

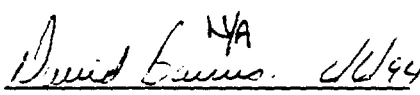
# ENGINEERING CHANGE NOTICE

1. ECN **196862**

Page 1 of 2

Proj.  
ECN

<b>2. ECN Category (mark one)</b> Supplemental <input type="checkbox"/> Direct Revision <input checked="" type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedeure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	<b>3. Originator's Name, Organization, MSIN, and Telephone No.</b> DG Spurling, IRM/ISS/C&WMSS, R1-01, 3-2969  <b>5. Project Title/No./Work Order No.</b> TMACS/N46G1  <b>8. Document Numbers Changed by this ECN (includes sheet no. and rev.)</b> WHC-SD-WM-TRP-105, Rev 54 XE WHC-SD-WM-TRP-106, Rev 54 9/24/94 WHC-SD-WM-TRP-107, Rev 54 WHC-SD-WM-TRP-108, Rev 54 WHC-SD-WM-TRP-109, Rev 54 WHC-SD-WM-TRP-111, Rev 54 WHC-SD-WM-TRP-112, Rev 54 WHC-SD-WM-TRP-113, Rev 53 WHC-SD-WM-TRP-114, Rev 54	<b>4. Date</b> 5/31/94  <b>6. Bldg./Sys./Fac. No.</b> 2750E/TMACS/200E  <b>9. Related ECN No(s).</b> ECN 196863 EDT 159986 EDT 600611  <b>7. Impact Level Approval Designer</b> 0  <b>10. Related PO No.</b>
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<b>11a. Modification Work</b> <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	<b>11b. Work Package No.</b> N46G1 N/A	<b>11c. Modification Work Complete</b> <div style="text-align: center;">                   N/A                  Cog. Engineer Signature &amp; Date             </div>	<b>11d. Restored to Original Condition (Temp. or Standby ECN only)</b> N/A Cog. Engineer Signature & Date
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**12. Description of Change**  
 Several Tank Farm Surveillance System (TFSS) Change Requests were incorporated into TMACS Software Release 4.0. The major software functions added in this release are initial implementation of Liquid Level monitoring and "Panalarm" alarm processing.

The results of this software test are documented in each Test Report, and summarized in Test Procedure 10 (WHC-SD-WM-TRP-113).

<b>13a. Justification (mark one)</b>	Criteria Change <input checked="" type="checkbox"/>	Design Improvement <input type="checkbox"/>	Environmental <input type="checkbox"/>
As-Found <input type="checkbox"/>	Facilitate Const. <input type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>	Design Error/Omission <input type="checkbox"/>

**13b. Justification Details**  
 TMACS software development and release guidelines are governed under WHC-IP-0842, Section 12.2, Tank Farm Surveillance System Configuration Control Board, and WHC-SD-WM-CSCM-019, TMACS Software Configuration Management Plan

<b>14. Distribution (include name, MSIN, and no. of copies)</b> See Distribution Sheet	<b>RELEASE STAMP</b> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">                 OFFICIAL RELEASE                   BY WHC                  DATE <b>AUG 25 1994</b>                  574 4             </div>
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**RELEASE AUTHORIZATION**

**Document Number:** WHC-SD-WM-TRP-111, REV 5

**Document Title:** TMACS TEST PROCEDURE TP007: SYSTEM ADMINISTRATION

**Release Date:** 8/25/94

\* \* \* \* \*

**This document was reviewed following the  
procedures described in WHC-CM-3-4 and is:**

**APPROVED FOR PUBLIC RELEASE**

\* \* \* \* \*

**WHC Information Release Administration Specialist:**

  
\_\_\_\_\_  
Kara Broz  
(Signature)

8/25/94  
\_\_\_\_\_  
(Date)

SUPPORTING DOCUMENT

1. Total Pages 19

2. Title

TMACS Test Procedure TP007: System Administration

3. Number

WHC-SD-WM-TRP-111

4. Rev No.

5

5. Key Words

Software, Test Procedure, Tank Monitor and Control System, TMACS Software Project

6. Author

Name: PK Scanlan/SJ Washburn

Signature

Organization/Charge Code 62610/N46G1

APPROVED FOR PUBLIC RELEASE

KMB E/25/94

7. Abstract

The TMACS Software Project Test Procedures translate the project's acceptance criteria into test steps. Software releases are certified when the affected Test Procedures are successfully performed and the customers authorize installation of these changes.

