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FINAL

NAS OPERATIONAL TEST AND EVALUATION INTEGRATION OF THE PC/MAINTENANCE MANAGEMENT SYSTEM (PC/MMS) VERSION J0.9

LETTER OF FINDINGS

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FEDERAL AVIATION ADMINISTRATION
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Engineering, Test, and Evaluation Service
ATC Sustaining Engineering Division
Maintenance Automation Program
FAA Technical Center
Atlantic City International Airport, N.J. 08405

1. INTRODUCTION.

This Final Letter of Findings (LOF) details the results of the ACN-100D NAS Operational Test and Evaluation Integration of the PC/Maintenance Management System (PC/MMS), version J0.9.

1.1 PURPOSE.

The purpose of the NAS OT&E Integration testing was to verify the following:

a. Functionality of the software is not degraded due to software enhancements or modifications;

b. The PC/MMS has been implemented as described in the following documents: (1) Version Description Document for the Maintenance Management System (Version A04.12) of RMMS Maintenance Processor Subsystem, May 31, 1994, Unisys/Volpe Center, including Attachment 3, PC/MMS J0.9 Installation Instructions, (2) Maintenance Management System, User's Manual, TI 6030.1E, November 15, 1993, including section 5.0, PC/MMS, and (3) Maintenance Management System, System Administrator's Guide, Release A04.1, TI 6030.2F, November 15, 1993, including section 5.0, MMS Security and PC/MMS Initialization; and

c. Exceptions identified by ACN-100D in previous LOFs are verified with regard to their status as of version J0.9.

1.2 DATE.

ACN-100D conducted the NAS OT&E Integration testing of the PC/MMS, version J0.9, with MMS, version A04.12, from June 13, 1994 through July 8, 1994.

1.3 LOCATION.

ACN-100D conducted the NAS OT&E Integration of the PC/MMS, version J0.9, on the ACN-100D Tandem NonStop II/TXP MPS and AT&T PCs (fixed and portable) located at the Federal Aviation Administration (FAA) Technical Center, Atlantic City International Airport, New Jersey.

1.4 PARTICIPANTS.

Frances Bayne (ACN-100D), Chuck Romano (CTA), Ed Palka (CTA), and Steve Mills (CTA) conducted the NAS OT&E Integration of the PC/MMS, version J0.9.

1.5 EXCEPTION IDENTIFICATION.

Each exception is identified as either major or minor and by an exception ID, both of which immediately follow the description of the exception. The exception ID is a unique identifier comprised of the software acronym (i.e., MMS), development version in which the exception was first detected by ACN-100D, and a three-digit number assigned sequentially within the body of an LOF or test report for a given version. In addition, when an exception is

identified as major, an asterisk is appended to the exception ID. Tables 4-1 and 4-2 follow the test results and recommendations for J0.9 and list the open and closed exceptions, respectively, identified by ACN-100D during past and present test efforts of PC/MMS and MMS.

2. PC/MMS J0.9 OT&E INTEGRATION TEST RESULTS AND RECOMMENDATIONS.

2.1 PC/MMS J0.9 OT&E INTEGRATION TEST RESULTS.

a. In the connected mode, in LDL, LDV, and LDP, the F10 key is pressed to interrupt a download, The Esc key is pressed, and the menu bar is displayed. At the GO TO ... selection of the EXIT menu, when functions other than LOG, LUT, LIN, LDP, LDV, LUP, and LDL are selected, the message THE FUNCTION CODE ENTERED IS NOT A VALID ENTRY is displayed. Communication error messages are displayed, or the PC hangs. This problem was reported to Bob Hobbs, Unisys, on 7/6/94.

This is a major exception. Exception ID: MMS-J0.9-001-*

b. In the connected mode, the heading of the Main Menu screen differs, depending on whether the previous screen is that of a ported or non-ported function. When the previous screen is a ported function, the heading of the Main Menu screen does not include the PC/MMS version number. When the previous screen is a non-ported function, the heading of the Main Menu screen contains "J0.9" below the "MAIN MENU" line. ACN-100D recommends that the PC/MMS version number (e.g., J0.9) be deleted from the heading of the Main Menu screen. This problem was reported to the Unisys Hotline and to Bob Hobbs, Unisys, on 7/5/94.

This is a minor exception. Exception ID: MMS-J0.9-002

2.2 PC/MMS J0.9 RECOMMENDATION.

ACN-100D recommends that the PC/MMS exceptions identified herein be corrected, to the extent possible, prior to deployment.

3. PC/MMS OPERATIONAL ISSUES.

The following issues were raised by Charlie Blue from Kansas City Center to Frances Bayne, ACN-100D, on 8/23/93 and remain unaddressed as of version J0.9:

a. Central Region will have 50 SFO/SFU/SU offices with personnel working administrative work hours of 7:30 to 16:00, Monday through Friday. Technicians will want to have at least six months of logging data (some may want the entire log history) downloaded to them before going to the site. The download process should be automated, such that after the PM Scheduler runs, a PC would call the MPS to download the desired logging data.

b. Many technicians will be uploading logging data at approximately the same time. The capability to export logging data entered in local mode to a file, merge the files into one file, and upload this one file is requested.

c. The LDL screen allows only six facility type/ident entries. Six entries alone are needed for one ARMS site. The capability to enter more than six facility types/idents is requested.

d. One person may be given the task of resolving unresolved log entries. The capability to download only unresolved log entries is requested.

4. MMS AND PC/MMS OPEN AND CLOSED EXCEPTIONS.

Tables 4-1 and 4-2 list the MMS and PC/MMS open and closed exceptions, respectively, identified by ACN-100D during past and present test efforts. For each exception the table includes a short description, exception ID, and status of the exception as of this LOF. The exception ID is a unique identifier comprised of the software acronym (i.e., MMS), development version in which the exception was first detected by ACN-100D, and a three-digit number assigned sequentially within the body of an LOF or test report for a given version. In addition, when an exception is identified as major, an asterisk (*) is appended to the exception ID.

TABLE 4-1. ACN-100D MMS AND PC/MMS OPEN EXCEPTIONS REPORT
AS OF A04.12 AND J0.9

DESCRIPTION OF EXCEPTION	EXCEPTION ID	CURRENT STATUS
MMS LOGGING ACTIVITY SUBSYSTEM TEST		
In LEM date can be entered in ORDERED field greater than date in RECEIVED field	MMS-A04-006	OPEN
In LRV comment DATE and TIME fields are not entirely highlighted when in error	MMS-A04-009	OPEN
Inconsistent messages displayed when user retrieves records	MMS-A03.2-001	OPEN
MMS REPORT GENERATION/DISTRIBUTION SUBSYSTEM TEST		
Within REP, RNP, RPG, and RTE, there should be function key to return to RGD menu	MMS-A04-017	OPEN
In REP, REPORT PROCESSING message remains on screen after report generated	MMS-A04-018	OPEN
In Report Names screens in REP, subfunction and field identifiers should be spelled out	MMS-A04-021	OPEN
In Report Names, PMTODAY long name should be PMs AND CERTIFICATIONS ...	MMS-A04-022	OPEN
MMS NAS PROBLEM REPORTING SUBSYSTEM TEST		
In NPT can enter 8 characters for VERSION, but on HELP screen, displays or can enter only 4 characters	MMS-A04.11-001	OPEN
In NSP when record retrieved from NATDB, last letter of FAC TYPE not displayed	MMS-A04.11-002	OPEN

MMS TEST EQUIPMENT AND CALIBRATION SUBSYSTEM TEST

In TEI omitted required fields not brightly highlighted when return from HELP screen	MMS-A04.11-003	OPEN
In TCR review screens F5=ALARM not displayed in function key area	MMS-A04.11-004	OPEN
In TET, when record retrieved, LO entered in TC field, F9 pressed, DISPOSITION field filled prior to entry of req. data	MMS-A04.04-005	OPEN

MMS PERSONNEL CERTIFICATION AND TRAINING SUBSYSTEM TEST

In PTE can enter <=50 characters for TITLE, but after return from HELP screen, only <=30 characters displayed on PTE screen	MMS-A04.11-006	OPEN
In PCR after F10 pressed (RESPONSIBILITY ASSIGNMENTS SUMMARY screen displayed), must press SF5 twice to return to PCR screen	MMS-A04.11-007	OPEN
In PCS when attempting to reverse a reassignment, message ONLY INITIALS AND PASSWORD MAY BE RE-ENTERED ... unclear	MMS-A04.11-008	OPEN
In PMD incorrect data handled differently when entered for ACRONYM (allows correction) and MCD (screen must be cleared)	MMS-A04.11-009	OPEN

MMS DATA ENTRY/HELP/FUNCTION KEY TEST

In MMS when F2 pressed while on HELP screen, extraneous data overlaid help text	MMS-A04.11-010	OPEN
In MMS, when invalid function code entered in F1=GO TO, after F1 pressed, cursor at same position (remains on FPS, FDS, ARC)	MMS-A04.05-063	OPEN

MMS USER'S MANUAL

Long name for PMTODAY should be PMs AND CERTIFICATIONS . . .	MMS-A04-027	OPEN

MMS SOFTWARE REQUIREMENTS SPECIFICATION

Modify SRS for consistency with Help screens of REP	MMS-A04-029	OPEN

PC/MMS INSTALLATION

In PC/MMS INSTALL program, when user enters invalid comm port value, default of 2 used--should prompt for correct value	MMS-J0.8-005	OPEN
In PC/MMS INSTALL program, only Com1 or Com2 can be chosen for comm port--should also allow Com3 and Com4 to be chosen	MMS-J0.8-006	OPEN

PC/MMS CONNECTED MODE

In PC/MMS conn mode, in LDL, LDV, LDP, after download interrupted & other than LOG, LUT, LUT subfunc selected from menu bar, comm error msg displayed	MMS-J0.9-001-*	OPEN
In PC/MMS conn mode, when ported function, then non-ported function, then Main Menu, PC/MMS version number displayed	MMS-J0.9-002	OPEN
In PC/MMS conn mode, when invalid function code entered in F1=GO TO, after F1 pressed, cursor at same position (remains on FPS, FDS, ARC)	MMS-J0.7-024	OPEN

PC/MMS LOCAL AND CONNECTED MODES

In PC/MMS both modes, in Main Menu, LOG, LSR, PMS, PMC, blank spaces around = should be deleted	MMS-J0.6-058	OPEN

MMS AND PC/MMS

In MMS and PC/MMS (both modes), when F1 pressed from current screen, various msgs displayed	MMS-J0.7-059	OPEN
In MMS and PC/MMS (both modes), when certain screen displayed and F1 pressed, various formats of WARNING-F1 WILL CLEAR SCREEN; ...	MMS-J0.7-060	OPEN

PC/MMS DOCUMENTATION

PC/MMS Inst & Oper Notes and SAG and/or User's Manual should state how LIN info can be retrieved (which reports include LIN info)	MMS-J0.5-033	OPEN

TABLE 4-2. ACN-100D MMS AND PC/MMS CLOSED EXCEPTIONS REPORT
AS OF A04.12 AND J0.9

DESCRIPTION OF EXCEPTION	EXCEPTION ID	CURRENT STATUS
MMS/IMCS INITIALIZATION/LOADING TEST		
COBOL85 run-time library not installed on \ACTA MPS	MMS-A03.4-001	CLOSED A03.4
MMS SECURITY TEST		
In MMS, on System Access screen, less than 3 successive logon failures causes parity error 15	MMS-A04.05-062-*	CLOSED A04.08
Sector and Initials remain on screen when access IMCS and press F6 to log off	MMS-A04-001	CLOSED A04.04
When user with access level of 0 attempts access to MMS subsystems, incorrect message displayed	MMS-A04-002	CLOSED A04.02/.03
User with access level of 1, 2, or 3 can produce ACCLAST report--should only be 4	MMS-A04-003	CLOSED A04.02/.03
Process $B961 (TERMCHKO) had error 26	MMS-A04-004	CLOSED A04.02/.03
When controller turned off and on, disconnect; to reconnect, must enter Alt Backspace, then Main Menu displayed	MMS-A04-005	CLOSED A04.04
MMS ADMINISTRATION SUBSYSTEM TEST		
When ACC record modified, MAIL PASSWORD deleted	MMS-A04.03-001-*	CLOSED A04.04
MMS ADMACC FILE GROUP UPDATE UTILITY TEST		
In ACCUPD, on Group Access ID Maintenance screen, when F2 (HELP) pressed and F1 (PROCEED) pressed, user logged off	MMS-A04.04-001-*	CLOSED A04.05

MMS LOGGING ACTIVITY SUBSYSTEM TEST

In LOG and LSR, when invalid 3-char code entered in F1=GO TO and F5 & F16 pressed, msg ERROR ON CALL LID ... displayed	MMS-A04.04-002	CLOSED A04.05
In LLF error message, incorrect spelling of FEILD(S)	MMS-A04-007	CLOSED A04.04
In LRV when less than nine lines of comments and no comments added, incorrect message displayed	MMS-A04-008	CLOSED A04.04
In LRV number of comments not displayed like LCO	MMS-A04-010	CLOSED A04.04
Should LOG ID NUMBER be retained when going from LRV to any other LOG function?	MMS-A04-011	CLOSED N/A
In LCO when less than nine lines of comments and no comments added, incorrect message displayed	MMS-A04-012	CLOSED A04.04
Displayed time not current system time upon return to Logging Menu screen	MMS-A03.3-001	CLOSED A04

MMS FACILITY SERVICE EQUIPMENT PROFILE SUBSYSTEM TEST

In FDS, when attempt to generate data sets A, B, C, or D, error message displayed	MMS-A04-013	CLOSED A04.02/.03
In FFA, COST CENTER field only five characters (VDD states six)	MMS-A04-014	CLOSED-MEMO-N/A
In FMO, SHORT NAME field modified with same data, and OPERATION SUCCESSFUL message displayed	MMS-A04-015	CLOSED N/A
After FPF record retrieved and F12 pressed, message includes reference to FSU (not available)	MMS-A04-016	CLOSED A04.02/.03

MMS REPORT GENERATION SUBSYSTEM TEST

Validity check not always performed on selection criteria data	MMS-A03.3-002	CLOSED A04.04

MMS REPORT GENERATION/DISTRIBUTION SUBSYSTEM TEST

In RTE, when TEINVRPT report generated, first page has no headers and totals, second page has no requested data	MMS-A04.04-003	CLOSED A04.11
Report 6040-12 (FSINTDTL) could not be produced	MMS-A04-019-*	CLOSED A04.02/.03
Should PCPFF be PCFPF?	MMS-A04-020	CLOSED N/A
In Help screens for REP, RNP, and RTE, editing feature enabled	MMS-A04-023	CLOSED A04.02/.03

MMS/NAPRS CONVERSION TEST

TACL sets for volume and subvolume set to test configuration	MMS-A03.3-003	CLOSED A03.31
Unable to download daily NAPRS data file from MPS to PC	MMS-A03.3-004-*	CLOSED A03.4

TRANSFER NETWORK UPDATE INTERFACE TEST

TRANSFER not transmitting updates to designated MPS node	MMS-A03.4-002-*	CLOSED A03.41

MMS EXTENDED FUNCTIONS SUBSYSTEM TEST

Access allowed to TEC subfunction with T followed by any two letters	MMS-A03.3-005	CLOSED A04
Return to EXT SYS ACCESS screen when F2 pressed for PCT, FSC, and NPR	MMS-A03.3-006	CLOSED A03.4

MMS TEST EQUIPMENT AND CALIBRATION SUBSYSTEM TEST

In TCM after delete request cancelled, PASSWORD field not cleared	MMS-A04.11-005	CLOSED A04.12

In TCS, when entry made only in PASSWORD field and F8 (ADD) pressed, msg 11 - REPLY LENGTH INVALID displayed	MMS-A04.04-004	CLOSED A04.05
In TCR, extraneous characters on bottom right of screen	MMS-A04.04-006	CLOSED A04.11
In TCR, when F7 (SELECT) or F10 (PRODUCE REPORT) pressed, highlighted space appears on right side of screen	MMS-A04.04-007	CLOSED A04.11
MMS PERSONNEL CERTIFICATION AND TRAINING SUBSYSTEM TE		
Leading zero in ZIP field not displayed on PPA screen	MMS-A04.03-002	CLOSED A04.11
In PPA when attempting to retrieve record, KBD LOCK remained	MMS-A04B-001-*	CLOSED A04.02/.03
MMS MISCELLANEOUS		
Message needed to denote 80% or 90% file full condition	MMS-A04-024	CLOSED N/A
MMS DATA ENTRY/HELP/FUNCTION KEY TEST		
In MMS, on Main Menu, when Up Arrow key pressed, cursor at OLD PASSWORD field	MMS-A04.05-064	CLOSED N/A
In MMS, on LOG, ADM, or PCT screen, when Up Arrow key pressed, cursor at last function of second column	MMS-A04.05-065	CLOSED N/A
Documentation and software inconsistent: MAIN MENU versus SYSTEM ACCESS	MMS-A03.2-002	CLOSED A04
MMS USER'S MANUAL		
In MMS User's Manual, paragraph should be added to document PC keyboard keys	MMS-J0.7-058	CLOSED A04.1/J0.8 UM
RSEP should be FSEP	MMS-A04-025	CLOSED A04.01 UM

