S

ENGINEERING CHANGE NOTICE

Page 1 of 22
272-14

1. ECN 655997

Proj.
ECN

2. ECN Category (mark one) Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedeure ☐ Cancel/Void ☐		3. Originator's Name, Organization, MSIN, and Telephone No. M. J. Holm, Process Control, R2-12, 373-1098		4. USQ Required? ☐ Yes ☒ No		5. Date 06/07/99	
		6. Project Title/No./Work Order No. Tank Monitor and Control System		7. Bldg./Sys./Fac. No. 2750E, B105		8. Approval Designator ESQ	
		9. Document Numbers Changed by this ECN (includes sheet no. and rev.) HNF-3538, Rev. 1		10. Related ECN No(s). N/A		11. Related PO No. N/A	
12a. Modification Work ☐ Yes (fill out Blk. 12b) ☒ No (NA Blks. 12b, 12c, 12d)		12b. Work Package No. N/A		12c. Modification Work Complete N/A Design Authority/Cog. Engineer Signature & Date		12d. Restored to Original Condition (Temp. or Standby ECN only) N/A Design Authority/Cog. Engineer Signature & Date	
13a. Description of Change Complete revision of document.				13b. Design Baseline Document? ☐ Yes ☒ No			
14a. Justification (mark one) Criteria Change ☐ Design Improvement ☐ Environmental ☐ Facility Deactivation ☐ As-Found ☒ Facilitate Const ☐ Const. Error/Omission ☐ Design Error/Omission ☐							
14b. Justification Details N/A							
15. Distribution (include name, MSIN, and no. of copies) See attached distribution.							

12-9-99
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ENGINEERING CHANGE NOTICE

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1. ECN (use no. from pg. 1)

ECN-655997

16. Design Verification Required ☐ Yes ☒ No	17. Cost Impact <table border="0"> <tr> <th colspan="2">ENGINEERING</th> <th colspan="2">CONSTRUCTION</th> </tr> <tr> <td>Additional</td> <td>☐ \$</td> <td>Additional</td> <td>☐ \$</td> </tr> <tr> <td>Savings</td> <td>☐ \$</td> <td>Savings</td> <td>☐ \$</td> </tr> </table>	ENGINEERING		CONSTRUCTION		Additional	☐ \$	Additional	☐ \$	Savings	☐ \$	Savings	☐ \$	18. Schedule Impact (days) Improvement ☐ Delay ☐
ENGINEERING		CONSTRUCTION												
Additional	☐ \$	Additional	☐ \$											
Savings	☐ \$	Savings	☐ \$											
19. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 13. Enter the affected document number in Block 20.														
SDD/DD ☐ Functional Design Criteria ☐ Operating Specification ☐ Criticality Specification ☐ Conceptual Design Report ☐ Equipment Spec. ☐ Const. Spec. ☐ Procurement Spec. ☐ Vendor Information ☐ OM Manual ☐ FSAR/SAR ☐ Safety Equipment List ☐ Radiation Work Permit ☐ Environmental Impact Statement ☐ Environmental Report ☐ Environmental Permit ☐	Seismic/Stress Analysis ☐ Stress/Design Report ☐ Interface Control Drawing ☐ Calibration Procedure ☐ Installation Procedure ☐ Maintenance Procedure ☐ Engineering Procedure ☐ Operating Instruction ☐ Operating Procedure ☐ Operational Safety Requirement ☐ IEFD Drawing ☐ Cell Arrangement Drawing ☐ Essential Material Specification ☐ Fac. Proc. Samp. Schedule ☐ Inspection Plan ☐ Inventory Adjustment Request ☐	Tank Calibration Manual ☐ Health Physics Procedure ☐ Spares Multiple Unit Listing ☐ Test Procedures/Specification ☐ Component Index ☐ ASME Coded Item ☐ Human Factor Consideration ☐ Computer Software ☐ Electric Circuit Schedule ☐ ICRS Procedure ☐ Process Control Manual/Plan ☐ Process Flow Chart ☐ Purchase Requisition ☐ Tickler File ☐												
20. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.														
Document Number/Revision	Document Number/Revision	Document Number/Revision												
N/A														
21. Approvals														
Signature _____ Date _____ Design Authority C. C. Scaief, III 11-8-99 Cog. Eng. M. J. Holm 10-28-99 Cog. Mgr. J. G. Field 11-2-99 QA J. S. Sparks 11-30-99 Safety P. L. Smith 11-8-99 Environ. J. D. Guberski 11/9/99 Other R. P. Tucker 11/9/99 D. A. Selle 11-9-99	Signature _____ Date _____ Design Agent _____ PE _____ QA _____ Safety _____ Design _____ Environ. _____ Other _____													
DEPARTMENT OF ENERGY														
Signature or a Control Number that tracks the Approval Signature														
ADDITIONAL														

DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution	Data Development and Interpretation	Date 9/21/99
Project Title/Work Order	EDT No. N/A	
Tank Monitor and Control System (TMACS) Version Description Document (VDD)	ECN No. 655997 655999	

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
D. A. Barnes	R2-12	X			
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R. R. Wandling	R1-01	X			

Tank Monitor and Control System (TMACS) Version Description Document

R. R. Wandling

Lockheed Martin Service, Inc., Richland, WA 99352

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Key Words: Version Description Document, VDD, TMACS, Tank Monitor and Control.

Abstract: This document updates the Version Description Document with the changes incorporated in the Revision 11.1 software installation on the Tank Monitor and Control System (TMACS).

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12/7/99
Release Approval Date

Approved for Public Release

**Tank Monitor and Control System
(TMACS)
Version Description Document**

Prepared By

Ronald R. Wandling
Lockheed Martin Services, Inc.

For

Lockheed Martin Hanford
For
US Department of Energy
Richland Operations Office
Richland, Washington

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1 INTRODUCTION

1.1 PURPOSE

This document contains configuration information for the Tank Monitor and Control System (TMACS) release 11.0. This version was installed in production on April 13, 1999.

2 DOCUMENTATION FORMAT

2.1 PROJECT IDENTIFICATION

The Tank Monitor and Control System uses a 3-layer revision descriptor. The descriptor consists of a major revision number, a minor revision number, and a "fix" number, e.g., major revision 5, minor revision 3, and fix 2 would have the identifier 5.3.2.

2.2 SYSTEM OVERVIEW

TMACS was established in 1991 under the Tank Farm Instrument Upgrade project to monitor temperatures and surface levels in the Hanford 200 area "watch list" tanks.

2.3 REFERENCED/RELATED DOCUMENTS

System Functional Requirements	WHC-SD-WM-SFR-006, Rev 1
Software Design Description	
Software Project Management Plan	
System Configuration Management Plan	HNF-SD-CSCM-019, Rev 1
Functional Requirements for the Acromag ¹ I/O Processor Interface to the Tank Monitor and Control System (TMACS)	HNF-2708, Rev. 0
Functional Requirements for the Enraf ² Gauge Interface to the Tank Monitor and Control System (TMACS)	HNF-2791, Rev. 0
Functional Requirements for the Panalarm ³ Annunciator System Interface to the Tank Monitor and Control System (TMACS)	HNF-3053, Rev. 0
Functional Requirement for the Westronics ⁴ Interface to the Tank Monitor and Control System (TMACS)	HNF-2607, Rev. 0

¹Acromag is a trademark of Acromag Incorporated, Wixom, Michigan.

²Enraf is a registered trademark of Enraf, B.V.

³Panalarm is a registered trademark of Ametek, Inc.

⁴Westronics is a registered trademark of Westronics, Inc.

2.4 VERSION DESCRIPTION

2.4.1 Software

The main processing performed by TMACS is built using the G2⁵ software product from Gensym. The knowledge bases used are in Appendix A.

Interfaces to field equipment use services written in Microsoft⁶ Visual C⁷. The serial port hardware and software were purchased from Digi⁸ International Incorporated. The source code files are listed in Appendix B through Appendix F. The executable files are listed in Appendix H and the batch files are listed in Appendix I.

2.4.2 Database

None.

2.4.3 Client Operating System and Environment

The client workstations run WindowsNT⁹ workstation 4.0.

2.4.4 Server Operating System and Environment

The WindowsNTTM server containing the G2^{*} software product from Gensym and the interfaces to field equipment runs WindowsNTTM Server 4.0 with service pack 3 installed.