This Test Procedure tests the TMACS System Administration functions.

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10.

RELEASE STAMP

OFFICIAL RELEASE

BY WHC

DATE AUG 25 1994

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9. Impact Level Q

MASTER

### RECORD OF REVISION

(1) Document Number  
WHC-SD-WM-TRP-111

Page 1

(2) Title  
Tank Monitor And Control System (TMACS) Software Project, Release 4.0  
Test Procedure TP007, System Administration

CHANGE CONTROL RECORD

(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release		
		(5) Cog. Engr.	(6) Cog. Mgr.	Date
0	(7) Software Release 0.0 Release Testing Released under EDT 159986, 10/15/92			
1	Software Release 1.0 Release Testing Released under ECN 196866, 1/31/93			
2	Software Release 1.1 Release Testing Released under ECN 196865, 4/30/93			
3	Software Release 2.0 Release Testing Released under ECN 196864, 10/1/93			
4	Software Release 3.0 Release Testing Released under ECN 196863, 1/15/94			
5	SW Software Release 4.0 Release Testing Released under ECN 196862, 5/31/94	<i>M. Lawrence</i>	<i>J. M. ...</i>	<i>6/15/94</i>

TANK MONITOR AND CONTROL SYSTEM  
(TMACS)  
SOFTWARE PROJECT

TEST PROCEDURE TP007:  
TMACS SYSTEM ADMINISTRATION/SECURITY

Patrick Scanlan  
Steven Washburn  
Ryan Seghers

IRM Chemical & Waste Management  
Software Support

SIGN OFF:

<i>P.A. Sciaief</i>		<i>6-7-94</i>
CC Sciaief TMACS Program Engineer	signature	Date
<i>DA Barnes</i>	<i>David Barnes</i>	<i>5/26/94</i>
DA Barnes TMACS Cognizant Engineer	signature	Date
<i>TW BOHANN FOR R.N.</i>	<i>[Signature]</i>	<i>5/27/94</i>
<del>John Badden</del> TMACS User Manager <i>R.N.</i>	signature	Date
<i>John Jones</i>	<i>[Signature]</i>	<i>5/26/94</i>
WJ Jones IRM Software V&V	signature	Date
<i>Dave Spurling</i>	<i>[Signature]</i>	<i>5/26/94</i>
DG Spurling TMACS Project Manager	signature	Date
<i>RB Bass</i>	<i>[Signature]</i>	<i>6/6/94</i>
RB Bass IRM Manager	signature	Date

**1.0 TEST ITEMS**

This test addresses the System Administration and Security requirements of TMACS. The test is composed of the following test cases:

Table 1. Test Cases

5.1	Starting the TMACS computer . . . . .	5
5.2	Data Recovery . . . . .	6
5.3	Operation of the Password Protection of Multiple User Modes . . . . .	7
5.4	Restriction of Function and Action by User Mode . . . . .	8
5.5	Sensor Labelling (tag id) . . . . .	11
5.6	Exiting TMACS and Shutting Down the System . . . . .	11

**2.0 ACCEPTANCE CRITERIA AND REQUIREMENTS**

The following acceptance criteria are from Section 7.0 of the TMACS Software Project: Acceptance Criteria. The Test Cases that satisfy these criteria are listed after each criteria item.

- 2.1 Sensors shall reference tag ID as supplied by the customer. Tag ID shall be up to 30 characters, with a description field of up to 40 characters. See Test Case 5.5
- 2.2 Provide multiple security levels that are password protected. See Test Case 5.3
- 2.3 Provide System Administrator the ability to assign the security level to access or modify various functions or actions, such as:
  - 2.3.1 tag create, delete, or modify
  - 2.3.2 graphics modification
  - 2.3.3 trend define or modify
  - 2.3.4 historical logging
  - 2.3.5 active/inactive point status
  - 2.3.6 active/inactive station polling
 See Test Case 5.4
- 2.4 Provide ability to "warm boot" TMACS using backup data from "snapshot" taken once per shift. See Test Case 5.2

**Note that this requirement is affected by the Change Request number 92-065 (see below) which allows for other data recovery methods. Also note that Test Procedure 5 tests the logging of the data used by the Data Recovery utility.**

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- 2.5 Provide capability to backup TMACS data (in the form of the TMACS "snapshot" file) to tape, once per day.

**Note:** TMACS currently logs data to disk daily, and fulfillment of the requirement to copy this log to tape is deferred to a later release.

