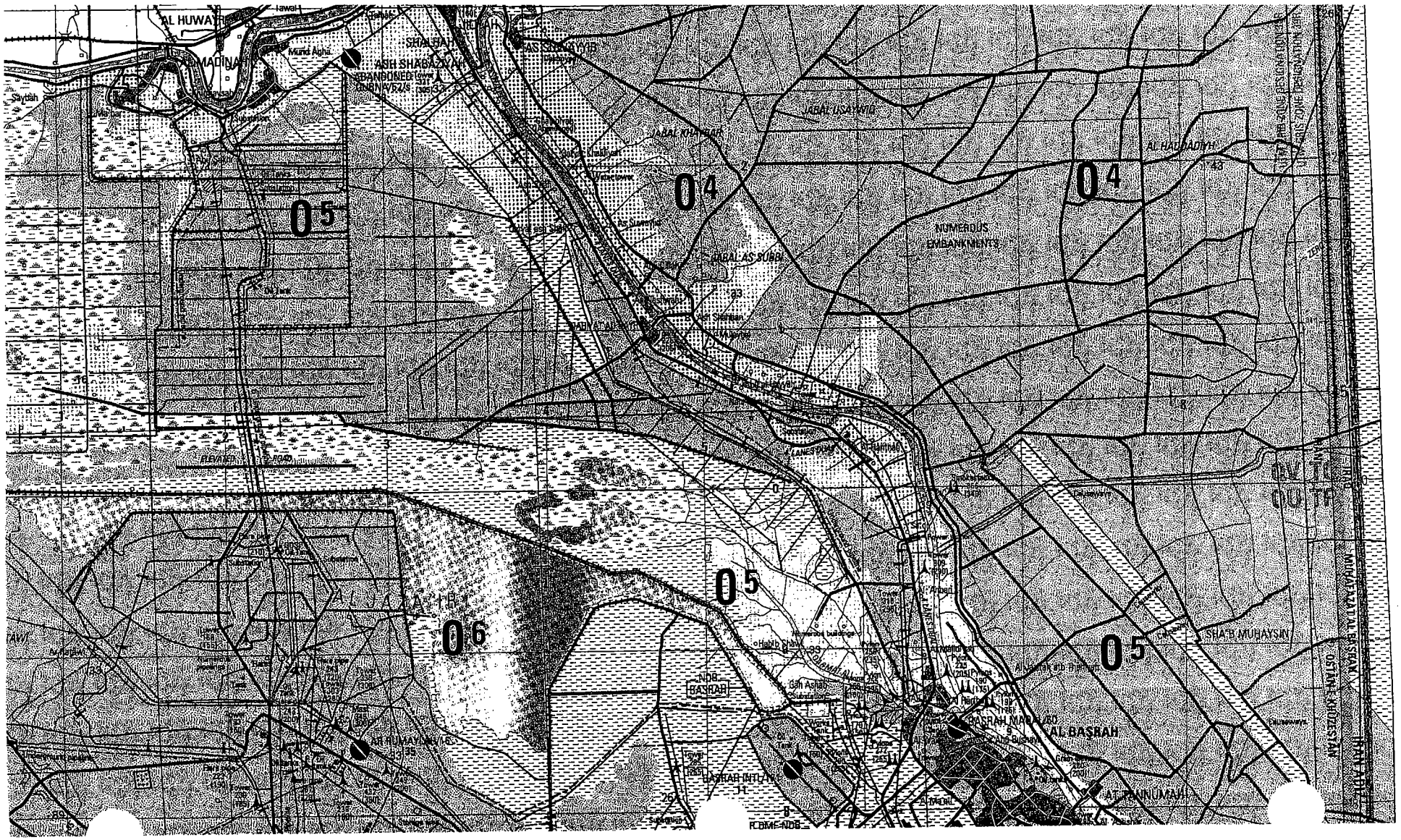
SERIES	1501 AIR
SHEET	NH 38-12
EDITION	11-GSGS

SERIES 1501 COMPANION SHEET IS NOT BEING MAINTAINED

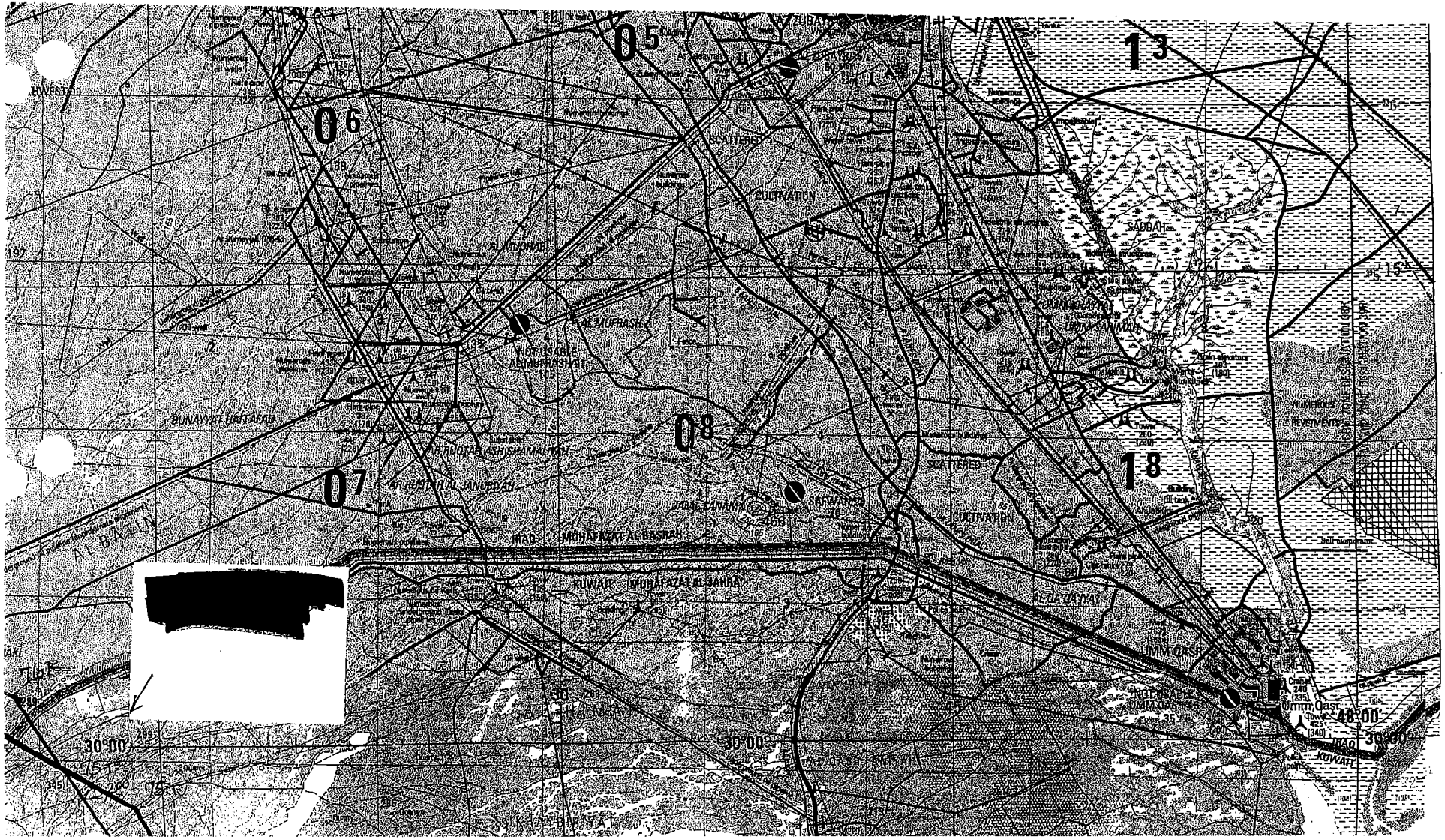
POPULATED PLACES ..... ○

1st importance ..... BAGHDĀD
2nd importance ..... KARKŪK





AL HUWAYR
AL MADINAH
Mund Agha
ASH SHABAZIYAH
ABANDONED
SHALHAH
AS SHAYYIB
JABAL USAYWID
JABAL KHAYBAR
AL HAUDADIYH
NUMEROUS EMBANKMENTS
JABAL AS SUBBI
ELEVATED ROAD
SHA'B MUHAYSIN
AL BASRAH
AT TANNUMAH
BASRAH INTL
NDB BASRAH
Habib Shawi
Gah Ashab
Numerous buildings
0 4
0 5
0 6



0 5
1 3
0 6
0 8
0 7
1 8
SCATTERED
CULTIVATION
AL MUDHAB
AL MUFRASH
NOT USABLE
AL MUFRASH
BUNAYYAT HAFFAFAH
AR RUQTAH ASH SHAMALIYAH
AR RUQTAH AL JANUBIYAH
JABAL SANAM
SAFWAN
IRAQ
MUHAFAZAT AL BASRAH
KUWAIT
MUHAFAZAT AL JAHRA
AL BATIN
SADDAH
UMM QASR
NOT USABLE
UMM QASR
Umm Qasr
48°00'
30°00'

More than two lanes wide
Two lanes wide
One lane wide
Fair or dry weather, loose surface
Cart track; Trail (footpath)
Route marker

RAILROADS

Normal gauge 1.44m(4'8½") — Single track — Multiple track

BOUNDARIES

International
First-order administrative division

VEGETATION

Plantation; Cultivation

HYDROGRAPHY

Well: perennial, intermittent
Land subject to inundation
Disappearing stream
Rocks; Sabkha
Wadi
Limit of danger; Wadi spread
Reef; Spring
Foreshore flat

MISCELLANEOUS

Mosque; School; Fence
Quarry; Landmark feature; Landmark area
Well (not water); Tank; Bridge — Oil
Horizontal control point: trig, astro
Small area name — KHUWAYSAT
Distorted surface; Levee
Sand; Dune: ripple

TERRAIN ELEVATIONS

Spot elevation: normal, critical — 758 — 1030
+ following elevation value indicates accuracy is not within 100 feet

AERODROMES (Military or Civil)

EDNA/40/s
725

Field limits with runway pattern
EDNA - Name
40 - Length of longest runway to nearest hundreds of feet
s - Soft or unimproved surface
u - Unknown surface
725 - Elevation

Field limits with runway pattern unknown
Field limits unknown, with runway pattern
Field limits and runway pattern unknown
HELIPORT

RADIO FACILITIES

VOR; VORTAC
TACAN; VOR/DME
BROADCAST STATIONS — BS MADRID VOR.NDB

Offshore installation without helicopter platform .....

CAUTION

AIR INFORMATION CURRENT AT
12 JULY 2001

Consult NOTAMS and Flight Information Publications for the latest air information; the NIMA Aeronautical Chart Updating Manual or MOD (UK) Aeronautical Chart Amendment Document, for other chart revision information.

MAGNETIC VARIATION FOR 2000 IS APPROXIMATELY 2° 51′ (51 mils) EASTERLY OVER THE ENTIRE AREA. Annual rate of change 1′ (½ mil) increase

ATTENTION

THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF)

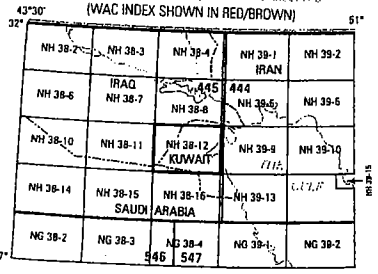
The Maximum Elevation Figures shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The MEF is based on information available concerning the highest known feature in each quadrangle, including terrain and obstructions (trees, towers, antennas, etc.).

EXAMPLE: 12,500 feet ..... 12[5]

LOCATION DIAGRAM

All graphics shown on this diagram fall within the area covered by series D782 sheet U-6

(WAC INDEX SHOWN IN RED/BROWN)



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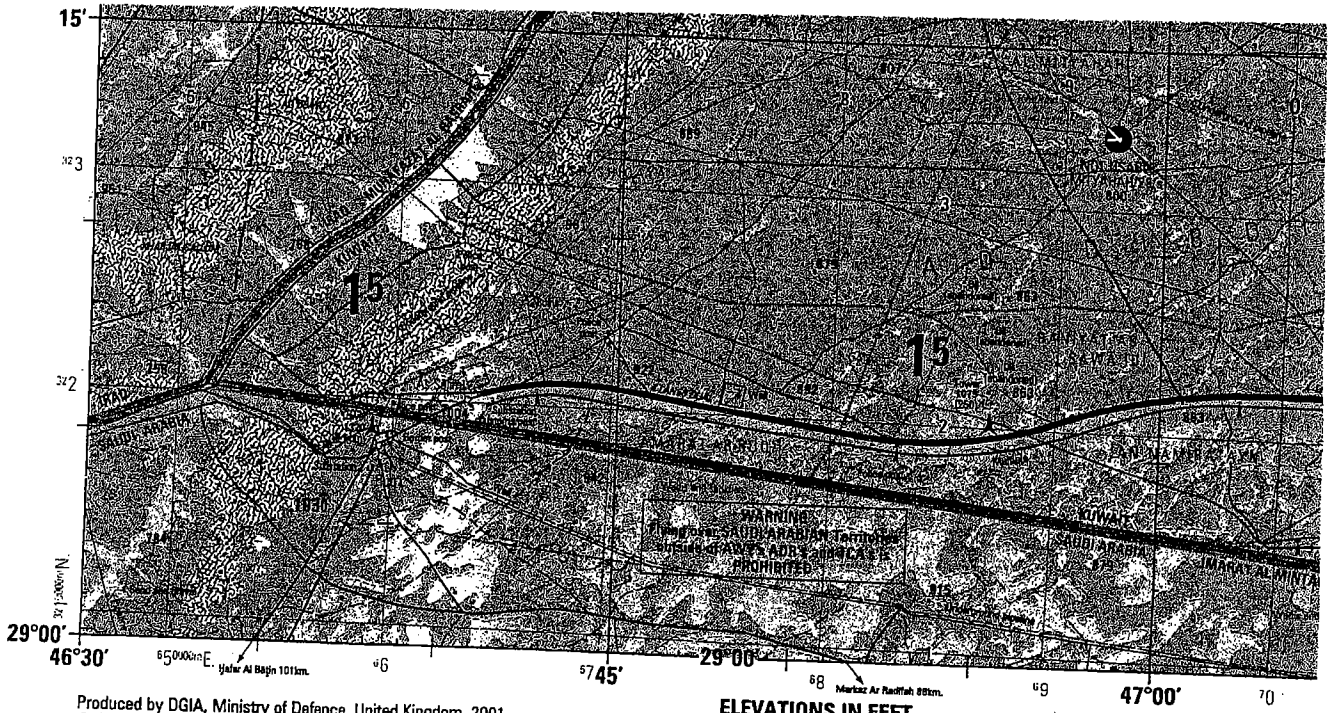
SCALE 1:250,000
AL KUWAYT, KUWAIT;
IRAQ; SAUDI ARABIA