In appendix D, long report names should be consistent with software	MMS-A04-026	CLOSED A04.01 UM
MMS SYSTEM ADMINISTRATOR'S GUIDE		
Table 6-6 does not specify non key or primary fields	MMS-A04-028	CLOSED A04.02/.03
PC/MMS INSTALLATION		
Correct spelling and format errors on PC/MMS software installation screens	MMS-J0.5-037	CLOSED J0.6
PC/MMS LOCAL MODE		
In PC/MMS local mode, when LOG entered on Main Menu and F1 pressed, "write-on called for disallowed function" displayed	MMS-J0.8-001	CLOSED A04.12/J0.9
In PC/MMS local mode, in LIN, when local mode log entries exist and F8 pressed to modify LIN, INVALID PASSWORD ... displayed	MMS-J0.71-001	CLOSED N/A
In PC/MMS local mode, after installation of PC/MMS, on System Access screen, can't cursor to F1=ENTER until press Shift Alt F6	MMS-J0.7-001	CLOSED J0.71
In PC/MMS local mode, System Access screen, Help for SECTOR, INITIALS, PASSWORD confusing: YOUR USERID WILL BE INVALID ...	MMS-J0.7-002	CLOSED J0.8
In PC/MMS local mode, in LSR, when REGION, SECTOR, AREA entered & no FACILITY SERVICE dbase on PC, no logs displayed on LSR report	MMS-J0.7-003	CLOSED N/A
In PC/MMS local mode, in LSR, when AREA entered & appropriate FACILITY SERVICE dbase present, no logs displayed on LSR report	MMS-J0.7-004	CLOSED N/A

In PC/MMS local mode, when invalid function code entered in F1=GO TO, after F1 pressed, cursor at same position	MMS-J0.7-005	CLOSED J0.71
In PC/MMS local mode, when unavailable function code entered in F1=GO TO, after F1 pressed, cursor at same position	MMS-J0.7-006	CLOSED J0.71
In PC/MMS local mode, F8 pressed to add log when no valid. files downloaded; PC beeps; F8 must be pressed again	MMS-J0.6-003	CLOSED J0.71
In PC/MMS local mode, in LDP, EXPORT function, PM data not properly saved	MMS-J0.6-004-*	CLOSED J0.7
In PC/MMS local mode, when downloaded LST log retrieved, ARRIVAL DATE not displayed	MMS-J0.6-005	CLOSED J0.7
In PC/MMS local mode, in LDL, IMPORT function does not always work properly	MMS-J0.6-006	CLOSED J0.71
In PC/MMS local mode, SFO on LSR screen appears to be default-filled with first digit of SFO from LIN screen	MMS-J0.6-007	CLOSED J0.71
In PC/MMS local mode, when F6=LOGOFF pressed after logging on seven times, error msg displayed	MMS-J0.6-008	CLOSED J0.7
In PC/MMS local mode, in LOG and PMS, OTHER MMS SUBSYSTEMS area info not displayed but printed	MMS-J0.6-009	CLOSED J0.7
In PC/MMS local mode, when F5 pressed from LOG or PMS, OTHER MMS SUBSYSTEMS area info displayed in message box shadow	MMS-J0.6-010	CLOSED J0.71
In PC/MMS local mode, screens not consistent with display of version identification	MMS-J0.5-038	CLOSED J0.6

In PC/MMS local mode, System Access and Main Menu screens should display AOS Hotline telephone number	MMS-J0.5-039	CLOSED J0.7
In PC/MMS local mode, problems with LSR report generation	MMS-J0.5-040-*	CLOSED J0.6
In PC/MMS local mode, correct grammar, spelling errors in Help screens for SECTOR, INITIALS, PASSWORD	MMS-J0.5-041	CLOSED J0.6
In PC/MMS local mode, GO TO field Help screens for LOG and PMS inconsistent	MMS-J0.5-042	CLOSED J0.7
In PC/MMS local mode, when Alt Shift F4 pressed, is message correct?	MMS-J0.5-043	CLOSED J0.7
PC/MMS CONNECTED MODE		
In PC/MMS conn mode, fifth line (version number) in header is blank after going from ported to non-ported screen, then to Main Menu	MMS-J0.8-002	CLOSED A04.12/J0.9
In PC/MMS conn mode, on Main Menu, when Tab key pressed at OLD PASSWORD field, cursor positioned at NEW PASSWORD field	MMS-J0.8-003	CLOSED A04.12/J0.9
In PC/MMS conn mode, on non-ported, when Ctrl End keys pressed, "..HIT ANY KEY TO RETURN TO PCT.."; when key pressed, DOS prompt displayed	MMS-J0.8-004	CLOSED A04.12/J0.9
In PC/MMS conn mode, when open/closed logs dwnlded, voided on MPS, updated on MDT, uplded, V STATUS=X, O STATUS=V with updates	MMS-J0.71-002-*	CLOSED A04.1/J0.8 & UM
In PC/MMS conn mode, in LUP, when voided logs uploaded, correction screen displayed although no error	MMS-J0.71-003-*	CLOSED A04.1/J0.8

In PC/MMS conn mode, when voided logs uploaded, comments added in local via SF10 not uploaded	MMS-J0.71-004-*	CLOSED A04.1/J0.8
In PC/MMS conn mode, on System Access screen, less than 3 successive logon failures causes comm error 2	MMS-J0.7-007-*	CLOSED J0.71
In PC/MMS conn mode, dialup, on Main Menu, MCS entered in F1=GO TO and any char. entered in OLD PASSWORD, IMCS accessed	MMS-J0.7-008-*	CLOSED J0.71
In PC/MMS conn mode, when ported function displayed, then nonported, and F4 pressed, PC hangs	MMS-J0.7-009-*	CLOSED J0.71
In PC/MMS conn mode, in LDV, when attempt to download FACILITY TYPE records, PC hangs, then comm error 4	MMS-J0.7-010-*	CLOSED J0.71
In PC/MMS conn mode, in LDL, < 2MG on C drive, press F10, allowed database to be searched for 50 minutes	MMS-J0.7-011-*	CLOSED N/A
In PC/MMS conn mode, in LDP, F10 pressed twice, if F4, F6, Alt Shift F6 pressed, PC hangs, then comm error 17	MMS-J0.7-012-*	CLOSED J0.71
In PC/MMS conn mode, in LDV, dialup, when > 1 user downloads same val. file, error 12, press Enter, download other file, PC hangs	MMS-J0.7-013-*	CLOSED J0.71
In PC/MMS conn mode, in LDV, when > 1 user downloads same val. file, error 12, press Enter, go to LOG, etc. only download FAC TYPE	MMS-J0.7-014-*	CLOSED J0.71
In PC/MMS conn mode, in LDP, when > 1 user downloads PM records, download may be interrupted or incomplete PM database downloaded	MMS-J0.7-015-*	CLOSED J0.71

