



WS3 Sustainment Program



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JOSHUA HANDLER

Program Management Review for HQ USAFE/LG

3 March 2000

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VTC Agenda



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- **08:00 Welcome** Colonel Ebner
 - **08:15 Users Conference Report`** Mrs. Sweeney
 - **08:45 TIM & SWG Reports** Mr. Weber
 - **08:45 Prior Action Item Review** Mr. Herosian
 - **09:15 WS3 Program Review** Mr. Herosian
 - **10:45 NATO Funding Report** Capt. Albritton
 - **11:15 FD Funding Summary** Mrs. Russell
 - **11:45 Discussion & Action Items** Group
 - **12:00 Adjourn**

WEAPONS STORAGE AND SECURITY SYSTEM (WS3)



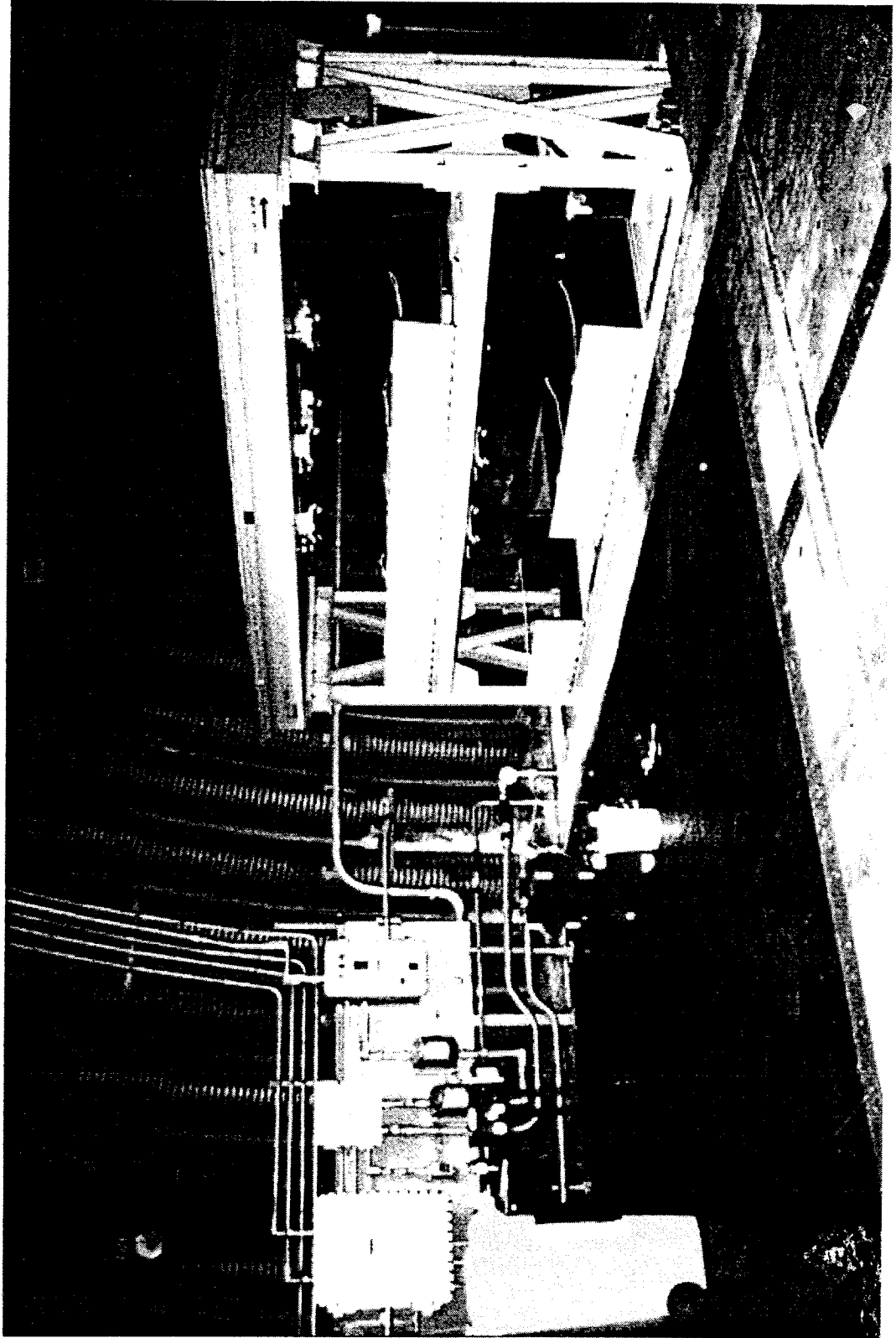
SYSTEM OVERVIEW

WEAPONS STORAGE AND SECURITY SYSTEM (WS3)

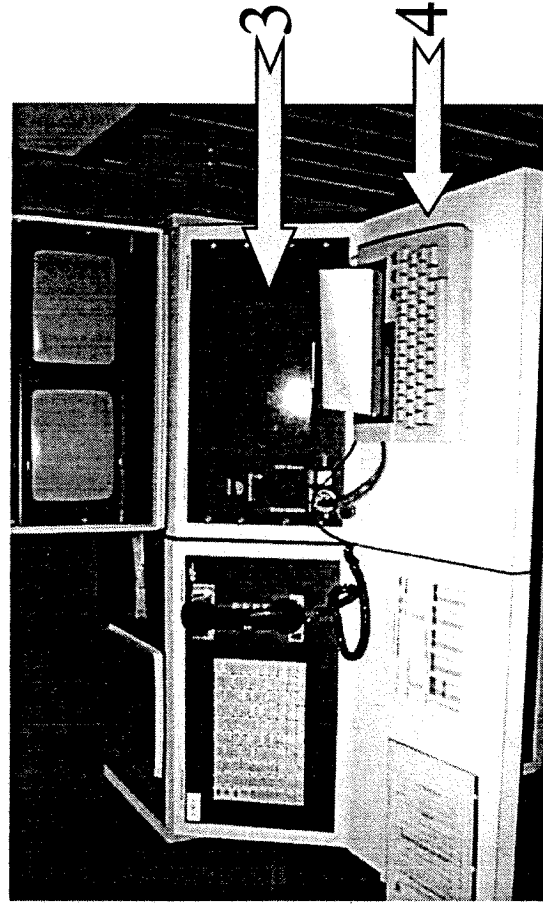
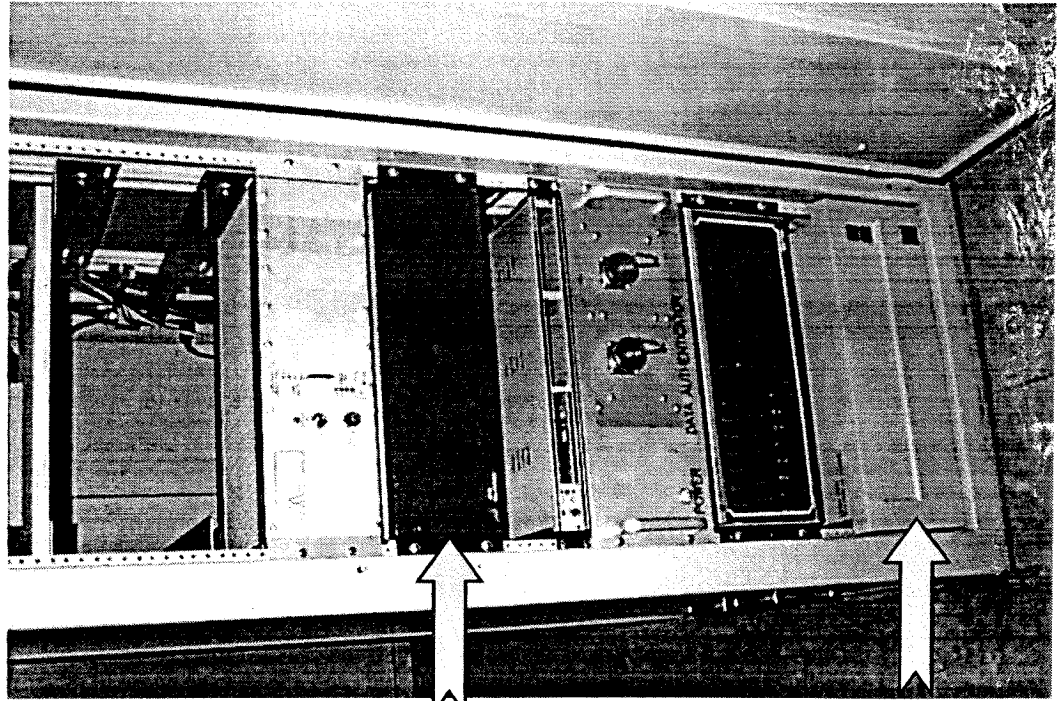


