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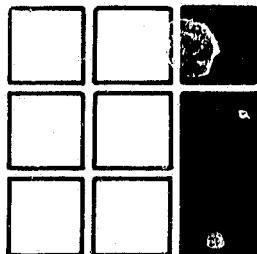
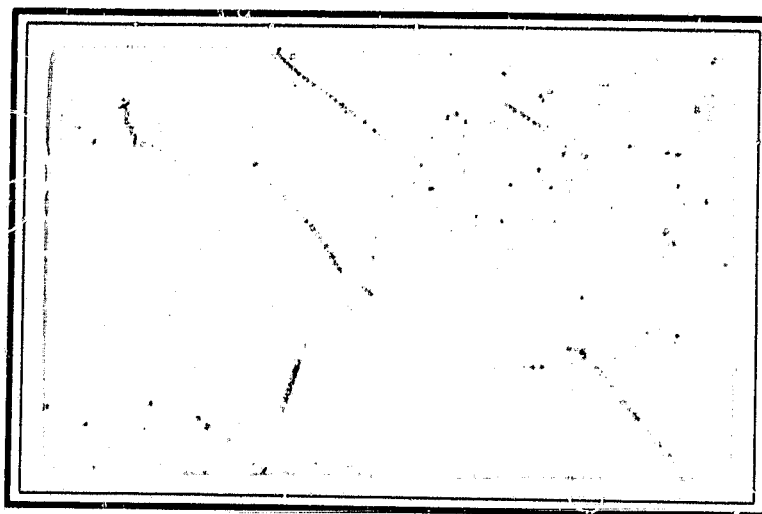
APR 26 1983

(NASA-CR-170850) PDSS CONFIGURATION CONTROL
PLAN AND PROCEDURES (Intermetrics, Inc.)
34 p HC A03/MF A01 CSCI 22A

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INTERMETRICS

INTERMETRICS INC.

IR-AL-003

PDSS
CONFIGURATION CONTROL
PLAN AND PROCEDURES

1 JANUARY 1983

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PREPARED FOR: NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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HUNTSVILLE, ALABAMA 35812
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PREFACE

This document contains the PDSS Configuration Control Plan and Procedures.

This document was prepared for Marshall Space Flight Center's Payload Project Office under NASA Contract NAS8-33825.

Questions concerning this document should be directed to Intermetrics, Inc., Huntsville Office.

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1.0 INTRODUCTION

1.1 SCOPE

This document contains the Payload Development Support System (PDSS) Configuration Control Plan and Procedures.

The objective of these plans and procedures is to establish the process for maintaining configuration control of the PDSS system, especially the Spacelab Experiment Interface Device's (SEID) RAU, HRM, and PDI Interface simulations and the PDSS ECOS DEP Services simulation.

The plans and procedures as specified in the following sections are designed to provide a simplified but complete configuration control process. The intent is to require a minimum amount of paperwork but provide total traceability of PDSS during experiment test activities.

1.2 APPLICABLE DOCUMENTS

The following documents are referenced by this document:

EXPERIMENT COMPUTER OPERATING SYSTEM DESIGN SPECIFICATIONS

Volumes I and II

ECO 8945B

McDonnell Douglas, Corp.

April, 1980

EXPERIMENT COMPUTER OPERATING SYSTEM REQUIREMENTS DEFINITION DOCUMENT

MDC G6862D

McDonnell Douglas, Corp.

April, 1980

SPACELAB DISPLAY DESIGN AND COMMAND USAGE DIVISION

MSFC-PROC-711A, MSFC

April, 1980

PDSS USERS MANUAL

IR-AL-001

Intermetrics, Inc.

15 January 1982

USER'S GUIDE FOR SPACELAB EXPERIMENT INTERFACE DEVICE

IR260-7

Intermetrics, Inc.

August, 1979

SPACELAB'S CDM'S SERIAL INPUT/OUTPUT USER'S HANDBOOK

Technical Memo

IBM

December, 1980

SPACELAB PAYLOAD ACCOMMODATION HANDBOOK

Revision 1

SLP/2104

NASA and ESA

31 July 1978

SPACELAB PAYLOAD ACCOMMODATION HANDBOOK

APPENDIX A - AVIONICS INTERFACE DEFINITION

Revision 1

NASA and ESA

31 May 1979

2.0 PDSS CONFIGURATION CONTROL

2.1 PDSS CHANGE CONTROL AUTHORITY

Configuration control of PDSS will be the responsibility of MSFC and Intermetrics, Inc. with Intermetrics providing configuration management functions in support to the Spacelab Payload Project Office of Marshall Space Flight Center.

