

6 OCTOBER 2003

Logistics

**SYSTEM EXECUTIVE MANAGEMENT
REPORT (SEMR)**



COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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OPR: SMC/AXL (Mrs. Kim Hue Nguyen)
Supersedes SMC Instruction 20-1, 26 Mar 01

Certified by: SMC/AX (MR. Thomas Fitzgerald)
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This instruction supplements AFI Instruction 20-104, Logistics SEMR, dated 1 September 1998 and supercedes SMC Instruction 20-1, Logistics SEMR, dated 26 March 2001. It establishes policies and prescribes the tasks and procedures for the submission of the annual SEMR in support of mission requirements. This instruction is applicable to all SMC personnel preparing and submitting SEMRs. The report is prepared by the System Program Office (SPO) Point of Contact (POC) in accordance with the most recent approved template as provided in the tasker by the SMC POC (SMC/AXL) and submitted to HQ USAF/IL.

SUMMARY OF REVISIONS

This publication implements the latest guidance from HQ USAF/ILMY and the SMC Vice Commander (SMC/CV).

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1. POLICY: All SEMR inputs and required coordination will be initiated and monitored by the SPO POC most closely associated with the particular weapon system/project involved. The designated SMC SEMR OPR (SMC/AXL) will initiate, coordinate, and monitor SEMR preparation in accordance with this instruction and HQ USAF/ILMY SEMR requirements.

2. TASKS: To meet the established HQ USAF/IL suspense date, it is crucial that all offices and individuals accomplish their respective tasks within the required timeline.

2.1. The SMC Commander (SMC/CC) is the final approval authority based on responsibility outlined in the space systems portfolio, but may delegate this authority.

2.2. System Program Director (SPD) will:

2.2.1. Coordinate with Lead Commands, and other appropriate agencies.

2.2.2. Approve their weapons system SEMR for submittal to SMC/CC or delegated authority.

2.2.3. Provide SEMR Program Status and SEMR Measurement Criteria to SMC/AXL for Commander or delegated authority review NLT one week prior to SEMR submission (See [Attachment 1](#), pages 6 and 7).

2.2.4. Present SEMR briefing to SMC/CC or delegated authority.

2.3. SPO POC will:

2.3.1. Complete their SEMR using the approved template as provided by the SMC SEMR OPR (SMC/AXL) (See [Attachment 1](#)).

2.3.2. Coordinate the SEMR preparation schedule with the designated SMC SEMR OPR (SMC/AXL).

2.3.3. Coordinate entire SEMR content with Lead Commands, and other appropriate agencies involved with their product.

2.3.4. Develop/maintain an instruction for each weapon system or create an attachment to the SMC instruction to identify their internal procedures for SEMR preparation.

2.3.5. Reconcile all Lead Commands' and other agencies' issues/concerns.

2.4. SMC SEMR OPR (SMC/AXL) will:

2.4.1. Interpret and distribute the latest SEMR guidance and policy from HQ USAF/IL, and SMC/CC or delegated authority.

2.4.2. Issue the SEMR tasker message to each SPO POC prior to the start of the associated SEMR time period to include the format to be used for the briefing to SMC/CC or delegated authority.

2.4.3. Provide detailed timeline to SPO POCs for SEMR submission prior to the start of the SEMR generation process.

2.4.4. Assist SPO POCs in resolving issues between HQ USAF/IL, Lead Commands and other agencies.

2.4.5. Facilitate and update the SMC SEMR generation process (See [Attachment 2](#)).

2.4.6. Coordinate with SPO POCs to schedule the SPD's SEMR briefing to the SMC/CC or delegated authority.

3. PROCEDURES: The SPO POC will use the following guidance in preparing their SEMR.

3.1. Identify appropriate second tier indicators and provide data depicting second tier indicators for each system. Second tier indicators represent the detailed data needed to assign stoplight assessments to the first tier indicators as requested by SMC/CC (See [Attachment 1](#), pages 8 and 9).

3.2. Provide an assessment of the following standard SEMR first tier indicators using the standard SEMR color codes. This assessment is in the form of a “stoplight” rating of either green, yellow or red. A Green (G) rating is assigned when the indicator/system has minor system/readiness issues, but can meet programmed operational requirements. A Yellow (Y) rating depicts significant system/readiness issues, but can still meet programmed operational requirements. A Red (R) rating is given when an area or weapon system has major system/readiness issues that limit or prevent the system from meeting programmed operational requirements. An up/down arrow is given when an area or weapon system is getting better/worse.