SERIES	1501 AIR
SHEET	NH 38-12
EDITION	11 [illegible]



ELEVATIONS IN FEET

Produced by DGIA, Ministry of Defence, United Kingdom, 2001
© Crown Copyright 2001
Revised 2001

DGIA

CONVERSION OF ELEVATIONS

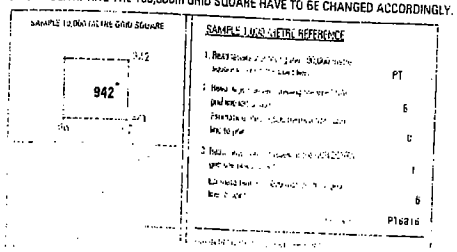
FEET	METRES	FEET	METRES
1000	305	10000	3048
900	274	9000	2743
800	244	8000	2438
700	213	7000	2134
600	183	6000	1829
500	152	5000	1524
400	122	4000	1219
300	91	3000	914
200	61	2000	610

CO-ORDINATE TRANSFORMATION WGS 84 TO ED 50 DATUM

GRID(UTM Z 38): $E_{ED\,50} = E_{WGS\,84} + 3m$ $N_{ED\,50} = N_{WGS\,84} + 175m$

GEOGRAPHIC: $LONG_{ED\,50} = LONG_{WGS\,84} - 0''.1$ $LAT_{ED\,50} = LAT_{WGS\,84} + 4''.2$

IF THE TRANSFORMATION ALSO AFFECTS THE 100,000m VALUES FOR E AND N, THE LETTERS IDENTIFYING THE 100,000m GRID SQUARE HAVE TO BE CHANGED ACCORDINGLY.



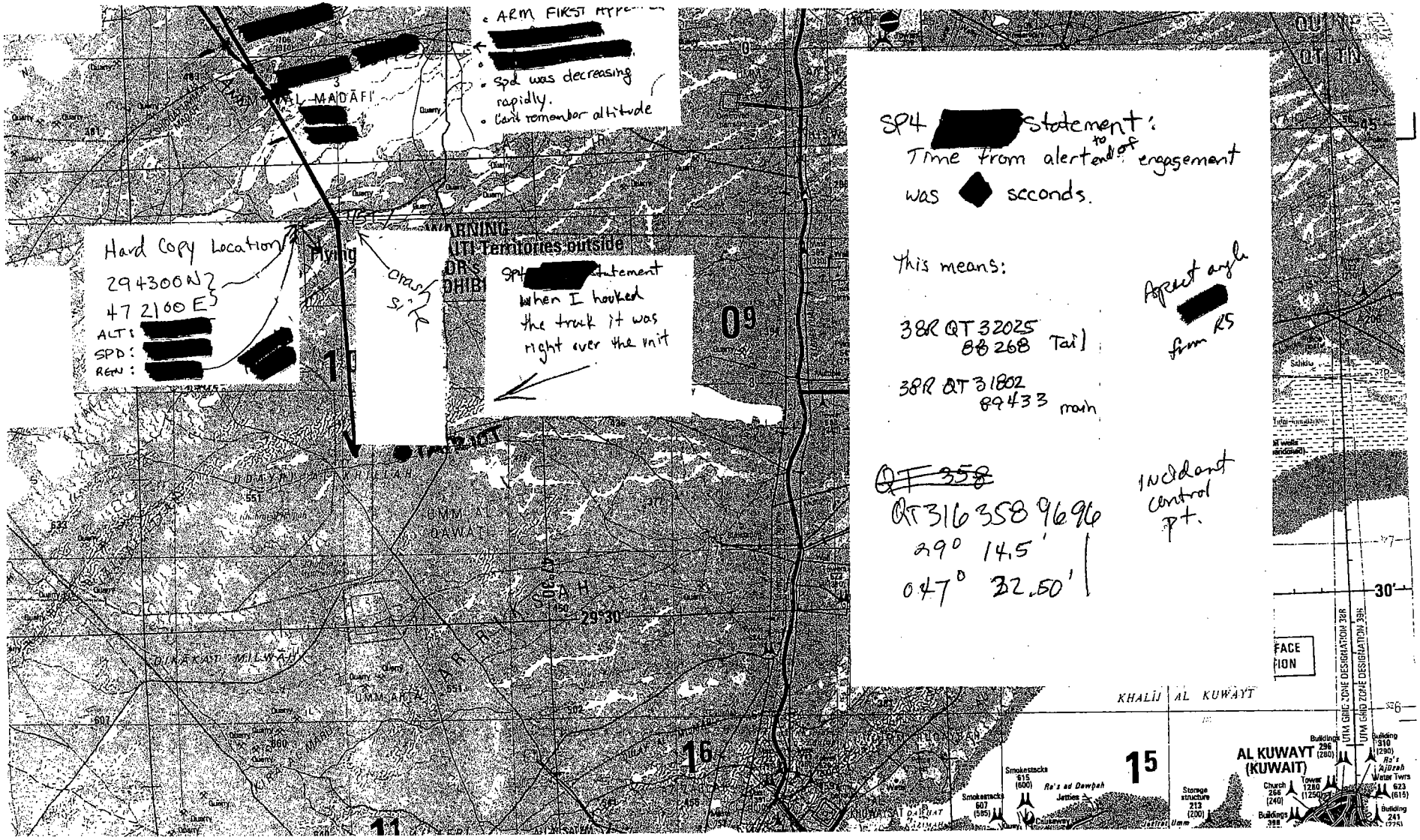
JOINT OPERATIC

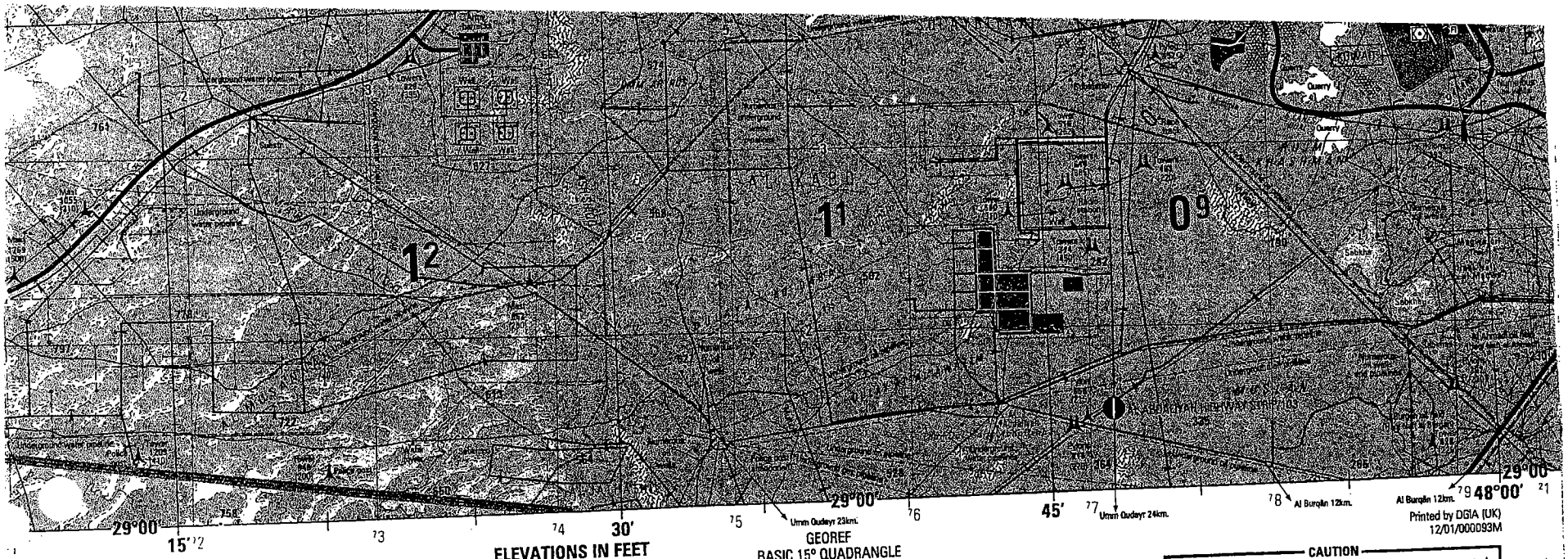
SCALE

5 0 5
5 0 5 10
5 0 5

CONTOUR INTERVAL APPROXIMATELY 1
AT APPROXIMATE

BLUE NUMBERED LINES INDICATE THE 10,000 METRE UNIVERSAL TRANSVER


• ARM FIRST
[redacted]
• Spd was decreasing rapidly.
• Can't remember altitude
Hard Copy Location
294300N
472100E
ALT: [redacted]
SPD: [redacted]
RGN: [redacted]
crash site
SP4 [redacted] statement
when I hooked the track it was right over the unit
SP4 [redacted] statement:
Time from alert to end of engagement was [redacted] seconds.
This means:
38R QT 32025 88268 Tail
38R QT 31802 89433 main
Aspect angle [redacted] from RS
~~QT 358~~
QT316358 9696
29° 14.5'
047° 32.50'
Incident control pt.
KHALIJ AL KUWAYT
AL KUWAYT (KUWAIT)
UTM GRID ZONE DESIGNATION 38R
UTM GRID ZONE DESIGNATION 39R



ELEVATIONS IN FEET

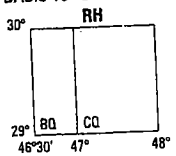
PHIC (AIR)

15 — 20 Statute Miles
20 — 25 — 30 Kilometres
15 Nautical Miles

.EMENTARY CONTOURS
LS

NTS TO:

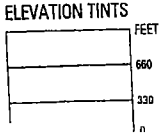
GEOREF
BASIC 15° QUADRANGLE



GLOSSARY

Abraq	rocky hill
'Awjat	bend (in river)
Dawhat	bay
Dibdibah	gravel plain
Dulay'at	small hills
Jāl	mountain
Jazirat	island
Khabrat	wet depression, rain pool
Khashm	spur, peak
Khawr	marshy plain, lagoon, creek, inlet
Muḥāfaẓat	first order admin boundary
Qārat	hill
Ra's	peak, point, cape
Sha'ib	wadi
Shiqqat	valley
Thamilat	waterhole
	wadi(s)

ELEVATION TINTS



RELIABILITY OF THIS GRAPHIC

Compiled from best available source materials

Horizontal Datum: World Geodetic System 1984
Vertical Datum: Mean Sea Level
Transverse Mercator Projection

CAUTION

Vertical obstructions, including powerlines, have been extracted from the most reliable sources available. However, there is no assurance that all are shown, or that their locations or heights are exact.

NOTES

Powerlines are shown except within populated place tints.
Other obstructions are shown if they are 200 ft or more above ground level (200 ft above mean sea level offshore). See Caution note.

On this graphic a lane is generally considered as being 8 feet (2.5 metres) in width. Road classification should be referred to with caution.
All landmark symbols are buildings unless otherwise annotated.

GRAPHICS PRODUCED BY DGIA (UK) ARE NOT TO BE TAKEN AS NECESSARILY REPRESENTING THE VIEW OF THE UK GOVERNMENT ON BOUNDARIES OR POLITICAL STATUS.