The method for meeting the objectives of PDSS configuration control is the establishment of the PDSS Configuration Control Board (PDSS/CCB).

The objectives of the PDSS/CCB are:

1. To provide MSFC management with visibility of the PDSS development and test process.
2. To provide an effective and efficient method for incorporation of changes into the PDSS including updates to baselined system documents.
3. To insure PDSS Spacelab Qualification certification.
4. To provide a central point for distributing PDSS technical information.
5. To provide a method for PDSS users to submit discrepancy reports and/or change requests.
6. To provide a method for PDSS users to submit PDSS Experiment Test Reports.

The responsibilities and organization of the PDSS/CCB are defined in the following sections.

2.2 PDSS/CCB RESPONSIBILITIES

The PDSS/CCB is responsible for the following functions:

1. Maintain PDSS Baseline Documentation
 - PDSS User's Manual
 - SEID User's Manual
 - PDSS Design Manual
 - SEID Design Manual
2. Maintain a PDSS Technical Library
3. Maintain PDSS Qualification Test Plan
4. Review and disposition PDSS Engineering Change Requests
5. Review and disposition PDSS Deviation Reports
6. Review and archive PDSS Test Reports
7. Establish agendas and conduct PDSS Reviews

2.3 PDSS/CCB MEMBERSHIP

The organization and membership assignments for the PDSS/CCB are:

MEMBERS -----	RESPONSIBILITY -----	ORGANIZATION -----
R. BOUNDS		INTERMETRICS
T. GREENE		INTERMETRICS
J. BLANKENSHIP	SECRETARY	INTERMETRICS
R. LESTER	CHAIRMAN	MSFC/JA13
J. MOORE		MSFC/JA41
D. DAUGHERTY		MSFC/SA63
J. LEWIS		MSFC/EF15
P. HAMBY		MSFC/EF15
L. WILSON		MSFC/ET43

Intermetrics will provide PDSS/CCB secretary functions.

2.4 PDSS/CCB MEETINGS

The PDSS/CCB meetings are to be scheduled as needed for processing configuration control information and reviewing PDSS status.

PDSS/CCB meetings should be scheduled at least on a quarterly basis with a PDSS/CCB meeting scheduled after each major PDSS Test activity.

The PDSS/CCB Chairman will chair the meetings.

For each meeting the PDSS/CCB Secretary will prepare an agenda defining the items that are to be covered for that meeting.

The PDSS/CCB Secretary will record minutes of the meetings and will distribute those minutes to the members as soon as possible after the meeting. If any action items are assigned by the CCB, the secretary will distribute minutes to those persons assigned to perform the action item.

3.0 PDSS BASELINES

The following are configuration control items for PDSS:

BASELINE ITEM	BASELINE DATE
DOCUMENTS	

PDSS USERS MANUAL IR-AL-001 Intermetrics, Inc.	April 1983
SEID II SPECIFICATION IR-AL-007 1 April 1983 Intermetrics, Inc.	April 1983
PDSS SOFTWARE TEST PLAN IR-AL-005 1 January 1982 Intermetrics, Inc.	January 1982
SPACELAB EXPERIMENT INTERFACE DEVICE COMPATABILITY AND VERIFICATION TEST MTCP-CS-SEID-300 10 June 1982 Marshall Space Flight Center	June 1982
SOFTWARE	

PDSS Software - V02	April 1983
HARDWARE	

Spacelab Experiment Interface Device	April 1983

4.0 configuration control process

4.1 configuration control process

The configuration control process to be used by the PDSS/CCB is depicted in Figure 4-1.

PDSS Configuration control actions are initiated by:

1. New or expanded changes identified after baselining.
2. Deviations or problems identified during formal reviews or PDSS user tests.

Examples of the forms that are used in the configuration process are contained in Appendix A.