3.2.1. Current combat readiness indicator

3.2.2. System performance indicator

3.2.3. Depot level indicator

3.2.4. Funding indicator

3.3. Provide an Overall Assessment color code, using the assessment color code guidance provided in para [3.2.](#), based upon a compilation of all category and indicator ratings, as well as subjective information from the SPD.

3.4. For ratings of other than Green (i.e. Green down arrow, Yellow, or Red), explain the problems/issues and actions required to make the system Green.

4. SUBMISSION OF SEMR INPUTS (See [Attachment 2](#)):

4.1. SEMR Data Call from HQ USAF/IL thru SMC/AXL.

4.2. SMC/AXL will send the tasker message to all SPO POCs (usually April timeframe for SMC weapon systems) to include the format of briefing to be prepared for the SMC/CC or delegated authority.

4.3. SPO POC will prepare their SEMR based on the inputs from their team using the approved template and the SEMR briefing for the SMC/CC or delegated authority.

4.4. SPO POC will obtain coordination on the report from their respective SPD.

4.5. SPO POC will coordinate their SEMR with their Lead Commands/other appropriate agencies.

4.6. SPO POC will reconcile Lead Commands/Agency issues/concerns.

4.7. SPO POC will coordinate the final SEMR with their respective SPD.

4.8. SPO POC will submit an electronic SEMR to SMC/AXL for SMC consolidation of the SEMR into the SMC SEMR for presentation to SMC/CC or delegated authority.

4.9. SPD will brief their SEMR status to SMC/CC or delegated authority.

4.10. SMC/AXL will prepare the SMC SEMR package for SMC/CC review.

4.11. SMC/AXL will provide a copy of the SMC approved SEMR to HQ USAF/IL.

4.12. AXL will provide a copy of the transmitted SEMR to all SPO POCs for their official files.

CRAIG R. COONING
Major General, USAF Vice Commander

Attachment 1

SEMR APPROVED TEMPLATES

Headquarters U.S. Air Force

Integrity - Service - Excellence

Program Name

System Executive Management Report (SEMR) - 2003

Data as of 31 March 2003



U.S. AIR FORCE

Briefer Name
Office Symbol

**For Official Use Only (FOUO)
 Future Years Defense Program (FYDP)
 Space Superiority
 Program Name
 2003**

	2003	2004	2005	2009
Current Assessment	G	G	G	G
Combat Readiness Indicators	G	G	↓ G	G
System Performance Indicator	G	G	↓ G	G
Depot Level Indicators	G	Y	G	G
Funding Indicators	G	R	G	G
Security Classification Check	Signed _____			
This Assessment has been coordinated with	Signed _____ LEAD COMMAND			
Signed _____	Signed _____ SINGLE MANAGER			
	PEO			

