SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Acceptance Test Specification

CLASS

INITIAL RELEASE DATE

A 20 Nov 02

DIVISION DEPARTMENT NO. PRODUCT LINE NO. CONTRACT NO.

TITLE

ACCEPTANCE TEST PROCEDURE SPECIFICATION FOR THE T2CAS TT-950/951/952 COMPUTER UNIT, PART NO. 9000000-10001, 9000000-55001, and 9000000-20001

Proprietary Notice

This document and the information disclosed herein are proprietary data of Aviation Communication & Surveillance Systems, LLC. Neither this document nor the information contained herein shall be reproduced, used, or disclosed to others without the written authorization of Aviation Communication & Surveillance Systems, LLC.

Notice

Freedom of Information Act (5 USC 552) and Disclosure of Confidential Information Generally (18 USC 1905)

This document is being furnished in confidence by Aviation Communication & Surveillance Systems, LLC. The information disclosed herein falls within exemption (b) (4) of 5 USC 552 and the prohibitions of 18 USC 1905.

Copyright 2002 Aviation Communication & Surveillance Systems, LLC.
All Rights Reserved.

AW/CRITICAL NOTATION		
	TITLE PAGE	CR-1
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR
SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

Rev Ltr Coperator limits Test Description Work Steps

ACCEPTANCE TEST PROCEDURE SPECIFICATION FOR THE T2CAS TT-950/951/952 COMPUTER UNIT, PART NO. 9000000-10001, -20001, -55001

1. SCOPE

This acceptance test procedure specification (ATP) establishes the manufacturing and operational requirements that the T2CAS TT-950. TT-951, TT-952 Computer Unit, Part No. 9000000-10001, 9000000-55001, and 9000000-20001 must meet to ensure that the unit is in proper operating condition.

2. REFERENCE DOCUMENTS

2.1 These documents are not required for performance of the test procedure. The purpose of listing these documents is to provide an aid for troubleshooting should any discrepancies occur during the performance of the test procedure.

End Item Drawing - T2CAS 6MCU 9000000-10001 9000000-20001 End Item Drawing – T2CAS 6MCU (with GPS) End Item Drawing - T2CAS 4MCU 9000000-55001 9000001-10001 End Item Drawing – Aircraft Personality Module (APM) 9000027-001 Outline and Installation drawing 9000024-001 W1 Harness Assembly Drawing 9000050-001 W6 Cable Assy 9000038-001 W7 Coax Cbl GPS-Arinc 7517941-901 Power Supply/Interconnect Harness Assembly Drawing 9000005-001 A1 Interconnect CCA drawing 9000010-001 A1 Interconnect CCA drawing A3A1 Spectrum Filter Assembly Drawing 7517923 7517925-902 A2 Processor CCA Drawing 7517925-903 A2 Processor CCA Drawing 9000015-001 A4 Power Supply/Modulator CCA Drawing 7517935-902 A3 Transmitter Drawing 7517935-910 A3/A2 Transmitter CCA Drawing A5 Receiver I/O CCA Drawing 7517945-902 7517945-903 A5 Receiver I/O CCA Drawing 7517945-904 A5 Receiver I/O CCA Drawing 9000020-001 A7 TAWS CCA Drawing 9000025-001 A8 GPS CCA Drawing IT7517900 Integrated test Specification for the TCAS

	AW/CRITICAL NOTATION		
ACSS		SUPPLEMENTS	1
	SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Test No. Operator limits

Test Description

Work Steps

EB7517987

Product Test Software Release Numbers and CRCs

3. **GENERAL INFORMATION**

3.1 General Requirements

All tests shall be performed under the following conditions:

Temperature = 25+/- 5 Deg C

Relative humidity = 95% maximum

Pressure = between 20 and 32 in Hg

4. POWER REQUIREMENTS

- 4.1 115 V ac, 400 =/- 10 Hz, 200 W minimum, voltage variable from 90 to 140 V ac.
- 4.2 28 Vdc, 200 W minimum, voltage variable from 16 to 35 V dc.

5. TEST EQUIPMENT

- 5.1 TCAS 2000 MTS Part No. T336255 Mod B
- Aircraft interface unit Part No. T336253
- RF interface unit Part No. T335254
- PDL panel Part No. T336259
- Tray assembly Part No. T336255-26

5.2 T2CAS PC Test Software - Part No. 9000237

- Identified equipment is included in TCAS 2000 MTS, P/N T336255 Mod B
- 5.3 T2CAS TAWS Card Test Station -
- TAWS Processor Test Fixture Part No. 9000117-001
- Emulator Wind River Vision Ice II
- Power Supplies Part No. 9000118-001
- PC Standard PC running Windows 9x, 2000, or NT
- Cables
- o Part No. 9000288 (APM Cable)
- o Part No. 9000227 (Test Discretes Cable)
- o Part No. 9000289 (RS232 Cable)
- o Part No. 9000290 (PCI Bus Test Adapter)
- LATTICE Part No. pDS4102-DL2 LATTICE adapter cable (connects to parallel port on PC, other end has straight single in-line Berg pin header with pin 5 cut out for keying)

ACSS	AW/CRITICAL NOTATION		
		SUPPLEMENTS	2
	SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR
SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			TIONS.

Rev Ltr Test No. Operator limits Test Description Work Steps

- Software
 - o VisionCLICK Rev. 7.90A from Wind River (used to load IO_FPGA and HBIT files)
 - LATTICE ispVM System Software version 12.0 (used to program CPLD)
- 5.4 T2CAS Miscellaneous Test Equipment
- ATA 8840 Extraction Tool used to extract TAWS CCA from UUT
- TAWS extender CCA Part No. 9000070-001
- EDDIT Tool Part No. 9000286-102 (Software used to verify T2CAS software loads)

6. TEST SETUP

- 6.1 Power up the MTS and allow it to warm up appropriately. Verify that test equipment used is calibrated and functioning properly.
- 6.2 Connect the test equipment to the UUT. Set IEEE-488 addresses as follows (in Hex):

*	Aircraft interface unit (A2 CCA in AIU)	16
*	Aircraft interface unit 2 (A4 CCA in AIU)	17
*	RF interface unit	25
*	HP 8648B signal generator	19
*	Cal instruments AC power supply 2001L	01
*	HP 8990A peak power analyzer	07
*	HP 6032A DC power supply	05
*	HP34970A Data Acquisition Switch Unit	09
*	HP34970A Data Acquisition Switch Unit	10
*	HP34970A Data Acquisition Switch Unit	11
*	HP34970A Data Acquisition Switch Unit	12

7. TEST REQUIREMENTS

- 7.1 Within each section of the test procedure (indicated by an underlined title in the Test description and Work Steps columns) the test steps shall be performed in the order listed. In the event of failure and repair, the section must be performed again from the beginning. It is allowable for the sections requiring user interaction to be grouped together and run in a different order than that specified.
- 7.2 All control settings or external connections that are altered during the course of a section of the procedure shall be returned to their initial settings before starting a new section of the procedure.
- 7.3 This procedure is intended to be performed by a knowledgeable technician or engineer. It is assumed that the equipment will be energized and de-energized as appropriate when changing connections and setups.

ACSS	AW/CRITICAL NOTATION		
		SUPPLEMENTS	3
	SECURITY NOTATION		PAGE
	•	•	•

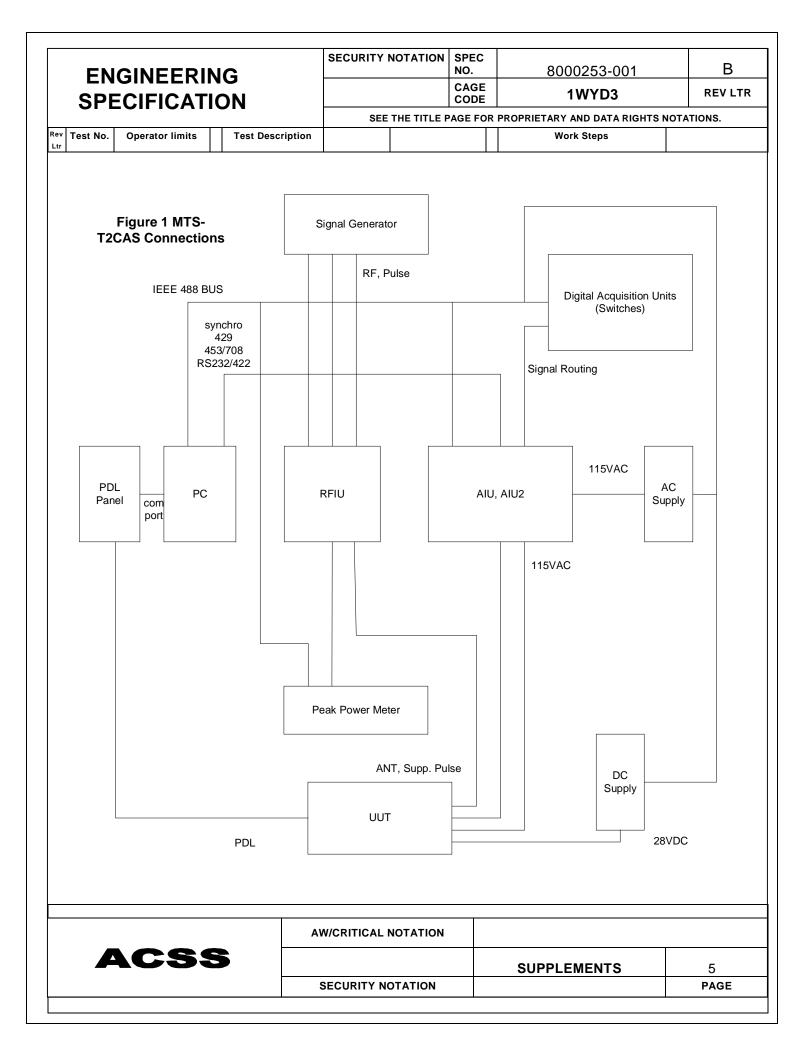
SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

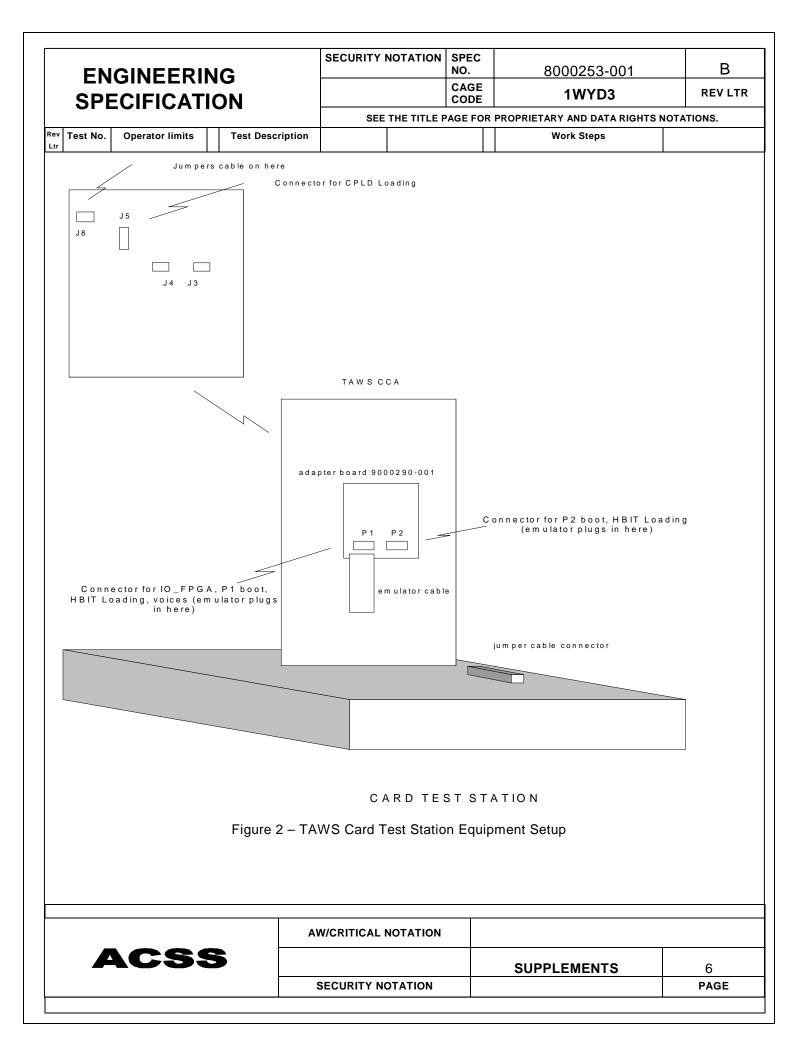
SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Ltr Test No. Operator limits Test Description Work Steps

7.4 For each end item dash number (9000000-10001, 9000000-20001 or 9000000-55001) and minimum hardware mod level, the corresponding CAS PDL part number, SURV PDL part number and FPGA truth table part number are shown in table 7-1.