CONFIGURATION CONTROL PROCESS

STEP	FORM	CONFIGURATION CONTROL ACTION
----	----	-----
0	RN	PREPARE RELEASE NOTICE FOR BASELINE DOCUMENTS OR COMPUTER PROGRAMS
1		IF SOURCE OF ACTION IS TEST DISCREPANCY: GO TO STEP 2 REVIEW DISCREPANCY; GO TO STEP 2 NEW, MODIFIED SCOPE: GO TO STEP 8
2	(T)DR	PREPARE (TEST) DISCREPANCY REPORT
3		SUBMIT (T)DR TO PDSS/CCB
4		LOG (T)DR
5	CE	PREPARE PDSS CHANGE EVALUATION
6		LOG CE
7		IF NEW OR MODIFIED CHANGE GO TO STEP 17
8	ECR	PREPARE ENGINEERING CHANGE REQUEST
9		SUBMIT ECR TO CCB
10		LOG ECR
11	CE	PREPARE CHANGE EVALUATION
12		LOG CE
13		IF CHANGE REQUEST APPROVED GO TO STEP 17
14	CCBD	PREPARE CONFIGURATION CONTROL BOARD DIRECTIVE - "CHANGE DISAPPROVED"
15		LOG CCBD
16		ACTION CLOSED

FIGURE 4-1: CONFIGURATION CONTROL PROCESS

CONFIGURATION CONTROL PROCESS
(CONTINUED)

STEP ----	FORM -----	CONFIGURATION CONTROL ACTION -----
17	ECP	PREPARE ENGINEERING CHANGE PROPOSAL
18		SUBMIT ECP TO CCB
19		LOG ECP
20		IF CHANGE PROPOSAL APPROVED: GO TO STEP 21 REJECTED: GO TO STEP 14 TO BE RESUBMITTED: GO TO STEP 17
21	CCBD	PREPARE CONFIGURATION CONTROL BOARD DIRECTIVE - "CHANGE APPROVED"
22		LOG CCBD
23		REVISE DOCUMENTATION
24		IMPLEMENT CHANGE
25		VERIFY CHANGE
26		ACTION CLOSED

FIGURE A-1: CONFIGURATION CONTROL PROCESS

4.2 FORMS

Figures A-1 through A-7 identify the forms that are used by the configuration process. A brief description of each form follows.

1. ENGINEERING CHANGE REQUEST (ECR) - The ECR is to be used to initiate requests for changes to satisfy new or additional requirements (see Figure A-1).

2. CONFIGURATION CONTROL BOARD DIRECTIVE (CCBD) - The CCBD is to be used to close out a request presented to the PDSS/CCB whether the closeout is approval or disapproval (see Figure A-2).

3. CHANGE EVALUATION (CE) - The CE is to be used to describe the evaluation of the change impact. This evaluation is presented to the PDSS/CCB to aid in the approval process for any request initiated by an ECR (see Figure A-3).

4. (TEST) DISCREPANCY RECORD (DR/TDR) - The (T)DR is to be used to record any discrepancies (see Figure A-4).

The DR is to be used to record any design implementation errors or deficiencies subsequent to document approval or is used to record any design implementation errors or deficiencies recognized during formal reviews.

A TDR is to be used any time a problem/anomaly is encountered during testing with the exception of an obvious test deviation or human factor which is immediately recognized and corrected without disturbing the normal progress of the test.

5. SOFTWARE PROBLEM REPORT (SPR) - The SPR is to be used to report software problems (see Figure A-5).

6. RELEASE NOTICE (RN) - The RN is to be used to document any PDSS release. Under "comments" the ECR's, and (T)DR's closed out by the release are listed (see Figure A-6).

7. ENGINEERING CHANGE PROPOSAL (ECP) - The ECP is to be used to describe the change proposal as identified by an ECR (see Figure A-7).

4.3 CONFIGURATION STATUS ACCOUNTING

The configuration control accounting function provides the capability of capturing, storing, and retrieving all data pertinent to the management and operation of the PDSS.

The status accounting function provides the following information:

1. Current and accurate PDSS configuration baseline documents
 - Original released document
 - Redlined document for approved changes
2. Current and accurate PDSS configuration baseline computer programs
 - Source listings
 - Object programs
 - Load programs
3. (Test) Discrepancy Record Log
4. Engineering Change Request Log
5. Engineering Change Proposal Log
6. Configuration Control Board Directive Log
7. PDSS Technical Library

This information will be kept by the PDSS/CCB secretary and will be available on request and will be available for the PDSS/CCB meetings.

5.0 INTERFACE MANAGEMENT

The PDSS/CCB will coordinate any activities that are required of PDSS to maintain the PDSS qualified interfaces.