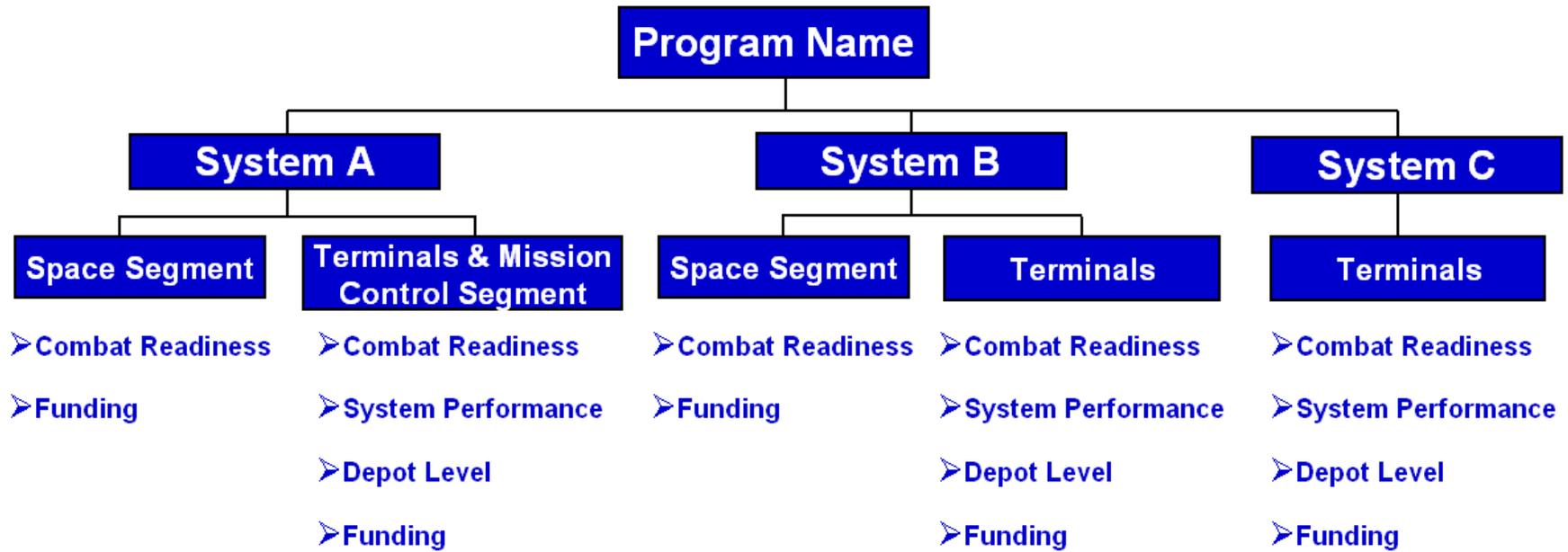


U.S. AIR FORCE

Program Tree

SMC SEMR

SMCI20-1 6 OCTOBER 2003



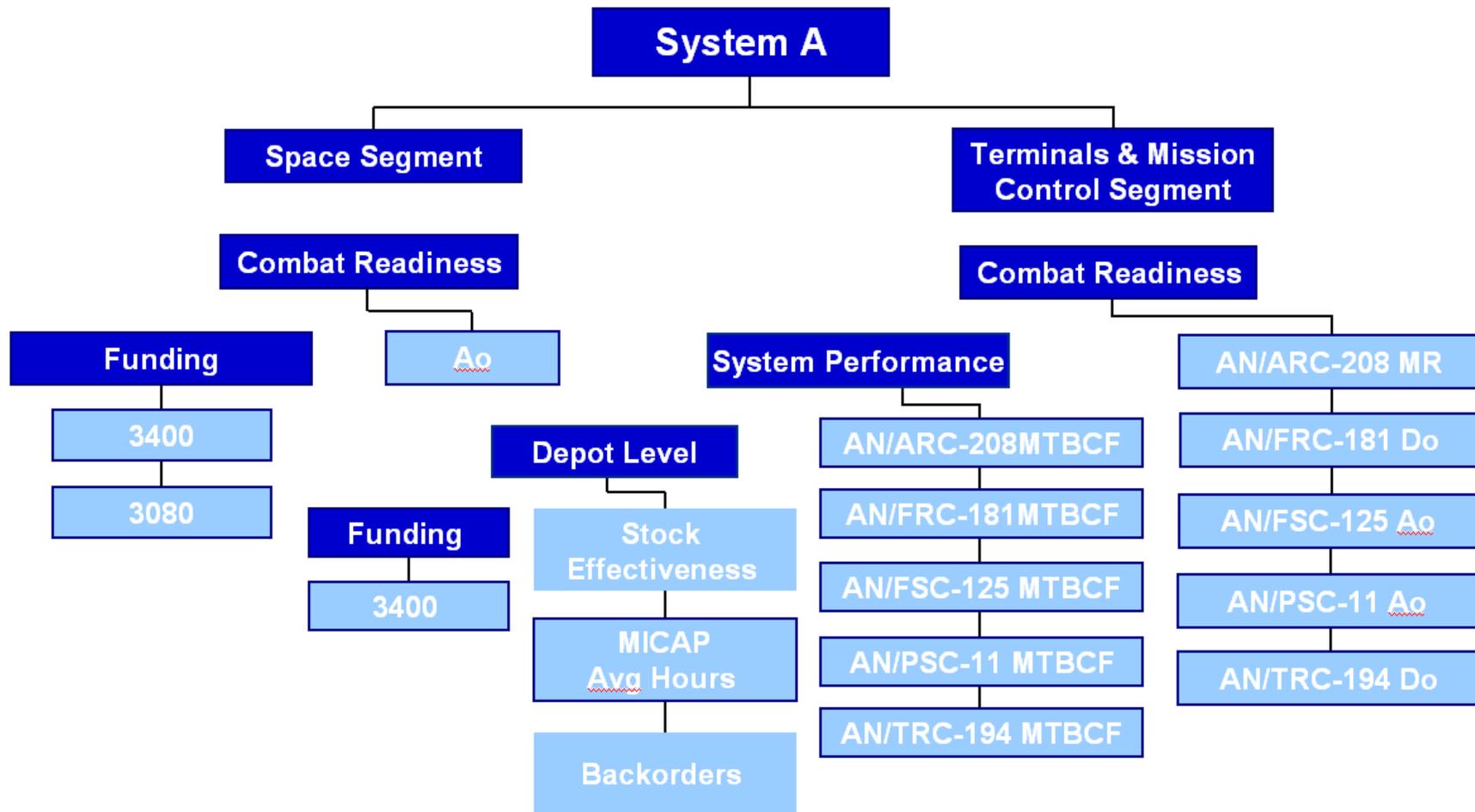


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Program Tree (Con't)