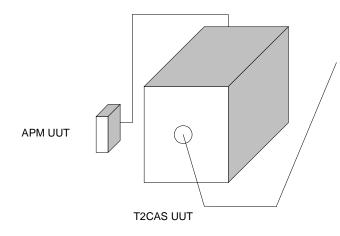
AW/CRITICAL NOTATION		
	SUPPLEMENTS	4
SECURITY NOTATION		PAGE





SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR
SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

Rev Ltr Test No. Operator limits Test Description Work Steps



UUT Connection to MTS

Figure 3 – MTS Test Equipment setup for the APM

Table 7-1. CAS PDL, SURV PDL and FPGA Part Numbers

Dash No.	Minimum	CAS PDL Part	SURV PDL Part	FPGA TT Part
	Hardware Mod	Number	Number	Number
10001	-	PS4084562-102	PS4084562-102	TT7517989-103
20001	-	PS4084562-102	PS4084562-102	TT7517989-103
55001	-	PS4084562-102	PS4084562-102	TT7517989-103

^{7.5} For each end item dash number (9000000-10001, 9000000-20001 or 9000000-550001) and software mod level, the corresponding Operational software part number is shown in Table 7-2.

Table 7-2. Operations Software Part Numbers

Dash No.	Software Mod	Operational Software Part Number	Operational Software Part Number Displayed
10001	-	PS4084561-912	3416-HNP-02B-07
20001	-	PS4084561-912	3416-HNP-02B-07
55001	-	PS4084561-912	3416-HNP-02B-07

ACSS

AW/CRITICAL NOTATION		
	SUPPLEMENTS	7
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Ltr Test No. Operator limits Test Description Work Steps

Table 7-3. Product Test Sofware Release Number and CRCs

Part No.	Product Test Software Release No.	CAS Flash Program Memory CRC	SURV Flash Program Memory CRC
9000000-xxxxx	MT4084684-904	F7C850F6	E1EFC880

Table 7-4. Production End Item Operational Software/Firmware Configuration Table SOFTWARE

F					
Dash No.	Minimum	TCAS BOOT Part	TCAS	TAWS P1 BOOT	TAWS P2 BOOT
	Hardware Mod	Number	OPERATIONAL		
10001	-	PS4084562-102	PS4084561-912	9000278-001	9000279-001
		TT7517989-103			
20001	-	PS4084562-102	PS4084561-912	N/A	N/A
		TT7517989-103			
55001	-	PS4084562-102	PS4084561-912	9000278-001	9000279-001
		TT7517989-103			

Table 7-4. Production End Item Operational Software/Firmware Configuration Table (continued) SOFTWARE

Dash No.	TAWS P1 DATALOAD	TAWS P2 DATALOAD	TAWS P1 OPERATIONAL	TAWS P2 OPERATIONAL
10001	9000276-001	9000277-001	9000274-001	9000275-001
20001	N/A	N/A	N/A	N/A
	-			-
55001	9000276-001	9000277-001	9000274-001	9000275-001

Table 7-4. Production End Item Operational Software/Firmware Configuration Table (continued) FIRMWARE

Dash No.	TAWS CPLD	TAWS FPGA A	TAWS FPGA B
10001	9000230-002	9000231-003	9000232-001
20001	N/A	N/A	N/A
20001	N/A	IN/A	IV/A
55001	9000230-002	9000231-003	9000232-001

AW/CRITICAL NOTATION		
	SUPPLEMENTS	8
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR
SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS			

				_			
Rev Ltr	Test No.	Operator limits	Test Description			Work Steps	

7.6 The following is a description of the intended interpretation of the column headings:

<u>Column</u> <u>Description</u>

Rev Ltr Revision letters are used to identify revised material.

Test No. Tests are numbered in sequence.

Opr Limits Unit under test (UUT) shall meet these limits when tested at other than the

manufacturing facility. When an item is marked OPTIONAL, the corresponding test is

not required except as an aid in troubleshooting.

Test Description These items are the parameters to which the UUT was designed and aid in

troubleshooting by specifying the input and output signal terminals. All conditions required are not repeated for each test, and conditions established in previous test

also supply.

Switch Pos Positions to which switches must be set are listed in required order and are grouped

to correspond to applicable Work Steps.

Work Steps This column defines the operations necessary to perorm a test and achieve a result

set switches to designated positions before performing a corresponding work step.

Mfg Limits UUT shall meet these limits at final buyoff before customer delivery.

7.7 Naming Convention for Integrated Test Specification works steps:

<u>Equipment</u> <u>Reference Name</u> <u>Descriptions</u>

T336253 Aircraft Interface Unit AIU Precedes instructions sent via the IEEE 488 to the

AIU as specified

T336254 Radio Frequency Interface Unit RFIU Precedes instructions sent via the IEEE 488 to the

AIU as specified

T336259 Program Data Link Unit PDL Precedes instructions to use inputs/outputs on the

Program Data Loader panel.

T336255 Manual Test Station MTS Precedes instructions to make measurements or

manual changes on the Station.

Personal Computer PC Precedes instructions to use the personal computer

keyboard input.

Personal Computer Monitor CRT Precedes instructions to view a value on the personal

Computer video screen or evaluate a return from the

UUT.

Unit Under Test UUT1 Precedes instructions sent to the Unit Under Test via

RS-422.

Unit Under Test UUT2 Precedes instructions sent to the Unit Under Test via

ARINC-429

+28VDC Power Supply PSDC Precedes instructions sent to DC power supply via

IEEE 488Bus.

AW/CRITICAL NOTATION		
	SUPPLEMENTS	9
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Test No. Operator limits Test Description Work Steps

115 VAC 400 HZ Supply

PSAC Precedes instructions sent to AC power supply via IEEE 488Bus.

7.8 The T2CAS Computer Unit shall be tested using product test software as specified in Table 7-3 for the TCAS portion of the UUT and the product test software as specified in this document for the TAWS portion of the UUT. Instructions for loading the TAWS product test software appear in this document in the test steps using the TAWS extender card, UUT, and the MTS. Instructions for loading the TCAS product test software and operational software are given in Appendix A.

AW/CRITICAL NOTATION		
	SUPPLEMENTS	10
SECURITY NOTATION		PAGE

Ltr

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

L			SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.					
I	Rev Test No.	Operator limits	Test Description				Work Steps	

1.0 Load Firmware into CPLD on TAWS CCA -

Click on the shortcut icon (9000237) on the desktop.

Log in with employee number and password

Load CLPD on TAWS CCA using Lattice Software on the MTS using the following steps:

Insert CPLD CDROM (P/N 9100003-001) into MTS PC CDROM drive.

Make sure UUT power is off on the MTS.

Install TAWS CCA into extender card on UUT. Make sure jumpers/straps are installed on J8 on CCA.

Connect cable (cable with straight single in-line Berg pin header with pin 5 cut out for keying) to J5 on CCA (J5 is located in center of CCA)

Open Lattice (ispSystem).

Get the file to be programmed (CPLD software P/N 9000230-002). This file is located on CDROM (P/N 9100003-001) (file name 9000230 002.jed, scan chain file is 9000230 002.xcf).

Power-up the UUT by selecting ADL.

Wait until Files to Upload ... window opens.

Click on GO to download the file into the CPLD.

After the download is complete, power-down the UUT by clicking CANCEL on Files to Upload... window, then click on OK.

Unplug J5.

2.0 Load IO FPGA software into TAWS CCA

Load IO_FPGA software into TAWS CCA on the MTS using the following steps:

Insert IO_FPGA CDROM (P/N 9100003-001) into emulator PC CDROM drive.

Make sure UUT power is off on the MTS.

Install TAWS CCA into extender card on UUT. Make sure jumpers/straps are installed on J8 on CCA.

Connect emulator cable (cable labeled with powerpc dual-in-line connector) to **P1** using adapter board as shown in Figure 2.

Power-up the emulator (switch is on rear). There should be a blinking light (debug) on the front of the emulator box when the emulator is ready.

On the emulator PC: Open program visionClick (system) Vision Software II\ and Vision 7.0. Make sure the IP address listed matches the IP address marked on the emulator box.

Power-up the UUT by selecting ADL.

Wait until Files to Upload ... window opens.

Click on Reset (in the VisionSoftware window). The system sould respond with >BKM in the terminal network window.

Open the TF Flash Program Window.

Load IO_FPGA software into TAWS CCA on the MTS by selecting (SELECT) the path where the software P/N 9000231-003 resides on CDROM (P/N 9100003-001) (file name IO-BLD10.FGA).

SET the Bias to 7FB00000; OK;

Enter the erase and program range:

	AW/CRITICAL NOTATION		
ACSS		SUPPLEMENTS	11
	SECURITY NOTATION		PAGE
	•		

SECURITY NOTATION	SPEC NO.	8000253-001	В			
	CAGE CODE	1WYD3	REV LTR			

				JLL	THE THEE PAGE FO	'n	FROFRIETART AND DATA RIGHTS IN	IOTATIONS.
Rev	Test No	Operator limits	Test Description				Work Stens	

SET 7FB00000 to 7FCFFFFF; select Erase to 0x; and then click; Erase and program (see readme file for details on loading in its folder.

Look for Complete. Click OK.

Close TF FLASH PROGRAMMING Window.

Click: RESET

Response: >BKM in the terminal network window

After the download is complete, power-down the UUT by clicking CANCEL on Files to Upload... window, then click on OK.

3.0 Load HBIT P1 processor boot software into TAWS CCA

Load HBIT P1 boot software into TAWS CCA on the MTS using the following steps:

Insert HBIT CDROM (P/N 9100002-001) into emulator PC CDROM drive.

Make sure UUT power is off on the MTS.

Install TAWS CCA into extender card on UUT. Make sure jumpers/straps are installed on J8 on CCA.

Connect emulator cable (cable labeled with powerpc dual-in-line connector) to **P1** using adapter board as shown in Figure 2.

Power-up the emulator (switch is on rear).

There should be a blinking light (debug) on the front of the emulator box when the emulator is ready.

On the emulator PC: Open program visionClick: (system) VisionSoftware II \ and vision 7.0

Make sure the IP address listed matches the IP address marked on the emulator box.

Power-up the UUT by selecting ADL.

Wait until Files to Upload ... window opens.

Click on Reset (in the VisionSoftware window). The system should respond with >BKM in the terminal network window.

Open TF Flash Program Window.

Load HBIT for P1 by selecting (SELECT) the path where the software P/N 9000229-002 002 resides on CDROM (P/N 9100002-001) (file name hbit_p1.bin).

SET the Bias to -80000000: OK:

Enter the erase and program range SET 7FF00000 to 7FFFFFFF;

Select erase to 0x;

Click Erase and program (see readme file for details on loading in its folder).

Look for Complete. Click OK.

Close TF FLASH PROGRAMMING Window.

Click: RESET

Response: >BKM in the terminal network window.

After the download is complete, power-down the UUT by clicking CANCEL on Files to Upload... window, then click on OK.