These interfaces include:

- * Experiment Computer Operating System (ECOS) Services

Reference: Experiment Computer Operating System
Design Specification

Source: Spacelab Integration Contracts
MDTSCO/IBM

- * Spacelab RAU

Reference: Spacelab Payload Accomodation Handbook

Source: MSFC's Spacelab Program Office

APPENDIX A

CONFIGURATION CONTROL FORMS

ORIGINAL PAGE 19
OF POOR QUALITY

1. NUMBER:	2. PCN:	MSEC ENGINEERING CHANGE REQUEST (See Instructions on reverse)		3. DATE:	4. PAGE 1 OF
5. TO:		6. THRU:		7. FROM:	
8. TITLE OF CHANGE:					
9. RECOMMENDED PRIORITY: <input type="checkbox"/> Emergency <input type="checkbox"/> Urgent <input type="checkbox"/> Routine				10. NEED DATE:	
11. PROGRAM(S)/PROJECT(S) AFFECTED:				12. END ITEM(S) AFFECTED BY NOMENCLATURE:	
13. RECOMMENDED EFFECTIVITY:				14. BASELINE DOCUMENTATION AFFECTED (Specs, ICD, etc.):	
15. RELATED CHANGES (ECR, ECP, CR, etc.) BY NUMBER:					
16. JUSTIFICATION FOR CHANGE (Include effect if not incorporated) (If necessary, continue on MSEC - Form 2327-1, continuation sheet):					
17. EFFECTS ON: <input type="checkbox"/> Hardware <input type="checkbox"/> Facility <input type="checkbox"/> Schedule (See Enclosure _____ for Impact) <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Software <input type="checkbox"/> Requirements Documentation <input type="checkbox"/> Cost (Estimated cost included in Enclosure _____)					
18. DESCRIPTION OF CHANGE (Include reference to enclosures) (If necessary, continue on MSEC - Form 2327-1, continuation sheet):					
19. SIGNATURE OF ORIGINATOR:		DATE:	TELEPHONE NUMBER:	OFFICE SYMBOL:	
20. CONCURRENCE					
SIGNATURE & ORGANIZATION		DATE	SIGNATURE & ORGANIZATION		DATE
21. TECHNICAL APPROVAL					
SIGNATURE & ORGANIZATION		DATE	SIGNATURE & ORGANIZATION		DATE

MSEC - Form 2327 (Rev. March 1974)

FIGURE A-1: ENGINEERING CHANGE REQUEST

ORIGINAL PAGE 19
OF POOR QUALITY

MARSHALL SPACE FLIGHT CENTER CONFIGURATION CONTROL BOARD DIRECTIVE					
1. ITEM NO.:		2. CONFIGURATION CONTROL BOARD:		3. DATE:	
4. CHANGE NO.:				5. PAGE _____ OF _____	
6. PROGRAM CONTROL NO.:		7. RESPONSIBLE INDIVIDUAL(S)/ORGANIZATION(S):			
8. CHANGE TITLE:			9. END ITEM NUMBER AND NOMENCLATURE:		
10. EFFECTIVITY:			11. BASELINE DOCUMENTATION AFFECTED (Spec., RCDs., Etc.):		
12. CHANGE DISPOSITION:					
13. CCB MEMBERS		CONCUR		14. CCB CHAIRMAN	
		YES NO			
		YES NO			
		YES NO			
		YES NO			
		YES NO			
		YES NO			

MSFC Form 3113 (Rev. September 1978)

FIGURE A-2: CONFIGURATION CONTROL BOARD DIRECTIVE

PCIN NO.	CHANGE EVALUATION					PAGE ____ OF ____	
						OFFICE	
CE REV. NO.	TITLE						
CHANGE IMPACT: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> SAFETY</div> <div style="width: 33%;"><input type="checkbox"/> FLIGHT OPERATIONS</div> <div style="width: 33%;"><input type="checkbox"/> SOFTWARE</div> <div style="width: 33%;"><input type="checkbox"/> PERFORMANCE</div> <div style="width: 33%;"><input type="checkbox"/> GROUND OPERATIONS</div> <div style="width: 33%;"><input type="checkbox"/> PAYLOADS</div> <div style="width: 33%;"><input type="checkbox"/> RELIABILITY</div> <div style="width: 33%;"><input type="checkbox"/> SIMULATORS & TRAINERS</div> <div style="width: 33%;"><input type="checkbox"/> TURNAROUND</div> <div style="width: 33%;"><input type="checkbox"/> ESE</div> <div style="width: 33%;"><input type="checkbox"/> OTHER (SPECIFY)</div> </div>							
			SCHEDULE IMPACT:		COST PER FLIGHT IMPACT:		
COST IMPACT:	FY	FY	FY	FY	REMAINDER	TOTAL	
IMPACT DESCRIPTIONS:							
IMPACT OF NON INCORPORATION:							
RECOMMENDATION:							
CHANGES EVALUATED				APPROVED BY:			
				<div style="display: flex; justify-content: space-between;"> SIGNATURE DATE </div>			
				SCR3 MEMBER			