SMC SEMR

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U.S. AIR FORCE

Overall Program Status

SMC SEMR

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	History	History	Current	Projected	Projected	Projected
Program Name	2001/2	2002/02	2003/2	2004	2005	2009
Overall	G	G	G	G	G	G
System A Overall	G	G	G	<u>Y</u>	<u>Y</u>	G
System B Overall	G	G	G	G	G	G
System C Overall	G	G	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>

Note: Add a hyperlink from a program status chart to issue chart for any assessment that is rated less than "Green"



U.S. AIR FORCE

System A Space Segment

SMC SEMR

	History	History	Current	Projected	Projected	Projected
System A Space Seg	2001/2	2002/2	2003/2	2004	2005	2009
OVERALL	G	G	G	G	G	G
Combat Readiness	G	G	G	G	G	G
- Satellite Ao	G	G	G	G	G	G
Funding	G	G	R	G	G	G
- 3600	G	G	G	G	NA	NA
- 3400	NA	NA	R	G	G	G



U.S. AIR FORCE

System A Space Segment

SMC SEMR

Measure	G	Y	R
Combat Readiness Indicators			
- Satellite Ao	0.99	<0.99 to 0.95	<0.95
Funding			
- 3400	0.90	<0.90 to 0.80	<0.80
- 3080	0.90	<0.90 to 0.80	<0.80



U.S. AIR FORCE

System A Terminals & Mission Control Segment

SMC SEMR

	History	History	Current	Projected	Projected	Projected
System A Terminals	2001/2	2002/2	2003	2004	2005	2009
OVERALL	G	G	G	Y	Y	G
Combat Readiness	G	G	G	Y	Y	G
- ANARC-208 MR	G	Y	Y	Y	Y	G
- ANFRC-181 Do	G	Y	Y	Y	Y	Y
- ANFSC-125 Ao	G	G	G	G	G	G
- ANFSC-11 Ao	G	G	G	G	G	G
- ANTRC-194 Do	G	Y	Y	Y	Y	G
System Performance	G	G	G	G	G	G
- ANARC-208 MTBCF	G	G	G	G	G	G
- ANFRC-181 MTBCF	G	G	G	G	G	G
- ANFSC-125 MTBCF	G	G	G	G	G	G
- ANFSC-11 MTBCF	G	G	G	G	G	G
- ANTRC-194 MTBCF	G	G	G	G	G	G
Depot	G	G	G	G	G	G
- Stock Effectiveness	G	G	G	G	G	G
- MICAP Average Hours	G	G	G	G	G	G
- Backorders	G	G	G	G	G	G
Funding	Y	G	R	G	G	G
- 3400	Y	G	R	G	G	G



U.S. AIR FORCE

System A Terminals & Mission Control Segment

SMC SEMR

Measure	G	Y	R
Combat Readiness			
- AN/ARC-208 MR	0.95	<0.95 to 0.91	<0.91
- AN/FRC-181Do	0.99	<0.99 to 0.97	<0.97
- AN/FSC-125 Ao	0.96	<0.96 to 0.90	<0.90
- AN/PSC-11 Ao	0.99	<0.99 to 0.90	<0.90
- AN/TRC-194 Do	0.99	<0.99 to 0.96	<0.96
System Performance			
- AN/ARC-208 MTBCF	175	<175 to 165	<165
- AN/FRC-181 MTBCF	375	<375 to 355	<355
- AN/FSC-125 MTBCF	600	<600 to 400	<400
- AN/PSC-11 MTBCF	600	<600 to 400	<400
- AN/TRC-194 MTBCF	325	<325 to 300	<300
Depot			
- Stock Effectiveness	0.85	<0.85 to 0.70	<0.70
- MICAP Average Hours	96	>96 to 240	>240
- Backorders	232	>232 to 348	>348
Funding			
-3400	0.90	<0.90 to 0.80	<0.80



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SPD Assessment ***SMC SEMR***

- Address any assessment that is rated less than “Green”
- Identify which indicator/sub-indicator and color rating (i.e. green down arrow, yellow or red)
- Address an issue for a problem
- Address an impact for a problem/issue
- Identify an action plan/resolution to make the system green



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SMC SEMR

Back-Up



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System A Space Segment Overall 3400 Funding FY03 (AFSPC FINPLAN)



FUNDING
SMC SEMR

Issue: Funding is \$16.1M short of meeting validated System A requirements

Impact: Requirements increased 14% from \$41.5M in FY02 to \$47.4M in FY03. Increase is due to transition of 049 contract tasks and ACMS to sustainment. In FY03, funding decreases by 18% from \$38.2M in FY02 to \$31.3M (est.) in FY03 - only 66% of requirements.