4.0 Load P1 mini Data Loader software into TAWS CCA

	AW/CRITICAL NOTATION		
ACSS		SUPPLEMENTS	12
	SECURITY NOTATION		PAGE

Operator limits

Rev Test No.

SECURITY NOTATION	SPEC NO.	8000253-001	В			
	CAGE CODE	1WYD3	REV LTR			
SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.						

Work Steps

Load P1 mini Data Loader software into TAWS CCA on the MTS using the following steps:

Insert HBIT CDROM (P/N 9100002-001) into emulator PC CDROM drive.

Test Description

Make sure UUT power is off on the MTS.

Install TAWS CCA into extender card on UUT. Make sure jumpers/straps are installed on J8 on CCA.

Connect emulator cable (cable labeled with powerpc dual-in-line connector) to **P1** using adapter board as shown in Figure 2.

Power-up the emulator (switch is on rear).

There should be a blinking light (debug) on the front of the emulator box when the emulator is ready.

On the emulator PC: Open program visionClick: (system) VisionSoftware II \ and vision 7.0

Make sure the IP address listed matches the IP address marked on the emulator box.

Power-up the UUT by selecting ADL on the menu bar.

Wait until Files to Upload ... window opens.

Click on Reset (in the VisionSoftware window). The system should respond with >BKM in the terminal network window.

Open TF Flash Program Window.

Load P1 Mini Data Loader by selecting (SELECT) the path where the software P/N 9000229-002 resides on the CDROM (P/N 9100002-001) (filename dl_p1.bin).

SET the Bias to 7F800000: OK;

Enter the erase and program range SET 7F800000 to 7FAFFFFF;

Select erase to 0x;

Click Erase and program (see readme file for details on loading in its folder).

Look for Complete. Click OK.

Close TF FLASH PROGRAMMING Window.

Click: RESET

Response: >BKM in the terminal network window.

After the download is complete, power-down the UUT by clicking CANCEL on Files to Upload... window, then click OK.

5.0 Load Voices software into TAWS CCA

Load Voice software into TAWS CCA on the MTS using the following steps:

Insert HBIT CDROM (P/N 9100002-001) into the emulator PC CDROM drive.

Make sure UUT power is off on the MTS.

Install TAWS CCA into extender card on UUT. Make sure jumpers/straps are installed on J8 on CCA.

Connect emulator cable (cable labeled with powerpc dual-in-line connector) to **P1** using adapter board as shown in Figure 2.

Power-up the emulator (switch is on rear).

There should be a blinking light (debug) on the front of the emulator box when the emulator is ready.

On the emulator PC: Open program visionClick: (system) VisionSoftware II \ and vision 7.0

Make sure the IP address listed matches the IP address marked on the emulator box.

	AW/CRITICAL NOTATION		
ACSS		SUPPLEMENTS	13
	SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

		SEE	THE TITLE PAGE FO	ĸ	PROPRIETARY AND DATA RIGHTS N	IOTATIONS.	
Rev Ltr Test No.	Operator limits	Test Description				Work Steps	

Power-up the UUT by selecting ADL.

Wait until Files to Upload ... window opens.

Click on Reset (in the VisionSoftware window). The system should respond with >BKM in the terminal network window.

Open TF Flash Program Window.Load Voice software into TAWS CCA on the card test station by selecting (SELECT) the path where software P/N 9000229-002 resides on CDROM (P/N 9100002-001) (file name phrase.bin).

SET the Bias to 0; OK;

Enter the erase and program SET 78000000 to 781FFFFF.

Select erase to 0x.

Click erase and program (see readme file for details on loading in its folder).

Look for Complete. Click OK.

Close TF FLASH PROGRAMMING Window.

Click: RESET

Response: >BKM in the terminal network window.

After the download is complete, power-down the UUT by clicking CANCEL on Files to Upload... window, then click on OK.

6.0 Load HBIT P2 processor boot software into TAWS CCA

Load HBIT P2 boot software into TAWS CCA on the MTS using the following steps:

Insert HBIT CDROM (P/N 9100002-001) into the emulator PC CDROM drive.

Make sure UUT power is off on the MTS.

Install TAWS CCA into extender card on UUT. Make sure jumpers/straps are installed on J8 on CCA.

Connect emulator cable (cable labeled with powerpc dual-in-line connector) to **P2** using adapter board as shown in Figure 2.

Power-up the emulator (switch is on rear).

There should be a blinking light (debug) on the front of the emulator box when the emulator is ready.

On the emulator PC: Open program visionClick: (system) VisionSoftware II \ and vision 7.0

Make sure the IP address listed matches the IP address marked on the emulator box.

Power-up the UUT by selecting ADL.

Wait until Files to Upload ... window opens.

Click on Reset (in the VisionSoftware window). The system should respond with >BKM in the terminal network window.

Open TF Flash Program Window.

Load HBIT for P2 by selecting (SELECT) the path where the software P/N 9000229-002 resides on the CDROM (P/N 9100002-001) (file name hbit p2.bin).

SET the Bias to -80000000: OK;

Enter the erase and program range SET 7FF00000 to 7FFFFFFF;

Select erase to 0x:

Click Erase and program (see readme file for details on loading in its folder).

	AW/CRITICAL NOTATION		
ACSS		SUPPLEMENTS	14
	SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

				SEE	THE TITLE PAGE FO	ĸ	PROPRIETARY AND DATA RIGHTS NO	TATIONS.	
Re Lt	Test No.	Operator limits		Test Description				Work Steps	

Look for Complete. Click OK.

Close TF FLASH PROGRAMMING Window.

Click: RESET

Response: >BKM in the terminal network window.

After the download is complete, power-down the UUT by clicking CANCEL on Files to Upload... window, then

click OK.

7.0 Load P2 mini Data Loader software into TAWS CCA

Load P2 mini Data Loader software into TAWS CCA on the MTS using the following steps:

Insert HBIT CDROM (P/N 9100002-001) into the emulator PC CDROM drive.

Make sure UUT power is off on the MTS.

Install TAWS CCA into extender card on UUT. Make sure jumpers/straps are installed on J8 on CCA.

Connect emulator cable (cable labeled with powerpc dual-in-line connector) to **P2** using adapter board as shown in Figure 2.

Power-up the emulator (switch is on rear).

There should be a blinking light (debug) on the front of the emulator box when the emulator is ready.

On the emulator PC: Open program visionClick: (system) VisionSoftware II \ and vision 7.0

Make sure the IP address listed matches the IP address marked on the emulator box.

Power-up the UUT by selecting ADL.

Wait until Files to Upload ... window opens.

Click on Reset (in the VisionSoftware window). The system should respond with >BKM in the terminal network window.

Open TF Flash Program Window.

Load P2 mini Data Loader by selecting (SELECT) the path where the software P/N 9000229-002 resides on the CDROM (P/N 9100002-001) (file name dl p2.bin).

SET the Bias to 7FC00000: OK;

Enter the erase and program range SET 7FC00000 to 7FEFFFFF;

Select erase to 0x:

Click Erase and program (see readme file for details on loading in its folder).

Look for Complete. Click OK.

Close TF FLASH PROGRAMMING Window.

Click: RESET

Response: >BKM in the terminal network window.

After the download is complete, power-down the UUT by clicking CANCEL on Files to Upload... window, then click on OK.

Remove jumpers from J8 on TAWS CCA

Remove TAWS CCA from extender card.

Remove extender card from UUT.

Install TAWS CCA in UUT.

	AW/CRITICAL NOTATION		
ACSS		SUPPLEMENTS	15
	SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Ltr Test No. Operator limits Test Description Work Steps

AW/CRITICAL NOTATION		
	SUPPLEMENTS	16
SECURITY NOTATION		PAGE

ENGINEERING SPECIFICATION Rev | Test No. | Operator limits | Test Description

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Work Steps

Test UUT using MTS.	Test the UUT on the MTS using the following steps.
	MTS: Insert UUT into mount. Connect APM to 9 pin connector attached to ARINC600 connector on MTS tray as shown in Figure 3.
	MTS: Connect cable to UUT PDL front connector as shown in Figure 3.
	Make sure Compact Flash card is installed in T2CAS UUT.
	On the desktop, click on the shortcut icon for the 9000237 software.
	Log in with employee number and password
	Go to File, Select, Open
	Select sequence file 9000237.squ
	Load bench test software (Product Test Software) using the instructions in Appendix A.
	Click on Test UUT. Enter UUT information
	Select UUT Part number from Menu selection
	(9000000-10001, -20001, or -55001)
	Select Final as test type
	Select ATP Revision letter as B

AW/CRITICAL NOTATION		
	SUPPLEMENTS	16
SECURITY NOTATION		PAGE

SECURITY NOTATION | SPEC В 8000253-001 **ENGINEERING** CAGE **REV LTR 1WYD3 SPECIFICATION** CODE SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS. Rev Test No. Work Steps **Operator limits Test Description** Ltr Enter Employee number. Enter the APM Serial Number, enter the APM Hardware Mod, and select the APM part number (9000001-10001). Click on OK. Test will begin to run. Follow operator prompts and enter the appropriate information.

AW/CRITICAL NOTATION		
	SUPPLEMENTS	17
SECURITY NOTATION		PAGE

SECURITY NOTATION | SPEC В 8000253-001 **ENGINEERING** CAGE **REV LTR 1WYD3 SPECIFICATION** CODE SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS. Rev Test No. Work Steps **Operator limits Test Description** 1 thru TCAS tests TCAS test procedure and 38 limits are as given in document IT7517900 tests 1 through 39.2 except for the test numbers listed below. Test numbers 1.4,through 1.11, 1.13, 3.1, 6.7, 6.8, 6.12, 8.21, and 10.3 are perfomed as described in this document, not in IT7517900. Where EB7517987 is referenced, use the Software Release numbers and CRC's given in table 7-3 instead. Test not performed on 1.4 T2CAS thru 1.11, and 1.13 **AW/CRITICAL NOTATION** ACSS **SUPPLEMENTS** 18 **SECURITY NOTATION** PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

				SEE	THE TITLE PAGE FO)R I	PROP	RIETARY AND DATA RIGHTS N	IOTATIONS.
Rev Ltr		Operator limits	Test Description					Work Steps	
	3.1		Verify that the L turned on and of according to the repetitive seque approximately 1 per item:	f following nce, second			turn acco repe app per	ify that the LEDs are ed on and off ording to the following etitive sequence, roximately 1 second item:	PASS
			1. All LEDs on.					All LEDs on.	
			2. Only TCAS				2.	Only TCAS PASS on.	
			3. Only TCAS	FAIL on.			3.	Only TCAS FAIL on.	
			4. Only TA DIS	P on.			4.	Only TA DISP on.	
			5. Only RA DIS					Only RA DISP on.	
			6. Only RAD A					Only RAD ALT on.	
			7. Only XPDR					Only XPDR BUS on.	
			8. Only TOP A	NT on.			8.	Only TOP ANT on.	
			9. Only BOT A	NT on.				Only BOT ANT on.	
			All LEDs off.				AII I	_EDs off.	
	6.7	0010 0010 1010 1100	Apply a ground of following "WOR discrete inputs. P1E-10C P1E-10E P1F-7E P1F-8F P1F-8H P1F-8K P1E-10A Leave the remain discretes open.	D 3"	AIU: AA		The	IDW3 shall read:	0010 0010 1010 1100
			Verify the inputs correctly read by processor.						