The following Change Requests were incorporated into this or a previous software release:

- 92-015 Implement a "secured" G2, with the necessary user and developer modes. See Test Case 5.3
- 92-019 Implement TMACS User startup and shutdown for SPARCstation, UNIX, G2, and TMACS application. See Test Cases 5.1 and 5.6
- 92-067 Install Restricted-Use G2 software on production workstation; make any necessary software changes to work in this version of the software. See Test Case 5.3
- 92-065 Install Data Recovery module, and implement data logging for use by this Data Recovery utility. See Test Case 5.2

### 3.0 TESTER INFORMATION

The TMACS system is an application built using the G2 Real-Time Expert System. The instructions for using the mouse and mouse buttons are given below.

The majority of user control of the system involves pointing at objects on the computer screen using the POINTER. The pointer is an arrow that is pointing to the upper left of the screen. When a user moves the mouse, the pointer moves on the screen.

The G2 system treats the left and right mouse buttons as if they were a single button. Whenever the use of a mouse button is required the user is free to use either of these buttons.

The following terms are used to describe actions performed with the mouse:

- To **CLICK** on an object, first move your mouse so that the screen pointer rests on the object. Then, press the mouse button and release immediately without moving the mouse.
- To **DRAG** an object with the mouse, first move the mouse so that the screen pointer rests on the object. Then, press the mouse button and move the

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mouse without releasing the button. The object moves along with the screen pointer as you move the mouse. Release the button when the object is in the desired place.

Three keyboard commands may be helpful to use in conjunction with this Test Procedure. If the screen becomes unreadable or objects overwrite each other the screen can be redrawn by typing Control-C. To test the password protection of user modes, type Control-Y to bring up the user mode selection screen. When editing text using any G2 text edit box, Control-X erases all text appearing before the cursor.

#### 4.0 PRE-TEST INSPECTION AND SETUP REQUIREMENTS

This test procedure uses the software developed for production use, and can be identified as "/home/G2/TMACS/prod/TMACS\_Release\_x\_x.KB" (where x\_x refers to the current revision number, with only one file in the directory matching the template), "/home/G2/BRIDGE/ACROMAG/acromag\_brg" (which is the Acromag driver), "/home/G2/BRIDGE/PANALM/panalm\_brg" (which is the Panalarm driver) and "/home/G2/BRIDGE/PRINTER/printer\_brg" (which is the alarm printer driver). The TMACS Software Engineer participating in the test shall demonstrate this. In this test this software will automatically be installed and executed.

For Data Recovery testing, you must make sure that there are history files to read. The current day's files must be located in /TMACS\_disk/G2-SACS/CURRENT and all previous day's files must be put in: /TMACS\_disk/G2-SACS/HISTORY. The files must be named: 'continuous\_sensor\_history\_1993\_mmdd.ascii' and 'discrete\_sensor\_history\_1993\_mmdd.ascii'. Also, you must make sure that there are around 5,000 lines of data (between all the files) because the Data Recovery utility must run long enough for several test steps to be performed, and also part of the test involves waiting for the utility to complete reading all of the data.



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5.0 TEST STEPS WITH EXPECTED RESULTS

STEP	DESCRIPTION	VERIFY
5.1 Starting the TMACS computer		
1	<p>Power up both the 'Slave' and 'Master' TMACS workstations and monitors.</p> <p>Verify that both systems complete booting and a TMACS login screen is displayed.</p>	EJB
2	<p>On the Master workstation, enter "tmacs" for the login name on the login screen.</p> <p>Then enter the password, which the test administrator will supply.</p> <p>Verify that a window pops up with the message 'Starting the TMACS Operator Interface'.</p>	EJB
3	<p>Verify that the system automatically loads and starts the G2 software, and that when loading of G2 is completed a G2 login window appears.</p>	EJB
4	<p>In the G2 login window, edit the 'User Name' and 'G2 User Mode' attributes to be "t2-user".</p> <p>The Test Administrator will now enter the password. When done, select END.</p>	EJB
5	<p>Enter the TMACS login name of "tmacs" on the login screen of the Slave workstation.</p> <p>Then enter the password, which the test administrator will supply.</p> <p>Verify that the system automatically loads Telewindows and displays a Telewindows login box.</p>	EJB
6	<p>Repeat step 4 for the Slave/Telewindows workstation.</p>	EJB