Resolution: Information Only – FY03 un-funded requirements submitted to AFSPC



U.S. AIR FORCE

System A Terminals & Mission Control Segment

SMC SEMR

	History	History	Current	Projected	Projected	Projected
System A Terminals & C	2001/2	2002/2	2003/2	2004	2005	2009
OVERALL	G	G	G	Y	Y	G
Combat Readiness	G	G	G	Y	Y	G
System Performance	G	G	G	G	Y	G
Depot	G	G	G	G	G	G
Funding	Y	G	R	G	G	G



U.S. AIR FORCE

System B Space Segment

SMC SEMR

	History 2001/2	History 2002/2	Current 2003/2	Projected 2004	Projected 2005	Projected 2009
System B Space Seg						
OVERALL	G	G	G	G	G	G
Combat Readiness	G	G	G	G	G	G
- Primary Satellite Channels Avail	Y	Y	Y	Y	G	G
Funding	G	G	G	G	G	G
- 3020	G	G	G	G	G	NA
- 3400	NA	NA	NA	NA	NA	G



U.S. AIR FORCE

System B Space Segment

SMC SEMR

SMCI20-1 6 OCTOBER 2003

Measure	G	Y	R
Combat Readiness			
- Satellite Channel Availability	30	<30 to 25	<25
Funding			
- 3020	0.90	<0.90 to 0.80	<0.80
- 3400	0.90	<0.90 to 0.80	<0.80



U.S. AIR FORCE

System B Terminals

SMC SEMR

SMCI20-1 6 OCTOBER 2003

System B Terminals	History 2001/2	History 2002/2	Current 2003	Projected 2004	Projected 2005	Projected 2009
OVERALL	G	G	G	G	G	G
Combat Readiness	G	G	G	G	G	G
- AN/GSC-39 Ao	G	G	G	G	G	G
- AN/GSC-49 Ao	Y	Y	Y	Y	Y	Y
- AN/GCS-52 Ao	G	G	G	G	G	G
- AN/FSC-78 Ao	G	G	G	G	G	G
- AN/TSC-85 Ao	G	G	G	G	G	G
- AN/TSC-100 Ao	G	G	G	G	G	G
System Performance	G	G	G	G	G	G
- AN/GSC-39 MTBF-1	G	G	G	G	G	G
- AN/GSC-49 MTBF-1	Y	Y	Y	Y	Y	Y
- AN/GCS-52 MTBF-1	G	G	G	G	G	G
- AN/FSC-78 MTBF-1	G	G	G	G	G	G
- AN/TSC-85 MTBF-1	G	G	G	G	G	G
- AN/TSC-100 MTBF-1	G	G	G	G	G	G
Depot **	G	G	G	G	G	G
- Stock Effectiveness	G	G	G	G	G	G
- MICAP Average Hours	G	G	G	G	G	G
- Backorders	G	G	G	G	G	G
Funding	G	G	G	G	G	G
- 3400	G	G	G	G	G	G



U.S. AIR FORCE

System B Terminals

SMC SEMR

Measure	G	Y	R
Combat Readiness			
- AN/GSC-39 Ao	0.99	<0.99 to 0.90	<0.90
- AN/GSC-49 Ao	0.99	<0.99 to 0.90	<0.90
- AN/GCS-52 Ao	0.99	<0.99 to 0.90	<0.90
- AN/FSC-78 Ao	0.99	<0.99 to 0.90	<0.90
- AN/TSC-85 Ao	0.85	<0.85 to 0.75	<0.75
- AN/TSC-100 Ao	0.85	<0.85 to 0.75	<0.75
System Performance			
- AN/GSC-39 MTBF-1	1000	<1000 to 500	<500
- AN/GSC-49 MTBF-1	1000	<1000 to 500	<500
- AN/GCS-52 MTBF-1	2550	<2550 to 1500	<1500
- AN/FSC-78 MTBF-1	1000	<1000 to 500	<500
- AN/TSC-85 MTBF-1	2000	<900 to 500	<500
- AN/TSC-100 MTBF-1	1000	<900 to 500	<500
Depot			
- Stock Effectiveness	0.85	<0.85 to 0.70	<0.70
- MICAP Average Hours	120	>120 to 240	>240
- Backorders	23	>23 to 35	>35
Funding			
-3400	0.90	<0.90 to 0.80	<0.80