AW/CRITICAL NOTATION		
	SUPPLEMENTS	19
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

				SEE	THE TITLE PAGE FO	R	PROPRIETARY AND DATA RIGHT	S NOTATIONS.
ev tr	Test No.	Operator limits	Test Description				Work Steps	
1	6.8	1101 0001	Apply a ground t	to the	AIU:		The IDW3 shall read:	1101 0001
		0101 0011	following "WORI discrete inputs:	D 3"	Set P3X to 55			0101 0011
			P1E-12A P1E-10D P1E-10F P1F-7F P1F-8G P1F-6D					
			P1F-8J					
			P1E-10B					
			P1E-12C					
			Verify the inputs correctly read by processor.	the CAS				
	6.12	0101 0101 1010 1000	Apply a ground t following "WORI discrete inputs:	o the D 5"	AIU: Set P3X to 55		The IDW5 shall read:	0101 0101 1010 1000
			P1E-11C					
			P1E-11A					
			P1E-10J					
			P1E-10G					
			P1E-12K					
			P1E-12H					
			P1E-12D					
			P1E-12F					
			Leave the remai discretes open.	ning				
			Verify the inputs correctly read by processor.	are the CAS				

AW/CRITICAL NOTATION		
	SUPPLEMENTS	20
SECURITY NOTATION		PAGE

 SECURITY NOTATION NO.
 SPEC NO.
 8000253-001
 B

 CAGE CODE
 1WYD3
 REV LTR

	SPI	ECIFICATI	ON		COL	DE	1 W 1 D 3	KEVEIK
	O			SEE	THE TITLE PAGE	FOR	PROPRIETARY AND DATA RIGHTS N	NOTATIONS.
Rev Ltr	Test No.	Operator limits	Test Description				Work Steps	
	8.21	VVVV	Transmit D5555 TA/RA DISP #1 7C/D) and (P2-3 to high speed of and verify the direceived by the HDG/ATT bus (I) 7A/B), ALTITUD (P1E-8C/D).	bus (P1E- 33/34) set peration ata is MAG P1E-	UUT1: "AX 2 0360 H AA D5555555"	1	The PC display shall read:	VVVV
	10.3	123 to 133 uS	Generate a Mod test RF wrap tes suppression pul- enabled and ver suppression bus width on P1C-12 +/- 5 uS	st with the se rify the s pulse	UUT1: "RXMSRFS 1000"		PPM: Using a x10 probe connect the oscilloscope channel 3 to AIU J7 (SUPPRESSION) The pulse width shall be as specified.	123 to 133 uS
	49.0		Voice Test				VOICE TEST	
			 					
	49.1		TAWS Voice Te Generate voices verify they are of recognizable	s and	AIU PANEL Set Speaker switch to ON Remove 8 Ohm 10W resistor across 8 Ohm output		TAWS VOICE TEST Type on PC: SAY 31 128 Verify that the following phrase is output: "Don't Sink, Don't Sink"	Voice is correct and recognizable.
	49.20	9000229-004	HBIT P/N Test				CRT reads:	9000229-004
	49.21	9000231-003	FPGA I/O P/N to	est			CRT reads:	9000231-003
	49.23	9000230-002	CPLD P/N test				CRT reads:	900230-002
	49.24	9000001- 10001	APM P/N test				CRT reads:	9000001- 10001
	49.25		APM S/N test				CRT reads:	Actual APM S/N

50.0

Discrete Inputs

AW/CRITICAL NOTATION		
	SUPPLEMENTS	21
SECURITY NOTATION		PAGE

DISCRETE INPUT TESTS

 SECURITY NOTATION NO.
 SPEC NO.
 8000253-001
 B

 CAGE CODE
 1WYD3
 REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTA	IONS

Rev	Test No.	Operator limits	Test Description	SEE THE TITLE PAGE FOR	PROPRIETARY AND DATA RIGHTS I Work Steps	NOTATIONS.
Ltr	50.1	000000000000000000000000000000000000000	TAWS Push to T Switch	est	TAWS PUSH TO TEST SWITCH TEST UUT:Depress & hold the front panel test switch. Release the switch when CRT shall read:	000000000000000000000000000000000000000
	50.2	000000000000 0000000000000 00000001	Discrete Input #2	2	CRT shall read:	00000000000 000000000000 00000001
	50.3	000000000000 0000000000000 00000010	Discrete Input #3	3	CRT shall read:	000000000000 00000000000000 00000010
	50.4	000000000000 0000000000000 00000100	Discrete Input #4	4	CRT shall read:	00000000000 00000000000000 00000100
	50.5	00000000000 0000000000000 00001000	Discrete Input #5	5	CRT shall read:	00000000000 00000000000000 00001000
	50.6	00000000000 0000000000000 00010000	Discrete Input #6	5	CRT shall read:	00000000000 00000000000000 00010000
	50.7	00000000000 0000000000000 00100000	Discrete Input #7	7	CRT shall read:	00000000000 00000000000000 00100000
	50.8	000000000000 0000000000000 01000000	Discrete Input #8	3	CRT shall read:	00000000000 00000000000000 01000000
	50.9	000000000000 0000000000000 10000000	Discrete Input #9)	CRT shall read:	000000000000 00000000000000 10000000
	50.10	000000000000 0000000000001 00000000	Discrete Input #7	10	CRT shall read:	000000000000 0000000000000001 000000000
	50.11	000000000000 0000000000010 00000000	Discrete Input #7	11	CRT shall read:	00000000000 00000000000000000000000000
	50.12	000100000000 0000000000000 00000000	Discrete Input R	ad/Alt 3	CRT shall read:	00010000000 000000000000 00000000

AW/CRITICAL NOTATION		
	SUPPLEMENTS	22
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

Rev Ltr	Test No.	Operator limits	Test Description		Work Steps	
	50.13	000000000000 000100000000 00000000	Discrete Input #	14	CRT shall read:	00000000000 000100000000 00000000
	50.14	00000000000 001000000000 0000000	Discrete Input #	15	CRT shall read:	00000000000 001000000000 00000000
	50.15	000000000000 010000000000 00000000	Discrete Input #	16	CRT shall read:	00000000000 01000000000 0000000
	50.16	000000000001 0000000000000 00000000	Discrete Input #	17	CRT shall read:	00000000001 00000000000 00000000
	50.17	000000000010 00000000000000 00000000	Discrete Input #	18	CRT shall read:	00000000010 00000000000 00000000
	50.18	00000000100 00000000000000 00000000	Discrete Input #	19	CRT shall read:	00000000100 00000000000 00000000
	50.19	00000010000 00000000000000 00000000	Discrete Input #	20	CRT shall read:	00000010000 00000000000 00000000
	50.20	000000100000 0000000000000 00000000	Discrete Input R	RAD #1	CRT shall read:	000000100000 00000000000 00000000
	50.21	000001000000 0000000000000 00000000	Discrete Input R	AD #2	CRT shall read:	000001000000 000000000000 00000000
	50.22	01000000000 000000000000 00000000	Discrete Input #	1	CRT shall read:	01000000000 00000000000 00000000
	50.23	00000000000 000000100000 00000000	Discrete Input #	12	CRT shall read:	00000000000 00000100000 00000000
	50.24	00000000000 000001000000 00000000	Discrete Input #	13	CRT shall read:	00000000000 000001000000 00000000
	50.25	000000000000 00000000000000 00000000	Over current Fla	ag	CRT shall read:	00000000000 00000000000 0000000

AW/CRITICAL NOTATION		
	SUPPLEMENTS	23
SECURITY NOTATION		PAGE

 SECURITY NOTATION NO.
 SPEC NO.
 8000253-001
 B

 CAGE CODE
 1WYD3
 REV LTR

SEE THE TITLE PAGE FOR	DDODDIETADY	AND DATA DICUT	SHOTATIONS
SEE LUE HILLE PAGE FUR	PRUPRIETART	AND DATA KIGHT	S NUTATIONS.

ev Test No.	Operator limits	Test Description			Work Steps	
50.26	101110101110 100010001111 11111111	ALL Ground/Op Discretes	en	CI	RT shall read:	101110101110 100010001111 11111111
50.27	00000000000 0000000000000 0000000	GND/Open Disc #1	rete Input	CI	RT shall read:	000000000000000000000000000000000000000
50.28	00000000000 000000000000 0000000	GND/Open Disc #2	rete Input	CI	RT shall read:	000000000000 0000000000000000000000000
50.29	00000000000 000000000000 0000000	GND/Open Disc #3	rete Input	CI	RT shall read:	000000000000 0000000000000000000000000
50.30	00000000000 000000000000 0000000	GND/Open Disc #4	rete Input	CI	RT shall read:	00000000000 00000000000 0000000
50.31	00000000000 00000000000000 00000000	GND/Open Disc #5	rete Input	CI	RT shall read:	000000000000000000000000000000000000000
50.32	00000000000 00000000000000 00000000	GND/Open Disc #6	rete Input	CI	RT shall read:	000000000000000000000000000000000000000
50.33	00000000000 00000000000000 00000000	GND/Open Disc #7	rete Input	CI	RT shall read:	00000000000000000000000000000000000000
50.34	00000000000 00000000000000 00000000	GND/Open Disc #8	rete Input	CI	RT shall read:	000000000000000000000000000000000000000
50.35	00000000000 00000000000000 00000000	GND/Open Disc #9	rete Input	CI	RT shall read:	000000000000000000000000000000000000000
50.36	00000000000 00000000000000 00000000	GND/Open Disc #10	rete Input	CI	RT shall read:	000000000000000000000000000000000000000
50.37	00000000000 00000000000000 00000000	GND/Open Disc #11	rete Input	CI	RT shall read:	000000000000000000000000000000000000000
50.38	00000000000 00000000000000 00000000	GND/Open Disc #12	rete Input	CI	RT shall read:	000000000000000000000000000000000000000

AW/CRITICAL NOTATION		
	SUPPLEMENTS	24
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Ltr	Test No.	Operator limits	Test Description		Work Steps	
	50.39	00000000000 000000000000000 00000000	GND/Open Disci #13	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.40	00000000000 000000000000 0000000	GND/Open Disc #14	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.41	000000000000 0000000000000 0000000	GND/Open Disc #15	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.42	00000000000 00000000000000 00000000	GND/Open Disc #16	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.43	00000000000 0000000000000 00000000	GND/Open Disci	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.44	00000000000 00000000000000 00000000	GND/Open Disc #18	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.45	00000000000 00000000000000 00000000	GND/Open Disci	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.46	00000000000 00000000000000 00000000	GND/Open Disc #20	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.47	00000000000 00000000000000 00000000	GND/Open Disc #21	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.48	00000000000 00000000000000 00000000	GND/Open Disc #22	rete Input	CRT shall read:	000000000000000000000000000000000000000
	50.49	Removed	GND/Open Disci GPS	rete Input	CRT shall read:	
	50.50	011000000000 00000000000000 10001000	Discretes all OP	EN	CRT shall read:	011000000000 0000000000000000 10001000
	50.52	001000000000 0000000000000 00000000	TAWS Switch Not pressed	ormal:	TAWS Switch Normal: Not pressed	001000000000 0000000000000000000000000

AW/CRITICAL NOTATION		
	SUPPLEMENTS	25
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

			SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.				
Rev Ltr	Test No.	Operator limits	Test Description			Work Steps	
	50.53	00000000000 0000000000000 00000000	Landing Gear D Input	iscrete		CRT shall read:	00000000000 00000000000000000000000000
	50.54	00000000000 000000000000 00000000	00000		CRT shall read:		00000000000 00000000000000 00000000
	50.55	00000000000 000000000000 00000100	Air/Ground Disc	rete Input		CRT shall read:	00000000000 000000000000 00000100
	50.56	00000000000 0000000000000 00000001	PDL Link A Disc	crete Input		CRT shall read:	00000000000 0000000000000 00000001
	50.57	00000000000 000000000000 00000000	PDL Link A Disc	crete Input		CRT shall read:	00000000000 00000000000000 00000000
	50.58	00000000000 000000000000 00001000	Landing Gear D Input	iscrete		CRT shall read:	00000000000 000000000000 00001000
	51.0		Discrete Output	<u>S</u>	Initial Setup per figure 1	DISCRETE OUTPUTS TESTS	