SA61 Form-10
(May 1976) (OT)

FIGURE A-3: CHANGE EVALUATION

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NATC Form 684 (November 1974)

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FIGURE A-4: DISCREPANCY RECORD

4. WRITE HAND FOR LEGIBLE COPIES

MSPC - Form 100-1 (November 1994)

FIGURE A-4: DISCREPANCY RECORD
(CONTINUED)

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SOFTWARE RELEASE NOTICE

SRN / _____

CONFIGURATION	COMPONENT	SUBSYSTEM	ORBITER/TEST CONFIG	DATE
PATCH STATUS _____ PATCHES ONLY _____ ASSEMBLY/COMPILE W/PATCHES _____ ASSEMBLY/COMPILE ONLY			ID DISK _____ TAPE _____ FLOPPY _____	
PROGRAMMER		DATE	DEPT. MGR.	DATE
VALIDATION		DATE	VALIDATION MGR.	DATE

COMMENTS:

FIGURE A-6: SOFTWARE RELEASE NOTICE

ENGINEERING CHANGE PROPOSAL

THE FORMAT OF THE ENGINEERING CHANGE PROPOSAL IS LEFT TO THE ORGANIZATION PREPARING THE ECP. THE ECP SHOULD REFERENCE THE PROGRAM, END ITEMS, CONTRACT NUMBER AND RELATED ECR.

FIGURE A-7: ENGINEERING CHANGE PROPOSAL

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1. NUMBER:	2. PCN:	MSFC ENGINEERING CHANGE REQUEST (See Instructions on reverse)		3. DATE:	4. PAGE 1 OF
5. TO:		6. THRU:		7. FROM:	
8. TITLE OF CHANGE:					
9. RECOMMENDED PRIORITY: <input type="checkbox"/> Emergency <input type="checkbox"/> Urgent <input type="checkbox"/> Routine			10. NEED DATE:		
11. PROGRAM(S)/PROJECT(S) AFFECTED:			12. END ITEM(S) AFFECTED BY NOMENCLATURE:		
13. RECOMMENDED EFFECTIVITY:			14. BASELINE DOCUMENTATION AFFECTED (Specs, ICD, etc.):		
15. RELATED CHANGES (ECR, ECP, CR, etc.) BY NUMBER:					
16. JUSTIFICATION FOR CHANGE (Include effect if not incorporated) (If necessary, continue on MSFC Form 2327-1, continuation sheet):					
17. EFFECTS ON: <input type="checkbox"/> Hardware <input type="checkbox"/> Facility <input type="checkbox"/> Schedule (See Enclosure _____ for Impact) <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Software <input type="checkbox"/> Requirements Documentation <input type="checkbox"/> Cost (Estimated cost included in Enclosure _____)					
18. DESCRIPTION OF CHANGE (Include reference to enclosures) (If necessary, continue on MSFC Form 2327-1, continuation sheet):					
19. SIGNATURE OF ORIGINATOR:		DATE:	TELEPHONE NUMBER:	OFFICE SYMBOL:	
20. CONCURRENCE					
SIGNATURE & ORGANIZATION		DATE	SIGNATURE & ORGANIZATION		DATE
21. TECHNICAL APPROVAL					
SIGNATURE & ORGANIZATION		DATE	SIGNATURE & ORGANIZATION		DATE

ORIGINAL PAGE 19
OF POOR QUALITY

MARSHALL SPACE FLIGHT CENTER CONFIGURATION CONTROL BOARD DIRECTIVE					
1. ITEM NO.:		2. CONFIGURATION CONTROL BOARD:		3. DATE:	
4. CHANGE NO.:				5. PAGE	
6. PROGRAM CONTROL NO.:				OF	
7. RESPONSIBLE INDIVIDUAL(S)/ORGANIZATION(S):					
8. CHANGE TITLE:			9. END ITEM NUMBER AND NOMENCLATURE:		
10. EFFECTIVITY:			11. BASELINE DOCUMENTATION AFFECTED (Specs., ICDSs, Etc.):		
12. CHANGE DISPOSITION:					
13. CCB MEMBERS		CONCUR YES NO		14. CCB CHAIRMAN	