U.S. AIR FORCE

System C Terminals

SMC SEMR

System C Terminals	History 2001/2	History 2002/2	Current 2003/2	Projected 2004	Projected 2005	Projected 2009
OVERALL	G	G	R	R	R	R
Combat Readiness	G	G	R	R	R	R
- AN/FSC-97 A0	G	G	G	G	G	G
- AN/FSC-111 A0	G	G	R	R	R	R
- AN/GSR-42 A0	G	G	G	G	G	G
System Performance	G	G	G	G	G	G
- AN/FSC-97 MTBF-1	G	G	G	G	G	G
- AN/FSC-111 MTBF-1	G	G	G	G	G	G
- AN/GSR-42 MTBF-1	G	G	G	G	G	G
Depot	G	G	G	Y	R	R
- Stock Effectiveness	G	G	G	Y	R	R
- MICAP Average Hours	G	G	G	Y	R	R
- Backorders	G	G	G	Y	R	R
Funding	R	R	R	R	Y	Y
- 3400	R	R	R	R	Y	Y



U.S. AIR FORCE

System C Terminals

SMC SEMR

Measure	G	Y	R
Combat Readiness	Data is Undergoing Security Classification Review		
- AN/FSC-97 Ao			
- AN/FSC-111 Ao			
- AN/GSR-42 Ao			
System Performance			
- AN/FSC-97 MTBF-1			
- AN/FSC-111 MTBF-1			
- AN/GSR-42 MTBF-1			
Depot			
- Stock Effectiveness	0.85	<0.85 to 0.70	<0.70
- MICAP Average Hours	96	>96 to 240	>240
- Backorders	45	>45 to 68	>68
Funding			
-3400	0.90	<0.90 to 0.80	<0.80



U.S. AIR FORCE

System A Space Segment 3400 Funding FY03 (AFSPC FINPLAN)

R

FUNDING

SMC SEMR

Issue: \$8.2M 3400 funding shortfall projected for FY03 in System A transition to sustainment (systems engineering and integration support and baseline management)

Impact: Loss of system configuration baselines violating Operational Safety, Suitability and Effectiveness (OSS&E) requirements, due to lack of capability to perform engineering analysis of deficiency reports and modification proposals and to update system and segment level specifications, interface control documents, and the system requirements baseline

System A Block II development contract funds these activities through Dec 02 based on most current launch forecast – no coverage for remaining 3 quarters of FY03

Resolution: Information Only - FY03 unfunded requirement (UR) submitted to AFSPC (\$3.9M in EEIC 583, \$4.3M in EEIC 578)



U.S. AIR FORCE

System A Terminals Problem

AN/FRC-181(Fixed), AN/TRC-194 (Mobile)
& AN/ARC-208 (Airborne)



COMBAT READINESS

SMC SEMR

Issue: Due to the complexity of the Command Post Terminal (multiple embedded processors and firmware), built in test (BIT) cannot isolate faults within 5 large ambiguity groups, each consisting of up to 14 line replaceable units (LRUs).

Impact: Current operations require rapid restoral to operational status following an outage. BIT limitations drive maintainers to replace entire ambiguity groups to meet operational requirements. This expends scarce repair dollars and floods the depot repair pipeline with items which do not require repair, but must be tested at the depot to assure serviceability, and results in delayed requisition fills.

Resolution: Accomplish Phase II proof-of-concept of a portable test system to complement the built-in-test capability of the Terminal Command Post Terminal (out-of-cycle FY03 \$2.2M EEIC 583 requirement).



System A Terminal 3400 Funding FY03 (AFSPC FINPLAN)

R

FUNDING

SMC SEMR

Issue: \$3.3M 3400 funding shortfall projected for FY03 in support of System A Command Post Terminal software maintenance

Impact: Current funding level is only 57% of requirement to complete transition from contractor to organic support in accordance with approved source of repair assignment process (SORAP) document

Resolution of CLASSIFIED CAT I deficiency report (DR) will be delayed, impacting strategic command and control mission accomplishment (details in CLASSIFIED DR)

Resolution: Information Only - FY03 unfunded requirement (UR) submitted to AFSPC (EEIC 540)



U.S. AIR FORCE

System A Terminal & Control Segment

3400 Funding - FY03 (AFSPC FINPLAN)

R

FUNDING

SMC SEMR

Issue: \$4.6M 3400 funding shortfall projected for FY03 in support of System A Control Segment software maintenance

Impact: Current funding level is only 75% of requirement – eliminates capability to accomplish software block changes, and severely limits capability to correct CAT I deficiency reports (DRs) within specified response times