AW/CRITICAL NOTATION		
	SUPPLEMENTS	26
SECURITY NOTATION		PAGE

SECURITY NOTATION | SPEC 8000253-001 В CAGE CODE 1WYD3 **REV LTR**

			SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			
Test No	o. Operator limits	Test Description			Work Steps	
51.1	PASS	TAWS Panel LE Verify that the L turned on and of according to the repetitive seque approximately 1 per item: All LEDs off Only TAWS P/F orange Only TAWS P/F green All LEDs off Only TAWS I/O All LEDs off Only TAWS API All LEDs off Only TAWS API All LEDs off Only TAWS API All LEDs off Only XPER In P green All LEDs off Only C/F Load S orange Only C/F Load S green All LEDs off	EDs are ff following nce second Status Status Status Fail red M Fail red rocess Status red Status	that on the sectors of the sectors o	ly TAWS P/F Status nge ly TAWS P/F Status en LEDs off ly TAWS I/O Fail red LEDs off ly TAWS APM Fail red LEDs off ly XPER In Process en LEDs off ly C/F Load Status red ly C/F Load Status nge ly C/F Load Status	PASS
51.2	FF3F00XX	Discrete Output	ALL	CR	T shall read:	FF3F00XX
51.3	FE3F00XX	Discrete Output	#1	CR	T shall read:	FE3F00XX
51.4	FD3F00XX	Discrete Output	#2	CR	T shall read:	FD3F00XX
51.5	FB3F00XX	Discrete Output	#3	CR	T shall read:	FB3F00XX
51.6	F73F00XX	Discrete Output	#4	CR	T shall read:	F73F00XX
51.7	EF3F00XX	Discrete Output	#5	CR	T shall read:	EF3F00XX

AW/CRITICAL NOTATION		
	SUPPLEMENTS	27
SECURITY NOTATION		PAGE

 SECURITY NOTATION NO.
 SPEC NO.
 8000253-001
 B

 CAGE CODE
 1WYD3
 REV LTR

ev tr	Test No.	Operator limits	Test Description			Work Steps	
	51.8	DF3F00XX	Discrete Output	#6		CRT shall read:	DF3F00XX
	51.9	BF3F00XX	Discrete Output	#7		CRT shall read:	BF3F00XX
	51.10	7F3F00XX	Discrete Output	#8		CRT shall read:	7F3F00XX
	51.11	FF3E00XX	Discrete Output	#9		CRT shall read:	FF3E00XX
	51.12	FF3D00XX	Discrete Output	#10		CRT shall read:	FF3D00XX
	51.13	FF3B00XX	Discrete Output	#11		CRT shall read:	FF3B00XX
	51.14	FF3700XX	Discrete Output	#12		CRT shall read:	FF3700XX
	51.15	FF2F00XX	Discrete Output	#13 L		CRT shall read:	FF2F00XX
	51.16	Removed					
	51.17	Removed	Discrete Output	GPS		CRT shall read:	
	51.18	Removed					
	51.19	FF3F00XX	TCAS Installed			CRT shall read:	FF3F00XX
	51.20	002000XX	Discrete out all	<u>low</u>		CRT shall read:	002000XX
	51.21	0000 0000 0000 0000 0000 0000 0000 0000	Discrete wrap w	ord 0		CRT shall read:	0000 0000 0000 0000 0000 0000 0000 0000
	51.22	0000 0000 0000 0000 0000 0000 0000 0000	Discrete wrap w	ord 1		CRT shall read:	0000 0000 0000 0000 0000 0000 0000 0000
	51.23	1000 1000 1000 1000 1000 1000 1000 1000	Discrete wrap w	ord 0		CRT shall read:	1000 1000 1000 1000 1000 1000 1000 1000
	51.24	0000 0000 0000 1000 1000 1000 1000 1000	Discrete wrap w	ord 1		CRT shall read:	0000 0000 0000 1000 1000 1000 1000 1000
	52.0		ARINC 429 Rec Input Busses	<u>eiver</u>	Initial Setup per figure 1	ARINC 429 RECEIVINPUT TESTS	<u>VER</u>
	52.1	F77777EE E6666666 D555555AA C4444422 B333333CC A2222244	ARINC 429 Rec Low Speed	eiver #1		CRT shall read:	F77777EE E6666666 D55555AA C4444422 B33333CC A2222244

AW/CRITICAL NOTATION		
	SUPPLEMENTS	28
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE	1WYD3	REV LTR

Test No.	Operator limits	Test Description			Work Steps	
52.2	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE	ARINC 429 Red High Speed	ceiver #1	CR ⁻	Γ shall read:	4CCCC33 3BBBBBDD 2AAAA55 1999999 08888811 F77777EE
52.3	E6666666 D55555AA C4444422 B333333CC A2222244 91111188	ARINC 429 Red Low Speed	ceiver #2	CR ⁻	Γ shall read:	E6666666 D55555AA C4444422 B33333CC A2222244 91111188
52.4	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE	ARINC 429 Red High Speed	eiver #2	CR	Γ shall read:	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE
52.5	E6666666 D55555AA C4444422 B333333CC A2222244 91111188	ARINC 429 Red Low Speed	eiver #3	CR ⁻	Γ shall read:	E6666666 D55555AA C4444422 B33333CC A2222244 91111188
52.6	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE	ARINC 429 Red High Speed	eiver #3	CR ⁻	Γ shall read:	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE
52.7	E66655AA D5556666 C44433CC B3334422 A2221188 91112244	ARINC 429 Red Low Speed	eiver #4	CR ⁻	Γ shall read:	E66655AA D5556666 C44433CC B3334422 A2221188 91112244
52.8	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188	ARINC 429 Red High Speed	eiver #4	CR ⁻	Γ shall read:	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188

AW/CRITICAL NOTATION		
	SUPPLEMENTS	29
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

			SEE THE TITL	PAGE FOR PROPE	RIETARY AND DATA RIG	HTS NOTATIONS.
Test No.	Operator limits	Test Description			Work Steps	
52.9	E6666666 D555555AA C4444422 B333333CC A2222244 91111188	ARINC 429 Rec Low Speed	eiver #5	CRT	shall read:	E6666666 D55555AA C4444422 B33333CC A2222244 91111188
52.10	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE	ARINC 429 Rec High Speed	eiver #5	CRT	shall read:	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE
52.11	E66655AA D5556666 C44433CC B3334422 A2221188 91112244	ARINC 429 Rec Low Speed	eiver #6	CRT	shall read:	E66655AA D5556666 C44433CC B3334422 A2221188 91112244
52.12	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188	ARINC 429 Rec High Speed	eiver #6	CRT	shall read:	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188
52.13	E6666666 D555555AA C4444422 B333333CC A2222244 91111188	ARINC 429 Rec Low Speed	eiver #7	CRT	shall read:	E6666666 D55555AA C4444422 B33333CC A2222244 91111188
52.14	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE	ARINC 429 Rec High Speed	eiver #7	CRT	shall read:	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE
52.15	E66655AA D5556666 C44433CC B3334422 A2221188 91112244	ARINC 429 Rec Low Speed	eiver #8	CRT	shall read:	E66655AA D5556666 C44433CC B3334422 A2221188 91112244

AW/CRITICAL NOTATION		
	SUPPLEMENTS	30
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.					HTS NOTATIONS.	
Test No.	Operator limits	Test Description			Work Steps	
52.16	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188	ARINC 429 Rec High Speed	eiver #8	CRT	shall read:	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188
52.17	E6666666 D55555AA C4444422 B333333CC A2222244 91111188	ARINC 429 Rec Low Speed	eiver #9	CRT :	shall read:	E6666666 D55555AA C4444422 B33333CC A2222244 91111188
52.18	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE	ARINC 429 Rec High Speed	eiver #9	CRT	shall read:	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE
52.19	E66655AA D5556666 C44433CC B3334422 A2221188 91112244	ARINC 429 Rec Low Speed	eiver #10	CRT :	shall read:	E66655AA D5556666 C44433CC B3334422 A2221188 91112244
52.20	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188	ARINC 429 Rec High Speed	eiver #10	CRT	shall read:	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188
52.21	E6666666 D55555AA C4444422 B333333CC A2222244 91111188	ARINC 429 Rec Low Speed	eiver #11	CRT	shall read:	E6666666 D55555AA C4444422 B333333CC A2222244 91111188
52.22	4CCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE	ARINC 429 Rec High Speed	eiver #11	CRT	shall read:	4CCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE

AW/CRITICAL NOTATION		
	SUPPLEMENTS	31
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

ev Test No.	Operator limits	Test Description			Work Steps	
52.23	E66655AA D5556666 C44433CC B3334422 A2221188 91112244	ARINC 429 Rec Low Speed	eiver #12	CRT sh	nall read:	E66655AA D5556666 C44433CC B3334422 A2221188 91112244
52.24	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188	ARINC 429 Rec High Speed	eiver #12	CRT sh	nall read:	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188
52.25	E6666666 D55555AA C4444422 B333333CC A2222244 91111188	ARINC 429 Rec Low Speed	eiver #13	CRT sh	nall read:	E6666666 D55555AA C4444422 B333333CC A2222244 91111188
52.26	4CCCCC33 3BBBBBDD 2AAAAA55 1999999 08888811 F77777EE	ARINC 429 Rec High Speed	eiver #13	CRT sh	nall read:	4CCCCC33 3BBBBBDD 2AAAAA55 1999999 08888811 F77777EE
52.27	E66655AA D5556666 C44433CC B3334422 A2221188 91112244	ARINC 429 Rec Low Speed	eiver #14	CRT sh	nall read:	E66655AA D5556666 C44433CC B3334422 A2221188 91112244
52.28	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188	ARINC 429 Rec High Speed	eiver #14	CRT sh	nall read:	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188
52.29	E6666666 D55555AA C4444422 B333333CC A2222244 91111188	ARINC 429 Rec Low Speed	eiver #15	CRT sh	nall read:	E6666666 D55555AA C4444422 B333333CC A2222244 91111188

AW/CRITICAL NOTATION		
	SUPPLEMENTS	32
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Test No.	Operator limits	Test Description			Work Steps	
52.30 4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE ARINC 429 Receiver High Speed		eiver #15		CRT shall read:	4CCCCC33 3BBBBBDD 2AAAAA55 19999999 08888811 F77777EE	
52.31	E66655AA D5556666 C44433CC B3334422 A2221188 91112244	ARINC 429 Rec Low Speed	eiver #16		CRT shall read:	E66655AA D5556666 C44433CC B3334422 A2221188 91112244
52.32	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188	ARINC 429 Rec High Speed	eiver #16		CRT shall read:	D5556666 E66655AA B3334422 C44433CC 91112244 A2221188
52.33	Pass	ARINC 429 RX test	<u>nternal</u>		CRT shall read:	PASS
53.0		ARINC 429 Tran Output Busses	<u>nsmitter</u>	Initial Setup per figure 1	ARINC 429 TRANSMITTER OUTPU TESTS	I
53.1	111111882222 2244333333CC 444444225555 55AA66666666	ARINC 429 Trar #1 Low Speed	nsmitter		CRT shall read:	11111188222 22443333333 4444442255 55AA6666666
53.2	777777EE8888 811199999992 AAAAA553BBBB BDD4CCCCC33	ARINC 429 Trar #1 High Speed	nsmitter		CRT shall read:	77777EE888 81119999999 AAAAA553BBI BDD4CCCCC3
53.3	111111882222 22443333333CC 444444225555 55AA666666666	ARINC 429 Tran #2 Low Speed	nsmitter		CRT shall read:	1111118822 2244333333 4444442255 55AA666666
53.4	777777EE8888 811199999992 AAAAA553BBB BDD4CCCCC33	ARINC 429 Trar #2 High Speed	nsmitter		CRT shall read:	777777EE888 81119999999 AAAAA553BBI BDD4CCCCC3
53.10	PASS	ARINC 429 TX i	nternal		CRT shall read:	PASS