**WS3 IS THE NATO APPROVED STORAGE
SYSTEM FOR THEATER NUCLEAR FORCE
AIR DELIVERED WEAPONS**

WEAPONS STORAGE AND SECURITY SYSTEM (WS3)



WEAPONS STORAGE AND SECURITY SYSTEM (WS3)



1. Video Switching Unit
2. Message Processor
3. Touchscreen
4. Keyboard Printer



SYSTEM LOCATIONS AND HISTORY

- Capability Study 1979
- Initial Ops Test 1987

Buechel (11)	-----	Aug 90
Memmingen (11)	----	Oct 90
Norvenich (11)	-----	Jun 91
Volkel (11)	-----	Sep 91
Ramstein (54)	-----	Jan 92
Kleine Brogel (11)	----	Apr 92
Lakenheath (33)	-----	Nov 94
Aviano (18)	-----	Jan 96
Ghedi (11)	-----	Jan 97
Balikesir (6)	-----	Sep 97
Araxos (6)	-----	Sep 97
Akiinci (6)	-----	Oct 97
Incirlik (25)	-----	Apr 98

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PMR Overview



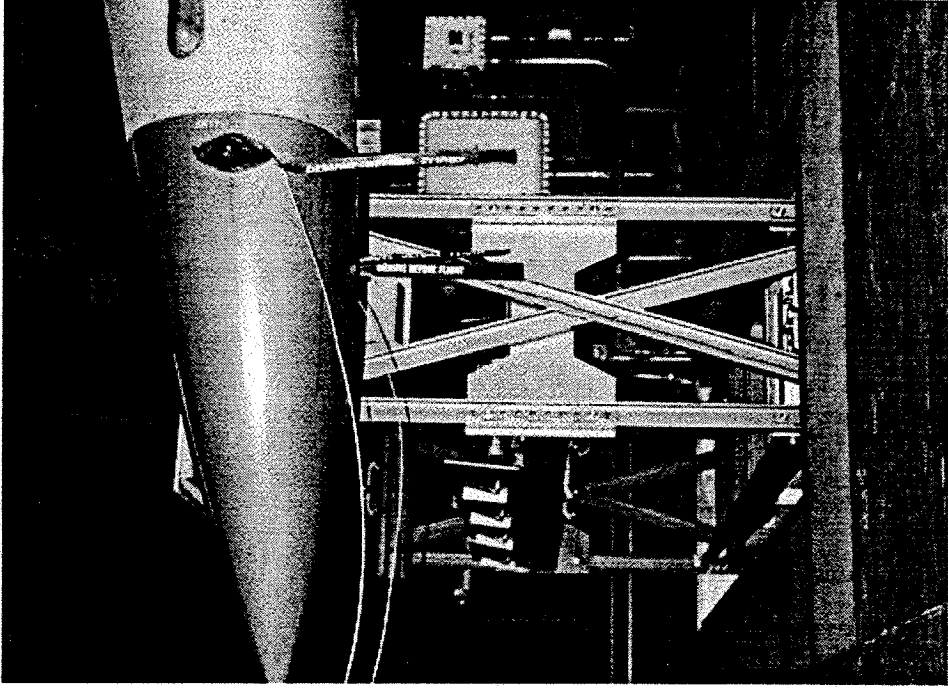
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- **Purpose**
 - **Background**
 - **Contract Closeout Issues**
 - **WS3 Sustainment Program Objectives**
 - **Requirements**
 - **Roles & Responsibilities**
 - **Modification Plan, Risks & Accomplishments**
 - **Schedule**
 - **Funding**
 - **Program Manager's Assessment & Summary**