2.4.5 COTS

Telewindows¹⁰ Revision 4.0 Release 2 is used for remote display of TMACS. It runs on the client workstations.

G2^{*} Revision 4.1 Release 1 is used to run the main TMACS processing.

2.4.6 Metadata

None.

2.4.7 Notes

Controlled source files are kept in SourceSafe on the \UDO computer.

2.5 CHANGE DESCRIPTION

This is the baseline for TMACS after installation of revision 11.0.

2.6 INSTALLATION INSTRUCTION

TMACS bridges are installed as services on the TMACSPROD server.

The G2^{*} executable is installed as a program on the TMACSPROD server.

⁵G2 is a registered trademark of the Gensym Corporation.

⁶Microsoft is a registered trademark of the Microsoft Corporation.

⁷Visual C is a trademark of the Microsoft Corporation.

⁸Digi is a trademark of Digi International Incorporated.

⁹WindowsNT is a trademark of Microsoft Corporation.

¹⁰Telewindows is a registered trademark of the Gensym Corporation.

TMACS G2[®] code is kept in a series of knowledge bases that are transferred to TMACSPROD for operation.

Telewindows[®] software is installed on the client workstations and requires a hardware key. A new version of Telewindows[®] is installed when a new, vendor-supplied release of G2[®] is installed.

Appendix A. TMACS Knowledge

These files are stored in the \$/TMACS/Release Files/11.1/KnowledgeBases directory.

***** htff.kb *****

User: Steve Date: 7/26/99 Time: 7:16a
Checked in \$/TMACS/Release Files/11.1/KnowledgeBases
Comment:
TMACS Release 11.1 after synchronization.

***** tmacs-lib.kb *****

User: Steve Date: 7/26/99 Time: 7:16a
Checked in \$/TMACS/Release Files/11.1/KnowledgeBases
Comment:
TMACS Release 11.1 after synchronization.
Added text to assist creating an inspect command for checking Panalarm-stations.

***** Version 20 *****

User: Steve Date: 7/13/99 Time: 8:19a
Added westronics-root.kb

***** westronics-root.kb *****

Label: Release 11.1
User: Steve Date: 7/13/99 Time: 8:19a
Created westronics-root.kb
Comment:
Author: SCC
Date: 07/06/99

TMACS Release 11.1
Label comment:

***** Version 19 *****

User: Steve Date: 7/13/99 Time: 8:08a
Added uilroot.kb

***** uilroot.kb *****

Label: Release 11.1
User: Steve Date: 7/13/99 Time: 8:08a
Created uilroot.kb
Comment:
Author: SCC
Date: 07/06/99

TMACS Release 11.1

Label comment:

***** Version 17 *****

User: Steve Date: 7/13/99 Time: 7:28a

Added tmacs-definitions.kb

***** tmacs-definitions.kb *****

Label: Release 11.1

User: Steve Date: 7/13/99 Time: 7:28a

Created tmacs-definitions.kb

Comment:

Author: SCC

Date: 07/06/99

TMACS Release 11.1

Label comment:

***** Version 16 *****

User: Steve Date: 7/13/99 Time: 7:15a

Added TMACS_Main.kb

***** TMACS_Main.kb *****

Label: Release 11.1

User: Steve Date: 7/13/99 Time: 7:15a

Created TMACS_Main.kb

Comment:

Author: SCC

Date: 07/06/99

TMACS Release 11.1

Label comment:

***** Version 15 *****

User: Steve Date: 7/13/99 Time: 6:59a

Added sys-mod.kb

***** sys-mod.kb *****

Label: Release 11.1

User: Steve Date: 7/13/99 Time: 6:59a

Created sys-mod.kb

Comment:

Author: SCC

Date: 07/06/99

TMACS Release 11.1.

Label comment:

***** Version 14 *****

User: Steve Date: 7/13/99 Time: 6:44a

Added surveillance-limit-root.kb

***** surveillance-limit-root.kb *****

Label: Release 11.1

User: Steve Date: 7/13/99 Time: 6:44a

Created surveillance-limit-root.kb

Comment:

Author: SCC

Date: 07/06/99

TMACS Release 11.1.

Label comment:

***** Version 13 *****

User: Steve Date: 7/13/99 Time: 6:33a

Added printer-root.kb

***** printer-root.kb *****

Label: Release 11.1

User: Steve Date: 7/13/99 Time: 6:33a

Created printer-root.kb

Comment:

Author: SCC

Date: 07/06/99

TMACS Release 11.1.