AW/CRITICAL NOTATION		
	SUPPLEMENTS	33
SECURITY NOTATION		PAGE

 SECURITY NOTATION NO.
 SPEC NO.
 8000253-001
 B

 CAGE CODE
 1WYD3
 REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATION

′	Test No.	Operator limits	Test Description			Work Steps	
	54.0		ARINC 453/708 Transmitter Out Busses		Initial Setup per figure 1	ARINC 453/708 TRANSMITTER OUTPUT TESTS	
	54.1	PASS	ARINC 453 Tran #1 Low Speed	nsmitter		CRT shall read:	PASS
	54.2	PASS	ARINC 453 Trar #1 High Speed	nsmitter		CRT shall read:	PASS
	57.0		3 Wire Synchro	Inputs	Initial Setup per figure 1	3 WIRE SYNCHRO INPUT TESTS	
	57.1	40 to 50 degrees	Synchro #1 45 c	legrees		CRT shall read:	40 to 50 degrees
	57.2	130 to 140 degrees	Synchro #1 135	degrees		CRT shall read:	130 to 140 degrees
	57.3	220 to 230 degrees	Synchro #1 215	degrees		CRT shall read:	220 to 230 degrees
	57.4	300 to 320 degrees	Synchro #1 315	degrees		CRT shall read:	300 to 320 degrees
	57.5	40 to 50 degrees	Synchro #2 45 c	legrees		CRT shall read:	40 to 50 degrees
	57.6	130 to 140 degrees	Synchro #2 135	degrees		CRT shall read:	130 to 140 degrees
	57.7	220 to 230 degrees	Synchro #2 215	degrees		CRT shall read:	220 to 230 degrees
	57.8	300 to 320 degrees	Synchro #2 315	degrees		CRT shall read:	300 to 320 degrees
	57.9	40 to 50 degrees	Synchro #3 45 c	legrees		CRT shall read:	40 to 50 degrees
	57.10	130 to 140 degrees	Synchro #3 135	degrees		CRT shall read:	130 to 140 degrees
	57.11	220 to 230 degrees	Synchro #3 215	degrees		CRT shall read:	220 to 230 degrees
į	57.12	300 to 320 degrees	Synchro #3 315	degrees		CRT shall read:	300 to 320 degrees
	57.13	40 to 50 degrees	Synchro #4 45 c	legrees		CRT shall read:	40 to 50 degrees
	57.14	130 to 140 degrees	Synchro #4 135	degrees		CRT shall read:	130 to 140 degrees

AW/CRITICAL NOTATION		
	SUPPLEMENTS	34
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS N			HTS NOTATIONS.		
Test No.	Operator limits	Test Description		Work Steps	
57.15	220 to 230 degrees	Synchro #4 215	degrees	CRT shall read:	220 to 230 degrees
57.16	300 to 320 degrees	Synchro #4 315	degrees	CRT shall read:	300 to 320 degrees
57.17	40 to 50 degrees	Synchro #5 45 d	legrees	CRT shall read:	40 to 50 degrees
57.18	130 to 140 degrees	Synchro #5 135	degrees	CRT shall read:	130 to 140 degrees
57.19	220 to 230 degrees	Synchro #5 215	degrees	CRT shall read:	220 to 230 degrees
57.20	300 to 320 degrees	Synchro #5 315	degrees	CRT shall read:	300 to 320 degrees
57.21	40 to 50 degrees	Synchro #6 45 d	legrees	CRT shall read:	40 to 50 degrees
57.22	130 to 140 degrees	Synchro #6 135	degrees	CRT shall read:	130 to 140 degrees
57.23	220 to 230 degrees	Synchro #6 215	degrees	CRT shall read:	220 to 230 degrees
57.24	300 to 320 degrees	Synchro #6 315	degrees	CRT shall read:	300 to 320 degrees
57.25	40 to 50 degrees	Synchro #7 45 d	legrees	CRT shall read:	40 to 50 degrees
57.26	130 to 140 degrees	Synchro #7 135	degrees	CRT shall read:	130 to 140 degrees
57.27	220 to 230 degrees	Synchro #7 215	degrees	CRT shall read:	220 to 230 degrees
57.28	300 to 320 degrees	Synchro #7 315	degrees	CRT shall read:	300 to 320 degrees
57.29	40 to 50 degrees	Synchro #8 45 d	legrees	CRT shall read:	40 to 50 degrees
57.30	130 to 140 degrees	Synchro #8 135	degrees	CRT shall read:	130 to 140 degrees
57.31	220 to 230 degrees	Synchro #8 215	degrees	CRT shall read:	220 to 230 degrees
57.32	300 to 320 degrees	Synchro #8 315	degrees	CRT shall read:	300 to 320 degrees

AW/CRITICAL NOTATION		
	SUPPLEMENTS	35
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

SEE THE TITLE PAGE FOR	DDODDIETADY	AND DATA DICUT	SHOTATIONS
SEE LUE HILLE PAGE FUR	PRUPRIETART	AND DATA KIGHT	S NUTATIONS.

Test No.	Operator limits	Test Description		Work Steps	
57.33	40 to 50 degrees	Synchro #9 45 c	legrees	CRT shall read:	40 to 50 degrees
57.34	130 to 140 degrees	Synchro #9 135	degrees	CRT shall read:	130 to 140 degrees
57.35	220 to 230 degrees	Synchro #9 215	degrees	CRT shall read:	220 to 230 degrees
57.36	300 to 320 degrees	Synchro #9 315	degrees	CRT shall read:	300 to 320 degrees
57.37	40 to 50 degrees	Synchro #10 45	degrees	CRT shall read:	40 to 50 degrees
57.38	130 to 140 degrees	Synchro #10 13	5 degrees	CRT shall read:	130 to 140 degrees
57.39	220 to 230 degrees	Synchro #10 21	5 degrees	CRT shall read:	220 to 230 degrees
57.40	300 to 320 degrees	Synchro #10 31	5 degrees	CRT shall read:	300 to 320 degrees
57.41	40 to 50 degrees	Synchro #11 45	degrees	CRT shall read:	40 to 50 degrees
57.42	130 to 140 degrees	Synchro #11 13	5 degrees	CRT shall read:	130 to 140 degrees
57.43	220 to 230 degrees	Synchro #11 21	5 degrees	CRT shall read:	220 to 230 degrees
57.44	300 to 320 degrees	Synchro #11 31	5 degrees	CRT shall read:	300 to 320 degrees
57.45	40 to 50 degrees	Synchro #12 45	degrees	CRT shall read:	40 to 50 degrees
57.46	130 to 140 degrees	Synchro #12 13	5 degrees	CRT shall read:	130 to 140 degrees
57.47	220 to 230 degrees	Synchro #12 21	5 degrees	CRT shall read:	220 to 230 degrees
57.48	300 to 320 degrees	Synchro #12 31	5 degrees	CRT shall read:	300 to 320 degrees
57.49	40 to 50 degrees	Synchro #13 45	degrees	CRT shall read:	40 to 50 degrees
57.50	130 to 140 degrees	Synchro #13 13	5 degrees	CRT shall read:	130 to 140 degrees

AW/CRITICAL NOTATION		
	SUPPLEMENTS	36
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

Rev Ltr	Test No.	Operator limits	Test Description				Work Steps	
	57.51	220 to 230 degrees	Synchro #13 21	5 degrees		CRT s	shall read:	220 to 230 degrees
	57.52	300 to 320 degrees	Synchro #13 31	5 degrees		CRT	shall read:	300 to 320 degrees
	57.53	40 to 50 degrees	Synchro #14 45	degrees		CRT	shall read:	40 to 50 degrees
	57.54	130 to 140 degrees	Synchro #14 13	5 degrees		CRT	shall read:	130 to 140 degrees
	57.55	220 to 230 degrees	Synchro #14 21	5 degrees		CRT s	shall read:	220 to 230 degrees
	57.56	300 to 320 degrees	Synchro #14 31	5 degrees		CRT s	shall read:	300 to 320 degrees
	60.0		2 Wire DC Input	S	Initial Setup per figure 1	2 WIF	RE DC INPUT	
	60.1	13 to 17 VDC	2 Wire DC Input VDC	#1 15		CRT s	shall read:	13 to 17 VDC
	60.2	-17 to -13 VDC	2 Wire DC Input VDC	#1 –15		CRT s	shall read:	-17 to -13 VDC
	60.3	-1 to 1 VDC	2 Wire DC Input VDC	#1 0		CRT s	shall read:	-1 to 1 VDC
	60.4	13 to 17 VDC	2 Wire DC Input VDC	#2 15		CRT s	shall read:	13 to 17 VDC
	60.5	-17 to -13 VDC	2 Wire DC Input VDC	#2 –15		CRT s	shall read:	-17 to -13 VDC
	60.6	-1 to 1 VDC	2 Wire DC Input VDC	#2 0		CRT s	shall read:	-1 to 1 VDC
	60.7	13 to 17 VDC	2 Wire DC Input VDC	#3 15		CRT s	shall read:	13 to 17 VDC
	60.8	-17 to -13 VDC	2 Wire DC Input VDC	#3 –15		CRT s	shall read:	-17 to -13 VDC
	60.9	-1 to 1 VDC	2 Wire DC Input VDC	#3 0		CRT s	shall read:	-1 to 1 VDC
	60.10	13 to 17 VDC	2 Wire DC Input VDC	#4 15		CRT s	shall read:	13 to 17 VDC
	60.11	-17 to -13 VDC	2 Wire DC Input VDC	#4 –15		CRT s	shall read:	-17 to -13 VDC

AW/CRITICAL NOTATION		
	SUPPLEMENTS	37
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Test No.	Operator limits	Test Description		Work Steps	
60.12	-1 to 1 VDC	2 Wire DC Input #-	4 0	CRT shall read:	-1 to 1 VDC
60.13	13 to 17 VDC	2 Wire DC Input #	5 15	CRT shall read:	13 to 17 VDC
60.14	-17 to -13 VDC	2 Wire DC Input #9	5 –15	CRT shall read:	-17 to -13 VD
60.15	-1 to 1 VDC	2 Wire DC Input #	5 0	CRT shall read:	-1 to 1 VDC
60.16	13 to 17 VDC	2 Wire DC Input #0 VDC	6 15	CRT shall read:	13 to 17 VDC
60.17	-17 to -13 VDC	2 Wire DC Input #0 VDC	6 –15	CRT shall read:	-17 to -13 VD0
60.18	-1 to 1 VDC	2 Wire DC Input #0 VDC	6 0	CRT shall read:	-1 to 1 VDC
60.19	13 to 17 VDC	2 Wire DC Input #	7 15	CRT shall read:	13 to 17 VDC
60.20	-17 to -13 VDC	2 Wire DC Input #	7 –15	CRT shall read:	-17 to -13 VD0
60.21	-1 to 1 VDC	2 Wire DC Input #	7 0	CRT shall read:	-1 to 1 VDC
60.22	13 to 17 VDC	2 Wire DC Input #8	3 15	CRT shall read:	13 to 17 VDC
60.23	-17 to -13 VDC	2 Wire DC Input #8	3 –15	CRT shall read:	-17 to -13 VD0
60.24	-1 to 1 VDC	2 Wire DC Input #6	3 0	CRT shall read:	-1 to 1 VDC
60.25	13 to 17 VDC	2 Wire DC Input #9	9 15	CRT shall read:	13 to 17 VDC
60.26	-17 to -13 VDC	2 Wire DC Input #9	9 –15	CRT shall read:	-17 to -13 VD
60.27	-1 to 1 VDC	2 Wire DC Input #9	9 0	CRT shall read:	-1 to 1 VDC
60.28	13 to 17 VDC	2 Wire DC Input # VDC	10 15	CRT shall read:	13 to 17 VDC
60.29	-17 to -13 VDC	2 Wire DC Input #	10 –15	CRT shall read:	-17 to -13 VD

