ENGINEERING CHANGE NOTICE

2. ECN Category
(mark one)
- Supplemental
- Direct Revision (X)
- Change ECN
- Temporary
- Standby
- Supersede
- Cancel/Void

3. Originator's Name, Organization, MSIN, and Telephone No.
M. J. Holm, Process Control,
R2-12, 373-1098

4. USO Required?
[X] Yes  [ ] No  06/07/99

5. Date

6. Project Title/No./Work Order No.
Tank Monitor and Control System
2750E, B105

7. Bldg./Sys./Fac. No.
2750E

8. Approval Designator
ESQ

9. Document Numbers Changed by this ECN
HNF-3538, Rev. 1

10. Related ECN No(s).
[ ] Yes  [ ] No

11. Related PO No.
[ ] Yes  [ ] No

12a. Modification Work
[X] No (NA Blks. 12b, 12c, 12d)

12b. Work Package No.
N/A

12c. Modification Work Complete
N/A

12d. Restored to Original Condition (Temp. or Standby ECN only)
N/A

13a. Description of Change
Complete revision of document.

13b. Design Baseline Document?
[ ] Yes  [X] 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.

A-7900-013-2 (05/96) GEF095
16. Design Verification Required
[X] Yes  [ ] No

17. Cost Impact

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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.

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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.

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<tr>
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<td>C. C. Scaife, III</td>
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<tr>
<td></td>
<td>11/8/99</td>
<td>Design Agent</td>
</tr>
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<td>D. A. Selle</td>
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DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

ADDITIONAL
## DISTRIBUTION SHEET

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<th>Name</th>
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**Project Title/Work Order**  
Tank Monitor and Control System (TMACS) Version Description Document (VDD)

**From**  
Data Development and Interpretation

**To**  
DI STRIBU TION

**Page 1 of 1**

**Date**  
9/21/99

**EDT No.**  
N/A

**ECN No.**  
655997
Tank Monitor and Control System (TMACS)
Version Description Document

R. R. Wandling
Lockheed Martin Service, Inc., Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

EDT: 655997  UC: 605
Org Code: 07kba  Charge Code:
B&R Code: EW3120071  Total Pages: 3

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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Approved for Public Release

A-6400-073 (01/97) GEF321
## Change Control Record

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A-7320-005 (08/91) WEF168
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-000, Rev 1 |
| Software Design Description | |
| Software Project Management Plan | |
| System Configuration Management Plan | HNF-SD-CSCM-019, Rev 1 |
| Functional Requirements for the Acromag I/O Processor Interface to the Tank Monitor and Control System (TMACS) | HNF-2708, Rev. 0 |
| Functional Requirements for the Enraf Gauge Interface to the Tank Monitor and Control System (TMACS) | HNF-2791, Rev. 0 |
| Functional Requirements for the Panaalarm Annunciator System Interface to the Tank Monitor and Control System (TMACS) | HNF-3053, Rev 0 |
| Functional Requirement for the Westronics Interface to the Tank Monitor and Control System (TMACS) | HNF-2607, Rev. 0 |

1 Acromag is a trademark of Acromag Incorporated, Wixom, Michigan.
2 Enraf is a registered trademark of Enraf, B.V.
3 Panaalarm is a registered trademark of Anemec, Inc.
4 Westronics 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 G2 software product from Gensym. The knowledge bases used are in Appendix A.

Interfaces to field equipment use services written in Microsoft Visual C. The serial port hardware and software were purchased from Digi 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 Windows NT workstation 4.0.

2.4.4 Server Operating System and Environment
The Windows NT server containing the G2 software product from Gensym and the interfaces to field equipment runs Windows NT Server 4.0 with service pack 3 installed.

2.4.5 COTS
Telewindows 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.

---

G2 is a registered trademark of the Gensym Corporation.
Microsoft is a registered trademark of the Microsoft Corporation.
Visual C is a trademark of the Microsoft Corporation.
Digi is a trademark of Digi International Incorporated.
WindowsNT is a trademark of Microsoft Corporation.
Telewindows 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.