Purpose



- Review Program Status
- Report Program Accomplishments
- Identify & Plan Mitigation of Program Risks
- Plan Future Actions





WS3 Background



-
- TAF SON 303-79 (S/FRD) Feb 79
 - Capability for Hangarrette Storage Of Tactical Weapons
 - WS3 Operational Test & Evaluation (IOT&E) Nov 87
 - Ramstein AB, GE
 - WS3 Initial Operational Capability Sep 90
 - Buchel AB, GE
 - Final Installation Apr 98
 - Incirlik AB, TU
 - AF Form 1067 (Modification Requirements) signed Aug 99



Installation Contract Closeout



- **Installation Prime Contractor : Bechtel National, Inc.**
- **Contract Installation Period: Feb 89 - April 98**
- **Bechtel installed 249 Vaults at 15 sites in 7 Countries**
 - **Current Claim for \$5M by Bechtel Corp. based on unilateral contractual interpretation**
 - **UK Taxation Authority levying back taxes against Bechtel WS3 installers (\$.5M exposure)**
 - **Bechtel claiming interest on DFAS late payments**
- **Recoupment of funds from Turkish MOD**

Modification Program Objectives



- **Enable WS3 Sustainment Through FY18**
 - **Replace obsolescent components**
 - **Update WS3 technical data package**
- **Execute and install the required modifications at 13 locations in European Theater**
- **Achieve WS3 nuclear re-certification**
- **Support USAFE LG programming and planning**
- **Provide data to support NATO funds authorization and recoupment**