AW/CRITICAL NOT	TATION	
	SUPPLEMEN	ITS 38
SECURITY NOTA	ATION	PAGE

 SECURITY NOTATION NO.
 SPEC NO.
 8000253-001
 B

 CAGE CODE
 1WYD3
 REV LTR

Rev Ltr	Test No.	Operator limits	Test Description			Work Steps	
	60.30	-1 to 1 VDC	2 Wire DC Input VDC	#10 0		CRT shall read:	-1 to 1 VDC
	60.31	13 to 17 VDC	2 Wire DC Input VDC	: #11 15		CRT shall read:	13 to 17 VDC
	60.32	-17 to -13 VDC	2 Wire DC Input VDC	#11 –15		CRT shall read:	-17 to -13 VDC
	60.33	-1 to 1 VDC	2 Wire DC Input VDC	: #11 0		CRT shall read:	-1 to 1 VDC
	60.34	13 to 17 VDC	2 Wire DC Input VDC	#12 15		CRT shall read:	13 to 17 VDC
	60.35	-17 to -13 VDC	2 Wire DC Input VDC	#12 –15		CRT shall read:	-17 to -13 VDC
	60.36	-1 to 1 VDC	2 Wire DC Input VDC	#12 0		CRT shall read:	-1 to 1 VDC
	60.37	13 to 17 VDC	2 Wire DC Input VDC	2 Wire DC Input #13 15 VDC		CRT shall read:	13 to 17 VDC
	60.38	-17 to -13 VDC	2 Wire DC Input #13 –19 VDC			CRT shall read:	-17 to -13 VDC
	60.39	-1 to 1 VDC	2 Wire DC Input #13 0 VDC 2 Wire DC Input #14 15 VDC			CRT shall read:	-1 to 1 VDC
	60.40	13 to 17 VDC				CRT shall read:	13 to 17 VDC
	60.41	-17 to -13 VDC	2 Wire DC Input #14 –15 VDC			CRT shall read:	-17 to -13 VDC
	60.42	-1 to 1 VDC	2 Wire DC Input VDC	#14 0		CRT shall read:	-1 to 1 VDC
	60.43	13 to 17 VDC	2 Wire DC Input #15 1 VDC			CRT shall read:	13 to 17 VDC
	60.44	-17 to -13 VDC	2 Wire DC Input #15 –15 VDC			CRT shall read:	-17 to -13 VDC
	60.45	-1 to 1 VDC	2 Wire DC Input VDC	: #15 0		CRT shall read:	-1 to 1 VDC
	60.46	13 to 17 VDC	2 Wire DC Input VDC	#16 15		CRT shall read:	13 to 17 VDC
	60.47	-17 to -13 VDC	2 Wire DC Input VDC	#16 –15		CRT shall read:	-17 to -13 VDC

AW/CRITICAL NOTATION		
	SUPPLEMENTS	39
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

			SEE THE TITL	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.		
Test No	. Operator limits	Test Description		Work Steps		
60.48	-1 to 1 VDC	2 Wire DC Input VDC	#16 0	CRT shall read:	-1 to 1 VDC	
60.49	13 to 17 VDC	2 Wire DC Input VDC	t #17 15	CRT shall read:	13 to 17 VDC	
60.50	-17 to -13 VDC	2 Wire DC Input VDC	t #17 –15	CRT shall read:	-17 to -13 VD0	
60.51	-1 to 1 VDC	2 Wire DC Input VDC	t #17 0	CRT shall read:	-1 to 1 VDC	
60.52	13 to 17 VDC	2 Wire DC Input VDC	#18 15	CRT shall read:	13 to 17 VDC	
60.53	-17 to -13 VDC	2 Wire DC Input VDC	t #18 –15	CRT shall read:	-17 to -13 VD0	
60.54	-1 to 1 VDC	2 Wire DC Input VDC	t #18 0	CRT shall read:	-1 to 1 VDC	
60.55	13 to 17 VDC	2 Wire DC Input 3 15 VDC	RAD ALT	CRT shall read:	13 to 17 VDC	
60.56	-17 to -13 VDC	2 Wire DC Input 3 –15 VDC	RAD ALT	CRT shall read:	-17 to -13 VD0	
60.57	-1 to 1 VDC	2 Wire DC Input 3 0 VDC	RAD ALT	CRT shall read:	-1 to 1 VDC	
60.58	9 to 11 VDC	2 Wire DC Input 2 10 VDC	RAD ALT	CRT shall read:	9 to 11 VDC	
60.59	9 to 11 VDC	2 Wire DC Input 1 10 VDC	RAD ALT	CRT shall read:	9 to 11 VDC	
60.60	2 to 3 VDC	2 Wire DC Input #1 15 VDC	Localizer	CRT shall read:	2 to 3 VDC	
60.61	-3 to -2 VDC	2 Wire DC Input #1 –15 VDC	t Localizer	CRT shall read:	-3 to -2 VDC	
60.62	-1 to 1 VDC	2 Wire DC Input #1 0 VDC	Localizer	CRT shall read:	-1 to 1 VDC	
60.63	2 to 3 VDC	2 Wire DC Input #2 15 VDC	Localizer	CRT shall read:	2 to 3 VDC	
60.64	-3 to -2 VDC	2 Wire DC Input #2 –15 VDC	t Localizer	CRT shall read:	-3 to −2 VDC	
60.65	-1 to 1 VDC	2 Wire DC Input #2 0 VDC	t Localizer	CRT shall read:	-1 to 1 VDC	

ACSS

AW/CRITICAL NOTATION		
	SUPPLEMENTS	40
SECURITY NOTATION		PAGE

 SECURITY NOTATION NO.
 SPEC NO.
 8000253-001
 B

 CAGE CODE
 1WYD3
 REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY	AND DATA RIGHTS NOTATIONS.

ev .tr	Test No.	Operator limits	Test Description		Work Steps	
	60.66	2 to 3 VDC	2 Wire DC Input 15 VDC	Glide #1	CRT shall read:	2 to 3 VDC
	60.67	-2 to -3 VDC	2 Wire DC Input -15 VDC	: Glide #1	CRT shall read:	-2 to -3 VDC
	60.68	-1 to 1 VDC	2 Wire DC Input 0 VDC	: Glide #1	CRT shall read:	-1 to 1 VDC
	60.69	2 to 3 VDC	2 Wire DC Input 15 VDC	: Glide #2	CRT shall read:	2 to 3 VDC
	60.70	-2 to -3 VDC	2 Wire DC Input -15 VDC	: Glide #2	CRT shall read:	-2 to -3 VDC
	60.71	-1 to 1 VDC	2 Wire DC Input 0 VDC	: Glide #2	CRT shall read:	-1 to 1 VDC
	60.72	13 to 17 VDC	2 Wire DC Input Rate 15 VDC	Altitude	CRT shall read:	13 to 17 VDC
	60.73	-17 to -13 VDC	2 Wire DC Input Rate -15 VDC	Altitude	CRT shall read:	-17 to -13 VDC
	60.74	-1 to 1 VDC	2 Wire DC Input Rate 0 VDC	Altitude	CRT shall read:	-1 to 1 VDC
	60.75	1.425 to 1.575 VDC	2 Wire 1.5V RE	F	CRT shall read:	1.425 to 1.575 VDC
	60.76	1.9 to 2.1 VDC	2 Wire +2VDC F	REF	CRT shall read:	1.9 to 2.1 VDC
	60.77	4.75 to 5.25 VDC	2 Wire +5VDC F	REF	CRT shall read:	4.75 to 5.25 VDC
	60.78	3.9316 to 4.1116 VDC	2 Wire ADC_RE	F 4.0	CRT shall read:	3.9316 to 4.1116 VDC
	60.79	-4.1116 to – 3.9316 VDC	2 Wire ADC_RE	F -4.0	CRT shall read:	-4.1116 to – 3.9316 VDC
	60.80	4.6 to 5.4 VDC	2 Wire +5V Filte	ered	CRT shall read:	4.6 to 5.4 VDC
	60.81	-5.5 to -4.5 VDC	2 Wire -5V Filte	red	CRT shall read:	-5.5 to -4.5 VDC
	60.83	13.5 to 16.5 VDC	2 Wire +15V Fil	tered	CRT shall read:	13.5 to 16.5 VDC
	60.84	-16.5 to -13.5 VDC	2 Wire –15V Fil	tered	CRT shall read:	-16.5 to -13.5 VDC
	60.85	21.6 to 31.2 VDC	2 Wire 24V POS	3	CRT shall read:	21.6 to 31.2 VDC

AW/CRITICAL NOTATION		
	SUPPLEMENTS	41
SECURITY NOTATION		PAGE

SECURITY NOTATION SPEC NO. 8000253-001 B

CAGE CODE 1WYD3 REV LTR

SEE THE TITLE PAGE FOR	DDODDIETADY	AND DATA DICUT	SHOTATIONS
SEE LUE HILLE PAGE FUR	PRUPRIETART	AND DATA KIGHT	S NUTATIONS.

ev 7 .tr	Test No.	Operator limits	Test Description			Work Steps	
6	60.86	-31.2 to -21.6 VDC	2 Wire 24V NEC	3	CR.	T shall read:	-31.2 to -21.6 VDC
6	60.87	10.8 to 15.6 VDC	2 Wire GPS +12	2V	CR.	T shall read:	10.8 to 15.6 VDC
6	88.08	-15.6 to -10.8 VDC	2 Wire GPS –12	2V	CR'	T shall read:	-15.6 to -10.8 VDC
6	60.91	-0.100 to 0.100VDC	2 Wire GND Mu	x 0	CR.	T shall read:	-0.100 to 0.100VDC
6	60.92	-0.100 to 0.100VDC	2 Wire GND Mu	x 1	CR.	T shall read:	-0.100 to 0.100VDC
6	60.93	-0.100 to 0.100VDC	2 Wire GND Mu	x 2	CR.	T shall read:	-0.100 to 0.100VDC
6	60.94	-0.100 to 0.100VDC	2 Wire GND Mu	x 3	CR ²	T shall read:	-0.100 to 0.100VDC
6	80.95	-0.100 to 0.100VDC	2 Wire GND Mu	x 4	CR ²	T shall read:	-0.100 to 0.100VDC
6	60.96	-0.100 to 0.100VDC	2 Wire GND Mu	x 5	CR.	T shall read:	-0.100 to 0.100VDC
6	60.97	-0.100 to 0.100VDC	2 Wire GND Mu	x 6	CR.	T shall read:	-0.100 to 0.100VDC
6	60.98	-0.100 to 0.100VDC	2 Wire GND Mu	x 7	CR'	T shall read:	-0.100 to 0.100VDC
							2100
6	52.1	PASS	APM Read/Write Writes AA s to r and reads back. 55 s to memory back	nemory Writes	CR	T shall read:	PASS
6	52.2	Ok	APM Write Part Serial Number T		CR.	T shall read:	Ok
6	63.1	PASS	Compact Flash Writes AA s to r and reads back. 55 s to memory back	nemory Writes	CR	T shall read:	PASS

AW/CRITICAL NOTATION		
	SUPPLEMENTS	42
SECURITY NOTATION		PAGE

SECURITY NOTATION | SPEC 8000253-001 В CAGE CODE 1WYD3 **REV LTR**

SEE THE TITLE PAGE FOR	DDODDIETADY	AND DATA DICUT	SMOTATIONS

cc		SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.						
Rev Ltr	Test No.	Operator limits	Test Description				Work Steps	
	69.1	PASS	Load the operat software accord UUT part number modification sta	ing to the er and			A successful load shall be indicated by the CF LOAD STATUS LED on the UUT being GREEN	PASS
	70.3		TAWS OP SOF VERIFICATION				TAWS OP SOFTWARE VERIFICATION	
	70.4	See table 7-4 for number based on software part number	Verify the operal software part nu shown on the probtained by the Tool.	ımber intout	OPSYS P1 P/N		Verify the operational software part number shown on the printout obtained by the EDDIT Tool.	See table 7-4 for number based on software part number.
	70.6	See table 7-4 for number based on software part number	Verify the operal software part nu shown on the probtained by the Tool.	ımber intout	OPSYS P2 P/N		Verify the operational software part number shown on the printout obtained by the EDDIT Tool.	See table 7-4 for number based on software part number.
	70.8	See table 7-4 for number based on software part number	Verify the operal software part nu shown on the probtained by the Tool.	ımber intout	BOOT P1 P/N		Verify the operational software part number shown on the printout obtained by the EDDIT Tool.	See table 7-4 for number based on software part number.
	70.10	See table 7-4 for number based on software part number	Verify the operal software part nu shown on the probtained by the Tool.	ımber intout	BOOT P2 P/N		Verify the operational software part number shown on the printout obtained by the EDDIT Tool.	See table 7-4 for number based on software part number.
	70.12	See table 7-4 for number based on software part number	Verify the operal software part nu shown on the probtained by the Tool.	ımber intout	DL P1 P/N		Verify the operational software part number shown on the printout obtained by the EDDIT Tool.	See table 7-4 for number based on software part number.
	70.14	See table 7-4 for number based on software part number	Verify the operal software part nu shown on the probtained by the Tool.	ımber intout	DL P2 P/N		Verify the operational software part number shown on the printout obtained by the EDDIT Tool.	See table 7-4 for number based on software part number.
	70.16	See table 7-4 for number based on software part number	Verify the operal software part nu shown on the probtained by the Tool.	ımber intout	FPGA A P/N		Verify the operational software part number shown on the printout obtained by the EDDIT Tool.	See table 7-4 for number based on software part number.