NSN 7641014005211
NIMA REFERENCE NO. 1501ANH3812
SERIES 1501 COMPANION SHEET IS NOT BEING MAINTAINED
ED. NO. 011

TAB DM

Entire Tab Redacted- 2 pages

TAB DN

SOC RCC ROOM
[00:38] <PRC-N> Was there a downed bird in the south, my boss is interrested
[00:39] <RCCsocDIR> Negative
[00:50] <PRC-N> Thanks, following up
[00:59] <RCCsocDIR> .
[01:09] <SOCRCCser> [01:08] <JSRC_CONT> CFLCC, SOC_RCC passed capabillities for a possible downed aircraft
[01:09] <SOCRCCser> [01:08] <JSRC_CONT> Callsign: Yahoo 76, Gr-4
[01:09] <SOCRCCser> [01:09] <JSRC_CONT> Coords: 30 10'N 46 50'E
[01:10] <SOCRCCser> PRC W/N/S pass capabilities to SOC RCC
[01:10] <SOCRCCser> SOC PRCs acknowledge
[01:11] <SOCRCCser> [01:10] <JSRC_CONT> Wingman : Yahoo 75 is confirmed SOD
[01:11] <SOCRCCser> [01:10] <JSRC_CONT> Yahoo 76 os overdue
[01:11] <SOCRCCser> SOC PRCs ack received and planning
[01:12] <PRC-N> PRC-N Assets at Cyphrus, N+1.5, [redacted], AS WEST 13, require AR, 2 SF ODAs/4 AF recovery TMS
[01:12] <CJ_SERE> [redacted] is gone.. [redacted] and i will work
[01:12] <CJ_SERE> just got mirc back up
[01:13] <CJ_SERE> [redacted] around?
[01:13] <AFSODSA3> [redacted]
[01:14] <SOCRCCser> [redacted]
[01:14] <CJ_SERE> [redacted]
[01:15] <PRC-N> PRC-N, plots vic Kuwait, unable to provide assistance
[01:17] <AFSODSA3> 1. 2 X MH-53
[01:17] <AFSODSA3> 2. [redacted]
[01:17] <AFSODSA3> 3. [redacted]
[01:17] <SOCRCCser> PRCs continue to parallel plan, provide 5 line
[01:17] <AFSODSA3> 4 TBD.
[01:17] <AFSODSA3> 5. Low-med
[01:17] <SOCRCCser> rgr
[01:18] <W-PRC-Dir> PRC-W plosts just north of Kuwait Border , unable to provde assistance from H5
[01:18] <PRC-N> PRC-N 1: 4 MH-53m, 2 SF ODA, 4 AF recovery teams
[01:18] <SOCRCCser> PRC-W rgr
[01:18] <PRC-N> PRC-N 2: [redacted]
[01:18] <PRC-N> 3: [redacted] multi AR required
[01:19] <PRC-N> 4: AR
[01:19] <PRC-N> 5: Low-Med[01:19] <SOCRCCser> PRC-N rgr
[01:20] <SOCRCCser> All SOF, very unlikely to be tasked, Jolly's and Sandy's scrambled
[01:20] <PRC-N> Rgr]
[01:20] <SERE-AFSO> [redacted] please go whisper
[01:20] <SOCRCCser> Continue to monitor
[01:21] <SERE-AFSO> [redacted]
[01:21] <CJ_SERE> aircraft is GR-4 (tornado)...source:intel/mission:photo recon/bomb drops..believed to be out of AFSOD-S

[01:22] <AFSODSA3> 4. [illegible] ıe
[01:22] <AFSODSA3> 5 ch. 1. None
[01:22] <AFSODSA3> Imean low
[01:23] <SOCRCCser> copy sir, thnks
[01:26] <SERE-AFSO> do we know if wangman is stilll in area
[01:26] <SERE-AFSO> wingman
[01:27] <SOCRCCser> wingman reported as landed
[01:30] <SERE-AFSO> osc?
[01:30] <SERE-AFSO> just for SA
[01:30] <SOCRCCser> No data at this time
[01:31] <SERE-AFSO> pvt
[01:34] <SOCRCCser> 01:16] <JSRC_CONT> Line 1: Yahoo 76
[01:34] <SOCRCCser> [01:16] <JSRC_CONT> Line 2: GR-4
[01:34] <SOCRCCser> [01:16] <H5_A10_IN> ANY DETAILS ON SCRAMBLE?
[01:34] <SOCRCCser> [01:16] <JSRC_CONT> Line 3: UNK
[01:34] <SOCRCCser> [01:16] <JSRC_CONT> Line 4: UNK
[01:34] <SOCRCCser> [01:16] <JSRC_SUP> stop asking questions, we'll pass the info to those who need it
[01:34] <SOCRCCser> [01:17] <CFLCC_DIR> confirm jolly is going to 30 10'N 46 50'E and not 2940 04730
[01:35] <SOCRCCser> [01:17] <JSRC_CONT> Line 5: 30 10'N 46 50'E
[01:35] <SOCRCCser> [01:17] <JSRC_CONT> Line 6: Estimate /Unit passed info
[01:35] <SOCRCCser> [01:18] <JSRC_CONT> Line 7: 212345ZMAR03
[01:35] <SOCRCCser> [01:18] <JSRC_CONT> Line 8: UNK
[01:35] <SOCRCCser> [01:18] <JSRC_SUP> CFLCC DIR, that is correct
[01:35] <SOCRCCser> [01:18] <JSRC_CONT> Line 9: 2
[01:35] <SOCRCCser> [01:18] <ISARC-GND> GND/AD Threat is assessed as LOW
[01:35] <SOCRCCser> [01:18] <JSRC_CONT> Line 10: UNK
[01:35] <SOCRCCser> [01:18] <JSRC_CONT> Line 11: UNK
[01:35] <SOCRCCser> 01:18] <JSRC_CONT> Line 12: JSRC01:35] <SOCRCCser> [01:19] <JSRC_CONT> Line 13: Unit reported A/C Overdue. Last contact was at 2345Z. Wingman (YAHOO 75) is safe on Deck.
[01:35] <SOCRCCser> [01:20] <JSRC_CONT> Line 14: 220119ZMAR03
[01:35] <SOCRCCser> [01:20] <JSRC_CONT> lINE 15: n/a
[01:35] <SOCRCCser> [01:20] <JSRC_CONT> epa/isoprep information to follow:
[01:35] <SOCRCCser> [01:21] <JSRC_CONT> [redacted]

[01:35] <SOCRCCser> 01 <JSRC_SERE> Call sign: Yahoo 7
[01:35] <SOCRCCser> [01:23] <JSRC_SERE> Aircraft Type: Tornado GR4
[01:35] <SOCRCCser> [01:23] <JSRC_SERE> Radio Type: PRC-112B1
[01:35] <SOCRCCser> [01:23] <JSRC_SERE> [redacted]
[01:35] <SOCRCCser> [01:23] <JSRC_SERE> [redacted]

[01:35] <SOCRCCser> [01:23] <JSRC_SERE> [redacted]
[01:36] <SOCRCCser> [01:23] <JSRC_SERE> [redacted]
[01:36] <SOCRCCser> [01:23] <JSRC_SERE> [redacted]
[01:36] <SOCRCCser> [01:25] <JSRC_CONT> [redacted]

[01:36] <SOCRCCser> [01:26] *** [redacted]
[01:36] <SOCRCCser> [01:26] [redacted]
[01:36] <SOCRCCser> [01:26] <JSRC_CONT> [redacted]

[01:36] <SOCRCCser> [01:26] <OBBS_IN> <JSRC_SERE> Call sign: Yahoo 76
[01:36] <SOCRCCser> [01:26] <OBBS_IN> <JSRC_SERE> Aircraft Type: Tornado GR4
[01:36] <SOCRCCser> [01:26] <OBBS_IN> <JSRC_SERE> Radio Type: PRC-112B1
[01:36] <SOCRCCser> 01:23] <JSRC_SERE> PLS Code: Flt Lt [redacted] (Pilot) 191400
[01:36] <SOCRCCser> [01:23] <JSRC_SERE> PLS Code: Flt Lt [redacted] (Nav) 245800

[redacted]

[01:36] <SOCRCCser> [01:26] *** C2FJOC has left #jsrc (C2FJOC)
[01:36] <SOCRCCser> [01:26] <rqs [redacted]

[01:36] <SOCRCCser> [01:26] <OBBS_IN> <JSRC_SERE> Call sign: Yahoo 76
[01:36] <SOCRCCser> [01:26] <OBBS_IN> <JSRC_SERE> Aircraft Type: Tornado GR4
[01:36] <SOCRCCser> [01:26] <OBBS_IN> <JSRC_SERE> Radio Type: PRC-112B1
[01:36] <SOCRCCser> [01:26] <OBBS_IN> <JSRC_SERE> PLS Code: Flt L [redacted] (Pilot) 191400
[01:36] <SOCRCCser> [01:26] <OBBS_IN> <JSRC_SERE> PLS Code: Flt L [redacted] (Nav) 245800
[01:36] <SOCRCCser> [01:26] <OBBS_IN> <JSRC_SERE> Call sign: Yahoo 76
[01:37] <SOCRCCser> [01:27] <OBBS_IN> <JSRC_SERE> Aircraft Type: Tornado GR4
[01:37] <SOCRCCser> [01:27] <OBBS_IN> <JSRC_SERE> Radio Type: PRC-112B1
[01:37] <SOCRCCser> [01:27] <OBBS_IN> <JSRC_SERE> PLS Code: Flt Lt [redacted] (Pilot) 191400

For use of this form, see AR 190-30; the proponent agency is ODCSOPS

DATA REQUIRED BY THE PRIVACY ACT

AUTHORITY: Title 10, United States Code, Section 3012(g)
PRINCIPAL PURPOSE: To provide commanders and law enforcement officials with means by which information may be accurately identified.
ROUTINE USES: Your Social Security Number is used as an additional/alternate means of identification to facilitate filing and retrieval.
DISCLOSURE: Disclosure of your Social Security Number is voluntary.

1. LOCATION	2. DATE	3. TIME	4. FILE NO.
Ali Al Salem Airbase, Kuwait	26 MAR 03	1132	–

5. NAME (Last, First, MI)	8. ORGANIZATION OR ADDRESS
[redacted]	
6. SSN [redacted] / 7. GRADE/STATUS: 1LT	

PART I - RIGHTS WAIVER/NON-WAIVER CERTIFICATE

Section A. Rights

The investigator whose name appears below told me that he/she is with the United States Army Air Defense Ctr. & Fort Bliss, conducting an investigation UP AR 15-6 and wanted to question me about the following offense(s) of which I am suspected/accused: Dereliction of Duty (Art. 92)

Before he/she asked me any questions about the offense(s), however, he/she made it clear to me that I have the following rights:

1. I do not have to answer any question or say anything.
2. Anything I say or do can be used as evidence against me in a criminal trial.
3. *(For personnel subject othe UCMJ)* I have the right to talk privately to a lawyer before, during, and after questioning and to have a lawyer present with me during questioning. This lawyer can be a civilian lawyer I arrange for at no expense to the Government or a military lawyer detailed for me at no expense to me, or both.

   - or -

   (For civilians not subject to the UCMJ) I have the right to talk privately to a lawyer before, during, and after questioning and to have a lawyer present with me during questioning. I understand that this lawyer can be one that I arrange for at my own expense, or if I cannot afford a lawyer and want one, a lawyer will be appointed for me before any questioning begins.
4. If I am now willing to discuss the offense(s) under investigation, with or without a lawyer present, I have a right to stop answering questions at any time, or speak privately with a lawyer before answering further, even if I sign the waiver below.

5. COMMENTS *(Continue on reverse side)*

Section B. Waiver

I understand my rights as stated above. I am now willing to discuss the offense(s) under investigation and make a statement without talking to a lawyer first and without having a lawyer present with me.

WITNESSES *(If available)*	3. SIGNATURE OF INTERVIEWEE
a. NAME *(Type or Print)* [redacted] LTC(P)	[redacted]
ORGANIZATION OR ADDRESS AND PHONE TSM-LT Ft Bliss, TX 79916 915-568-7410	4. SIGNATURE OF INVESTIGATOR [redacted]
a. NAME *(Type or Print)*	5. TYPED NAME OF INVESTIGATOR
ORGANIZATION OR ADDRESS AND PHONE	6. ORGANIZATION OF INVESTIGATOR

Section C. Non-waiver

☒ I do not want to give up my rights

☒ I want a lawyer

☐ I do not want to be questioned or say anything

SIGNATURE OF INTERVIEWEE

ATTACH THIS WAIVER CERTIFICATE TO ANY SWORN STATEMENT *(DA FORM 2823)* SUBSEQUENTLY EXECUTED BY THE SUSPECT/ACCUSED

THE WARNING

1. WARNING - Inform the suspect/accused of:
   a. Your official position.
   b. Nature of offense(s).
   c. The fact that he/she is a suspect/accused.
2. RIGHTS - Advise the suspect/accused of his/her rights as follows:
   "Before I ask you any questions, you must understand your rights."
   a. "You do not have to answer my questions or say anything."
   b. "Anything you say or do can be used as evidence against you in a criminal trial."
   c. (For personnel subject to the UCMJ) "You have the right to talk privately to a lawyer before, during, and after questioning and to have a lawyer present with you during questioning. This lawyer can be a civilian you arrange for at no expense to the Government or a military lawyer detailed for you at no expense to you, or both."

   - or -

   (For civilians not subject to the UCMJ) You have the right to talk privately to a lawyer before, during, and after questioning and to have a lawyer present with you during questioning. This lawyer can be one you arrange for at your own expense, or if you cannot afford a lawyer and want one, a lawyer will be appointed for you before any questioning begins."
   d. "If you are now willing to discuss the offense(s) under investigation, with or without a lawyer present, you have a right to stop answering questions at any time, or speak privately with a lawyer before answering further, even if you sign a waiver certificate."

Make certain the suspect/accused fully understands his/her rights.

THE WAIVER

"Do you understand your rights?"
(If the suspect/accused says "no," determine what is not understood, and if necessary repeat the appropriate rights advisement. If the suspect/accused says "yes," ask the following question.)

"Have you ever requested a lawyer after being read your rights?"
(If the suspect/accused says "yes," find out when and where. If the request was recent *(i.e., fewer than 30 days ago)*, obtain legal advice whether to continue the interrogation. If the suspect/accused says "no," or if the prior request was not recent, ask him/her the following question.)

"Do you want a lawyer at this time?"
(If the suspect/accused says "yes," stop the questioning until he/she has a lawyer. If the suspect/accused says "no," ask him/her the following question.)