In PC/MMS conn mode, in LDV, > 1 user downloads same val. file, error 12, press Enter, other than LOG, error msg etc, downloads OK	MMS-J0.7-016	CLOSED J0.71
In PC/MMS conn mode, on System Access screen, Help text for SECTOR, INITIALS, PASSWORD is disconnected mode help	MMS-J0.7-017	CLOSED J0.71
In PC/MMS conn mode, on Main Menu, at OLD PASSWORD, when End key pressed, cursor at NEW PASSWORD field	MMS-J0.7-018	CLOSED J0.71
In PC/MMS conn mode, in FSE, when F1 pressed, screen blanks out and is redisplayed with no msg	MMS-J0.7-019	CLOSED J0.8
In PC/MMS conn mode, on LOG, subsystems under OTHER MMS SUBSYSTEM accessible via F1--not documented	MMS-J0.7-020	CLOSED A04.1/J0.8 UM
In PC/MMS conn mode, in LSR, after generate LSR report with LIR records, press F1, msg displayed REQUESTED FUNCTION IS UNAVAILABLE	MMS-J0.7-021	CLOSED J0.71 & VDD
In PC/MMS conn mode, in LSR, when generate LSR report & press F1 to retrieve specific LRM log, LRM log with default data displayed	MMS-J0.7-022	CLOSED J0.71 & VDD
In PC/MMS conn mode, in LSR, page numbers on LOG SUMMARY REPORT do not increase above 20	MMS-J0.7-023	CLOSED J0.71
In PC/MMS conn mode, when ADM or PCT displayed, Up Arrow key pressed, cursor at last function of second column	MMS-J0.7-025	CLOSED N/A
In PC/MMS conn mode, on LUT or its function screens, when LOG displayed, last line changes color	MMS-J0.7-026	CLOSED J0.71

In PC/MMS conn mode, in LUP, at correction screen, press F10 (log not corrected), upload resumed, log not corrected not in count	MMS-J0.7-027	CLOSED J0.71
In PC/MMS conn mode, in LDL, month and day validated, but year not validated	MMS-J0.7-028	CLOSED J0.71
In PC/MMS conn mode, in LDL, when no date enter in START DATE, error msg, press F10, logs downloaded	MMS-J0.7-029	CLOSED J0.71
In PC/MMS conn mode, in LDV, FACILITY TYPE download does not occur by default when FAC EQUIP, EQUIP MODULE, FAC SERV selected	MMS-J0.7-030	CLOSED J0.71
In PC/MMS conn mode, in LDV, when > 1 user downloads same validation file, send error msg 12 has OCCURED misspelling	MMS-J0.7-031	CLOSED J0.71
In PC/MMS conn mode, in LDP, when download interrupted second time, label for F10 in function key area incorrect	MMS-J0.7-032	CLOSED J0.71
In PC/MMS conn mode, in LDP, when download interrupted second time, function label under BEGIN menu incorrect	MMS-J0.7-033	CLOSED J0.71
In PC/MMS conn mode, in LDP, when download completed, label for F10 in function key area incorrect	MMS-J0.7-034	CLOSED J0.71
In PC/MMS conn mode, In LDP, when download completed, function label under BEGIN menu is incorrect	MMS-J0.7-035	CLOSED J0.71
In PC/MMS conn mode, when LIN entered in F1=ENTER of System Access screen and F1 pressed, LOG Menu displayed	MMS-J0.6-011	CLOSED J0.7

In PC/MMS conn mode, when attempt to retrieve PMD, PSM, PSR, or PXR from Main Menu, PC hangs	MMS-J0.6-012-*	CLOSED J0.7
In PC/MMS conn mode, when attempt to retrieve PMD, PSM, PSR, or PXR from Security Access, LOG Menu displayed	MMS-J0.6-013	CLOSED J0.7
In PC/MMS conn mode, when attempt to retrieve RST from F1=GO TO of nonported functions, varied results occur	MMS-J0.6-014	CLOSED J0.7
In PC/MMS conn mode, when attempt to retrieve RST from System Access, LOG Menu displayed	MMS-J0.6-015	CLOSED J0.7
In PC/MMS conn mode, when SF2 pressed to page through LSR report, comm error 4 msg displayed	MMS-J0.6-016-*	CLOSED J0.7
In PC/MMS conn mode, in LUP, when error log corrected and upload complete, msg indicates log uploaded in error	MMS-J0.6-017	CLOSED A04.12/J0.9
In PC/MMS conn mode, when log retrieved from LSR report and SF5 to return to LSR, comm error 16 msg displayed	MMS-J0.6-018-*	CLOSED J0.71
In PC/MMS conn mode, in LDV, when no records found for selected valid. file, X remains	MMS-J0.6-019	CLOSED J0.71
In PC/MMS conn mode, OUT selection displayed on Main Menu; should only be displayed at FAA node	MMS-J0.6-020	CLOSED J0.7
In PC/MMS conn mode, in LAD, LFC, LFL, LLF, LST, LSM, LTE, when Comments screen retrieved, msg blinks; PC hangs	MMS-J0.6-021-*	CLOSED J0.7

In PC/MMS conn mode, in LUP, when valid LPM/LCE log uploaded, unresolved log results; LUP msg indicates no error	MMS-J0.6-022	CLOSED J0.7
In PC/MMS conn mode, when LSR report generated, ENTRY TYPE selection criteria ignored	MMS-J0.6-023	CLOSED J0.7
In PC/MMS conn mode, in LDP, all records that meet selection criteria not downloaded	MMS-J0.6-024-*	CLOSED J0.7
In PC/MMS conn mode, PCPlus msg should be "Logging onto the MPS"	MMS-J0.6-025	CLOSED J0.7
In PC/MMS conn mode, in LUP, logs previously downloaded and updated should be identified with MPS LOG ID	MMS-J0.6-026	CLOSED J0.7
In PC/MMS conn mode, in LUP, when voided log uploaded, LOG ID NUMBER has incorrect sequence number	MMS-J0.6-027	CLOSED J0.7
In PC/MMS conn mode, access port LOG function, then nonported, then attempt LUT functions, error msg displayed	MMS-J0.6-028-*	CLOSED J0.7
In PC/MMS conn mode, in LDL, B in OPEN/CLOSE/BOTH, START DATE restricts only closed, not open, records	MMS-J0.6-029	CLOSED J0.8 & A04.1 UM
In PC/MMS conn mode, in LDL, F12 must be pressed 2 or 3 times to activate PREVIOUS & DEFAULT FILTER	MMS-J0.6-030	CLOSED J0.71 VDD
In PC/MMS conn mode, in LDV, when download interrupted second time, F10 label in function key area incorrect	MMS-J0.6-031	CLOSED J0.7
In PC/MMS conn mode, in LDV, when download interrupted second time, menu bar, BEGIN, Begin Download incorrect	MMS-J0.6-032	CLOSED J0.7

In PC/MMS conn mode, in LDV, when download completed, F10 label in function key area incorrect	MMS-J0.6-033	CLOSED J0.7
In PC/MMS conn mode, in LDV, when download completed, menu bar, BEGIN, Resume Download incorrect	MMS-J0.6-034	CLOSED J0.7
In PC/MMS conn mode, in LDL, when download interrupted second time, F10 label in function key area incorrect	MMS-J0.6-035	CLOSED J0.7
In PC/MMS conn mode, in LDL, when download interrupted second time, menu bar, BEGIN, Begin Download incorrect	MMS-J0.6-036	CLOSED J0.7
In PC/MMS conn mode, in LDL, when download completed, F10 label in function key area incorrect	MMS-J0.6-037	CLOSED J0.7
In PC/MMS conn mode, in LDL, when download completed, menu bar, BEGIN, Resume Download incorrect	MMS-J0.6-038	CLOSED J0.7
In PC/MMS conn mode, msg "Dis-Connect entries" should be "Local (disconnected) mode entries"	MMS-J0.5-044	CLOSED J0.6
In PC/MMS conn mode, attempt to access MCS, OUT, RST exits PC/MMS and connects to MMS	MMS-J0.5-045	CLOSED J0.7
In PC/MMS conn mode, date selection criteria ignored when LSR report run a second time	MMS-J0.5-046	CLOSED J0.6
In PC/MMS conn mode, attempt to page through LSR report (Shift F2) causes TCP error	MMS-J0.5-047	CLOSED J0.6
In PC/MMS conn mode, attempt to retrieve LRM causes PC to hang	MMS-J0.5-048	CLOSED J0.7

In PC/MMS conn mode, go to LSR, then F6. Attempt to repeat steps causes PC to hang	MMS-J0.5-049	CLOSED J0.7
In PC/MMS conn mode, on RST screen, none of user keystrokes displayed	MMS-J0.5-050	CLOSED J0.6
In PC/MMS conn mode, on all Rep Gen/Dist screens, when F12 pressed, none of user keystrokes displayed	MMS-J0.5-051	CLOSED J0.6
In PC/MMS conn mode, no ASY record for LIN record, logs uploaded OK (expected unresolved error msg)	MMS-J0.5-052	CLOSED N/A
In PC/MMS conn mode, logs in error uploaded but msg displayed NO LOGS WERE UPLOADED IN ERROR	MMS-J0.5-053	CLOSED J0.6
In PC/MMS conn mode, msg "Communications Error 1 - returning to Tandem" displayed when screen inactive	MMS-J0.5-054	CLOSED J0.6
In PC/MMS conn mode, when F1 pressed at Main Menu and unresolved logs, EMA screen displayed	MMS-J0.5-055	CLOSED J0.7
In PC/MMS conn mode, after retrieve log from LSR report and press Shift F5, retrieve msg continues to blink	MMS-J0.5-056	CLOSED J0.6
In PC/MMS conn mode, in LUP, after return from error handling screen, PC hangs	MMS-J0.5-057	CLOSED J0.6
In PC/MMS conn mode, in LDV when download canceled (appears due to disk space), msg displayed is unclear	MMS-J0.5-058	CLOSED J0.7
In PC/MMS conn mode, when request FEQ, FMO, FPS, FPF, FDS from AFA, ALF, or ARC, FFA screen displayed	MMS-J0.5-059	CLOSED J0.7

In PC/MMS conn mode, when some val. records downloaded, FACILITY TYPE file may be incomplete	MMS-J0.5-060	CLOSED J0.7
In PC/MMS conn mode, in LDV, X should be default protected to left of FACILITY TYPE	MMS-J0.5-061	CLOSED J0.71
In PC/MMS conn mode, in LDV, meaning of column label "S" unclear	MMS-J0.5-062	CLOSED J0.71
In PC/MMS conn mode, LDV Help screens should describe records downloaded	MMS-J0.5-063	CLOSED J0.7
In PC/MMS conn mode, in LDL when future date entered, expected invalid date msg	MMS-J0.5-064	CLOSED J0.6
In PC/MMS conn mode, in LDL Help screen, all required fields are not listed	MMS-J0.5-065	CLOSED J0.7
In PC/MMS conn mode, in LDP when F10 pressed during PM CERTIFICATION STMTS download, msg displayed is truncated	MMS-J0.5-066	CLOSED J0.7
In PC/MMS conn mode, when other than Alt Shift F6 pressed to exit, msg "... DIASLLOWED" should be "DISALLOWED"	MMS-J0.5-067	CLOSED J0.71
PC/MMS LOCAL AND CONNECTED MODES		
In PC/MMS, local (except PASSWORD) and conn (ported) modes, none of password fields are cleared after invalid password entered	MMS-J0.7-036	CLOSED J0.71
In PC/MMS, both modes, on LOG, in Help for LUT, only three operations listed	MMS-J0.7-037	CLOSED J0.71
In PC/MMS, both modes, in LEQ, NEW-EQUIP-LOCATION Help missing line of text: WILL BE USED TO UPDATE THE EQUIPMENT LOCATION	MMS-J0.7-038	CLOSED J0.71

In PC/MMS, both modes, in LFC, log can be opened, continued, closed without entry in FAC STATUS field	MMS-J0.7-039	CLOSED J0.71
In PC/MMS, both modes, in LFC, when cursor at FAC STATUS field and Enter key pressed, cursor at STATUS DATE field	MMS-J0.7-040	CLOSED J0.71
In PC/MMS, both modes, in LFL, when cursor at AIRCRAFT NBR field and Enter key pressed, cursor at INSP STMT field	MMS-J0.7-041	CLOSED J0.71
In PC/MMS, both modes, in LLF, when cursor at UHF or VHF field and Enter key pressed, cursor at LFB field	MMS-J0.7-042	CLOSED J0.71
In PC/MMS, both modes, in LLF, when cursor at LFB, RSP, UVB field and Enter key pressed, cursor at P/S field	MMS-J0.7-043	CLOSED J0.71
In PC/MMS, both modes, when LLF screen printed, extraneous characters on hard copy (e.g., / / and : :)	MMS-J0.7-044	CLOSED J0.71 VDD
In PC/MMS, both modes, in LST, when cursor positioned at DEPARTURE DATE field and Enter key pressed, cursor at DEPARTURE TIME field	MMS-J0.7-045	CLOSED J0.71
In PC/MMS, both modes, in LST, if closed log used as template to add open LST log, must enter DEPARTURE DATE & DEPARTURE TIME	MMS-J0.7-046	CLOSED J0.71
In PC/MMS, both modes, in LSR, when 00 - 42 (or no value) entered in START DATE year, error msg (differs from MMS)	MMS-J0.7-047	CLOSED J0.71
In PC/MMS, both modes, in LSR, in Help for AREA field, ATCT listed as valid but when entered, error msg	MMS-J0.7-048	CLOSED J0.71

In PC/MMS, both modes, in LTE, when cursor at EVAL TYPE field and Enter key pressed, cursor at EVAL STMT field	MMS-J0.7-049	CLOSED J0.71
In PC/MMS, both modes, in LUT, in menu bar, Help text under STATUS for PC/MMS Logging Utilities (LUT) includes only 3 utilities	MMS-J0.7-050	CLOSED J0.71
In PC/MMS, both modes, in LUT and LUT functions, in menu bar, GO TO ... function, ADMINSTRATIVE misspelling	MMS-J0.7-051	CLOSED J0.71
In PC/MMS, both modes, in LIN, Help for MPS SITE includes invalid sites: ZSU, BDL, DEN, DTW, FAI, ICT, ORF, STL, ACTB	MMS-J0.7-052	CLOSED J0.71
In PC/MMS, both modes, in LIN, if ZSU, BDL, DEN, DTW, FAI, ICT, ORF, STL, ACTB entered in MPS SITE, should get invalid msg	MMS-J0.7-053	CLOSED J0.71
In PC/MMS both modes, in appl. LOG functions, when up arrow pressed at FAC/SERV, cursor position inconsistent	MMS-J0.6-039	CLOSED N/A
In PC/MMS both modes, in LSM, MAINTENENCE in screen title should be MAINTENANCE	MMS-J0.6-040	CLOSED J0.7
In PC/MMS both modes, in LCO, function key labels should not be highlighted	MMS-J0.6-041	CLOSED J0.7
In PC/MMS both modes, after LSR generated, Help "LSD Instant..." should be "LSR Instant ..."; MMA should be MMS	MMS-J0.6-042	CLOSED J0.71
In PC/MMS both modes, in LSR, Help for END DATE refers to nonexistent END TIME field	MMS-J0.6-043	CLOSED J0.7
In PC/MMS both modes, in LSR, Help for START DATE refers to nonexistent END TIME field	MMS-J0.6-044	CLOSED J0.7

In PC/MMS both modes, in LSR, Help for OPEN/CLOSE/BOTH refers to INCL VOID/DEL, but no delete function	MMS-J0.6-045	CLOSED J0.7
In PC/MMS both modes, in LUT, LDL title should be LDL = LOGGING DOWNLOAD - LOGGING DATA	MMS-J0.6-046	CLOSED J0.7
In PC/MMS both modes, in LUT functions' screens, field SFO should be SUBSECTOR	MMS-J0.6-047	CLOSED J0.7 UM
In PC/MMS both modes, date, time, password required to add comments on Comments screen but only password in MMS	MMS-J0.6-048	CLOSED J0.71
In PC/MMS both modes, in LST, departure date/time required to continue log; not required in MMS	MMS-J0.6-049	CLOSED J0.7
In PC/MMS both modes, in LDL, INCL VOID/DEL should be INCL VOID	MMS-J0.6-050	CLOSED J0.7
In PC/MMS both modes, in LDL, menu bar, BEGIN, Begin Download activated, data beneath BEGIN window displayed	MMS-J0.6-051	CLOSED J0.7
In PC/MMS both modes, in LUT, LDV, LIN, menu bar, Help for GO TO LFC and GO TO ..., words truncated on screen	MMS-J0.6-052	CLOSED J0.71
In PC/MMS both modes, in LUT, LIN, LDP, LDL, LDV, "ellipse" should be "ellipsis (...)"	MMS-J0.6-053	CLOSED J0.7
In PC/MMS both modes, menu bar, EXIT menu, in Help for GO TO ||| <F1>, add LDL and LDP to VALID ONLY FROM MDT	MMS-J0.6-054	CLOSED J0.7
In PC/MMS both modes, in LOG, PMS, and their functions, in Help for FUNCTION-CODE, add LDL and LDP	MMS-J0.6-055	CLOSED A04.1/J0.8

In PC/MMS both modes, in LUT and its functions, in Help for FUNCTION-CODE, delete and add functions to correct	MMS-J0.6-056	CLOSED J0.7
In PC/MMS both modes, in LDL, Help for INCLUDE-VOID refers to DELETED RECORDS; no delete in MMS	MMS-J0.6-057	CLOSED J0.7
In PC/MMS both modes, sector and initials displayed in uppercase when Caps Lock key is off	MMS-J0.5-068	CLOSED J0.7
In PC/MMS both modes, using Alt F2 for full screen help does not allow data entry into field	MMS-J0.5-069	CLOSED J0.7 VDD
In PC/MMS both modes, in LUT, SFO field is two characters; Help indicates one character	MMS-J0.5-070	CLOSED J0.71
In PC/MMS both modes, SF5 = Return not in function key area of LUT screens (except LIN), although available	MMS-J0.5-071	CLOSED J0.7
In PC/MMS both modes, msg when LSR report generated and no logs retrieved, inconsistent in local vs. conn modes	MMS-J0.5-072	CLOSED J0.6
In PC/MMS both modes, MENU-BAR, GO TO function, update top message	MMS-J0.5-073	CLOSED J0.7
In PC/MMS both modes, MENU-BAR, GO TO function, LOG function names inconsistent with MMS names	MMS-J0.5-074	CLOSED J0.71
In PC/MMS both modes, messages should be in uppercase letters for consistency with MMS	MMS-J0.5-075	CLOSED J0.71 VDD
In PC/MMS both modes, in LDV when viewing validation records, field names inconsistent with MMS field names	MMS-J0.5-076	CLOSED J0.8

In PC/MMS both modes, in LUT functions, when using Print Screen from menu, menu box displayed on printout	MMS-J0.5-077	CLOSED J0.7
In PC/MMS local and conn for ported, when using Print Screen, no form feed after screen printed	MMS-J0.5-078	CLOSED N/A
In PC/MMS both modes, in LDP, message incorrect when cursor positioned on Help in STATUS menu	MMS-J0.5-079	CLOSED J0.7
In PC/MMS both modes, in LDL, message incorrect when cursor positioned on Help in STATUS menu	MMS-J0.5-080	CLOSED J0.7
In PC/MMS both modes, in LDL, Help should include that log with most recent sequence number downloaded	MMS-J0.5-081	CLOSED J0.7
In PC/MMS, in LUP, PC hangs when attempting to upload log with ID different than MPS	MMS-J0.5-082	CLOSED J0.6
MMS AND PC/MMS		
In MMS and PC/MMS (both modes), when using a PC, pressing Shift Home key combination produces varied results	MMS-J0.7-061	CLOSED A04.1/J0.8 UM
PC/MMS DOCUMENTATION		
In PC/MMS, when log on first time in local, error msg not displayed as stated in Software Installation & Operation Notes, C.2.7.d	MMS-J0.7-054	CLOSED J0.71 & VDD
In PC/MMS Software Installation & Operation Notes, C.3.5, "accessed in read-only mode" is misleading	MMS-J0.7-055	CLOSED J0.71 VDD

In PC/MMS Software Installation & Operation Notes, C.3.9, not stated that START DATE a required field in LDL	MMS-J0.7-056	CLOSED J0.71 VDD
In MMS User's Manual, section 5.0, paragraph should be added to document MPS setting date/time on PC when connection made	MMS-J0.7-057	CLOSED A04.1/J0.8 UM
In MMS User's Manual, 5.4.1, parameters from previous download not displayed as stated	MMS-J0.6-059	CLOSED J0.8 & A04.1 UM
In MMS User's Manual, 5.4.1, add subparagraph to address stopping of logging data download process	MMS-J0.6-060	CLOSED J0.7 UM
In MMS User's Manual, 5.4.3, add sentence regarding upload of logging records--must be in connected mode	MMS-J0.6-061	CLOSED J0.7 UM
In MMS User's Manual, 5.4.3, add subparagraph to address stopping of logging upload process	MMS-J0.6-062	CLOSED A04.1/J0.8 UM
In MMS User's Manual, 5.4.3.4, add "In the local mode" before first word in first sentence	MMS-J0.6-063	CLOSED J0.7 UM
In MMS User's Manual, 5.4.3.4, append "from the LUP screen" to first sentence	MMS-J0.6-064	CLOSED J0.7 UM
In MMS User's Manual, 5.4.4, add sentence regarding download of valid data--must be in connected mode	MMS-J0.6-065	CLOSED J0.7 UM
In MMS User's Manual, 5.4.4, add sentence or para. to address previous download results section of LDV screen	MMS-J0.6-066	CLOSED A04.1/J0.8 UM

In MMS User's Manual, 5.4.4, add paragraph to address stopping of validation data download process	MMS-J0.6-067	CLOSED J0.7 UM
In MMS User's Manual, 5.4.4.3, insert "In the local or connected mode" before first word of first sentence	MMS-J0.6-068	CLOSED J0.7 UM
In MMS User's Manual, 5.4.4.3, append "from the LDV screen" to "menu bar" in first sentence	MMS-J0.6-069	CLOSED J0.7 UM
In MMS User's Manual, 5.4.5, add sentence regarding download of PM/CERT ref. data--must be in connected mode	MMS-J0.6-070	CLOSED J0.7 UM
In MMS User's Manual, 5.4.5, add subparagraph to address stopping of PM/CERT reference data download process	MMS-J0.6-071	CLOSED J0.7 UM
In MMS User's Manual, 5.4.6, add sentence regarding downloaded files may be exported while in local or conn mode	MMS-J0.6-072	CLOSED J0.7 UM
In MMS User's Manual, 5.4.7, add sentence regarding exported files may be imported while in local or conn mode	MMS-J0.6-073	CLOSED J0.7 UM
MMS User's Manual should indicate local mode synonymous with disconnected mode	MMS-J0.5-030	CLOSED J0.6 UM
PC/MMS Inst & Oper Notes should indicate local mode synonymous with disconnected mode	MMS-J0.5-031	CLOSED J0.6 INST
PC/MMS Inst & Oper Notes, LUT screen name references should be consistent with application	MMS-J0.5-032	CLOSED J0.71 VDD
LIN only described in PC/MMS Inst & Oper Notes. Should LIN be documented in User's and/or SAG?	MMS-J0.5-034	CLOSED J0.6 SAG

Add info on DOS files to User's Manual to facilitate cleanup maintenance	MMS-J0.5-035	CLOSED N/A
In LDL section of User's Manual, emphasize only log with most recent sequence number downloaded	MMS-J0.5-036	CLOSED J0.7 UM