Label comment:

***** Version 12 *****

User: Steve Date: 7/12/99 Time: 8:03p

Added point-process.kb

***** point-process.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 8:03p

Created point-process.kb

Comment:

Author: SCC

Date: 07/06/99

TMACS Release 11.1

Label comment:

***** Version 11 *****

User: Steve Date: 7/12/99 Time: 7:51p

Added panalarm-root.kb

***** panalarm-root.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 7:51p

Created panalarm-root.kb

Comment:

Author: SCC

Date: 07/06/99

TMACS Release 11.1

Label comment:

***** Version 10 *****

User: Steve Date: 7/12/99 Time: 7:41p

Added odbcr-root.kb

***** odbcr-root.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 7:41p

Created odbcr-root.kb

Comment:

Author: SCC

Date: 07/06/99

TMACS Release 11.1

Label comment:

***** Version 9 *****

User: Steve Date: 7/12/99 Time: 7:30p

Added level.kb

***** level.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 7:30p

Created level.kb

Comment:

Author: SCC

Date: 07/06/99

TMACS Release 11.1

Label comment:

***** Version 7 *****

User: Steve Date: 7/12/99 Time: 6:23p

Added gfi-mod.kb

***** gfi-mod.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 6:23p

Created gfi-mod.kb

Comment:

Author: SCC

Date: 07/06/99

Label comment:

***** Version 6 *****

User: Steve Date: 7/12/99 Time: 5:51p

Added gensym-raised-buttons.kb

***** gensym-raised-buttons.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 5:51p

Created gensym-raised-buttons.kb

Comment:

Author: SCC

Date: 07/06/99

Label comment:

***** Version 5 *****

User: Steve Date: 7/12/99 Time: 5:21p

Added g2-database.kb

***** g2-database.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 5:21p

Created g2-database.kb

Comment:

Author: SCC

Date: 07/06/99

Label comment:

Same as file in Release 11.0

***** Version 4 *****

User: Steve Date: 7/12/99 Time: 5:09p

Added enraf-root.kb

***** enraf-root.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 5:09p

Created enraf-root.kb

Comment:

Author: SCC

Date: 07/06/99

Label comment:

***** Version 3 *****

User: Steve Date: 7/12/99 Time: 4:19p

Added data-recovery.kb

***** data-recovery.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 4:19p

Created data-recovery.kb

Comment:

Author: SCC

Date: 07/06/99

Label comment:

Same as file in Release 11.0

***** Version 2 *****

User: Steve Date: 7/12/99 Time: 1:32p

Added acromag-root.kb

***** acromag-root.kb *****

Label: Release 11.1

User: Steve Date: 7/12/99 Time: 1:32p

Created acromag-root.kb

Comment:

Author: SCC
Date: 07/06/99

TMACS Release 11.1
Label comment:

***** Version 1 *****
User: Steve Date: 7/12/99 Time: 11:33a
Created KnowledgeBases
Comment:

Appendix B. Acromag™ Bridge Code

These files are stored in the \$/TMACS/Bridges/Acromag™ directory.

***** Version 67 *****

Label: 11.1

User: Steve Date: 8/18/99 Time: 11:27a

Labeled '11.1'

Label comment:

TMACS Release 11.1

***** acromessage.aps *****

User: Steve Date: 7/07/99 Time: 9:42a

Checked in \$/TMACS/Bridges/Acromag

Comment:

TMACS Release 11.1

***** acromessage.rc *****

User: Steve Date: 7/07/99 Time: 9:42a

Checked in \$/TMACS/Bridges/Acromag

Comment:

TMACS Release 11.1

***** acro_rpc.s.c *****

User: Steve Date: 7/07/99 Time: 9:42a

Checked in \$/TMACS/Bridges/Acromag

Comment:

TMACS Release 11.1

***** acro_main.dsp *****

User: Steve Date: 7/07/99 Time: 9:42a

Checked in \$/TMACS/Bridges/Acromag

Comment:

TMACS Release 11.1

***** acro_main.dsw *****

User: Steve Date: 7/07/99 Time: 9:42a

Checked in \$/TMACS/Bridges/Acromag

Comment:

TMACS Release 11.1

***** acro_main.opt *****

User: Steve Date: 7/07/99 Time: 9:42a

Checked in \$/TMACS/Bridges/Acromag

Comment:

TMACS Release 11.1

***** acro_main.plg *****

User: Steve Date: 7/07/99 Time: 9:42a
Checked in \$/TMACS/Bridges/Acromag
Comment:
TMACS Release 11.1

***** acro.h *****

User: Steve Date: 7/07/99 Time: 9:42a
Checked in \$/TMACS/Bridges/Acromag
Comment:
TMACS Release 11.1

***** acro_bridge.c *****

User: Steve Date: 7/07/99 Time: 9:42a
Checked in \$/TMACS/Bridges/Acromag
Comment:
TMACS Release 11.1

***** set_check_init.c *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 8:15a
Labeled '11.0'
Label comment:
Same As 10.6.1

***** SERVICE.H *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 8:15a
Labeled '11.0'
Label comment:
Same As 10.6.1

***** resource.h *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 8:15a
Labeled '11.0'
Label comment:
Same As 10.6.1

***** md_linkio.h *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 8:15a
Labeled '11.0'
Label comment:
Same As 10.6.1

***** mf_functions.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 8:15a

Labeled '11.0'

Label comment:

Same As 10.6.1

***** md_errors.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 8:15a

Labeled '11.0'

Label comment:

Same As 10.6.1

***** gsi_abpi_codes.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 8:15a

Labeled '11.0'

Label comment:

Same As 10.6.1

***** gsi_utils.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 8:15a

Labeled '11.0'

Label comment:

Same As 10.6.1

***** acro_vars.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 8:15a

Labeled '11.0'

Label comment:

Same As 10.6.1

***** acro_main.ncb *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 8:15a

Labeled '11.0'

Label comment:

Same As 10.6.1

***** acro_main.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 8:15a

Labeled '11.0'
Label comment:
Same As 10.6.1

***** acro_link.c *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 8:15a
Labeled '11.0'
Label comment:
Same As 10.6.1

***** acro_exts.h *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 8:15a
Labeled '11.0'
Label comment:
Same As 10.6.1

Appendix C. Enraf® Bridge Code

These files are stored in the \$/TMACS/Bridges/Enraf® directory.

***** enraf_rpc.s.c *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** enraf_main.plg *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** enraf_main.opt *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** enraf_main.dsp *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** enraf_main.dsw *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** enraf_main.ncb *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** enraf.aps *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** enraf.h *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** enraf.rc *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** enraf_bridge.c *****

User: Steve Date: 7/07/99 Time: 9:43a

Checked in \$/TMACS/Bridges/Enraf

Comment:

TMACS Release 11.1

***** resource.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:29a

Labeled '11.0'

Label comment:

Eliminated delta masking

***** SERVICE.H *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:29a

Labeled '11.0'

Label comment:

Eliminated delta masking

***** md_linkio.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:29a

Labeled '11.0'

Label comment:

Eliminated delta masking

***** enraf_utils.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:29a

Labeled '11.0'

Label comment:

Eliminated delta masking

***** md_errors.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:29a

Labeled '11.0'

Label comment:

Eliminated delta masking

***** enraf_main.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:29a

Labeled '11.0'

Label comment:

Eliminated delta masking

***** enraf_functions.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:29a

Labeled '11.0'

Label comment:

Eliminated delta masking

***** enraf_link.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:29a

Labeled '11.0'

Label comment:

Eliminated delta masking

***** check_enraf_init.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:29a

Labeled '11.0'

Label comment:

Eliminated delta masking

Appendix D. Panalarm[®] Bridge Code

These files are stored in the \$/TMACS/Bridges/Panalarm® directory.