"At this time, are you willing to discuss the offense(s) under investigation and make a statement without talking to a lawyer and without having a lawyer present with you?" *(If the suspect/accused says "no," stop the interview and have him/her read and sign the non-waiver section of the waiver certificate on the other side of this form. If the suspect/accused says "yes," have him/her read and sign the waiver section of the waiver certificate on the other side of this form.)*

SPECIAL INSTRUCTIONS

WHEN SUSPECT/ACCUSED REFUSES TO SIGN WAIVER CERTIFICATE: If the suspect/accused orally waives his/her rights but refuses to sign the waiver certificate, you may proceed with the questioning. Make notations on the waiver certificate to the effect that he/she has stated that he/she understands his/her rights, does not want a lawyer, wants to discuss the offense(s) under investigation, and refuses to sign the waiver certificate.

IF WAIVER CERTIFICATE CANNOT BE COMPLETED IMMEDIATELY: In all cases the waiver certificate must be completed as soon as possible. Every effort should be made to complete the waiver certificate before any questioning begins. If the waiver certificate cannot be completed at once, as in the case of street interrogation, completion may be temporarily postponed. Notes should be kept on the circumstances.

PRIOR INCRIMINATING STATEMENTS:

1. If the supsect/accused has made spontaneous incriminating statements before being properly advised of his/her rights he/she should be told that such statements do not obligate him/her to answer further questions.
2. If the suspect/accused was questioned as such either without being advised of his/her rights or some question exists as to the propriety of the first statement, the accused must be so advised. The office of the serving Staff Judge Advocate should be contacted for assistance in drafting the proper rights advisal.

NOTE: If 1 or 2 applies, the fact that the suspect/accused was advised accordingly should be noted in the comment section on the waiver certificate and initialed by the suspect/accused.

WHEN SUSPECT/ACCUSED DISPLAYS INDECISION ON EXERCISING HIS OR HER RIGHTS DURING THE INTERROGATION PROCESS: If during the interrogation, the suspect displays indecision about requesting counsel (for example, "Maybe I should get a lawyer."), further questioning must cease immediately. At that point, you may question the suspect/accused only concerning whether he or she desires to waive counsel. The questioning may not be utilized to discourage a suspect/accused from exercising his/her rights. (For example, do not make such comments as "If you didn't do anything wrong, you shouldn't need an attorney.")

COMMENTS *(Continued)*

TAB DO

For of this form, see AR 190-30; the proponent agency is ODC S

DATA REQUIRED BY THE PRIVACY ACT

AUTHORITY: Title 10, United States Code, Section 3012(g)
PRINCIPAL PURPOSE: To provide commanders and law enforcement officials with means by which information may be accurately identified.
ROUTINE USES: Your Social Security Number is used as an additional/alternate means of identification to facilitate filing and retrieval.
DISCLOSURE: Disclosure of your Social Security Number is voluntary.

1. LOCATION	2. DATE	3. TIME	4. FILE NO.
Camp New Jersey, Kuwait	27 MAR03	1636	

5. NAME (Last, First, MI)	8. ORGANIZATION OR ADDRESS
[redacted]	
6. SSN: [redacted] / 7. GRADE/STATUS: 1LT	CBtry, 5-52 ADA

PART I - RIGHTS WAIVER/NON-WAIVER CERTIFICATE

Section A. Rights

The investigator whose name appears below told me that he/she is with the United States Army, Air Defense Artillery Center serving as an investigator UP AR 15-6 and wanted to question me about the following offense(s) of which I am suspected/accused: Dereliction of Duty (Art. 92, UCMJ)

Before he/she asked me any questions about the offense(s), however, he/she made it clear to me that I have the following rights:

1. I do not have to answer any question or say anything.
2. Anything I say or do can be used as evidence against me in a criminal trial.
3. *(For personnel subject othe UCMJ* I have the right to talk privately to a lawyer before, during, and after questioning and to have a lawyer present with me during questioning. This lawyer can be a civilian lawyer I arrange for at no expense to the Government or a military lawyer detailed for me at no expense to me, or both.

   - or -

   (For civilians not subject to the UCMJ) I have the right to talk privately to a lawyer before, during, and after questioning and to have a lawyer present with me during questioning. I understand that this lawyer can be one that I arrange for at my own expense, or if I cannot afford a lawyer and want one, a lawyer will be appointed for me before any questioning begins.
4. If I am now willing to discuss the offense(s) under investigation, with or without a lawyer present, I have a right to stop answering questions at any time, or speak privately with a lawyer before answering further, even if I sign the waiver below.

5. COMMENTS *(Continue on reverse side)*

Section B. Waiver

I understand my rights as stated above. I am now willing to discuss the offense(s) under investigation and make a statement without talking to a lawyer first and without having a lawyer present with me.

WITNESSES *(If available)*	3. SIGNATURE OF INTERVIEWEE
1a. NAME *(Type or Print)* [redacted]	[redacted]
b. ORGANIZATION OR ADDRESS AND PHONE [redacted] TSM-LT Ft BLISS, TX 79906	4. SIGNATURE OF INVESTIGATOR [redacted]
2a. NAME *(Type or Print)*	5. TYPED NAME OF INVESTIGATOR
b. ORGANIZATION OR ADDRESS AND PHONE	6. ORGANIZATION OF INVESTIGATOR

Section C. Non-waiver

1. I do not want to give up my rights
   - ☐ I want a lawyer
   - ☐ I do not want to be questioned or say anything
2. SIGNATURE OF INTERVIEWEE

ATTACH THIS WAIVER CERTIFICATE TO ANY SWORN STATEMENT *(DA FORM 2823)* SUBSEQUENTLY EXECUTED BY THE SUSPECT/ACCUSED

THE WARNING

1. WARNING - Inform the suspect/accused of:
   a. Your official position.
   b. Nature of offense(s).
   c. The fact that he/she is a suspect/accused.
2. RIGHTS - Advise the suspect/accused of his/her rights as follows:
   "Before I ask you any questions, you must understand your rights."
   a. "You do not have to answer my questions or say anything."
   b. "Anything you say or do can be used as evidence against you in a criminal trial."
   c. (For personnel subject to the UCMJ) "You have the right to talk privately to a lawyer before, during, and after questioning and to have a lawyer present with you during questioning. This lawyer can be a civilian you arrange for at no expense to the Government or a military lawyer detailed for you at no expense to you, or both."

   - or -

   (For civilians not subject to the UCMJ) You have the right to talk privately to a lawyer before, during, and after questioning and to have a lawyer present with you during questioning. This lawyer can be one you arrange for at your own expense, or if you cannot afford a lawyer and want one, a lawyer will be appointed for you before any questioning begins."
   d. "If you are now willing to discuss the offense(s) under investigation, with or without a lawyer present, you have a right to stop answering questions at any time, or speak privately with a lawyer before answering further, even if you sign a waiver certificate."

Make certain the suspect/accused fully understands his/her rights.

THE WAIVER

Do you understand your rights?"
If the suspect/accused says "no," determine what is not understood, and if necessary repeat the appropriate rights advisement. If the suspect/accused says "yes," ask the following question.)

Have you ever requested a lawyer after being read your rights?"
If the suspect/accused says "yes," find out when and where. If the request was recent *(i.e., fewer than 30 days ago)*, obtain legal advice whether to continue the interrogation. If the suspect/accused says "no," or if the prior request was not recent, ask him/her the following question.)

"Do you want a lawyer at this time?"
(If the suspect/accused says "yes," stop the questioning until he/she has a lawyer. If the suspect/accused says "no," ask him/her the following question.)

"At this time, are you willing to discuss the offense(s) under investigation and make a statement without talking to a lawyer and without having a lawyer present with you?" *(If the suspect/accused says "no," stop the interview and have him/her read and sign the non-waiver section of the waiver certificate on the other side of this form. If the suspect/accused says "yes," have him/her read and sign the waiver section of the waiver certificate on the other side of this form.)*

SPECIAL INSTRUCTIONS

WHEN SUSPECT/ACCUSED REFUSES TO SIGN WAIVER CERTIFICATE: If the suspect/accused orally waives his/her rights but refuses to sign the waiver certificate, you may proceed with the questioning. Make notations on the waiver certificate to the effect that he/she has stated that he/she understands his/her rights, does not want a lawyer, wants to discuss the offense(s) under investigation, and refuses to sign the waiver certificate.

WAIVER CERTIFICATE CANNOT BE COMPLETED IMMEDIATELY: In all cases the waiver certificate must be completed as soon as possible. Every effort should be made to complete the waiver certificate before any questioning begins. If the waiver certificate cannot be completed at once, as in the case of street interrogation, completion may be temporarily postponed. Notes should be kept on the circumstances.

PRIOR INCRIMINATING STATEMENTS:

1. If the supsect/accused has made spontaneous incriminating statements before being properly advised of his/her rights he/she should be told that such statements do not obligate him/her to answer further questions.
2. If the suspect/accused was questioned as such either without being advised of his/her rights or some question exists as to the propriety of the first statement, the accused must be so advised. The office of the serving Staff Judge Advocate should be contacted for assistance in drafting the proper rights advisal.

NOTE: If 1 or 2 applies, the fact that the suspect/accused was advised accordingly should be noted in the comment section on the waiver certificate and initialed by the suspect/accused.

WHEN SUSPECT/ACCUSED DISPLAYS INDECISION ON EXERCISING HIS OR HER RIGHTS DURING THE INTERROGATION PROCESS: If during the interrogation, the suspect displays indecision about requesting counsel (for example, "Maybe I should get a lawyer."), further questioning must cease immediately. At that point, you may question the suspect/accused only concerning whether he or she desires to waive counsel. The questioning may not be utilized to discourage a suspect/accused from exercising his/her rights. (For example, do not make such comments as "If you didn't do anything wrong, you shouldn't need an attorney.")

COMMENTS *(Continued)*

DEPARTMENT OF THE AIR FORCE
UNITED STATES CENTRAL COMMAND AIR FORCES (USCENTAF
APO AE 09871

25 March 2003

MEMORANDUM FOR BGEN HOWARD B. BROMBERG
DEPUTY AREA AIR DEFENSE COMMANDER

FROM: COMUSCENTAF

SUBJECT: Investigation of Friendly Fire Incident

1. You are hereby directed to conduct an investigation of the friendly fire incident that reportedly occurred earlier this date in which a Patriot Missile engaged a UK GR-4 aircraft in the airspace of Kuwait.

2. The investigation will, in accordance with Department of Defense Instruction 6055.7, paragraph E4.6, inquire into all facts and circumstances surrounding the suspected friendly fire incident and will obtain and preserve all available evidence for use in litigation, claims, disciplinary actions, or adverse administrative actions. The investigation will include findings of fact, opinions, and recommendations to include the cause of the incident. Further, the investigation will make an assessment as to any fault or neglect and make recommendations concerning corrective measures and disciplinary actions, as appropriate.

3. The investigation will be conducted by a board of officers, with a general officer named as its president and composed of additional officers of appropriate training and expertise. The Board will be supported by special assistants such as legal advisers, Public Affairs officers, and medical, safety and technical experts. Finally, the Board will have assigned administrative support personnel qualified to catalog, maintain and preserve all evidence, document chain of custody, and take and transcribe testimony or statements, in order to ensure availability and admissibility for any possible future legal actions. The manner of conduct of the Board will be as directed by the Board chair. While service regulations may be used as a guide, the report of Investigation will meet the requirements set forth in this memorandum.

4. UK authorities may appoint an officer to participate in this Investigation Board. The president of the Board of Investigation will collaborate with him on opinions as to the cause of the incident and seek his recommendations as to corrective measures to the extent they address combined or coalition military activities. In addition, and as appropriate, the US president and the UK participant may each make individual findings of fact, opinions or recommendations, or reserve concurrence on specific matters as each of them may deem appropriate. Assessments as to fault or neglect and recommendations concerning administrative and disciplinary actions involving US personnel shall only be made through US Board members. The UK participant will conduct liaison with his national representatives in the conduct of their internal Board of Investigation into this incident. However, information, data, evidence, witness statements or any other material provided to, obtained or developed by the investigating board will only be provided to UK authorities subject to safeguards and use restrictions set forth in applicable us and British national laws and regulations. Information concerning the board proceedings, testimony, findings, conclusions and/or recommendations shall be released as agreed upon by the respective governments.

5. All physical evidence (e.g., aircraft video and audio recordings) will be immediately secured, preserved, and provided to the investigating board upon request. The Board of Investigation shall not conduct witness interviews or perform site visits until the UK has named a Board participant and that participant has been afforded the opportunity to be present.

