

SES-032-88  
19 February 1988

MEMORANDUM FOR: Distribution

THROUGH: Chief, Headquarters Engineering Division, ESG

FROM: Jennifer C. Thomas  
System Engineering Support, GE

SUBJECT: Operational ERB Meeting Report

1. The Operational Engineering Review Board was held on 18 February 1988 at 1330. See Attachment A for a list of attendees. See Attachment B for the Agenda.

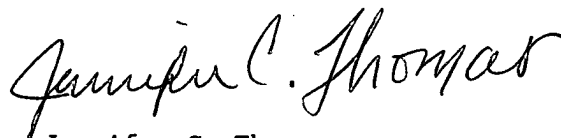
2. Three new DR's were discussed. See Attachment C for a description of these DR's. One Critical DR was also discussed and is part of the new DR's.

3. The O-ERB reviewed five In Progress DR's. See Attachment D for a description of those DR's. The status updates from the ERB are also incorporated.

4. One new RFC was discussed. One Walk-on RFC was also discussed. See Attachment E for a description of these RFC's. See Attachment F for the current status of the In Progress DR's.

5. One New BR and one Walk-on BR were discussed. See Attachment G for a description of these RFC's.

7. The next Operational ERB is scheduled for Thursday, 25 February 1988 at 1330.

  
Jennifer C. Thomas

Attachments

SES-032-88

SUBJECT: Operational ERB Meeting Report

FBIS/ESG/ADD/SES:J.C.Thomas:cg/733-5937(19FEB88)

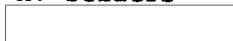
Distribution:

- 1 - C/ESG
- 1 - C/HED
- 1 - CMO/HED
- 1 - C/FED
- 1 - C/PROD
- 1 - C/ADD
- ADD Staff
- 1 - C/AFSB
- 1 - C/OPS
- 1 - C/DRD/OPS
- 1 - C/WSS/DRD/OPS
- 1 - C/ME/DRD/OPS
- 1 - SAM/PROD
- 1 - SA/OPS
- 1 - W. Pratt, COTR
- 1 - LEC, Plainfield
- 1 - LEC, D. Higgins
- 1 - LEC, E. Brewer
- 1 - LEC, Reston
- 1 - GE/SES Staff
- Original - GE/SES Chrono

ATTACHMENT A

O-ERB Attendees:

B. Hunter  
J. Wisor  
A. Sellers



B. Stanbridge  
H. Tate  
J. Cherry  
J. Thomas  
D. Bernholz  
A. Frost  
S. Shelton  
D. Higgins  
P. Viveiros

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## Discrepancy Report Agenda

## Critical Discrepancy Reports

DR NO	Status	Priority	Originator
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CO-DR -E-011-88	New	A	C. Jones/HED

## Discrepancy Report Agenda

17 February 1988

## New Discrepancy Reports

DR NO	Status	Priority	Originator
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HU-DR -E-003-88	New	C	H. Tata/WSS
HU-DR -E-004-88	New	B	R. Lehman/DC/WSS

## Discrepancy Report Agenda

17 February 1988

## Discrepancy Reports in Progress

DR NO	Status	Priority	Actionee
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HU-DR -E-004-87	T/I	C	A. Fields/ESG
HU-DR -E-025-87	T/I	C	D. Higgins/LEC
HU-DR -E-107-87	Open	B	ATEX
CO-DR -E-001-88	T/I	B	LEC
CO-DR -E-002-88	Open	B	E. Brewer/LEC

## Request for Change Agenda

17 February 1988

## New Requests for Changes

RFC NO	Status	Priority	Originator
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HU-RFC-E-006-88	NEW	B	A. Fields/ESG



**FBIS  
Discrepancy Report**

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**Problem Identification:**

C/WSSLogon OA-- Three Programmed Keys Do Not Work  
DR Number: HU-DR -E-003-88    Submit Date: 02-16-1988    Category:  
Problem Date: 02-11-1988    Problem Time:    Priority: C

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**System:**    **Subsystem:** ATEX  
**Hardware Configuration:**

**Model #:**  
**Serial #:**

**Software Configuration:**

**Application:**  
**Version:**

**Database:**  
**Procedure:**  
**Affected Documents:**  
    **Title:**

**Number:**

**Scenario:**  
**Prior Operations:**

**Location:**

**Originator:** H. Tate/WSS  
**Approval for Submittal:**

**Phone:**  
**Date:**

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**Problem Description:**

Programmed keys READ AD, READ OP, and C/WS under the OA logon elicit the message  
- NO PROGRAM SAVED.

**Analysis:**

**Corrective Action:**

)A logon did not have OA.P33,OA.P35, and OA.P65, READ AD, READ OP, and C/WS respectively. I have copied these over for him and they appear to be functioning correctly.

**References/Documentation:**

ATEX System Manager Manual p. 1-32.

**Impact:**

**Related Problems:**

**Action Completed By:**

**Approval:**

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**Status:** Closed    **Date Due:** 02-18-1988  
**Status Msg:** This is a resubmission.

**Date Closed:** 02-18-1988  
**Actionee:**  
B. Baker/HED



FBIS  
DR Status Report

ATTACHMENT D  
18 February 1988

DR NO PRIORITY	TITLE	DATE LOGD DUE DATE	ORIGINATOR ACTIONEE	STATUS
CO-DR -E-001-88 B	Line Condition Occurs Which Inhibits Msgs. From	01-06-1988 03-03-1988	N. Brodeur/AFBIS E. Brewer/LEC	T/I Work in progress. CO-DR-E-007-88 closed to this DR. Verification provided.
CO-DR -E-002-88 B	Garbled London Message Hung PVALIN	01-11-1988 02-18-1988	G. Gutendorf/HED E. Brewer/LEC	Closed No doc. changes. Verification provided. Recommend closure.
HU-DR -E-004-87 C	Add Line To Selective Directory Menu.	07-29-1987 02-25-1988	Ops Wire Service A. Fields/ESG	T/I Assigned to Alison to investigate. Report at O-ERB 02-25-88
HU-DR -E-025-87 C	Bulletin/Note Field Lines Are Not Discrete.	08-06-1987 02-18-1988	C. Hersh, DC/WSS D. Higgins/LEC	Closed Closed to HU-RFC-E-006-87.
HU-DR -E-107-87 B	Imbalance Between Mirrored Systems	09-25-1987 02-25-1988	<input type="text"/> ATEX	Open DR discussed at ERB 2-18. Waiting response from ATEX.

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FBIS  
Request for Change

Title: Read-In For DRD

RFC No.: HU-RFC-E-006-88

Contract No.: 85X-102-200-000

Date Logged: 02-16-1988

Priority: B

Proponent of RFC: /DRD

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Approval for Submittal:

Date:

Originator: A. Fields/ESG

Telephone Number: (703) 733-5851

Affected Documents:

Title: ATEX

Number:

Need for Change:

Users on Systems 1-4 need to be able to read-in (i.e., have access to ADMIN and SERVICE message and various Wire queues) without causing heavy system overload and slow response time.

Description of Change:

Cost/Schedule Impact:

Date Closed:

Result:

Board Comments: HU-DR-E-095-87, HU-MR-E-014-87, HU-RFC-E-020-87  
and HU-RFC-E-026-87 are all closed into this RFC.  
HU-DR-E-025-87 closed to this DR on 2/28

Status: Open                      Due Date: 03-03-1988                      Actionee: A. Fields/ESG  
Status Msg: Scheduled as part of ESP II work.  
Date Closed:

FBIS

Request for Change

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Title: Upgrade To The ATEX System

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RFC No.: HU-RFC-E-008-88

Contract No.: 85X-102-200-000

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Date Logged: 02-17-1988

Priority:

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Proponent of RFC: SES

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Approval for Submittal: M. Tanigawa

Date: 02-17-1988

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Originator: R. Emrich

Telephone Number: (703) 733-5930

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Affected Documents:

Title:

Number:

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Need for Change:

See Attached.

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Description of Change:

See Attached.

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Cost/Schedule Impact:

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Date Closed:

Result:

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Board Comments:

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Status: Approval

Due Date: 02-18-1988

Actionee: M. Tanigawa/ADD

Status Msg: Referred to the CCB for final approval. Has ERB approval and support.

Date Closed:

Attachment for HU-RFC-E-008-88 (Upgrade to the ATEX System)

NEED FOR CHANGE:

The Atex system does not provide adequate performance and fully satisfy its users - the Wire Service, Daily Reports, and JPRS. The results of the ATEX System performance studies point to the lack of sufficient memory as the single most important problem for all three categories of performance problems that were analyzed. Following memory the remaining factors which related to the Wire Service function were I/O services, including the Multi-Processor Bus and access to the System Disk, the availability of CPU cycles, and the quantity of incoming wire message traffic.

DESCRIPTION OF CHANGE:

The studies suggest that ESP-2 is a relevant improvement, providing a dramatic improvement in memory, more flexible allocation of memory, and better memory utilization strategies. The availability of much improved cache memory in ESP-2 suggests that it will provide some relief to the I/O bottlenecks. Purchasing ESP-2, for all six ATEX Systems, should help clear up a major portion of the problem, since memory is so strongly implicated, and since ESP-2 provides a major increase in memory. It is recommended that the optional upgrade to an additional 4 MB also be procured.

Software improvements bundled in ESP-2 should improve the efficiency of the Multi-Processor Bus, and reduce its negative impact on performance. The software associated with ESP-2 provides better handling of errors associated with MPB traffic, which in turn reduces the number of time-outs.

The problem of CPU cycle availability can be partly alleviated by upgrading the current 15 MHz DEC J-11 processors to 18 MHz J-11 processors for all six Atex systems. The need for additional CPU cycles suggest the value in upgrading to the faster J-11 chip.

The analysis does not point up as much as the daily statistics do, that the system disks on Atex systems 1, 2, 3, and 4 are badly overworked. Although the improved approach to caching in ESP-2 may provide a 40 percent improvement, the problem of disk accesses is so severe that additional relief will be required. It is recommended that thought be given as to how the system can be reorganized in the new ESP-2 hardware architecture to further reduce the number of disk and Multi-Processor Bus accesses.

FBIS  
RFC Status Report

ATTACHMENT F  
18 February 1988

RFC NO PRIORITY	TITLE	DATE LOGD DUE DATE	ORIGINATOR ACTIONEE	STATUS
HU-RFC-E-015-87 C	Additional Disk Drives For Atex And Xyvision.	08-04-1987 03-17-1988	W. Pratt J. Wisor/HED	Open Proposal for new disk drives has been issued. Deadline for proposal os
HU-RFC-E-029-87 C	DOCBUILD FOR CRS-COMPILED REPORTS	10-28-1987 03-17-1988	A. Usaty A. Fields/ESG	Open Kathy working with PROD on generating alternatives.
HU-RFC-E-003-88 B	Marking UNCLAS Line On VAX	01-29-1988 02-25-1988	<input type="text"/> ESG Higgins/LEC/Brewer	Open Delores has completed ATEX investigation. Brewer to report on VAX

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**FBIS**  
**Build Request**

**ATTACHMENT G**

**Title:** Wire Transmitted Wrong Items

**BR No.:** HU-BR-E-003-88

**Contract No.:**

**Date Logged:** 17 Feb 88

**Priority:** B

**Originator:** Fields

**Telephone Number:**

**Type Change:** Software Hardware Facility Procedure Documentation

**System/Subsystem Affected:** Atex

**Component Affected:**

**System Impact:**

**Affected Documents:**

**Title:** SCHED 6 in CUSTOM-SYS on Atex

**Number:**

**Description of Change:**

Procedures for cleaning out "SPIKE-SYS" will be modified to take place at 0000 GMT rather than 2100 GMT. Cleaning out HOLD1-COM will also be put on a TSCHED as well. Changes made to ATEX system to resolve HU-DR-E-004-88.

**Installation Procedures:**

TSCHED procedures changed by system manager by running BLD SHD.

**Verification/Test Procedures:**

System manager will verify at 0000 GMT by checking queue to verify purging complete.

**Scheduled Installation Date:** 17 Feb 88

**C/AFSB:** ✓

**Result:** Disapproved

**Acceptance:**

**Backout Procedures:**

**ERB Chairman Approval:** ✓

**Date:** 17 February 1988

**Board Comments:**

Proposed solution was not appropriate to the problem and was not implemented.

**STATUS:** CLOSED

**ST MSG:**

**ACTIONEE:** B. Baker/HED

**FBIS  
Build Request****Title:** Reader Installation**BR No.:** HU-BR-004-88**Contract No.:****Date Logged:** 2/17/88**Priority:** B**Originator:** A. Fields**Telephone Number:****Type Change:**      Software      Hardware      Facility      Procedure      Documentation**System/Subsystem Affected:** Atex**Component Affected:****System Impact:**    Installation: None (Activation: unknown-not scheduled now)**Affected Documents:** N/A**Title:****Number:****Description of Change:**

The installation of the Reader Utility on all six Atex systems. Utility will provide system performance statistics. 1455 - installed and turned off. 1510 - because utility interfered with XYvision links.

**Installation Procedures:**

Standard Atex procedures performed by Atex engineer Hayes.

**Verification/Test Procedures:**

Standard Atex procedures performed by Atex engineer Hayes.

**Scheduled Installation Date:** 2/17/88**C/AFSB:****Result:** Disapproved**Acceptance:** 18 February 1988**Backout Procedures:****ERB Chairman Approval:****Date:****Board Comments:**

Installed 1455 and turned off 1510 because utility interfered with XYvision links.

**STATUS:** CLOSED