***** Version 24 *****

Label: 11.1

User: Steve Date: 8/18/99 Time: 11:28a

Labeled '11.1'

Label comment:

TMACS Release 11.1

***** panalarm.aps *****

User: Steve Date: 7/07/99 Time: 9:55a

Checked in \$/TMACS/Bridges/Panalarm

Comment:

TMACS Release 11.1

***** panalarm.rc *****

User: Steve Date: 7/07/99 Time: 9:55a

Checked in \$/TMACS/Bridges/Panalarm

Comment:

TMACS Release 11.1

***** gsi_main.opt *****

User: Steve Date: 7/07/99 Time: 9:55a

Checked in \$/TMACS/Bridges/Panalarm

Comment:

TMACS Release 11.1

***** gsi_main.plg *****

User: Steve Date: 7/07/99 Time: 9:55a

Checked in \$/TMACS/Bridges/Panalarm

Comment:

TMACS Release 11.1

***** gsi_main.dsp *****

User: Steve Date: 7/07/99 Time: 9:55a

Checked in \$/TMACS/Bridges/Panalarm

Comment:

TMACS Release 11.1

***** gsi_main.dsw *****

User: Steve Date: 7/07/99 Time: 9:55a

Checked in \$/TMACS/Bridges/Panalarm

Comment:

TMACS Release 11.1

***** gsi_main.ncb *****

User: Steve Date: 7/07/99 Time: 9:55a
Checked in \$/TMACS/Bridges/Panalarm
Comment:
 TMACS Release 11.1

***** set_check_init.c *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 9:39a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** resource.h *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 9:39a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** SERVICE.H *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 9:39a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** panalm_utils.c *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 9:39a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** panalm_...functions.c *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 9:39a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** panalm_link.c *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 9:39a
Labeled '11.0'

Label comment:

Same As Release 10.6.1

***** panalm_bridge.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:39a

Labeled '11.0'

Label comment:

Same As Release 10.6.1

***** panalm.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:39a

Labeled '11.0'

Label comment:

Same As Release 10.6.1

***** md_errors.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:39a

Labeled '11.0'

Label comment:

Same As Release 10.6.1

***** gsi_utils.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:39a

Labeled '11.0'

Label comment:

Same As Release 10.6.1

***** gsi_utils.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:39a

Labeled '11.0'

Label comment:

Same As Release 10.6.1

***** gsi_panalm_codes.h *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:39a

Labeled '11.0'

Label comment:

Same As Release 10.6.1

***** gsi_main.plg *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:39a

Labeled '11.0'

Label comment:

Same As Release 10.6.1

***** gsi_main.c *****

Label: 11.0

User: Ron Date: 4/21/99 Time: 9:39a

Labeled '11.0'

Label comment:

Same As Release 10.6.1

Appendix E. Printer Driver Bridge Code

These files are stored in the \$/TMACS/Bridges/Printer directory.

***** Version 15 *****

Label: 11.1

User: Steve Date: 8/18/99 Time: 11:29a

Labeled '11.1'

Label comment:

TMACS Release 11.1

***** printer_main.dsp *****

User: Steve Date: 7/07/99 Time: 9:46a

Checked in \$/TMACS/Bridges/Printer

Comment:

TMACS Release 11.1

***** printer_main.dsw *****

User: Steve Date: 7/07/99 Time: 9:46a

Checked in \$/TMACS/Bridges/Printer

Comment:

TMACS Release 11.1

***** printer_main.opt *****

User: Steve Date: 7/07/99 Time: 9:46a

Checked in \$/TMACS/Bridges/Printer

Comment:

TMACS Release 11.1

***** printer_main.plg *****

User: Steve Date: 7/07/99 Time: 9:46a

Checked in \$/TMACS/Bridges/Printer

Comment:

TMACS Release 11.1

***** alarmprinter.aps *****

User: Steve Date: 7/07/99 Time: 9:46a

Checked in \$/TMACS/Bridges/Printer

Comment:

TMACS Release 11.1

***** alarmprinter.rc *****

User: Steve Date: 7/07/99 Time: 9:46a

Checked in \$/TMACS/Bridges/Printer

Comment:

TMACS Release 11.1

***** SERVICE.H *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:41a
 Labeled '11.0'
 Label comment:
 Same As Release 10.6.1

***** resource.h *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:41a
 Labeled '11.0'
 Label comment:
 Same As Release 10.6.1

***** printer_bridge.c *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:41a
 Labeled '11.0'
 Label comment:
 Same As Release 10.6.1

***** printer_main.c *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:41a
 Labeled '11.0'
 Label comment:
 Same As Release 10.6.1

***** printer.h *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:41a
 Labeled '11.0'
 Label comment:
 Same As Release 10.6.1

***** gsi_utils.c *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:41a
 Labeled '11.0'
 Label comment:
 Same As Release 10.6.1

***** gsi_utils.h *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:41a

Labeled '11.0'

Label comment:

Same As Release 10.6.1

Appendix F. Westronics[®] Bridge Code

These files are stored in the \$/TMACS/Bridges/Westronics® directory.