Risks loss of command and control of the single-threaded survivable satellite communications system, with resultant loss of strategic communications required by the President, Secretary of Defense, Chairman of the Joint Chiefs of Staff, and the Unified Commanders in Chief (CINCs) during a National Emergency

Resolution: Information Only - FY03 unfunded requirement (UR) submitted to AFSPC (EEIC 540)



System B Satellite Primary Channel Availability (01-05)



SMC SEMR

Issue:

- 29 of the 30 (JCS Rqmt) Primary Channels are currently available
- Project Loss of 1 additional Primary Channel before B6 is operational (Exacerbated by EELV launch delays) and one more Primary Channel before A3 is operational

Impact:

- Current – partial loss of communication capability for one CINC
- Projected – partial loss of communication capability for CENTCOM & EUCOM

Resolution:

- Launch and Deploy B6 (13 Nov 02 “Range Date”) – In Service Mar 03
- Launch and Deploy A3 (12 Jun 03 “Range Date”) – In Service Oct 03
- Streamline on-orbit test and faster drift rate to operational locations

Note: A3 Launch may be switched with B6



U.S. AIR FORCE

System B AN/GSC-49 Ao & MTBF-1



SMC SEMR

Issue: System is 15 years old and stocked items are increasingly difficult to support due to parts obsolescence

Impact: Increased re-supply lead times; Additional depot reclamation of spare parts

Resolution:

- DISA planned to retire GSC-49 terminals starting in FY02, but, real world requirements causing delays
- Tobyhanna Army Depot performing innovative repairs/reuse
- Jam-Resistant capability picked up by other terminals

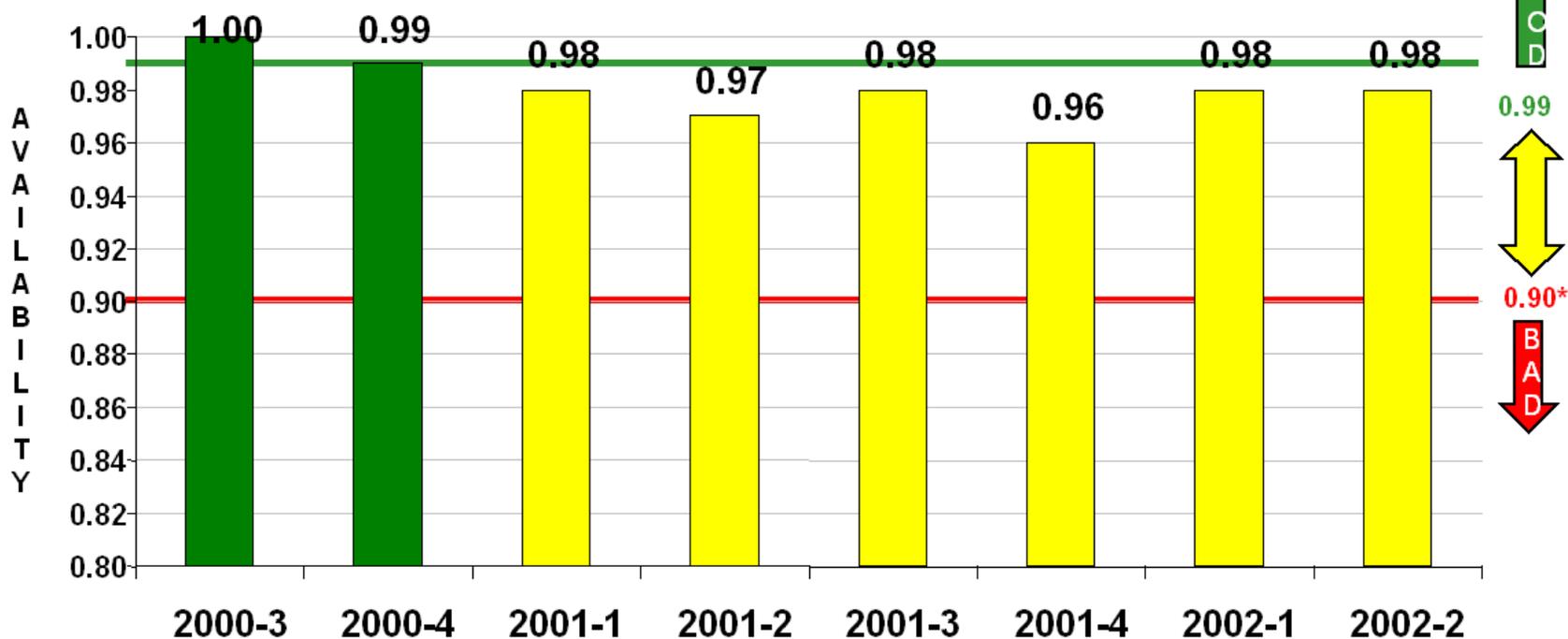


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System B Terminals Combat Readiness Indicator Operational Availability (Ao) AN/GSC-49

Y

SMC SEMR



* AN/GSC-49 Operational Availability (Ao) Threshold is 0.90

Data Source: Air Force REMIS Database

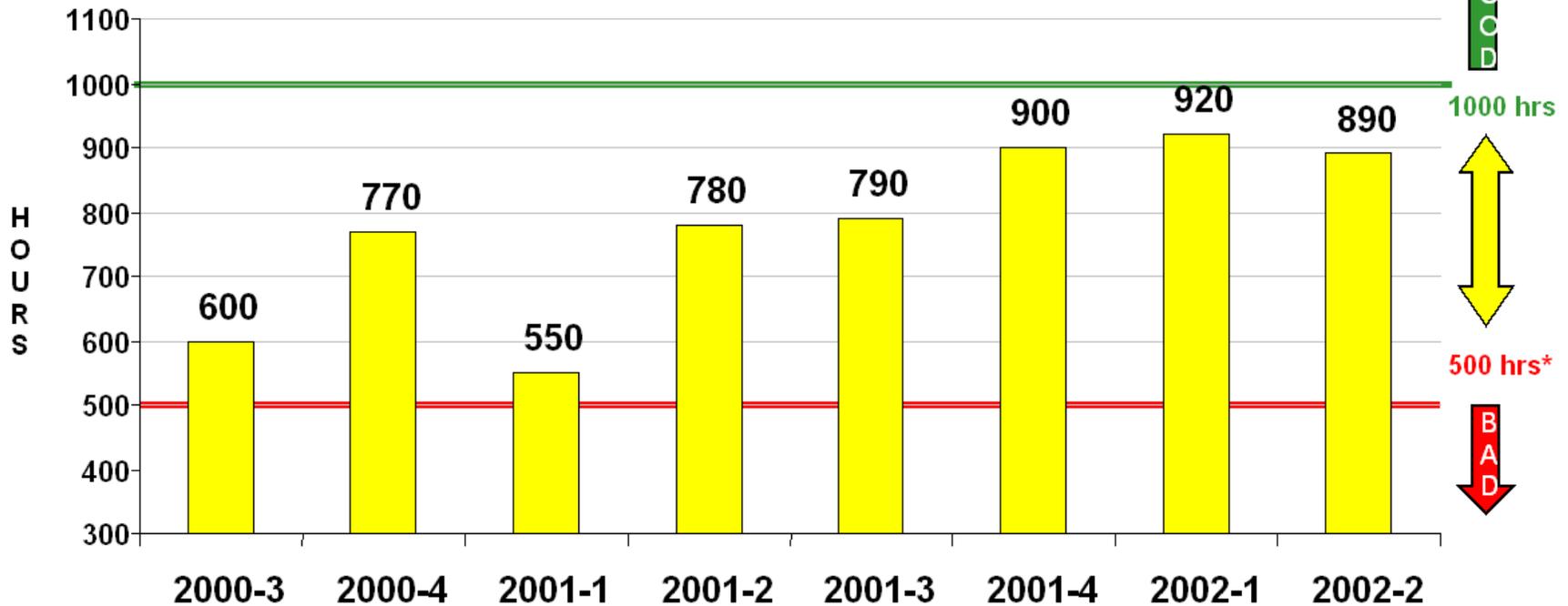


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System B Terminals System Performance Indicator Mean Time Between Failure (MTBF) AN/GSC-49



SMC SEMR



* AN/GSC-49 Mean Time Between Failure (MTBF) Threshold is 500 hours



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System C Combat Readiness



SMC SEMR

Issue: CLASSIFIED

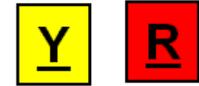
Impact: CLASSIFIED

Resolution: CLASSIFIED



U.S. AIR FORCE

System C Overall, Depot and Funding



SMC SEMR

Issue: ICBM SHF Satellite Terminal (ISST) Sustaining Engineering Requirements Plan (SERP) is unfunded (EEIC 583)

Impact: Failure to fund this requirement will prevent ISST life extension upgrades from being identified and implemented and may result in a decline in mission readiness in support of its Strategic Nuclear Mission

Resolution: AFSPC provide required funds NLT Jun 2002 to allow adequate time to develop study and recommendations

Attachment 2

SMC SEMR PROCESS