*************** httf.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 odbc-root.kb

************************ odbc-root.kb ****************************
Label: Release 11.1
User: Steve    Date: 7/12/99 Time: 7:41p
Created odbc-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:
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_rpc5.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/Acroiiiag
Comment:
   TMACS Release 11.1

*************** acro.h ***************
User: Steve       Date: 7/07/99 Time: 9:42a
Checked in $/TMACS/Bridges/Acroiiiag
Comment:
   TMACS Release 11.1

*************** acro_bridge.c ***************
User: Steve       Date: 7/07/99 Time: 9:42a
Checked in $/TMACS/Bridges/Acroiiiag
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_rpcs.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 *******************
*************** 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

*************** nd_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

<table>
<thead>
<tr>
<th>Label:</th>
<th>11.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>User:</td>
<td>Ron</td>
</tr>
<tr>
<td>Date:</td>
<td>4/21/99</td>
</tr>
<tr>
<td>Time:</td>
<td>9:29a</td>
</tr>
<tr>
<td>Labeled:</td>
<td>'11.0'</td>
</tr>
<tr>
<td>Label comment:</td>
<td>Eliminated delta masking</td>
</tr>
</tbody>
</table>

### enraf_main.c

<table>
<thead>
<tr>
<th>Label:</th>
<th>11.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>User:</td>
<td>Ron</td>
</tr>
<tr>
<td>Date:</td>
<td>4/21/99</td>
</tr>
<tr>
<td>Time:</td>
<td>9:29a</td>
</tr>
<tr>
<td>Labeled:</td>
<td>'11.0'</td>
</tr>
<tr>
<td>Label comment:</td>
<td>Eliminated delta masking</td>
</tr>
</tbody>
</table>

### enraf_functions.c

<table>
<thead>
<tr>
<th>Label:</th>
<th>11.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>User:</td>
<td>Ron</td>
</tr>
<tr>
<td>Date:</td>
<td>4/21/99</td>
</tr>
<tr>
<td>Time:</td>
<td>9:29a</td>
</tr>
<tr>
<td>Labeled:</td>
<td>'11.0'</td>
</tr>
<tr>
<td>Label comment:</td>
<td>Eliminated delta masking</td>
</tr>
</tbody>
</table>

### enraf_link.c

<table>
<thead>
<tr>
<th>Label:</th>
<th>11.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>User:</td>
<td>Ron</td>
</tr>
<tr>
<td>Date:</td>
<td>4/21/99</td>
</tr>
<tr>
<td>Time:</td>
<td>9:29a</td>
</tr>
<tr>
<td>Labeled:</td>
<td>'11.0'</td>
</tr>
<tr>
<td>Label comment:</td>
<td>Eliminated delta masking</td>
</tr>
</tbody>
</table>

### check_enraf_init.c

<table>
<thead>
<tr>
<th>Label:</th>
<th>11.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>User:</td>
<td>Ron</td>
</tr>
<tr>
<td>Date:</td>
<td>4/21/99</td>
</tr>
<tr>
<td>Time:</td>
<td>9:29a</td>
</tr>
<tr>
<td>Labeled:</td>
<td>'11.0'</td>
</tr>
<tr>
<td>Label comment:</td>
<td>Eliminated delta masking</td>
</tr>
</tbody>
</table>
Appendix D. Panalarm™ Bridge Code

These files are stored in the $/TMACS/Bridges/Panalarin® 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/Panalarin
Comment:
TMACS Release 11.1

*************** panalarm.rc ***************
User: Steve Date: 7/07/99 Time: 9:55a
Checked in $/TMACS/Bridges/Panalarin
Comment:
TMACS Release 11.1

*************** gsi_main.opt ***************
User: Steve Date: 7/07/99 Time: 9:55a
Checked in $/TMACS/Bridges/Panalarin
Comment:
TMACS Release 11.1

*************** gsi_main.plg ***************
User: Steve Date: 7/07/99 Time: 9:55a
Checked in $/TMACS/Bridges/Panalarin
Comment:
TMACS Release 11.1

*************** gsi_main.dsp ***************
User: Steve Date: 7/07/99 Time: 9:55a
Checked in $/TMACS/Bridges/Panalarin
Comment:
TMACS Release 11.1

*************** gsi_main.dsw ***************
User: Steve Date: 7/07/99 Time: 9:55a
Checked in $/TMACS/Bridges/Panalarin
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

*************** ind_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.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.aps  **************************
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  **************************
New drivers converted from UNIX to NT.

New drivers converted from UNIX to NT.

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