***** Version 21 *****

Label: 11.1

User: Steve Date: 8/18/99 Time: 11:29a

Labeled '11.1'

Label comment:

TMACS Release 11.1

***** westronic.aps *****

User: Steve Date: 7/07/99 Time: 9:47a

Checked in \$/TMACS/Bridges/Westronics

Comment:

TMACS Release 11.1

***** westronic.rc *****

User: Steve Date: 7/07/99 Time: 9:47a

Checked in \$/TMACS/Bridges/Westronics

Comment:

TMACS Release 11.1

***** west_main.opt *****

User: Steve Date: 7/07/99 Time: 9:47a

Checked in \$/TMACS/Bridges/Westronics

Comment:

TMACS Release 11.1

***** west_main.plg *****

User: Steve Date: 7/07/99 Time: 9:47a

Checked in \$/TMACS/Bridges/Westronics

Comment:

TMACS Release 11.1

***** west_rpc.s.c *****

User: Steve Date: 7/07/99 Time: 9:47a

Checked in \$/TMACS/Bridges/Westronics

Comment:

TMACS Release 11.1

***** west_bridge.c *****

User: Steve Date: 7/07/99 Time: 9:47a

Checked in \$/TMACS/Bridges/Westronics

Comment:

TMACS Release 11.1

***** west_main.dsp *****

User: Steve Date: 7/07/99 Time: 9:47a
 Checked in \$/TMACS/Bridges/Westronics
 Comment:
 TMACS Release 11.1

***** west_main.dsw *****

User: Steve Date: 7/07/99 Time: 9:47a
 Checked in \$/TMACS/Bridges/Westronics
 Comment:
 TMACS Release 11.1

***** west_main.ncb *****

User: Steve Date: 7/07/99 Time: 9:47a
 Checked in \$/TMACS/Bridges/Westronics
 Comment:
 TMACS Release 11.1

***** west.h *****

User: Steve Date: 7/07/99 Time: 9:47a
 Checked in \$/TMACS/Bridges/Westronics
 Comment:
 TMACS Release 11.1

***** west_main.c *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:44a
 Labeled '11.0'
 Label comment:
 Same As Release 10.6.1

***** west_link.c *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:44a
 Labeled '11.0'
 Label comment:
 Same As Release 10.6.1

***** SERVICE.H *****

Label: 11.0
 User: Ron Date: 4/21/99 Time: 9:44a
 Labeled '11.0'
 Label comment:
 Same As Release 10.6.1

***** set_check_init.c *****

Label: 11.0
User: Ron Date: 4/21/99 Time: 9:44a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** resource.h *****
Label: 11.0
User: Ron Date: 4/21/99 Time: 9:44a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** md_errors.h *****
Label: 11.0
User: Ron Date: 4/21/99 Time: 9:44a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** mf_functions.c *****
Label: 11.0
User: Ron Date: 4/21/99 Time: 9:44a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** gsi_utils.c *****
Label: 11.0
User: Ron Date: 4/21/99 Time: 9:44a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

***** gsi_abpi_codes.h *****
Label: 11.0
User: Ron Date: 4/21/99 Time: 9:44a
Labeled '11.0'
Label comment:
 Same As Release 10.6.1

Appendix G. Windows NT Common Code

These Files are stored in the \$/TMACS/Bridges/WinNT Common Code directory.

***** Version 22 *****

Label: 11.1

User: Steve Date: 8/18/99 Time: 11:29a

Labeled '11.1'

Label comment:

TMACS Release 11.1

***** set_physio_nt.c *****

User: Steve Date: 6/09/99 Time: 12:39p

Checked in \$/TMACS/Bridges/WinNT Common Code

Comment:

Modified Null flag to exclude deleting NULLs.

***** MSG00001.bin *****

Label: 10.6.1

User: Ron Date: 8/06/98 Time: 1:28p

Labeled '10.6.1'

Label comment:

New drivers converted from UNIX to NT.