6. Investigative reports will be submitted to USCENTAF not later than 23 April 2003, with any request for extension submitted to me in writing prior to this date. This appointment order authorizes you all necessary assistance from members of my command in executing this tasking. Access to records germane to this review will be provided. All public affairs activity shall be coordinated in advance with USCENTCOM PAO, Col [redacted]

T. MICHAEL MOSELEY
Lieutenant General, USAF
Commander

TAB DP

01 01 250659Z MAR 03 PP RR SSSS AT ZYUW

NO

USCENTCOM FWD

COMUSCENTAF FWD PSAB KSA

INFO COMSARCENT FWD DOHA KU

COMUSCENTAF SHAW AFB SC

CDR USCENTCOM MACDILL AFB FL//CCJA//

USCENTCOM FWD//CCJA/SUPR//

CFLCC DOHA KUWAIT KU

[redacted]

SUBJ:FRIENDLY FIRE INCIDENT (S)//

REF/DOC/DODI 6055.7//
AMPN//ACCIDENT INVESTIGATION, REPORTING, AND RECORD KEEPING//
1. [redacted]IAW THE REFERENCE, CDRUSCENTCOM DIRECTS CFACC TO CONDUCT A COMBINED INVESTIGATION INTO A SUSPECTED FRIENDLY FIRE INCIDENT THAT OCCURRED O/A 22 MARCH 2003 IN NORTHERN KUWAIT, IN WHICH A PATRIOT MISSILE BATTERY FIRED UPON A GU-4 TORNADO AIRCRAFT OF HER MAJESTY'S ROYAL AIR FORCE, RESULTING IN THE DEATHS OF TWO ROYAL AIR FORCE PERSONNEL.
2. [redacted] THE INVESTIGATION WILL, IAW PARAGRAPH E4.6. OF THE REFERENCE, INQUIRE INTO ALL FACTS AND CIRCUMSTANCES SURROUNDING THE SUSPECTED FRIENDLY FIRE INCIDENT AND WILL OBTAIN AND PRESERVE ALL AVAILABLE EVIDENCE FOR USE IN LITIGATION, CLAIMS, DISCIPLINARY ACTION, AND ADVERSE ADMINISTRATIVE ACTIONS. THE INVESTIGATION WILL INCLUDE FINDINGS OF FACT, OPINIONS AND RECOMMENDATIONS TO INCLUDE THE CAUSE OF THE INCIDENT AND RESULTING DEATHS, INJURY AND DAMAGE. FURTHER, THE INVESTIGATION WILL MAKE AN ASSESSMENT AS TO ANY FAULT OR NEGLECT AND MAKE RECOMMENDATIONS CONCERNING CORRECTIVE MEASURES AND DISCIPLINARY ACTIONS, AS APPROPRIATE. ALL PHYSICAL EVIDENCE (E.G., AIRCRAFT VIDEO AND AUDIO RECORDINGS) WILL BE IMMEDIATELY SECURED, PRESERVED, AND PROVIDED TO THE INVESTIGATING BOARD UPON REQUEST.
3. [redacted] THE INVESTIGATION WILL BE CONDUCTED BY A BOARD OF OFFICERS, WITH A GENERAL OFFICER NAMED AS ITS PRESIDENT, AND COMPOSED OF ADDITONAL OFFICERS OF APPROPRIATE TRAINING AND EXPERTISE. THE BOARD WILL BE SUPPORTED BY SPECIAL ASSISTANTS SUCH AS LEGAL ADVISERS, PUBLIC AFFAIRS OFFICERS, AND MEDICAL, SAFETY AND TECHNICAL EXPERTS. FINALLY, THE BOARD WILL HAVE ASSIGNED ADMINISTRATIVE SUPPORT PERSONNEL QUALIFIED TO CATALOG, MAINTAIN AND PRESERVE ALL EVIDENCE, DOCUMENT CHAIN OF CUSTODY, AND TAKE AND TRANSCRIBE TESTIMONY OR STATEMENTS, IN ORDER TO ENSURE AVAILABLITY AND ADMISSABILITY FOR ANY POSSIBLE FUTURE LEGAL ACTIONS. THE MANNER OF CONDUCT OF THE BOARD WILL BE AS DIRECTED BY THE BOARD CHAIR. WHILE SERVICE REGULATIONS MAY BE USED AS A GUIDE, THE REPORT OF INVESTIGATION WILL MEET THE REQUIREMENTS SET FORTH IN THIS MESSAGE.
4. [redacted] UK AUTHORITIES MAY APPOINT AN OFFICER TO PARTICIPATE IN THIS INVESTIGATION BOARD. THE PRESIDENT OF THE BOARD OF INVESTIGATION WILL COLLABORATE WITH HIM ON OPINIONS AS TO THE CAUSE OF THE INCIDENT AND SEEK HIS RECOMMENDATIONS AS TO CORRECTIVE MEASURES TO THE EXTENT THEY ADDRESS COMBINED OR COALITION MILITARY ACTIVITIES. IN ADDITION AND AS APPROPRIATE, THE US PRESIDENT AND THE UK PARTICIPANT MAY EACH MAKE INDIVIDUAL FINDINGS OF FACT, OPINIONS OR RECOMMENDATIONS, OR RESERVE CONCURRENCE ON SPECIFIC MATTERS AS EACH OF THEM MAY DEEM

APPROPRIATE. ASSESSMENTS AS TO FAULT OR NEGLECT AND RECOMMENDATIONS CONCERNING ADMINISTRATIVE AND DISCIPLINARY ACTIONS INVOLVING U PERSONNEL SHALL ONLY BE MADE THROUGH US BOARD MEMBERS.

5. [redacted] THE UK PARTICIPANT WILL CONDUCT LIAISON WITH HIS NAITONAL REPRESENTATIVES IN THE CONDUCT OF THEIR INTERNAL BOARD OF INVESTIGATION INTO THIS INCIDENT. HOWEVER, INFORMATION, DATA, EVIDENCE, WITNESS STATEMENTS OR ANY OTHER MATERIAL PROVIDED TO, OBTAINED OR DEVELOPED BY THE INVESTIGATING BOARD WILL ONLY BE PROVIDED TO UK AUTHORITIES SUBJECT TO SAFEGUARDS AND USE RESTRICTIONS SET FORTH IN APPLICABLE US AND BRITISH NATIONAL LAWS AND REGULATIONS. INFORMATION CONCERNING THE BOARD PROCEEDINGS, TESTIMONY, FINDINGS, CONCLUSIONS AND/OR RECOMMENDATIONS SHALL BE RELEASED AS AGREED UPON BY THE RESPECTIVE GOVERNMENTS. ALL PUBLIC AFFAIRS ACTIVITY SHALL BE COORDINATED IN ADVANCE WITH USCENTCOM PAO, COL RAY SHEPARD, USCENTCOM FWD, DSN 460-8440, SHEPHERB@CENTCOM.SMIL.MIL (ALL SMALL CASE).

6. [redacted] THE INVESTIGATION REPORT WILL BE SUBMITTED TO CDRUSCENTCOM NLT 30 APRIL 2003. ANY REQUESTS FOR EXTENSION SHOULD BE SUBMITTED TO USCENTCOM FWD, ATTN: CCJA, IN WRITING PRIOR TO THIS DATE.//

7. FUNDING: USCENTCOM WILL NOT PROVIDE FUNDING FOR THIS EFFORT.

8. [redacted] POCS. FOR THE US: USCENTCOM SJA CART[redacted]

CLASSIFIED BY: R. STEVEN WHITCOMB, MAJOR GENERAL, USA, CHIEF OF STAFF
REASON: 1.5(A)
DECLASSIFY ON: 24 MAR 2013

[redacted]

TAB DQ

NEWS RELEASE

Combined Forces Air Component Command Public Affairs
Phone: 011-966-1478-11-00, extensions 434-9915, 434-9881 and 434-9882

March 22, 2003
Release Number XX-XX-XX

FOR IMMEDIATE RELEASE

UNITED KINGDOM ROYAL AIR FORCE AIRCRAFT REPORTED MISSING

SOUTHWEST ASIA – A United Kingdom Royal Air Force Tornado GR4 flying a mission in support of Operation Iraqi Freedom was reported missing over northern Kuwait at approximately 8 p.m. EST March 22.

Wreckage and two ejector seats thought to belong to the aircraft have been located in Kuwait, but the status of the two-person crew is unknown at this time.

A board of officers will be appointed to review the incident, and additional details will be provided when available.

The Tornado GR4 is a jet fighter designed for air-to-air and air-to-ground missions.

-30-

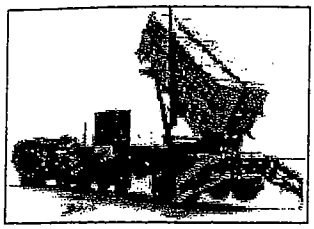
Not coordinated or released

Exempted
FOIA Ex 5
(Internal Law)

For more information about the Combined Forces Air Component Command, visit the Online Press Kit at http://www.af.mil/SWA_Presskit/index.shtml

Patriot Missile May Have Shot Down British Plane

Sun March 23, 2003 04:11 AM ET



LONDON (Reuters) - Britain said it appeared that a Royal Air Force plane that went missing in the Gulf on Sunday had been shot down by a U.S. Patriot missile.

"It appears the RAF aircraft was engaged by a Patriot missile near the Kuwaiti border. The crew are missing . I can't confirm the type of aircraft or the number of crew," said a spokesman for Britain's Defense Ministry.

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TAB DR

CENTA. -PSAB/SADO DDC Log

Reviewed By _____

Rank	Full Name	Initials	Time On	Time Off

[redacted]

Date 22-Mar-03

Time	Initials	Remarks
0000Z	JPN	Log opened for new zulu day. SADO: Lt Col[redacted] DOT: MSg[redacted]
0000Z	JPN	Log opened for new zulu day . SADO: Lt C[redacted] DOT: MS[redacted]

[redacted]

Date 22-Mar-03

Time	Initials	Remarks
		[redacted]

[redacted]

Date 22-Mar-03

Time	Initials	Remarks
2359Z		[redacted]

[redacted]

[redacted]

[redacted]

TAB DS

First 4 pages redacted.

WHEN FILLED IN

SIGNIFICANT EVENT SUMMARY FORM TRACKING NUMBER:220100ZMAR03

DATE:	DATE & ATO OF CD/EM EVENT:	DTG EVENT REPORTED (Z):
22MAR03	~~21~~MAR03/ATO P 22	~~220~~100ZMAR03 23

TGT NAME:
YAHOO 76

SUMMARY OF COLLATERAL DAMAGE / COUNTER PROPAGANDA / SIGNIFICANT EVENT
Possible loss of 1 GR-4 out of YAHOO flight. YAHOO 75 RTB. Mission recorded as loss.
CSAR MSN # 03-055

PRELIMINARY ASSESSMENT OF THE FACTS (ERRANT MUNITIONS, BAD TARGET DATA, ETC.)
Some question regarding involvement of potential Patriot shot. No confirmation of correlation at this time.

CFACC PUBLIC AFFAIRS INITIAL ASSESSMENT/RECOMMENDED COURSE OF ACTION

CFACC Combat Information Cell POC:
DSN 318-434-3908

KEY PERSONNEL NOTIFIED

☐ IWST Chief		☐ CIC DUTY OFFICER	☐ CSC
☐ CCO / DCO		☐ CIC Fusion Cell	☐ MDS Unit
☐ JAG – x 9873		☐ J2 TARGETS & BDA	☐ ADSI & Cost Rep
☐ MDS LNO		☐ J2 ACF	☐ STRAT CDI Cell
☐ CAOC Director	☐ CFACC/PA	☐ J2 ISR MANAGEMENT	☐ IW Coordinator CFACC Staff

SUPPORTING INFORMATION / DOCUMENTATION

MSN #:	MSN TYPE:	C/S:	# / TYPE ACFT:	# / TYPE WPN:
3075	SEAD	YAHOO 75	2xTORG4	

TGT DESC:

TGT LOC:	BE #:
DMPI NAME / DESC:	TOT (Z):

DATA COLLECTION

☐ TARGET GRAPHIC	☐ MISREP	☐ PFPS / Flight Plan / Route File
☐ PRE-STRIKE IMAGERY	☐ Open Source Info	☐ BDA ASSESSMENT
☐ MAAP	☐ POST-STRIKE IMAGERY	☐ ADSI TAPE
☐ ATO	☐ Unit Weaponeering / Atk Card	☐ ADSI ELECTRONIC FILE
☐ BUGSPLAT	☐ WPN Sys Video / Data Tapes	☐

PACKAGE PRODUCTION

☐ Mission Reconstruction	☐ Mission Summary Report	☐ Publicly Releasable Package

CD/EM/CP FORM 8, 13 Mar 2003, CENTAF-PSAB

[redacted]

WHEN FILLED IN

[redacted]

TAB DT

Entire Tab Redacted - 7 pages.

TAB DU

SWORN STATEMENT

For use of this form, see AR 190-45; the proponent agency is ODCSOPS.

PRIVACY ACT STATEMENT

AUTHORITY: Title 10 USC Section 301; Title 5 USC Section 2951; E.O. 9397 dated November 22, 1943 (SSN).
PRINCIPAL PURPOSE: To provide commanders and law enforcement officials with means by which information may be accurately
ROUTINE USES: Your social security number is used as an additional/alternate means of identification to facilitate filing and retrieval.
DISCLOSURE: Disclosure of your social security number is voluntary.

1. LOCATION	2. DATE (YYYYMMDD)	3. TIME	4. FILE NUMBER
Ali Al Salem, Kuwait	20030323	0700L	

5. LAST NAME, FIRST NAME, MIDDLE NAME	6. SSN	7. GRADE/STATUS
[redacted]	[redacted]	Lt Col

8. ORGANIZATION OR ADDRESS
22/23 Mar 03 - Patriot Firing

9.
I, _____, WANT TO MAKE THE FOLLOWING STATEMENT UNDER OATH:

I had taken my first restroom break for the evening and was PAed to return to the OC. I ran back to the OC and estimate my time away was less than 10 mins. Upon returning, I was briefed that a Patriot had been fired but no scud was detected. I called [redacted] to follow-up + ask if they had any launches into Kuwait -- answer No. I called the JSRCC + briefed the situation. At the same time I noticed a down aircraft report on the JSRC mirchat and called [redacted] JSRC, JSRCC for any info. [redacted] Space + JSRC told me the downed aircraft report was incorrect and was generated by the Patriot launch. As well, [redacted] Space told me there was no undetected Scud launch -- the Patriot launch was [redacted] Shortly after this, my MCC/SD [redacted] informed me of an ELT Beacon, and I proceeded to call all parties again - [redacted] JSRC, JSRCC,

10. EXHIBIT	11. INITIALS OF PERSON MAKING STATEMENT	PAGE 1 OF _____ PAGES

ADDITIONAL PAGES MUST CONTAIN THE HEADING "STATEMENT _____ TAKEN AT _____ DATED _____

THE BOTTOM OF EACH ADDITIONAL PAGE MUST BEAR THE INITIALS OF THE PERSON MAKING THE STATEMENT, AND PAGE NUMBER MUST BE BE INDICATED.

For use of this form, see AR 190-45; the proponent agency is CRSOPS

PRIVACY ACT STATEMENT

AUTHORITY: Title 10 USC Section 301; Title 5 USC Section 2951; E.O. 9397 dated November 22, 1943 (SSN).
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ROUTINE USES: Your social security number is used as an additional/alternate means of identification to facilitate filing and retrieval.
DISCLOSURE: Disclosure of your social security number is voluntary.

1. LOCATION	2. DATE (YYYYMMDD)	3. TIME	4. FILE NUMBER
Ali Al Salem, Kuwait	20030322	2346	

5. LAST NAME, FIRST NAME, MIDDLE NAME	6. SSN	7. GRADE/STATUS
[redacted]		E7 / Msgt

8. ORGANIZATION OR ADDRESS
386 EACS / DO

9.
OATH, [redacted], WANT TO MAKE THE FOLLOWING STATEMENT UNDER OATH:

On 22 march 03 at approximately 2346z I received a phone call from the British Coalition Forces stating that there was a Patriot engagement. Furthermore they wanted to know if we [redacted] had any additional amplifying information. I immediately questioned the on duty ADAFCO Capt [redacted] who was on another line discussing this very issue. I heard the Capt [redacted] state "the CRC/ICC did not approve or were aware of any Patriot engagement [redacted] Also, I saw nothing on my scope indicating [redacted] and I informed the Captain of this. Several coordinates were passed in relation to a beacon of a distressed aircraft. Initial coordinates were [redacted] At 0009z all a/c for the ATO were accounted for per PSAB CAOC. At 0052 GR4 squadron reported they have lost contact with Yahoo 76 over the Udari Range last known position [redacted] per the Rapier unit. Later Capt [redacted] asked me to verify 3 tracks, but I had no data on any of them with our Gateway Sim Station. At 0054z I spoke with SrA [redacted] one of our Weapons Directors who spoke with Yahoo 75 the flight lead, but she had no comms with Yahoo 76. This concludes my statement nothing further to follow [redacted]

end of statement

10. EXHIBIT	[redacted] INITIALS OF PERSON MAKING STATEMENT	PAGE 1 OF 1 PAGES

ADDITIONAL PAGES MUST CONTAIN THE HEADING "STATEMENT ____ TAKEN AT ____ DATED ____

THE BOTTOM OF EACH ADDITIONAL PAGE MUST BEAR THE INITIALS OF THE PERSON MAKING THE STATEMENT, AND PAGE NUMBER MUST BE BE INDICATED.

frequency Yahoo 75 was on

To Whom it may concern:

24 March 2003

On the date in question 22 March 2003, I was controlling Yahoo 75 on his checkout when he came safe. Had negative radar contact on the aircraft. Told him that he was clear to descend and push to Salem Approach where he was landing. Yahoo 75 came back up my frequency a few minutes later and told me that he was just shot at by a missile. He thought that at about the Udari range was where the missile had shot at him. Asked for the coordinates and said that it was about 8 nm from his aircraft. Asked at what altitude and said that it exploded behind him at about 20k at approximately 2348Z. He had nothing else to pass so I cleared him back to approach. He did not tell me whether or not his wingman was with him or not. Called my SD and passed him the information.

[redacted]

I hereby voluntarily and of my own free will make this statement without having been subjected to any coercion, unlawful influence, or unlawful inducement. I swear (or affirm) that this statement is true and correct to the best of my knowledge.

Subscribed and sworn to before me, a person authorized by law to administer oaths, this 24 day of March 2003

[redacted]

Senior Director 1Lt[redacted] 23 March 2003

Controllers

Immediately following the impact of the missile, MSg[redacted]orted that one of the aircraft under his control reported an explosion clearly visible over Kuwait airspace and that the Patriots were firing. I checked my scope to see if there were any unknown tracks in the area indicating a scud launch. MSgt[redacted]ported that other aircraft were seeing the same explosion. I called the Operations Center and asked Lt Col [redacted] the Patriots were shooting at anything. Lt Col[redacted]d me that the Patriots launched on an unreported incoming missile. SrA[redacted]en called me from the other Operations Module and said that Yahoo 75 reported the explosion to her. Believing that a missile was successfully intercepted, I went back to whatever I was doing at the time. When the tanker controller reported that one of the aircraft under his control had a loud ELT, I reported this information to Lt Col[redacted] When[redacted]called over AC-1 and requested that[redacted]do a roll call of all aircraft in Kuwait we determined to the best of our knowledge that all aircraft were accounted for. Later I took a break and when I returned to position, CSAR was underway to find Yahoo 76 who was late returning to base.

[redacted]

1Lt[redacted]

TO: 386 EACS/DO 23 Mar 03

FROM: Major [redacted] (Mission Crew Commander)

SUBJ: YAHOO 76 SITREP FROM [redacted] CRC)

I was not in the Ops Module at the time. This is all discussion and recounts after-the-fact.

Approximately 2345z Yahoo 75 checked out with [redacted]. Yahoo 75 reported a missile was shot at him and exploded approximately 8 miles to the West of his position.

Absolut check-in assist controller SrA [redacted] as monitoring this frequency and acknowledged the call. SrA [redacted] sitting on position in Ops Module #3) relayed the report to the Senior Director 1L [redacted] sitting on position in Ops Module #1) via intercom.

[redacted]

SWORN STATEMENT

For use of this form, see AR 190-45; the proponent agency is ODCS

PRIVACY ACT STATEMENT

AUTHORITY: Title 10 USC Section 301; Title 5 USC Section 2951; E.O. 9397 dated November 22, 1943 (SSN).
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ROUTINE USES: Your social security number is used as an additional/alternate means of identification to facilitate filing and retrieval.
DISCLOSURE: Disclosure of your social security number is voluntary.

1. LOCATION	2. DATE (YYYYMMDD)	3. TIME	4. FILE NUMBER
	20030323	0412Z	

5. LAST NAME, FIRST NAME, MIDDLE NAME	6. SSN	7. GRADE/STATUS
[redacted]	[redacted]	O3

8. ORGANIZATION OR ADDRESS
386 EACS, Ali Al Salem AB, Kuwait

9.

I, _____, WANT TO MAKE THE FOLLOWING STATEMENT UNDER OATH:

At approximately 2345Z on 22 Mar 03, I heard one of the ADAFCO's phones ring. Capt [redacted] nswered the phone. He immediately looked over at the Ops Coordinator, MSgt [redacted] d asked if he (MSgt [redacted] showed anything on the ADSI. ~~He~~ I looked at the ADSI and before I could answer, I heard Capt [redacted] say "Confirm kill?" Approximately 2 minutes later, I called the MCC and asked if they had any aircraft talking about a downed wingman or flight lead. He (Lt [redacted] said no and I had him account for all aircraft under [redacted] Control. Lt [redacted] accounted for all aircraft. It wasn't until approximately 10 minutes later that we learned Yahoo 76 was missing [redacted]

10. EXHIBIT	11. INITIALS OF PERSON MAKING STATEMENT	PAGE 1 OF _____ PAGES
	[redacted]	

ADDITIONAL PAGES MUST CONTAIN THE HEADING "STATEMENT _____ TAKEN AT _____ DATED _____

THE BOTTOM OF EACH ADDITIONAL PAGE MUST BEAR THE INITIALS OF THE PERSON MAKING THE STATEMENT, AND PAGE NUMBER MUST BE BE INDICATED.

YAHOO 75/76 (T NADO GR-4) MISSION CHRON( )GY

(22 March, 2100Z – 23 Mar, 0005Z)

2100:00 Z – RAF Aircrew for Yahoo 75/76 pre-brief and conduct pre-flight checks of aircraft at Ali Al Salem AB Kuwait

2210:00 Z – Yahoo 75/76 (two Tornado GR-4s) take off from Ali Al Salem AB Kuwait

2215:00Z - Yahoo 75 checks-in with [redacted] eported Yahoo 75 sour (no Modes/codes); he recycled his transponder

2215:38Z - [redacted] rts sweet; cleared to [redacted]

2216:53Z - Yahoo 75 attempted check-in wit[redacted] o joy twice

2217:53Z – [redacted] sponds to Yahoo 75 "copy, searching"

2218:40Z [redacted] alls Yahoo 75 "contact on different frequency"

2221:00Z – Yahoo 75 holds

2223:00Z – Yahoo 75 makes contact with [redacted] alternate frequency; enroute to target area

2331:24 Z - two tracks are established by [redacted] at are believed to be Yahoo75 and 76. Yahoo75 is track #KA344 and Yahoo76 is track #KA361. Yahoo75 is squawking mode 3 of 4116 and mode 2 of 0134. Yahoo76 does not appear to be squawking

2333:15 Z – Track 01567 reported by center E-3 at 3047N 04528E, ID Friendly, heading 124, alt unknown, speed 589 knots ground squawking Mode 2-0134. Based on numerous reviews of center and south E-3 tapes this track is assessed to be Yahoo 75. Although the Mode 2 is inconsistent with the ATO, the flight path, timing, and correct Mode 3 (2471 sensed once the track is in Kuwait), strongly supports the assumption that this contact is Yahoo 75. A Mode 4 auto full-scan interrogation returns a SINGLE valid mode 4 response for Track 01567.

2334:16 Z – indications of 2 radar contacts at 3043N 04538E but only one IFF return

2338:04 Z – Good tracking by center E-3 of track 01567 now at 3029 N 04611 E, heading 110, speed 561, valid M4 in track TD, reported Mode 2 of 0134.

2339:19 Z – Radar only contact at 3030N 04632E approximately 4 NM north of track 01567's position. The contact is approximately 45 degrees offset to the left and paralleling 01567's flight path. A Mode 4 auto full-scan interrogation returns no Mode 4 indications on either Yahoo 75 or the radar only contact. The south E-3 puts symbology on radar only contact track 02461 (TKD JP77). The track is not told across the link because the south E-3 is not yet transmitting in the link due to south orbit station handover.

2341:35 Z – Radar contact on Y[illegible] 75 at 3018N 04643E, but no symbo[illegible] within 7NM of data. Trail contact now bearing 300 degrees/3NM from lead. South E-3 is not receiving center E-3 picture at this time (South link handover in progress).

2342:06 Z – South E-3 places symbology back on lead contact—Yahoo 75, track 02461 (TKD JP77); south E-3 (mission CDC383) now active in link—PU 00005. Track 02461 now being used to track both contacts.

2342:35Z – Trail radar contact lost IVO of 3012N 04648E (possible R Dot).

2243:25 Z – Negative radar contact on either aircraft (possible R Dot)

2344:02 Z – Possible radar contact on trail aircraft at 3007N 04655E

2344:02 Z – Radar on lead bearing 110 degrees/5NM in front of trail aircraft.

2344:50 Z - Yahoo75 crosses border into Kuwait heading 125, altitude 21,600' Mode C reported, speed of 510 knots ground speed.

2345:00Z – Yahoo 75 calls [redacted] odeword' [redacted] ushes Yahoo to [redacted]

2345:13 Z – South E-3 again receiving center E-3 picture. Track 01567 reappears on lead contact's data. Track JP77 is re-initiated away from the data by south E-3. Position of track 01567 is now 2959N 04712E IVO the Kuwait border heading 126, alt 23200 ft indicated, speed 520 knots.

2345:15 Z - Yahoo76 crosses border into Kuwait heading 128, altitude 27,600' radar measured, speed of 460 knots ground speed. Yahoo76 is bearing 258 from Yahoo75, range of 5nm.

2345:20Z [redacted] called by Yahoo 75 "reports North Point for recovery"; cleared down to 4,000ft and pushed to Salem Approach Control

2345:34 Z – Center E-3 tracking the lead aircraft at 2958N 04714E, track 01567. Intermittent trail contact at the 5 o'clock/5 NM position from track 01567.

2346:01 Z - aircraft in the vicinity is Sunking01, USN E-2C, from CVW2, squawking mode 2 4601. Crosses approximately 2nm in front of Yahoo75. Sunking's altitude is unknown.

2346:15Z – Yahoo 75 calls "AS Arrival" and checks in for approach control

2346:46Z – AS Approach contacts Yahoo 75 "say position"

2346:51 Z - Yahoo76 crosses Yahoo75's six o'clock position right to left at a range of 3nm. Yahoo 76 is heading 121, altitude 25,500, speed of 480 ground.

2347:14 Z - Yahoo76 is in 3nm t of Yahoo75 heading approximately 1 Yahoo75 is at mode C altitude of 9,000. Yahoo76 is at altitude 20,500' radar measured.

2347:17 – Internal cockpit conversation (Yahoo 75) IFF all on

2347:18 Z – Track 01567 at 2946N 04721E; heading 158, alt 10100 ft indicated, speed 411 knots ground, squawking Mode 1-61, Mode 2-0134, Mode 3-2471 and valid Mode 4 (from track TD). There is an intermittent trail contact now at the 6 o'clock/4 NM position from track 01567.

2347:20Z – AS Approach "got you squawking, radar contact 2 1/2mi NW of _____; fly 120deg

2347:25 Z – Ident squawk detected on track 01567.

2347:39Z – Yahoo 75 HUD displays launch (bright spot on HUD); Yahoo 75 responds hard right turn and calls internal for flares

2347:49 Z – Radar "noise" (multiple dots) detected behind track 01567. Track 01567 is now at 2943N 04722E. Noise is BRAA 350 degrees/5 NM from track 01567.

2348:00 Z – Yahoo 76 is engaged by PATRIOT (US source data)

2348:02 Z - Yahoo76 changes heading to 129. Altitude is 17,500 radar measured, speed 420 knots ground. Yahoo75 heading approximately 180, at altitude 7,800 mode C reported

2348:15 Z - Yahoo76 is bearing 012, at range 3nm from Yahoo75. Yahoo76 is heading 120, at altitude 14,600' speed 270 knots ground. This time appears to be the first indication of something abnormal for Yahoo76 with a significant speed decrease and possible indication of a maneuver.

2348:21Z – Yahoo 75 calls AS and reports "rocket launch" and declares intention to do black hole approach

2348:26 Z - Yahoo76's track indicates multiple radar returns from two different radars at locations up to approximately 1nm apart.

2348:39 Z - three HAT radars show radar returns each within approximately a 1nm circle of Yahoo76's position. Intense maneuvering appears to continue until 2349:13 Z.

2349:10Z – Yahoo 75 calls [redacted] nd reports "missile fired vicinity of Western edge of Udairi range"

2349:23 Z - radar return emerges from the maneuvering circle at low speed.

2349:50Z – Yahoo 75 frequency changes back to AS

2350:00 Z - Track 01567 continues south and lands at Ali Al Salem AB Kuwait.

2350:42Z – Yahoo 75 navigator calls nearby GR-4 on Guard warning of missile launch

2351:47 Z - tracking is lost on Yahoo76. Yahoo75 is transiting over Ali Al Salem heading 174, altitude 10,100' mode C reported, speed of 300 knots ground.

2354:00Z – Yahoo 75 contacts Tower for landing

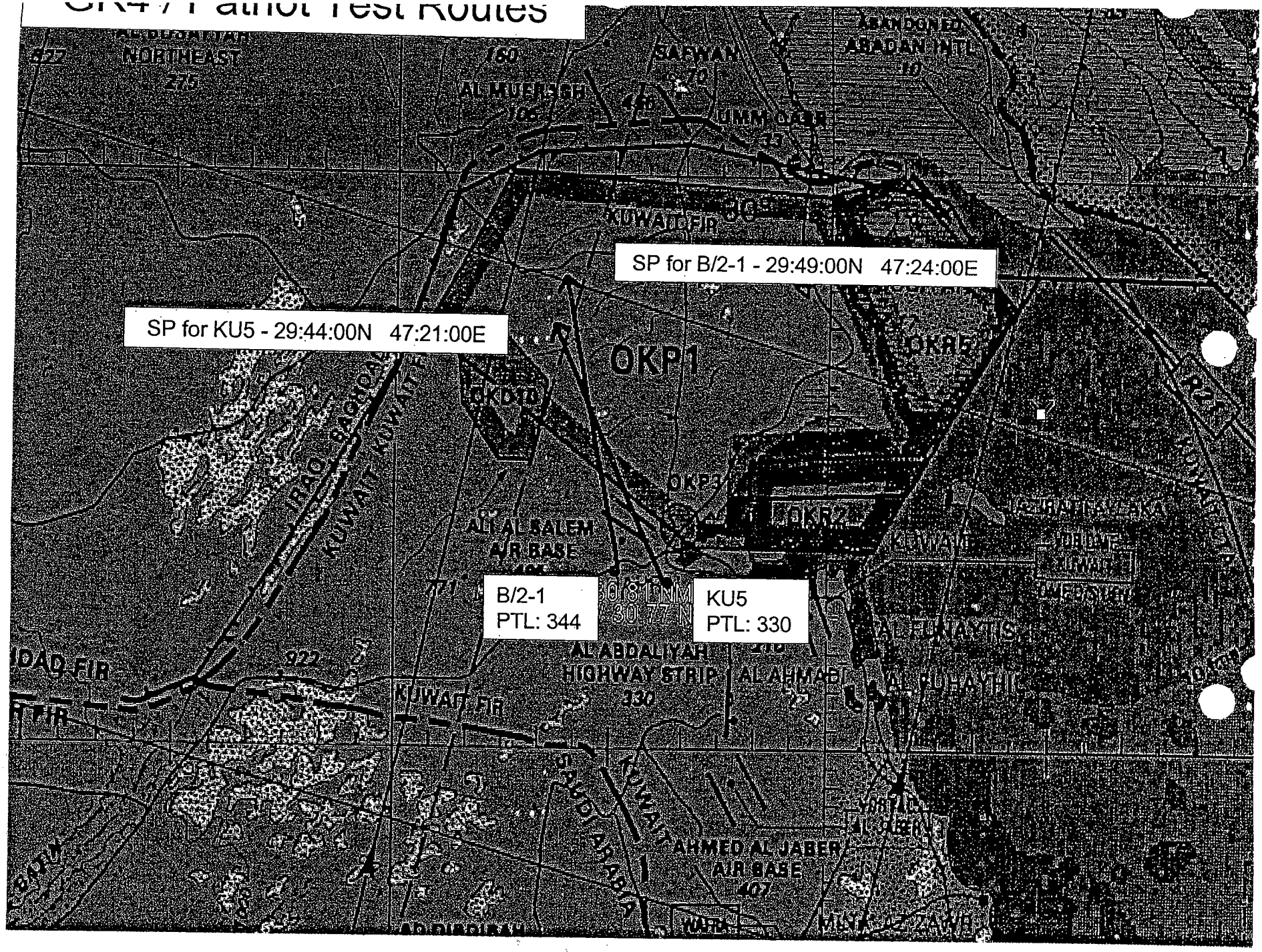
0001:00 Z – Yahoo 75 lands at Ali Al Salem AB

~0005:00Z - Vandal 71 (another GR-4 aircraft) lands at Ali Al Salem AB (in-flight diverted from Al Udeid AB Qatar)

TAB DV

First 3 pages of tab redacted.

OK47 Patriot Test Routes



TAB DW

A/2-1 Observations of RAF Event (U)

April 4, 2003

Derived From: USAAMCOM, SFAE-AMD-PA, SCG
PATRIOT AD MS, 06 JUN 00

Declassified On: X3

Date of Source: 06 JUN 00

Regraded as UNCLASSIFIED when separated from CLASSIFIED enclosures.

[redacted]

23 March RAF Event (Preliminary) (U)

NO EDR DATA RECEIVED FROM ENGAGING FU

- **Observing Fire Unit A/2-1 tracked both aircraft, and observed the intercept of the trailing aircraft**
  - –Lead Target (Tgt 92/23)
  - –Trail Target (Tgt 45/97)
- **The Following Data Analysis is from the Observing FU A/2-1**
- **Analysis from Observing FU D/2-1 Ongoing**

[redacted]

[redacted]

Data from Observing Fire Unit A/2-1 (Preliminary) (U)

- Observing Fire Unit A/2-1 Target Tracks
  - Lead Aircraft (Tgt 92/23)
  - Trailing Aircraft (Intercepted) (Tgt 45/97)
- A Friend Identification was provided for each aircraft by the ICC to the Observing Fire Unit A/2-1

The Engaging Fire Unit was autonomous, so the Friend ID was not received

- The Trailing Aircraft Intercept was observed by A/2-1from Long Range
  - [redacted], 4.5 km Altitude (Fire Unit Local Coordinates from A/2-1)

[redacted] [redacted]

[redacted]

A/2-1 Observations
Ground Range vs. Altitude (Preliminary) (U)

- The chart shows all the TDRs tracked by the Observing A/2-1 Fire Unit in Ground Range vs. Altitude (Fire Unit Local Coordinates)
- Trailing Aircraft intercept is Observed in A/2-1 Track Data
- Leading Aircraft is observed returning to base

[redacted]

[redacted]

[redacted]

A/2-1 Observations
Ground Range vs. Altitude (Preliminary) (U)

[redacted]

[redacted]

[redacted]

A/2-1 Observations
Ground Range vs. Altitude Close-Up (Preliminary) (U)

- The chart shows a close-up of all the TDRs tracked by the Observing A/2-1 Fire Unit in Ground Range vs. Altitude (Fire Unit Local Coordinates)
- Trailing Aircraft Intercept is Observed in A/2-1 Track Data
- Leading Aircraft is observed returning to base
- Multipath effects on the Lead Target Track cause the target altitude measurement to be coasted while the Multipath Flag is Set - Lead Target Only
  - Low Grazing Angle to Lead Target due to [redacted]
  - Altitude data on Lead Target not provided while Multipath Flag set
    - ∴ No data to indicate Lead Target altitude varied from level flight of approximately 2.5 km altitude

[redacted]

[redacted]

A/2-1 Observations
Ground Range vs. Altitude Close-Up (Preliminary) (U)

[redacted]

[redacted]

A/2-1 Observations
Cross Range vs. Down Range (Preliminary) (U)

- The chart shows all the TDRs tracked by the Observing A/2-1 Fire Unit in Cross Range vs. Down Range (Fire Unit Local Coordinates)
- Trailing Aircraft Intercept is Observed in A/2-1 Track Data
- Leading Aircraft is observed returning to base

[redacted]

[redacted]

AIR AND MISSILE DEFENSE
PROGRAM EXECUTIVE OFFICE

[redacted]

[redacted]

[redacted]

LOWER TIER PROJECT OFFICE
Air and Missile Defense

PATRIOT PAC-3 HIT TO KILL VLADS

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

A/2-1 Observations
Cross Range vs. Down Range Close- Up (Preliminary) (U)

[redacted]

[redacted]

A/2-1 Observations
Altitude vs. Time (Preliminary) (U)

- Chart shows both aircraft tracked by the Observing A/2-1 Fire Unit in Altitude vs. Radar Action Time which is in seconds
- Trailing Aircraft Intercept is Observed after Dive
- Leading Aircraft is observed returning to base
- Multipath effects on the Lead Target Track cause the target altitude measurement to be coasted while the Multipath Flag is Set - Lead Target Only
  - Low Grazing Angle to Lead Target due to long range (145 km)
  - Altitude data on Lead Target not provided while Multipath Flag set
    - ∴ No data to indicate Lead Target altitude varied from level flight of approximately 2.5 km altitude

[redacted]

[redacted]

[redacted]

A/2-1 Observations
Altitude vs. Time (Preliminary) (U)

[redacted]

[redacted]

[redacted]

A/2-1 Observation of Trailing Target Velocity (Preliminary) (U)

- Chart shows the Trailing Target Velocity before and after intercept
- Observing Fire Unit A/2-1 received a FRIEND ID from its ICC 134.1 seconds before the Intercept by the Engaging Fire Unit
- The Engaging Fire Unit was Autonomous, so it did not receive a FRIEND Identification
  - No data communication links from external sources to Engaging Fire Unit

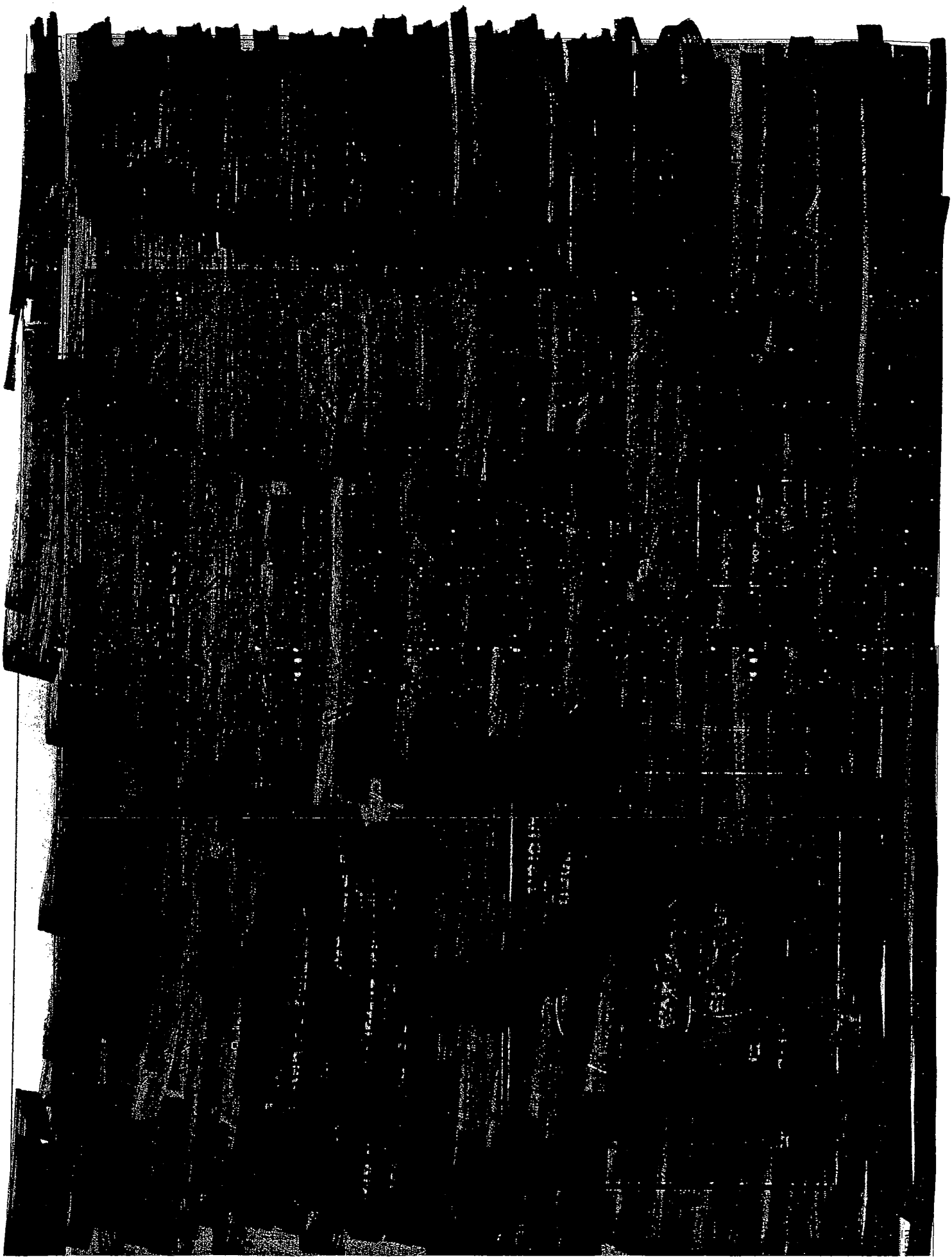
[redacted]

[redacted]

A/2-1 Observation of Trailing Target Velocity (Preliminary) (U)

[redacted]

[redacted]



[redacted]

23 March RAF Event
On-Going Analysis (Preliminary) (U)

- The Trailing Aircraft trajectory characteristics Observed by the A/2-1 Fire Unit are presently being evaluated to determine whether the track was consistent with ARM classification criteria

[redacted]

[redacted]

EDR RESULTS (U)

April 3, 2003

Derived From: USAAMCOM, SFAE-AMD-PA, SCG PATRIOT AD MS, 06 JUN 00

Declassified On: X3

Date of Source: 06 JUN 00

Regraded as UNCLASSIFIED when separated from CLASSIFIED enclosures.

[redacted]

STATUS REGARDING TAPES RECEIVED ON 2 APRIL 2003 (PRELIMINARY) (U)

- **EDRs Relating to RAF engagement**
  - Preliminary analysis conducted to determine EDR data "time" coverage
  - FU B/2-1 EDR data begins approximately 6 minutes after intercept
  - FU D/2-1 EDR data covers the event timeframe: Analysis beginning
  - FU A/2-1 EDR data covers the event timeframe: Analysis in process

[redacted]

[redacted]

[redacted]

23 March RAF Event (Preliminary) (U)

- **NO DATA RECEIVED FROM ENGAGING FU**
- FU A/2-1 Observed the RAF Intercept
- The Following Data Analysis is from the Observing FU A/2-1

[redacted]

[redacted]

23 March RAF Event (Preliminary) (U)

- **Analysis of data from <u>Non-Engaging</u> FU A/2-1 EDR 21A23303.mrt ongoing:**
  - Analysis results based on FU A/2-1 data reductions
    - > FU A/2-1 observed intercept event
    - > 4.5 km altitude, [redacted]
    - > TOD 23:47:56
  - Two ABTs were analyzed: Lead target 92/23, Trail target 45/97 (intercepted)
- [redacted]
- **The Tornado trajectory characteristics observed by FU A/2-1 are presently being evaluated to determine if they are within ARM classification criteria**
- **Trajectory presently being converted to "engaging FU coordinates" to compare characteristics with all ARM classification criteria**

[redacted]

[redacted]

Yldot vs. MCI
Data As Seen From Non-Engaging Fire Unit A/2-1 (U)

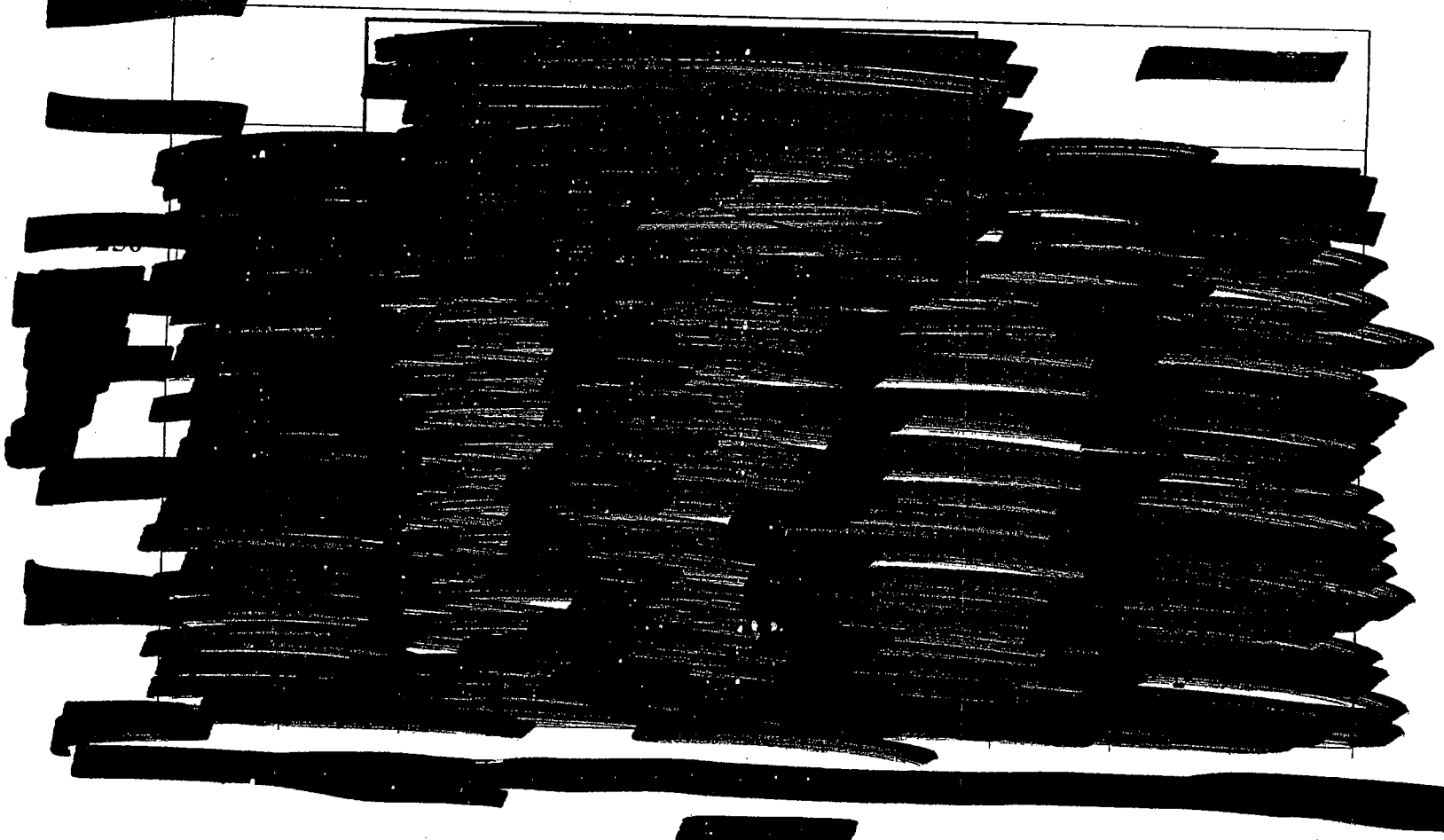
[redacted]

[redacted]

[redacted]

Velocity vs. MCI
Data As Seen From Non-Engaging Fire Unit A/2-1 (U)

[redacted]



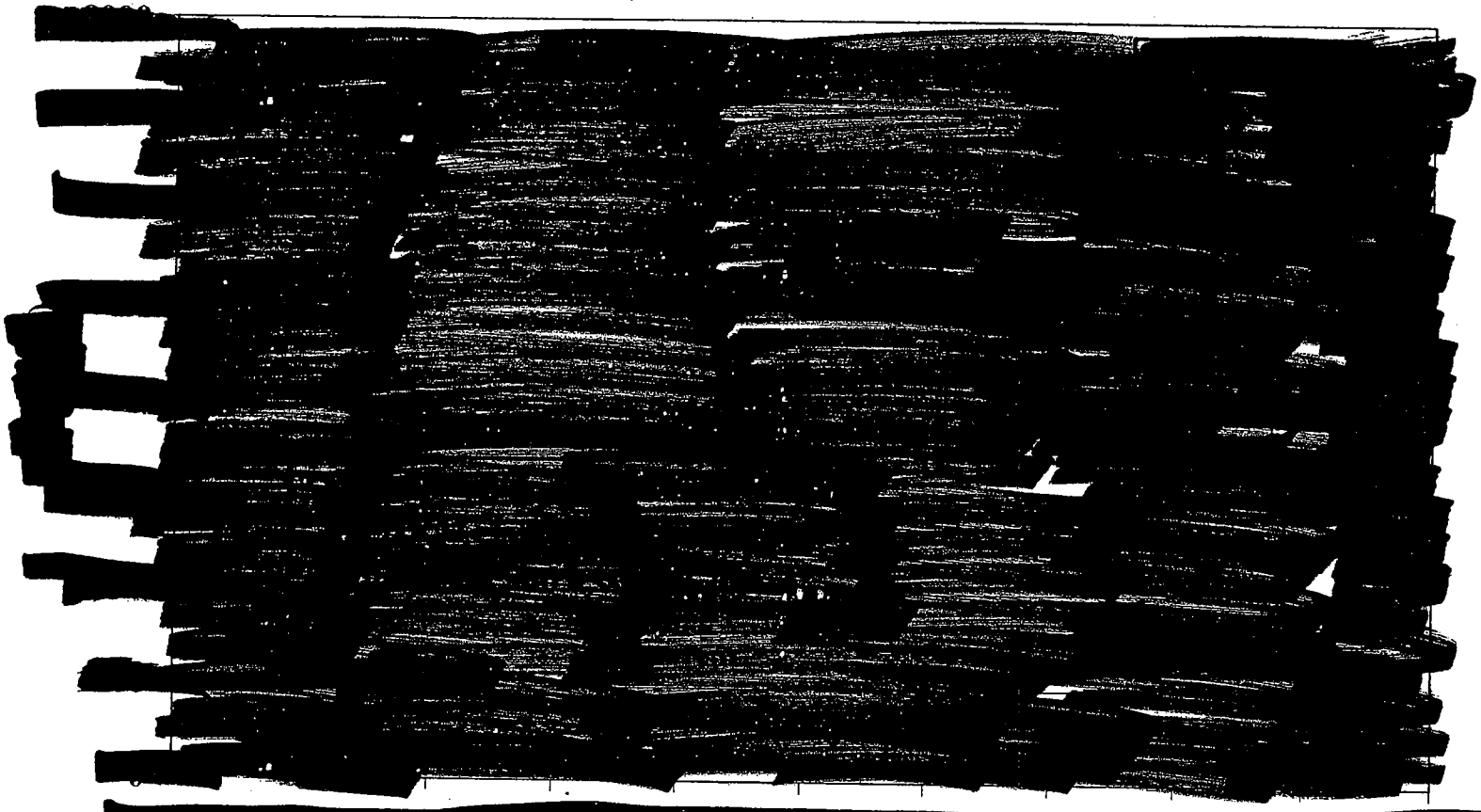
[redacted]

[redacted]

[redacted]

Altitude vs. MCI
Data As Seen From Non-Engaging Fire Unit A/2-1 (U)

[redacted]



[redacted]

[redacted]

[redacted]

RCS vs. MCI
Data As Seen From Non-Engaging Fire Unit A/2-1 (U)

[redacted]

[redacted]

AIR AND MISSILE DEFENSE
PROGRAM EXECUTIVE OFFICE

[redacted]

LOWER TIER PROJECT OFFICE
Air and Missile Defense
PATRIOT PAC-3 VLADS

[redacted]

TAB DX

TAB DY

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[redacted]

Blue on Blue Incident – Day 81 (U)

- (U) No data recorded at engaging FU on Day 81
- [redacted]Data available from FU [redacted] that recorded the incident
- (U) SED IV&V Team extracted track position and kinematic data from observing FU
- (U) Performed coordinate conversion and translation of data to location, altitude, and orientation of engaging FU and created Flight Mission Simulator, Digital (FMS-D) scenario file
- (U) Engaging FU initialization extracted from data collected on Day 82
- (U) PATRIOT FU connected to FMS/D to simulate radar and launchers at SED PATRIOT Software Test Facility
- (U) Scenario generated air picture and track processing as would have occurred at engaging FU

[redacted]

[redacted]

Blue on Blue Incident – Day 81 (U)

- (U) During multiple runs, track of interest <u>never</u> classified [redacted]
  - [redacted]
  - [redacted]
- [redacted]
- [redacted]

[redacted]

TAB DZ

~~First~~ 8 pages redacted.
(entire tab)

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(Operations) to FRAGO 7.

1. (U) Tasks for Subordinate Units

a. (U) A/2-1.

1) [redacted]

2) [redacted]

3) [redacted]

4) [redacted]

b. [redacted]

[redacted]

2) [redacted]

[redacted]

3) [redacted]

4) [redacted]

c. [redacted]

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(Operations) to FRAGO 7.

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(Operations) to FRAGO 7.

b. (U) Initial Firing/Targeting Guidance.

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1. (U) Tasks for Subordinate Units. No change.

[redacted]

a. [redacted]

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(Operations) to FRAGO 16 . O OPORD 03-20 OPERATION DE. . HUSSEIN

1. (U) Tasks for Subordinate Units. No change.

2. [redacted]

[redacted]

TAB EE

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[redacted]

1. (U) Tasks for Subordinate Units. No change.

2. [redacted]

a. [redacted]

b. [redacted]

[redacted]

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1. (U) Tasks for Subordinate Units. No Change

2. (U) Coordinating Instructions.

a. [redacted]

(1) [redacted]

3: [redacted]

[redacted]

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TAB EI

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