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STEP	DESCRIPTION	VERIFY
7	<p>Verify that the Acromag bridge and the alarm printer bridge have been started on the Slave workstation.</p> <p>The test administrator will run the UNIX command "ps - ax grep brg". You should then see the following processes running:</p> <pre>                     acromag_brg 22200                     printer_brg 22555                     <del>panalm_brg 23000</del> (possibly two of these)                 </pre>	yB

*See Test Log*

5.2 Data Recovery

8	<p>Verify that the green "Working" window appears with a message indicating that Data Recovery is running.</p> <p><b>Note to Test Administrator:</b> If the "Working" window no longer appears, there may be no history files to read or they may be too short to keep the Data Recovery utility busy long enough to reach this step. If so, correct this and restart the knowledge base. The current day's files are located in /TMACS_disk/G2-SACS/CURRENT and all previous day's files are in /TMACS_disk/G2-SACS/HISTORY. The files are named: 'continuous_sensor_history_1993_mmdd.ascii' and 'discrete_sensor_history_1993_mmdd.ascii'.</p>	yB
9	<p>While the Working window is showing, the Test Administrator will change to Administrator mode and display some randomly selected Acromag-station objects.</p> <p>Verify that the Acromag-station objects are receiving values by watching the value expiration times. If an Acromag-station receives a value, the expiration time will change.</p> <p><b>Note to Test Administrator:</b> If the working window no longer appears, get more history data for it to read and restart the knowledge base.</p>	yB

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STEP	DESCRIPTION	VERIFY
10	When the Working window disappears, the Test Administrator will use the type-in box and button on the Data Recovery Testing workspace to print the history of a randomly chosen sensor. <i>T 111 TC 11</i> Verify that the sensor history contains values from before the current day.	JRP
11	The Test Administrator will now use the UNIX grep program to compile a list of records for the randomly chosen sensor from the sensor history files in either the /TMACS_disk/G2-SACS/CURRENT directory or the /TMACS_disk/G2-SACS/HISTORY directory. Verify that the records compiled from the files match the history entries printed using the Data Recovery Testing workspace in TMACS.	JRP
12	Repeat steps 10 and 11 for 3 more randomly chosen sensors, including at least one discrete sensor (if available). <i>AX107 TI R005-04, C10B R1 TC03, BV112 TC D</i> Verify that both steps check out for each sensor.	See Exception #2 A.15A discrete available Absorted
13	Hide the workspaces used in the previous test case. The Test Administrator will now change TMACS back to t2-user mode before starting the next test case (remember to change the password also).	JRP

5.3 Operation of the Password Protection of Multiple User Modes

14	Type Control-Y and verify that the user mode selection window appears at the top center of the screen.	JRP
15	Edit the 'G2 user mode' to be "administrator". Click on the END button in the user mode selection window. Verify that TMACS does not enter administrator mode.	JRP

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STEP	DESCRIPTION	VERIFY
16	Repeat step 15 for both "developer" and "engineer" user modes.  Verify that in both cases TMACS does not allow this mode change.	EJB
17	Edit the 'G2 user mode' to be "t2-user" and click on the END button in the text editing window.  Verify that the user mode selection window disappears from the screen (indicating a successful login).	EJB

5.4 Restriction of Function and Action by User Mode

18	Click on the Show Main Display button on the Control Panel.  Verify that the following windows (and only the following windows) appear on the screen:  Control Panel. Most Recent Alarm. Hanford Tank Farm Facilities.	EJB
19	Attempt to move each of these three windows (by dragging using the left mouse button from points on the windows not occupied by objects such as buttons or labels).  Verify that they do not move.	EJB
20	Verify that you cannot move the title labels of each of these windows by dragging them with the mouse.	EJB
21	Verify that you cannot move the date and time display by dragging it.	EJB
22	Click anywhere in the empty space on each window.  Verify that no menus appear.	EJB
23	Verify that the following objects on the 'Hanford Tank Farm Facilities' window cannot be moved by dragging: - labels (farm and tank) - farm backgrounds - tank icons	EJB
24	Verify that you cannot move the GOTO button on the Most Recent Alarm window.	EJB

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STEP	DESCRIPTION	VERIFY
25	Click on the tank icon for any tank. Verify that the Tank Status window appears.	EJB
26	Click on the Shrink Window button on the Tank Status window. Verify that the window size is reduced.	EJB
27	Verify that you CAN move the Tank Status window by dragging it, but that you cannot move any part of it off of the edge of the screen.	EJB
28	Click on the Expand Window button on the Tank Status window. Verify that the window size is increased.	EJB
29	Click on the empty space in the background of the Tank Status window. Verify that no menu appears.	EJB
30	Attempt to move several objects chosen at random on the Tank Status window by doing a click-and-drag. Verify that none of the objects move.	EJB
31	Click on the digital display for any sensor. Verify that the trend window for that sensor appears.	EJB
32	Click at random at several places on the TC Trend window. Verify that no menu appears.	EJB
33	Attempt to move several objects chosen at random on the TC Trend window. Verify that none move.	EJB
34	Click on the Hide Workspace button on the TC Trend window (button marked with an X). Verify that the window disappears.	EJB
35	Click on the <del>USER CONFIGURABLE TREND GRAPH</del> button. "Temperature Trends" EJB Verify that a User Configurable Trend Graph window appears.	EJB

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STEP	DESCRIPTION	VERIFY
36	Click at random at several places on the User Configurable Trend Graph window.	<i>EJB</i>
	Verify that no menu appears.	
37	Attempt to move several objects chosen at random on the User Configurable Trend Graph window.	<i>EJB</i>
	Verify that none move.	
38	Click on the Hide Window button on the User Configurable Trend Graph window.	<i>EJB</i>
	Verify that the window disappears.	
39	Click on the Hide Window button on the Tank Status window.	<i>EJB</i>
	Verify that the window disappears.	
40	Click on the background of the Control Panel window.	<i>EJB</i>
	Verify that doing so brings the Control Panel to the top.	
41	Click on the REPORTS button on the Control Panel.	<i>EJB</i>
	Verify that the Reports window appears.	
42	Click at random at several places on the Reports window.	<i>EJB</i>
	Verify that no menu appears.	
43	Attempt to move several objects chosen at random on the Reports window.	<i>EJB</i>
	Verify that none move.	
44	Click on the Hide Window button on the Reports window.	<i>EJB</i>
	Verify that the window disappears.	
45	Click on the CURRENT ALARMS button on the Control Panel.	<i>EJB</i>
	Verify that the Current Alarms window appears.	
46	Click at random at several places on the Current Alarms window.	<i>EJB</i>
	Verify that no menu appears.	

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STEP	DESCRIPTION	VERIFY
47	Attempt to move several objects chosen at random on the Current Alarms window.  Verify that none move.	EJB
48	Click on the Hide Window button on the Current Alarms window.  Verify that the window disappears.	EJB

5.5 Sensor Labelling (tag id)

49	The system administrator will put the system in Administrator mode and bring up a TC-Sensor table.	BX101-TI- R002-07 EJB
50	Verify that sensors can have a 30 character tag name and a 40 character descriptor.	EJB

5.6 Exiting TMACS and Shutting Down the System

51	From the Master workstation, drag the TMACS display down to uncover the gray background window.  Verify that an 'Exit TMACS' option is available from a pop-up menu activated by clicking the right mouse button on the gray background.	EJB
52	Select the 'Exit TMACS' option from this menu.  Verify that the following message prompt appears:  This will stop all of the TMACS programs You will have to log back in to restart  Really exit TMACS operator interface ? [Y/N]	EJB

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STEP	DESCRIPTION	VERIFY
53	<p>Move the mouse pointer to the pop-up window and then respond to the query by entering "Y" followed by the &lt;RETURN&gt; key.</p> <p>Verify that both the TMACS Master and Slave workstations exit G2 and display the user login screen.</p>	y/b
54	<p>Repeat steps 2 through 6 to bring up the TMACS Application.</p>	y/b
55	<p>Uncover the gray background by moving the TMACS window.</p> <p>Verify that 'Shut down Entire System' is available from the pop-up menu obtained by clicking the right mouse button on the gray background.</p>	y/b
56	<p>Select the 'Shut down Entire System' option from this menu.</p> <p>Verify that the following message prompt appears:</p> <p style="padding-left: 40px;">This will stop all of the TMACS programs and shut down both systems. You will have to boot up both systems and log in to restart.</p> <p style="padding-left: 40px;">Really shut down TMACS systems ? [Y/N]</p>	y/a
57	<p>Move the mouse pointer to the pop-up window and then respond to the query by entering "Y" followed by the &lt;RETURN&gt; key.</p> <p>Verify that the Master and Slave workstations successfully shutdown by observing the text</p> <p style="padding-left: 40px;">Program terminated Type help for more information ok</p> <p>or by observing</p> <p style="padding-left: 40px;">Program terminated Type b (boot), c (continue), or n (new command mode) &gt;</p>	see exception page 15A
<p>Note: This text may not be displayed for 1 or 2 minutes.</p>		