***** SERVICE.C *****

Label: 10.6.1

User: Ron Date: 8/06/98 Time: 1:28p

Labeled '10.6.1'

Label comment:

New drivers converted from UNIX to NT.

***** servicemain.c *****

Label: 10.6.1

User: Ron Date: 8/06/98 Time: 1:28p

Labeled '10.6.1'

Label comment:

New drivers converted from UNIX to NT.

***** servicemsg.apc *****

Label: 10.6.1

User: Ron Date: 8/06/98 Time: 1:28p

Labeled '10.6.1'

Label comment:

New drivers converted from UNIX to NT.

***** servicemsg.h *****

Label: 10.6.1
User: Ron Date: 8/06/98 Time: 1:28p
Labeled '10.6.1'
Label comment:
 New drivers converted from UNIX to NT.

***** servicemsg.mc *****

Label: 10.6.1
User: Ron Date: 8/06/98 Time: 1:28p
Labeled '10.6.1'
Label comment:
 New drivers converted from UNIX to NT.

***** servicemsg.rc *****

Label: 10.6.1
User: Ron Date: 8/06/98 Time: 1:28p
Labeled '10.6.1'
Label comment:
 New drivers converted from UNIX to NT.

Appendix H. Bridge Code Executable Files

These files are stored in the \$/TMACS/Release Files/11.1/Bridge Executables directory.

Label: 11.1
 User: Steve Date: 8/18/99 Time: 11:37a
 Labeled '11.1'
 Label comment:
 TMACS Release 11.1

***** Version 6 *****

User: Steve Date: 7/12/99 Time: 3:41p
 Added westronic_driver.exe

***** westronic_driver.exe *****

Label: Release 11.1
 User: Steve Date: 7/12/99 Time: 3:41p
 Created westronic_driver.exe
 Comment:
 TMACS Release 11.1
 Compiled using Visual C++ Ver. 6.0
 Label comment:

***** Version 5 *****

User: Steve Date: 7/12/99 Time: 3:30p
 Added tmacs_printer_driver.exe

***** tmacs_printer_driver.exe *****

Label: Release 11.1
 User: Steve Date: 7/12/99 Time: 3:30p
 Created tmacs_printer_driver.exe
 Comment:
 TMACS Release 11.1
 Compiled using Visual C++ Ver. 6.0
 Label comment:

***** Version 4 *****

User: Steve Date: 7/12/99 Time: 3:13p
 Added panalm_driver.exe

***** panalm_driver.exe *****

Label: Release 11.1
 User: Steve Date: 7/12/99 Time: 3:13p

Created panalm_driver.exe
Comment:
TMACS Release 11.1
Compiled using Visual C++ Ver. 6.0
Label comment:

***** Version 3 *****

User: Steve Date: 7/12/99 Time: 2:40p
Added enraf_driver.exe

***** enraf_driver.exe *****

Label: Release 11.1
User: Steve Date: 7/12/99 Time: 2:40p
Created enraf_driver.exe
Comment:
TMACS Release 11.1
Compiled using Visual C++ Ver. 6.0
Label comment:

***** Version 2 *****

User: Steve Date: 7/12/99 Time: 1:58p
Added acromag_driver.exe

***** acromag_driver.exe *****

Label: Release 11.1
User: Steve Date: 7/12/99 Time: 1:58p
Created acromag_driver.exe
Comment:
TMACS Release 11.1
Compiled using Visual C++ Ver. 6.0
Label comment:

***** Version 1 *****

User: Steve Date: 7/12/99 Time: 11:32a
Created Bridge Executables
Comment:

Appendix I. DOS Batch Files

These files are stored in the \$/TMACS/TMACSTools.

***** startsrv.bat *****

Label: 11.0

User: Ron Date: 4/23/99 Time: 9:06a

Labeled '11.0'

Label comment:

Batch Files Used in NT version of TMACS

***** stopsrv.bat *****

Label: 11.0

User: Ron Date: 4/23/99 Time: 9:06a

Labeled '11.0'

Label comment:

Batch Files Used in NT version of TMACS

***** TMACSPrint.bat *****

Label: 11.0

User: Ron Date: 4/23/99 Time: 9:06a

Labeled '11.0'

Label comment:

Batch Files Used in NT version of TMACS