AW/CRITICAL NOTATION		
	SUPPLEMENTS	43
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE	1WYD3	REV LTR

Rev Ltr	Test No.	Operator limits	Test Description			Work Steps	
	70.18	See table 7-4 for number based on software part number	Verify the operal software part nu shown on the probtained by the Tool.	ımber intout	FPGA B P/N	Verify the operational software part number shown on the printout obtained by the EDDIT Tool.	See table 7-4 for number based on software part number.
	70.20	See table 7-4 for number based on software part number	Verify the operal software part nu shown on the probtained by the Tool.	ımber intout	TAWS DB SW P/N	Verify the operational software part number shown on the printout obtained by the EDDIT Tool.	See table 7-4 for number based on software part number.

AW/CRITICAL NOTATION		
	SUPPLEMENTS	44
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В	
	CAGE CODE	1WYD3	REV LTR	
SEE THE TITLE DAGE FOR PRORRIETARY AND DATA DIGHTS NOTATIONS				

Rev Ltr Test No. Operator limits Test Description Work Steps

APPENDIX A TT-950/951/952 TCAS SOFTWARE LOADING PROCEDURE

AW/CRITICAL NOTATION		
	SUPPLEMENTS	A-0
SECURITY NOTATION		PAGE

SECURITY NOTATION	SPEC NO.	8000253-001	В
	CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

| Rev | Ltr | Test No. | Operator limits | Test Description | Work Steps | Work Steps | Control of the contr

1. The TCAS portion of the T2CAS software shall be loaded as described in document IT7517900 Appendix A. Where TCAS 1500/2000 or TCAS is referenced, for the purposes of this Integrated Test Specification, it shall be read as "T2CAS TCAS processor".

SUPPLEMENTS	A-1
	PAGE
	SUPPLEMENTS

	FN	GINEERII	NG		_	SPEC NO.	8000253-001	В
		CIFICAT				CAGE CODE	1WYD3	REV LTR
	O			SEE	THE TITLE PA	GE FOR	PROPRIETARY AND DATA RIGHTS NO	TATIONS.
Rev Ltr	Test No.	Operator limits	Test Description				Work Steps	

APPENDIX B TT-950/951/952 CALIBRATION PROCEDURE USING A P.C. AND SCRIPT FILES FROM PS7517976

AW/CRITICAL NOTATION		
	SUPPLEMENTS	B-0
SECURITY NOTATION		PAGE

SPEC NO.	8000253-001	В
CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Ltr Test No. Operator limits Test Description Work Steps

1. INTRODUCTION

The calibration of the TCAS portion of the T2CAS is as described in Appendix B of Document IT7517900. Where TCAS 1500/2000 or TCAS is referenced, for the purposes of this Integrated Test Specification , it shall be read as "T2CAS TCAS portion".

AW/CRITICAL NOTATION		
	SUPPLEMENTS	B-1
SECURITY NOTATION		PAGE

	FN	GINEERI	NG		SPEC NO.	;	8000253-001	В
		ECIFICAT	_		CAGE CODE		1WYD3	REV LTR
	O			SEE	THE TITLE PAGE FO	OR	PROPRIETARY AND DATA RIGHTS N	OTATIONS.
Rev Ltr	Test No.	Operator limits	Test Description				Work Steps	

APPENDIX C TT-950/951/952 AUTOCALIBRATION PROCEDURE USING THE MTS

AW/CRITICAL NOTATION		
	SUPPLEMENTS	C-0
SECURITY NOTATION		PAGE

SPEC NO.	8000253-001	В
CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Ltr Test No. Operator limits Test Description Work Steps

1. INTRODUCTION

The autocalibration of the TCAS portion of the T2CAS is as described in Appendix C of Document IT7517900. Where TCAS 1500/2000 or TCAS is referenced, for the purposes of this Integrated Test Specification , it shall be read as "T2CAS TCAS portion".

AW/CRITICAL NOTATION		
	SUPPLEMENTS	C-1
SECURITY NOTATION		PAGE

 SPEC NO.	8000253-001	В
CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Ltr Test No. Operator limits Test Description Work Steps

APPENDIX D TT-950/951/952 OPERATION SOFTWARE LOADING PROCEDURE USING THE MTS

AW/CRITICAL NOTATION		
	SUPPLEMENTS	D-0
SECURITY NOTATION		PAGE

 SPEC NO.	8000253-001	В
CAGE CODE	1WYD3	REV LTR

SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.

Rev Ltr Test No. Operator limits Test Description Work Steps

1. INTRODUCTION

The Operational Software Loading of T2CAS TAWS portion is as described in this Appendix.

AW/CRITICAL NOTATION		
	SUPPLEMENTS	D-1
SECURITY NOTATION		PAGE

SPEC В NO. 8000253-001 **ENGINEERING** CAGE **REV LTR 1WYD3 SPECIFICATION** CODE SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS. Rev Test No. Work Steps Operator limits **Test Description** Insert CDROM (P/N 9100005-001 (BOOT S/W) into CDROM drive. Delete all files in directory d:\9000237\T2upload. Copy the files to directory d:\9000237\T2upload. Rename files: Cert-1.dl1 to dl_p1.bin Cert-1.dl2 to dl p2.bin Boot_p2.bp2 to Boot_p2.bin Boot_p1.bp1 to Boot_p1.bin Right-click on each file and select properties. Remove check from read only box and click on OK. Do this for the four files that were renamed. Log in with employee number and password Go to File, Select, Open Select sequence file 9000237-data loader.squ Click on Single Pass. Enter UUT information Select UUT Part number from Menu selection (9000000-10001, -20001, or -55001) Select Final as test type Select ATP Revision letter as B **AW/CRITICAL NOTATION** ACSS **SUPPLEMENTS** D-2 **SECURITY NOTATION** PAGE

SPEC В NO. 8000253-001 **ENGINEERING** CAGE **REV LTR 1WYD3 SPECIFICATION** CODE SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS. Rev Test No. Work Steps Operator limits **Test Description** Ltr Enter Employee number. Enter the APM Serial Number, enter the APM Hardware Mod, and select the APM part number (9000001-10001). Click on OK. Test will begin to run. Follow operator prompts and enter the appropriate information. After approximately 15 minutes, message should appear telling operator that UPLOAD is COMPLETE, press RETURN. When instructed to insert Compact Flash Card, install P/N 9100001-001 (OP S/W) and press return. XFER IN PROCESS light should light up GREEN and begin to blink. Message appears telling operator Hit return and wait 15 minutes. Press return. Message appears telling operator to wait for CF upload to complete and look for CF LOAD STATUS light to be GREEN. If CF LOAD LIGHT is GREEN, click on YES. If CF LOAD LIGHT is RED, click on NO. After Test has completed and UUT has powered down, remove the Compact Flash Card (P/N 9100001-001) (OP S/W). **AW/CRITICAL NOTATION** ACSS **SUPPLEMENTS** D-3 **SECURITY NOTATION** PAGE

SPEC В NO. 8000253-001 **ENGINEERING** CAGE **REV LTR 1WYD3 SPECIFICATION** CODE SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS. Rev Test No. Work Steps Operator limits **Test Description** Ltr Make sure UUT is powered down. Disconnect P1 of PDL cable W1 (T336259-5) from Data Loader connector of UUT Insert Compact Flash Card (P/N 9100006-001) (GENERIC 3 ASDB) Power up UUT by clicking on DC PWR button. XFER IN PROCESS should light up GREEN and blink. Wait for CF LOAD STATUS to turn GREEN. Power down UUT by clicking on DC PWR button. Insert Compact Flash Card (P/N 9100004-001) (TAWS DATABASE) Power up UUT by clicking on DC PWR button. XFER IN PROCESS should light up GREEN and blink. Wait for CF LOAD STATUS to turn GREEN. Power down UUT by clicking on DC PWR button. Delete all files in directory d:\9000237\T2upload. To Verify the software loaded into the UUT, the following steps are performed: Power up UUT by clicking on DC PWR button. **AW/CRITICAL NOTATION** ACSS **SUPPLEMENTS** D-4 **SECURITY NOTATION PAGE**

SPEC В NO. 8000253-001 **ENGINEERING** CAGE **REV LTR 1WYD3 SPECIFICATION** CODE SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS. Rev Test No. Work Steps Operator limits **Test Description** Ltr Wait for all TAWS lights to turn off (lights on left side of UUT front panel). After TAWS lights are off, connect PDL connector P1 of W43 (T336255-88) to Data Loader connector on UUT. Click on EDDIT tool (P/N 9000286-102) Icon. Click on START EDDIT When asked "would you want to connect to the T2CAS, click on YES. When the following message appears, click on OK. Message: Mnemonic Database File For Current OP SW Part Number Not Found at pat d:\Eddit\Data\mnemonic_f ile_for_9000255-003.bin When the following message appears, click on No Message: Current UART1 Speed is 38400 this is less than Max Speed 115200 **CHANGE SPEED** MANUALLY? Click on MAINTENANCE on Menu Bar. Select DOWNLOAD DATA FROM T2CAS. Select ALL TAWS PART NUMBERS and CRC's Click on SET UP DOWNLOAD button. **AW/CRITICAL NOTATION** ACSS D-5 **SUPPLEMENTS SECURITY NOTATION** PAGE

SPEC В NO. 8000253-001 **ENGINEERING** CAGE **REV LTR 1WYD3 SPECIFICATION** CODE SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS. Rev Test No. Work Steps Operator limits **Test Description** Ltr_ When the following message appears, click on Yes Message: Do you Really Want To Start The DOWNLOAD of TAWSRWS All PART Numbers and CRCs? When the following message appears, click on OK Message: TAWSRWS_DUMP **Command Completed** With No Errors. Click on VIEW PRINTABLE button Click on CLOSE VIEW. Click on CLOSE in DOWN LOAD DATA FROM T2CAS Window. Click on FILE on MENU BAR. Click on SAVE AS Change directory to D:\9000237\testdata Type in file name as UUT serial number and date and time Ex: UUT S/N is 03010007 and date is 01/20/2003 and time is 15:47 Type: 03010007012020031547 PARTNUMBERCRCDUM P1.log as the file name Click on SAVE. **AW/CRITICAL NOTATION** ACSS **SUPPLEMENTS** D-6 **SECURITY NOTATION PAGE**

SPEC В 8000253-001 NO. **ENGINEERING** CAGE **REV LTR 1WYD3 SPECIFICATION** CODE SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS. Rev Test No. Work Steps **Operator limits Test Description** Ltr Close EDDIT Tool window. Turn off Power to UUT by clicking on DC PWR button. Exit from Testexec 9000237 Print out log file. Verify the part numbers from this log file and write them on the MTS Test Report in the spaces provided. Disconnect PDL cable P1 of W43 (T336255-88) from UUT DATA LOADER Connector.

AW/CRITICAL NOTATION		
	SUPPLEMENTS	D-7
SECURITY NOTATION		PAGE