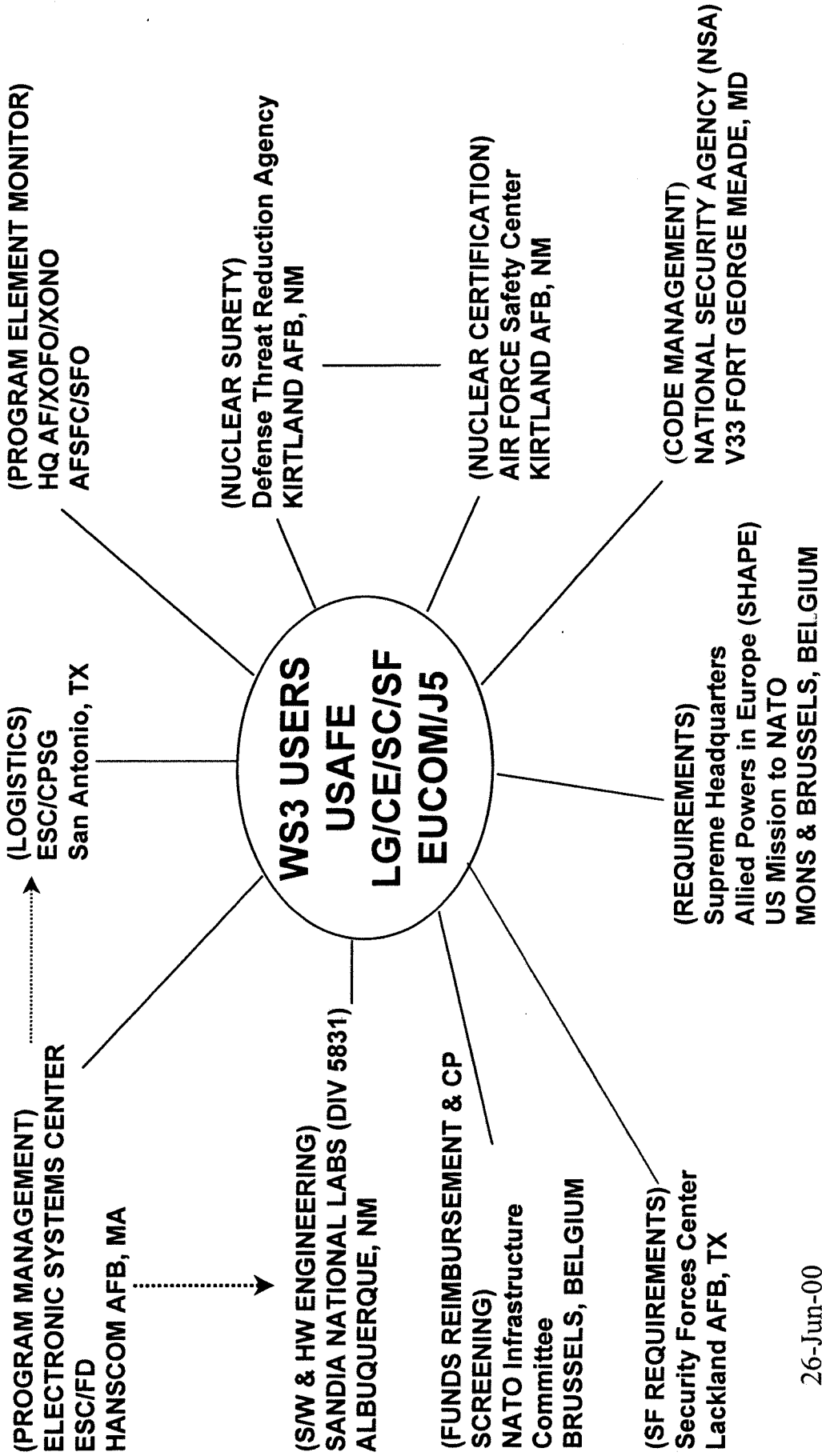
Modification Program Requirements



- **Mission Need:**
 - SHAPE Capabilities Package & NATO JFAI Report
 - AF Form 1067 (Modification)
- **Contract Need:**
 - Security System Statement of Objectives (SOO)
- **Program Management:**
 - Modification Program WBS
 - WS3 PMD
 - USAFE/ESC MOA



Roles and Responsibilities



26-Jun-00



Modification Plan



- **Evaluate Replacement of Message Processor, Touchscreen, Video Switching Unit, and Keyboard Printer functions**
- **Use “Open” architecture & COTS components**
- **Involve operators during Rapid Prototyping**
- **Closely manage Software Development Process**
- **Begin Nuclear Certification Tasks**
- **Document design trade-offs in Modification Engineering Report (May 2000)**



Plan Execution



-
- **Veteran USAFE/ESC IPT**
 - **Phase 1: (FY99-02)**
 - **Engineering study, trade-offs**
 - **Prototyping & Certification**
 - **FOT& E at Ramstein Training Facility**
 - **Phase 2: (FY03-05)**
 - **Centralized PME procurement**
 - **Installation by ESC & organic personnel**
 - **USAFE funds obligated through ESC ITSP contracts & DOE tasking statements to SNL**



Key Program Risks



- **Technical -Software Integreation MODERATE**
 - Mitigation: Rapid Prototyping
- **Funding - LOW**
 - Mitigation: request Advanced Planning Funds for FY00/01 - full program authorization target Mar 01
 - USAFE providing interim O&M funds
- **Schedule - LOW**
 - Mitigation: Quarterly TIM's, monthly reports, Ongoing modeling, simulations & prototyping



Potential Future Risks



- **Technical Risk: NSA Code Processing**
 - Long Term (FY18) support of Code Process to be discussed during meeting with NSA in March
 - Potential Impact: WS3 New Code System
- **Schedule Risk: Host Nation Agreements**
 - NATO Funding Strategy and Installation affected
 - Mitigation: ESC & HQ USAFE/CE/XP to update HNA's
- **Schedule Risk: Test & Nuclear Certification**
 - ESC surfacing AFOTEC support requirements
 - Mitigation: ESC/SNL submitting NSIS



WS3 Modification Schedule



Task Name	1998		1999		2000		2001		2002		2003		2004		2005		20	
	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	
ES/CD Direct Mission Support																		
NATO Type B Estimate for USAFE CE Urgent Funding Request																		
Study & Integration Engineering																		
Establish System Key Performance Parameters (KPP's)																		
Engineering Evaluation of Proposed Modifications																		
Modification Study Report																		
Install Operational Test Bed																		
Validation & Verification of Technical Data																		
FOT&E																		
Nuclear Certification																		
Component Selection (PME & Spares)																		
Procure & Integrate Components																		
Modification Installation all Sites																		
Installation Complete																		
Nuclear Re-Certification Complete																		

FY00 ESC DMS Accomplishments



- **Re-baselined implementation schedule and cost estimates per added NATO Requirements**
- **Supported HQ USAFE/CE at Aviano JFAI, wrote Type "B" estimate & briefed NIS**
- **Completed Operator & Maintainer functional requirements review per AF 1067**
- **Demonstrated Prototype systems**
- **Monitored CPSG Depot support (Dull Swords)**
- **Conducted two NWSSGs during TIMs**



Future DMS Plans



- **Participate in system level functional & integration analysis**
- **Continue broad support for NATO strategy**
- **Refine acquisition strategy per NATO inputs**
- **Provide a sustainment and reprocurement evaluation of suitable COTS hardware**
- **Determine software test fixtures required for FOT&E and nuclear certification**



Program Funding



	00	01	02	03	04	05	06	07	Total
3400 REQ	.9	1.5	1.7	2.0	2.4	1.6			10.1
3400 APPR	.9	1.5	1.7	2.0	2.4	1.6			10.1
DELTA									
Total	.9	1.5	1.7	2.0	2.4	1.6			10.1



Program Funding (cont.)



- **Cost Estimate: \$10.1 M (FY00-05)**
- **USAFE committing 3400 funds**
 - **\$.6M funded in FY00**
 - **\$1.8M unfunded requirement in FY00-01**
 - **\$7.7M programmed in FY02-05**
- **ESC Obligating USAFE Funds through ITSP Contract at ESC and DOE contract with SNL**



FY00 Funds Execution



<u>EFFORT</u>	<u>FY00</u>	<u>PRIOR</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>TOTAL</u>
ITSP SUPPORT	0.170	0.142	0.087							0.399
SANDIA NATIONAL LABS (SNL) SUPPORT	0.250		0.233							0.483
COMPUTERS	0.008									0.000
GOVERNMENT										0.008
TRAVEL	0.009	0.002	0.004	0.004	0.004	0.004	0.004	0.003		0.030
TOTAL	0.438	0.144	0.002	0.324	0.004	0.004	0.004	0.004		0.920
CUM TOTAL	0.438	0.582	0.584	0.908	0.912	0.916	0.916	0.920		
Planned %	47.6%	63.3%	63.5%	98.7%	99.1%	99.6%	99.6%	100.0%		

WS3 Program Manager's Assessment



Categories	Past 3 Mo.			Current Month	Forecast 3 Mo.		
	N	D	J		M	A	M
Performance Characteristics	G	G	G	G	G	G	G
Test & Evaluation	G	G	G	G	G	G	G
Logistics Requirements & Readiness Objectives	G	G	G	G	G	G	G
Cost Performance	G	G	G	G	G	G	G
Funding	G	G	G	G	G	G	G
Schedule Performance	G	G	G	G	G	G	G
Contracts	G	G	G	G	G	G	G
Production	G	G	G	G	G	G	G
Mgt. Structure	G	G	G	G	G	G	G
Roll Up	G	G	G	G	G	G	G
26-Jun-00 Program "On Track" for FY05 completion							



Summary



- **Installation Contract Closeout**
- **WS3 Sustainment Modification Program necessary for continuous operations after FY05**
- **ESC has documented program & DMS requirements**
- **Modification Plan is being executed per schedule**
 - **Full Nuclear Re-certification will be required**
- **Funding committed & programmed by USAFE**
 - **NATO funding authorization process is “on track”**
- **Program scheduled for completion in Q2 FY05**



END OF ESC/FD PMR BRIEFING

FREEDOM OF INFORMATION ACT (FOIA) RESPONSE AND INVOICE

REQUEST DATE 24 May 00	REQUEST NUMBER 00-0111
TO Princeton University Center for Energy and Environmental Studies School of Engineering and Applied Science Attn: Mr. Joshua Handler PO Box CN5263, Princeton, NJ 08544	FROM 66 ABW/SCSF 63 Grenier Street Hanscom AFB, MA 01731-2301

1. REQUESTED RECORDS

<input checked="" type="checkbox"/>	COMPLETELY RELEASED	<input type="checkbox"/>	PARTIALLY RELEASABLE
<input checked="" type="checkbox"/>	DOCUMENTS ARE ATTACHED		
DOCUMENTS WILL BE FORWARDED ON RECEIPT OF PAYMENT			
DOCUMENTS MAY BE VIEWED AT THIS LOCATION (Please call for an appointment)			
TIME EXTENSION IS REQUIRED BECAUSE			
ALL OR PART OF THE REQUESTED RECORDS ARE NOT AT THIS LOCATION			
VOLUMINOUS RECORDS MUST BE COLLECTED AND REVIEWED			
RECORDS ARE BEING REVIEWED BY ANOTHER AGENCY FOR POSSIBLE RELEASE			
WE HOPE TO PROVIDE A FINAL DECISION BY			

2. THE COSTS OF PROVIDING THESE DOCUMENTS ARE INDICATED BELOW

REQUEST ACTIONS	RATE	MATERIAL	TIME	COST
SEARCH (Hourly)				
REVIEW (Hourly)				
COPY (Page)		27		\$0.00
COMPUTER MACHINE TIME (Hourly)				
COMPUTER OPERATOR TIME (Hourly)				
COMPUTER TAPES				
OTHER				
			TOTAL AMOUNT DUE	\$0.00

3. Send your check or money order payable to "US DEPARTMENT OF TREASURY " with a copy of this invoice within 60 days. <i>(Future requests will not be processed until payment is received.)</i>	3A. MAIL TO N/A
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4. THIS ACKNOWLEDGES RECEIPT OF YOUR CHECK OR MONEY ORDER FOR PAYMENT OF REQUESTED DOCUMENTS

NUMBER	DATE	AMOUNT

5. ALL OR PART OF THE INFORMATION YOU REQUESTED IS NOT AVAILABLE AT THIS INSTALLATION. WE HAVE FORWARDED YOUR REQUEST TO THE FOLLOWING LOCATION FOR ACTION WITH DIRECT RESPONSE TO YOU.

6. COMMENTS
Reference your Freedom of Information Act request PRIN00-109 dated 24 May 2000.

7. FREEDOM OF INFORMATION ACT MANAGER

NAME AND PHONE FREDA M. DESMARAIS, Tel: 781-377-8608 Freedom of Information Manager	SIGNATURE <i>Freda M. Desmarais</i>	DATE 30 Jun 00
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