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STEP	DESCRIPTION	VERIFY
58	Power down the systems, shutting down the Slave first (monitor, then cpu), then the Master.  Wait 15 seconds, then power up the workstations.  Verify that the system returns both workstations to the TMACS login screens.	EJB

**ATTACHMENTS:**

- Acceptance Sheet
- Exception Sheets
- Data/Verification Sheet
- Test Log

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### ACCEPTANCE SHEET

TEST PROCEDURE NUMBER: TP007

DATE: 6/6/93

ORGANIZATION NAME: JRM Chem + Waste Mgmt S/W Systems ORG#: 62610

EXCEPTION SHEETS FOR THIS TEST PROCEDURE:

TESTER	WITNESS	STEP	DATE	RESOLVED
		57	6/2/94	6/6/94
		12	6/2/94	6/6/94

COMMENTS:

All of the test steps of this test procedure have been tested and exception sheets for this test procedure have been resolved.

APPROVAL:

Conroe Jimenez 6/6/94  
 TMACS Software Test Procedure Tester Date

J.C. Campbell for John Faer 6/7/94  
 TMACS Software Test Procedure Witness Date

Patrick Scanlan 6/6/94  
 PK Scanlan, TMACS Test Procedure Software Engineer Date

Dave Spurling 6/6/94  
 DG Spurling, TMACS Software Project Manager Date

C.C. Scaief 6-7-94  
 CC Scaief, TMACS Program Engineer Date

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### EXCEPTION SHEET

TEST PROCEDURE NUMBER: TP007 STEP#: 57 DATE: 6/2/94

#### DESCRIPTION:

- #1 Attempt to shut down entire system from Slave resulted in shutdown of G-3 and Telermindas, but not shutdown of SUN-OS on the Slave
- #2 Step 12 Aborted. due to internal error

#### RESOLUTION:

DATE RESOLVED: 6/6/94

- #1 This problem was not introduced by this software release, but by the existing Unix command file. It will be handled as a problem report and given high priority.
- #2 The test step will be revised and pre-tested before the next release.

#### APPROVAL:

<u>Connie J. Jimenez</u>	<u>6/6/94</u>
TMACS Software, Test Procedure Tester	Date
<u>John Freer</u>	<u>6/7/94</u>
TMACS Software, Test Procedure Witness	Date
<u>Patrick Scanlan</u>	<u>6/6/94</u>
PK Scanlan, TMACS Test Procedure Software Engineer	Date
<u>Dave Spurling</u>	<u>6/6/94</u>
DG Spurling, TMACS Software Project Manager	Date

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### DATA/VERIFICATION SHEET

This Sheet provides a record of Personnel who are involved in testing, data recording, verifying, and evaluating the Test Procedure. This form needs to be completed before a formal test is begun.

**DIRECTIONS:**

Print the name, sign, initial, and date the below lines of the participants.

TEST PROCEDURE NUMBER: TP007

Connie Jimenez / Surveillance Temp Connie Jimenez CJ 6/2/94  
 Tester / Organization Initials Date

Ed Bourguignon / C+WMSS-SACS Ed Bourguignon EJB 6/2/94  
 Witness / Organization Initials Date

Patrick Scanlan PKS 6/6/94  
 PK Scanlan, TMACS Test Procedure Software Engineer Initials Date

Dave Spurling DS 6/2/94  
 DG Spurling, TMACS Software Project Manager Initials Date

\_\_\_\_\_  
 Name / Organization Initials Date

\_\_\_\_\_  
 Name / Organization Initials Date

\_\_\_\_\_  
 Name / Organization Initials Date

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### TEST LOG

TEST PROCEDURE NUMBER: TP007

Date: 6/6/14

TESTER: CAJ

WITNESS: JH

#### TEST LOG NOTES:

Panoflex bridge software is not running. When the  
field connections are ready it will be started up. At

Step 10 created error 138 140 Uninterrupted  
procedure execution time 'limit exceeded'

It may be necessary to increase default time  
limit from 30 seconds to several minutes  
for sensors which have 30 day history  
Suggest changing limit to 3 minutes.

G2 Aborted due to an internal error.

#### COMMENTS:

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