ORIGINAL PAGE 19
OF POOR QUALITY

PCIN NO.		CHANGE EVALUATION				PAGE ___ OF ___													
						OFFICE													
CE REV. NO.		TITLE																	
CHANGE IMPACT: <table border="0"> <tr> <td><input type="checkbox"/> SAFETY</td> <td><input type="checkbox"/> FLIGHT OPERATIONS</td> <td><input type="checkbox"/> SOFTWARE</td> </tr> <tr> <td><input type="checkbox"/> PERFORMANCE</td> <td><input type="checkbox"/> GROUND OPERATIONS</td> <td><input type="checkbox"/> PAYLOADS</td> </tr> <tr> <td><input type="checkbox"/> RELIABILITY</td> <td><input type="checkbox"/> SIMULATORS & TRAINERS</td> <td><input type="checkbox"/> TURNAROUND</td> </tr> <tr> <td><input type="checkbox"/> ESE</td> <td></td> <td><input type="checkbox"/> OTHER (SPECIFY)</td> </tr> </table>								<input type="checkbox"/> SAFETY	<input type="checkbox"/> FLIGHT OPERATIONS	<input type="checkbox"/> SOFTWARE	<input type="checkbox"/> PERFORMANCE	<input type="checkbox"/> GROUND OPERATIONS	<input type="checkbox"/> PAYLOADS	<input type="checkbox"/> RELIABILITY	<input type="checkbox"/> SIMULATORS & TRAINERS	<input type="checkbox"/> TURNAROUND	<input type="checkbox"/> ESE		<input type="checkbox"/> OTHER (SPECIFY)
<input type="checkbox"/> SAFETY	<input type="checkbox"/> FLIGHT OPERATIONS	<input type="checkbox"/> SOFTWARE																	
<input type="checkbox"/> PERFORMANCE	<input type="checkbox"/> GROUND OPERATIONS	<input type="checkbox"/> PAYLOADS																	
<input type="checkbox"/> RELIABILITY	<input type="checkbox"/> SIMULATORS & TRAINERS	<input type="checkbox"/> TURNAROUND																	
<input type="checkbox"/> ESE		<input type="checkbox"/> OTHER (SPECIFY)																	
		SCHEDULE IMPACT:			COST PER FLIGHT IMPACT:														
COST IMPACT:	FY	FY	FY	FY	REMAINDER	TOTAL													
IMPACT DESCRIPTIONS:																			
IMPACT OF NON INCORPORATION:																			
RECOMMENDATION:																			
CHANGES EVALUATED				APPROVED BY:															
				SIGNATURE _____ DATE _____ SCR B MEMBER															

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NATFC - Form 468 (November 1934)

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SOFTWARE PROBLEM REPORT				SPR NO.	
PROGRAM NAME		DATE		TIME	
SUBSYSTEM					
COMPONENT IDENTIFIER		REV.		TCID	
DISK OR TAPE ID					
ORIGINATOR		ORGANIZATION		LOCATION	
INFORMATION SUPPLIED		<input type="checkbox"/> DUMP <input type="checkbox"/> LINE PRINTER OUTPUT <input type="checkbox"/> POST PROCESSING DATA		<input type="checkbox"/> COMPILER LISTING <input type="checkbox"/> TRANSLATOR OUTPUT <input type="checkbox"/> OTHER SPECIFY	
DESCRIPTION OF PROBLEM					
REVIEWER'S SIGNATURE				DATE	
RESULTS OF INVESTIGATION					
					SCHEDULED DELIVERY
INVESTIGATOR				DATE	
APPROVAL SIGNATURE				DATE	

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SOFTWARE RELEASE NOTICE

SRN / _____

CONFIGURATION	COMPONENT	SUBSYSTEM	ORBITER/TEST CONFIG	DATE
PATCH STATUS _____ PATCHES ONLY _____ ASSEMBLY/COMPILE W/PATCHES _____ ASSEMBLY/COMPILE ONLY			ID	
			DISK _____	
			TAPE _____	
			FLOPPY _____	
PROGRAMMER		DATE	DEPT. MGR.	DATE
VALIDATION		DATE	VALIDATION MGR.	DATE

COMMENTS: