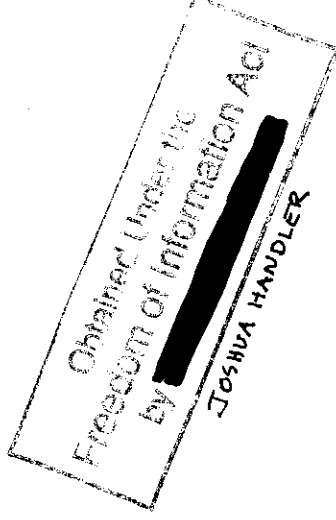
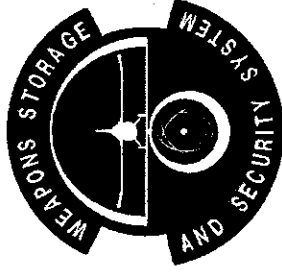




WS3 Sustainment Program



Program Management Review for HQ USAFE/LG

3 March 2000

Paul.Sparaco@hanscom.af.mil

Paul Sparaco
Program Manager
ESC/FD
Hanscom AFB, MA



VTC Agenda



- **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)



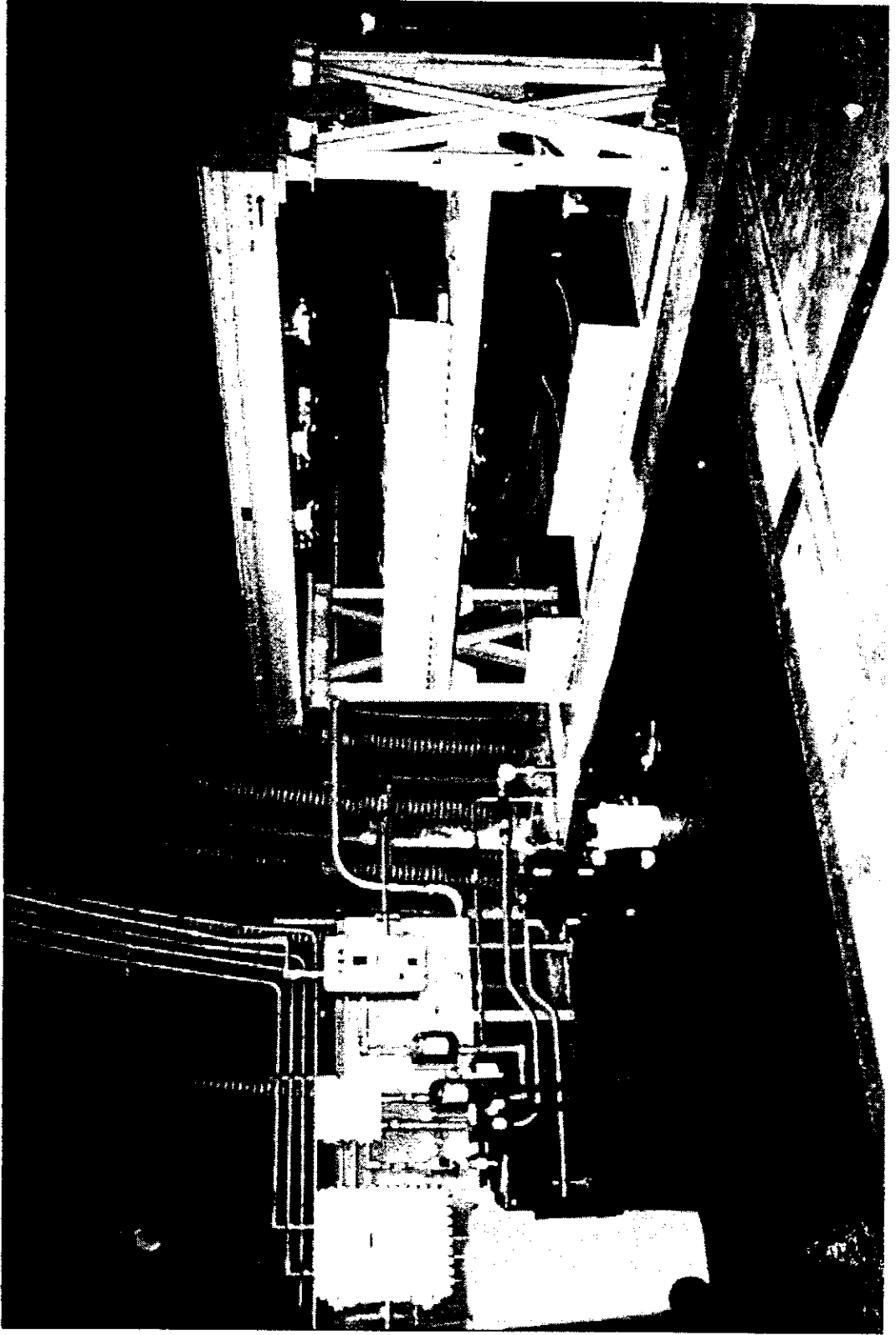
SYSTEM OVERVIEW

WEAPONS STORAGE AND SECURITY SYSTEM (WS3)

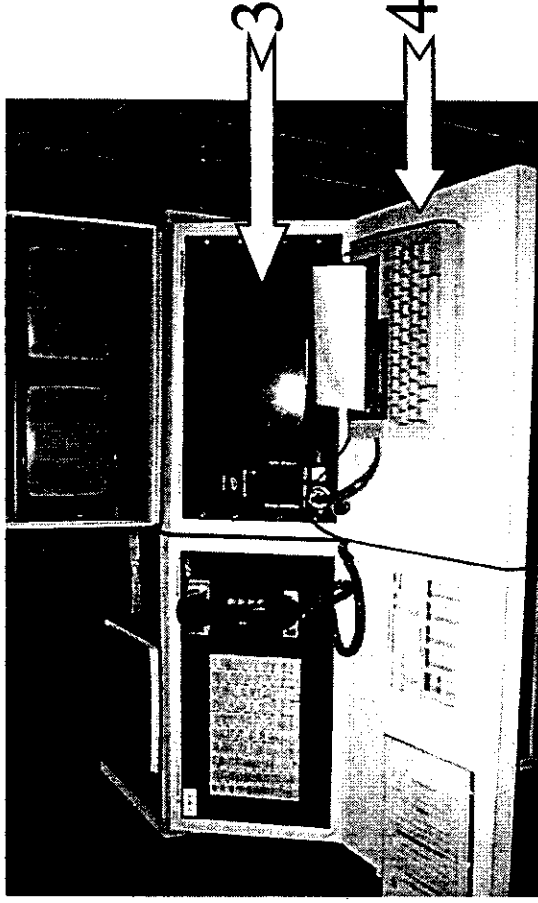
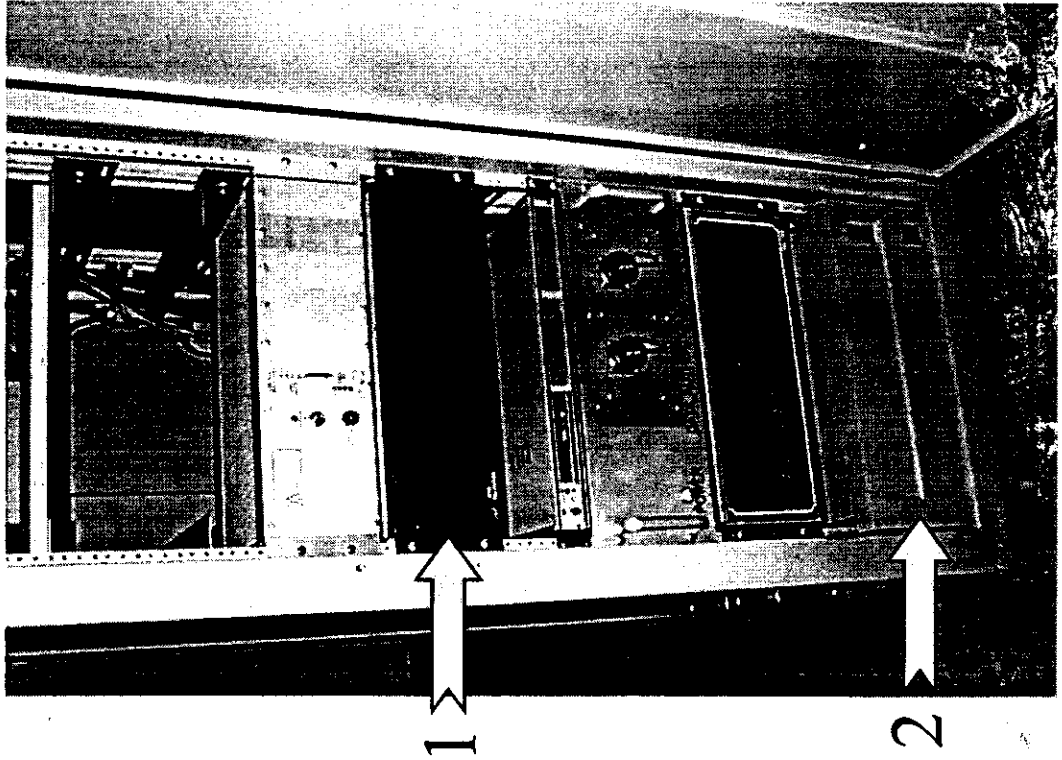


**WS3 IS THE NATO APPROVED STORAGE
SYSTEM FOR THEATER NUCLEAR FORCE
AIR DELIVERED WEAPONS**

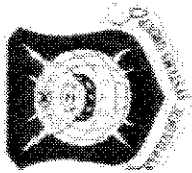
WEAPONS STORAGE AND SECURITY SYSTEM (WS3)



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
Mermmingen (11)	Oct 90
Norvenich (11)	Jun 91
Volkel (11)	Sep 91
Ramstein (64)	Jan 92
Kleine Brogel (11)	Apr 92
Lakenheath (33)	Nov 94
Aviano (18)	Jan 96
Gheddi (11)	Jan 97
Balikesir (6)	Sep 97
Araxos (6)	Sep 97
Akkici (6)	Oct 97
Incirk (25)	Apr 98

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SINCE UNIVERSITY



PMR Overview



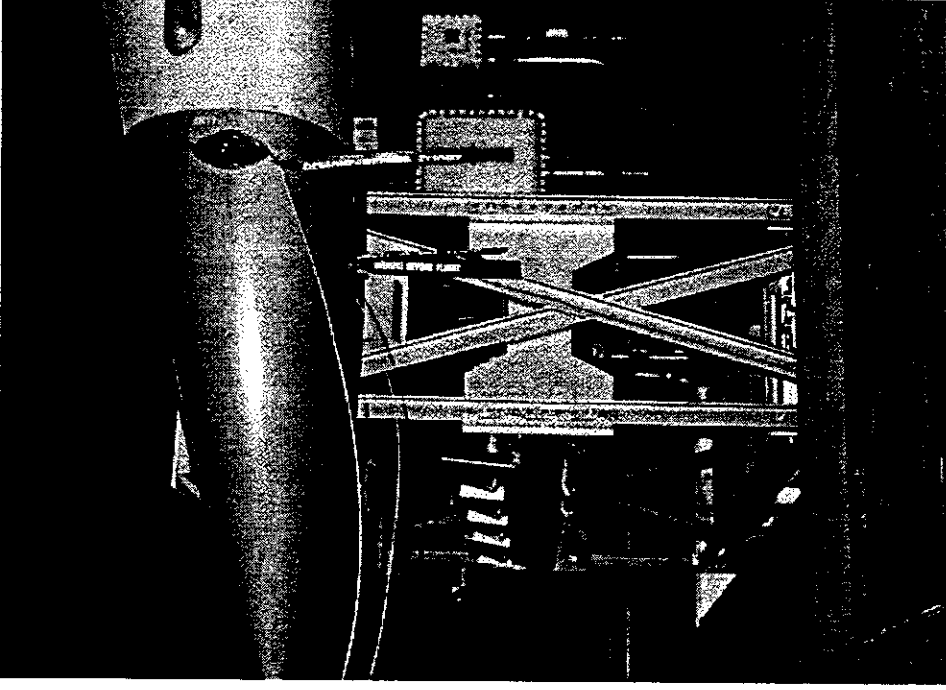
-
- **Purpose**
 - **Background**
 - **Contract Closeout Issues**
 - **WS3 Sustainment Program Objectives**
 - **Requirements**
 - **Roles & Responsibilities**
 - **Modification Plan, Risks & Accomplishments**
 - **Schedule**
 - **Funding**
 - **Program Manager's Assessment & Summary**



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**



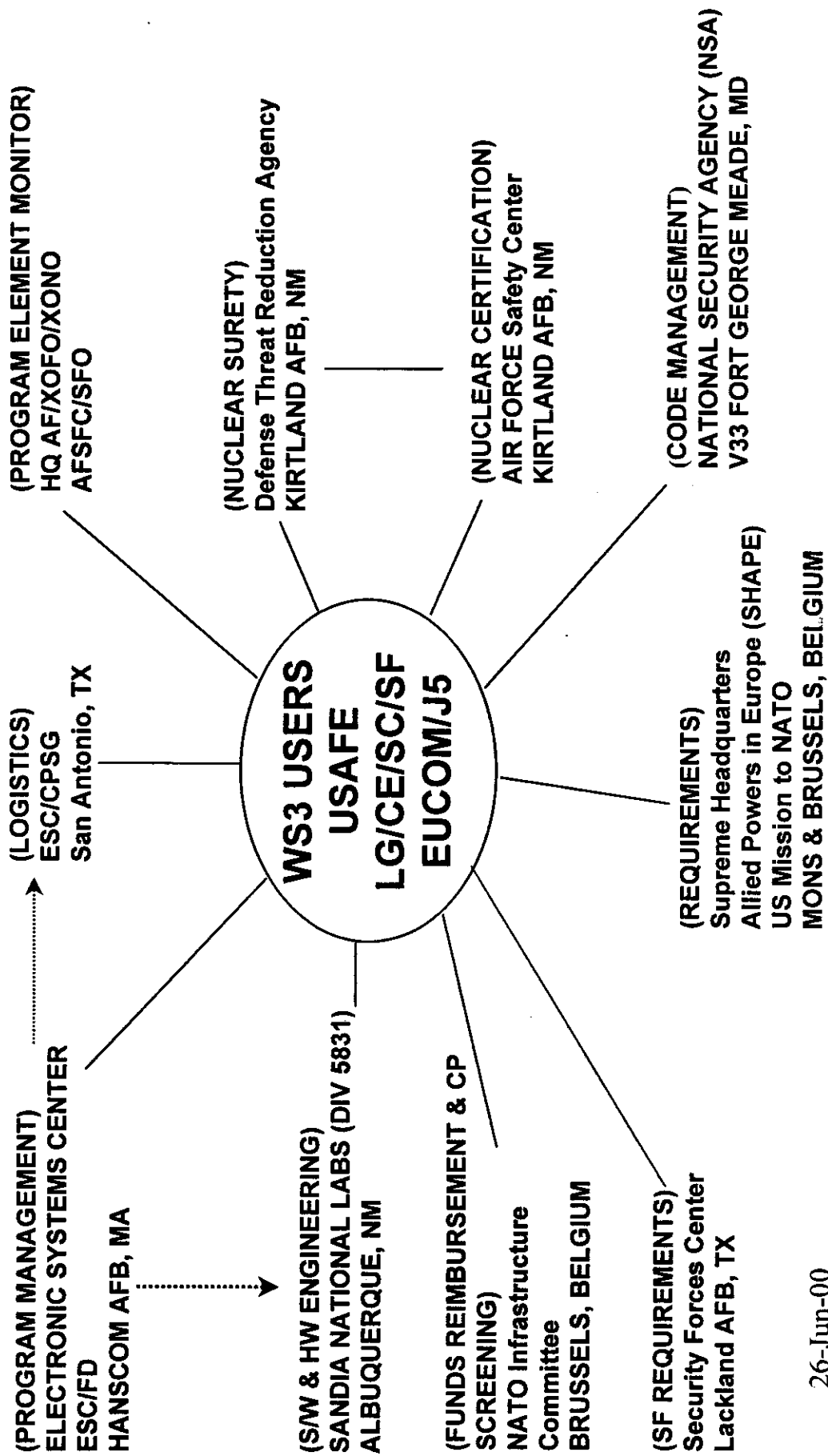
Modification Program Requirements



- **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





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**



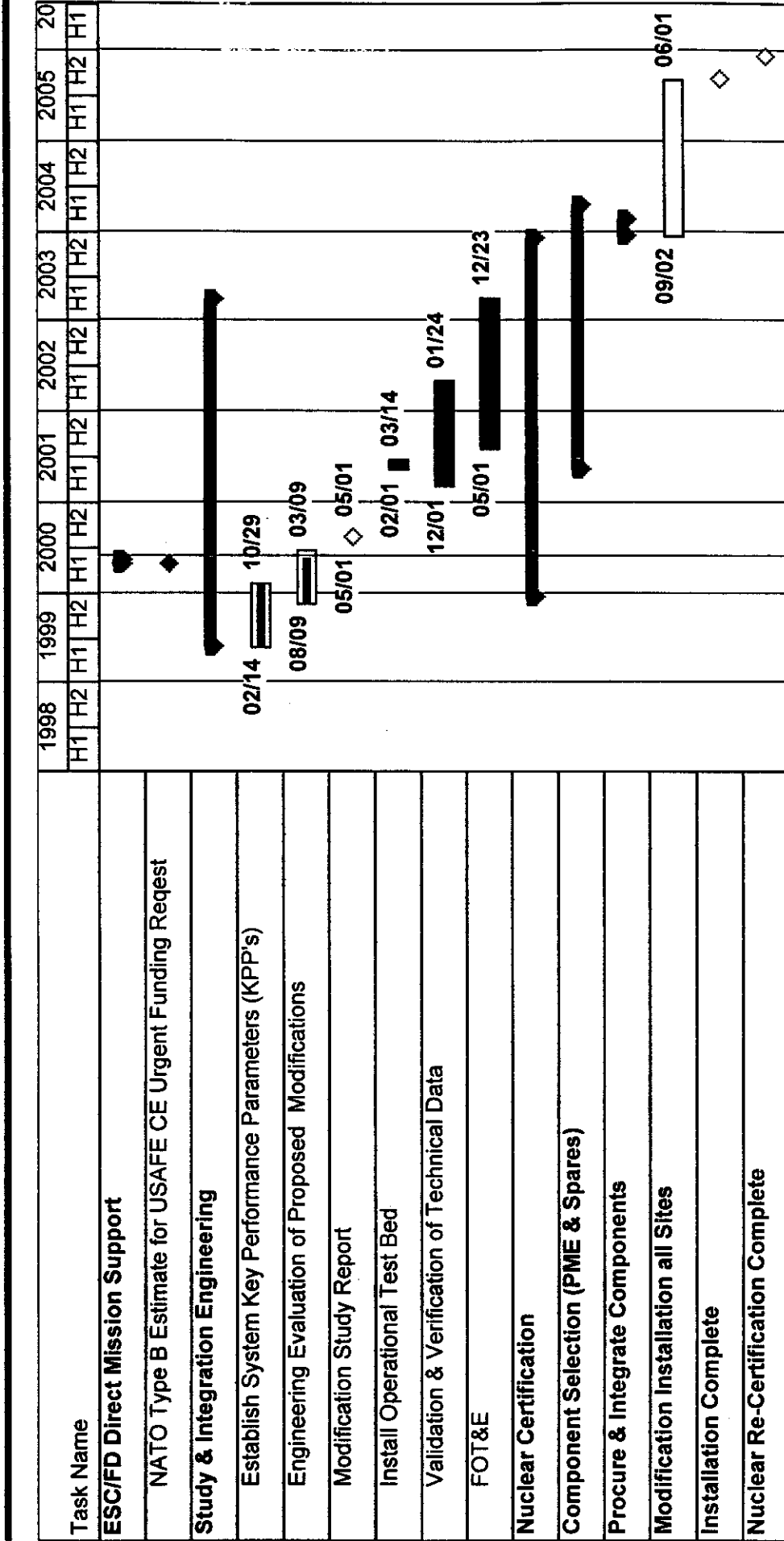
Potential Future Risks



- **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



FY00 ESC DMS Accomplishments



- **Re-baselined implementation schedule and cost estimates per added NATO Requirements**
- **Supported HQ USAFE/CE at Aviano JFAL, 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 reprourement 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	0.004	0.920
CUM TOTAL	0.438	0.582	0.584	0.908	0.912	0.916	0.916	0.920		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		F	M	A
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
Program "On Track" for FY05 completion							
26-Jun-00							



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