

# Table of Contents

## PREFACE

Introduction .....	1-1
Organization of the Operations Manual .....	1-1
General Information .....	1-2
Language Selection .....	1-2
Alternate Consoles .....	1-3
Multiple Printers .....	1-3
Reports and Screens .....	1-3
Special Function Keys .....	1-3
Data Interrupt Keys.....	1-4
Edit Mode Key .....	1-4
Invoking the Field Editor .....	1-5
Screen Browser Function Keys .....	1-6
Pattern Search Keys .....	1-8
Program Criteria .....	1-9
Alternate Consoles .....	1-9
Multiple Printers .....	1-9
Capitalization .....	1-9
Office Name Abbreviations .....	1-9
Dash Placement .....	1-10
Non-Essential Alphabetical Characters .....	1-10
List/Range Syntax .....	1-10
Office Name Syntax .....	1-10
Task Number Syntax .....	1-11
Selecting Devices by Device Number .....	1-11
Selecting Devices by Access Number .....	1-11
Selecting Devices When Access Number Translation Enabled .....	1-12
Special Wildcard Entry .....	1-12
Spreadsheet Selection .....	1-13
Kilo and Mega Data Values .....	1-13
Quit/Logoff .....	1-14
Help Screens .....	1-14
Choosing an Option That Is Not Displayed .....	1-14
Question Mark .....	1-14
Arrow Keys .....	1-14
Number Keys .....	1-15
Default Option .....	1-15
Time Default .....	1-15
Documentation Conventions .....	1-15
Case Sensitivity .....	1-15
Typographic Conventions .....	1-15
PressureMAP Device Type and TD Type Tables .....	1-16

## PRESSUREMAP

Introduction .....	2-1
Getting Started .....	2-2
The Master Menu .....	2-3
PressureMAP Options and Functions .....	2-3
Dispatch Priorities .....	2-3
Device Histories .....	2-4
Specific Device Information .....	2-4
System Indexing .....	2-4
CPAMS Information .....	2-4
User Support .....	2-5
USAM Information .....	2-5
Quit .....	2-5
Mega Office Support .....	2-5
Dispatch Priorities .....	2-6
Selecting Offices for the Dispatch Report .....	2-7
Analyzing the Dispatch Report .....	2-7
Priority Level Ratings .....	2-9
Star Ratings .....	2-9
Routine Ratings .....	2-10
Aged Dispatches .....	2-10
Sharp Sign Ratings .....	2-10
CLRD Dispatches .....	2-10
Dispatch Activity Status Line .....	2-11
The LONG Dispatch Priorities Report Option .....	2-11
The Detailed Task Report .....	2-12
Analyzing the Detailed Task Report .....	2-13
System Error Messages .....	2-15
Reading the System Error Messages .....	2-16
Device Histories .....	2-17
Device Histories Reports .....	2-17
Examples of Device History Reports .....	2-18
Device History Menu Options .....	2-19
History of Entire Office .....	2-20
History of All Devices on a Pipe/Sector .....	2-20
History of All Devices at a Location Code .....	2-20
History of All Devices at a Utility Hole/Address .....	2-20
History of All Devices on a Cable/Sheath .....	2-21
History of All Devices by Type .....	2-21
History of All Devices Disabled .....	2-21
History of All Devices by Current Reading .....	2-21
Non-Variance ("Stuck" TD's) .....	2-22
History of All Devices By Sort Key .....	2-22
List History of Another Office .....	2-23
Screen Browser Function Keys .....	2-23
Print Commands .....	2-23
Extended Device History Information .....	2-23
Using the Device History Wildcard Character .....	2-24

Wildcard Example with History of Devices on a Pipe/Sector .....	2-25
Wildcard Example with History of Devices at a Manhole/Address .....	2-26
Analyzing the Device History Reports .....	2-26
Displayed Irregularities .....	2-26
Specific Device Information.....	2-27
Specific Device Reports .....	2-27
Realtime Device Readings .....	2-29
Editing the Extended Device Information Comments Screen .....	2-30
Editing the Cable Readings Screen.....	2-30
Editing the Sheath(s) Data Field .....	2-31
Analyzing Specific Device Reports .....	2-32
Displayed Irregularities .....	2-32
System Indexing .....	2-32
The System Index .....	2-32
Office Index .....	2-34
Calculating the Index .....	2-35
CPAMS Information .....	2-36
CPAMS Information Menu .....	2-37
CPAMS Configuration Report .....	2-38
Device Log Report .....	2-39
Extended Device Log Data .....	2-40
Device Log By Location Report .....	2-41
Device Log By Location Report Fields .....	2-44
Device Status Report .....	2-44
Device Status by Pipe Report .....	2-46
Device Discrepancy Report .....	2-48
Chatlos/Hercules Reports .....	2-49
Sparton Reports .....	2-50
Backup CPAMS .....	2-51
Automatic Backups .....	2-51
Manual Backups .....	2-52
Restore CPAMS .....	2-53
Backing Up and Restoring Chatlos/Hercules Monitoring Systems .....	2-54
Backing Up and Restoring Sparton Monitoring Systems .....	2-55
Program CPAMS — Specific Devices.....	2-56
Initiating Auto Programming Function (for Individual Devices) .....	2-57
Program CPAMS — All Devices.....	2-58
List CPAMS Info For Another Office .....	2-59
User Support .....	2-60
USAM Information .....	2-60
Viewing USAM Configuration Information .....	2-60
Loading the USAM .....	2-62
Quit.....	2-63
Exiting the System .....	2-63

## ALARMMAP

Introduction.....	3-1
Alarm Dispatching .....	3-2
Distribution Method .....	3-3

Detailed Task Report .....	3-5
Alarm Summary Information .....	3-6
Office Name and Wire Center Identification .....	3-6
Specific Device Information .....	3-6
Associated Task Information.....	3-6
Projected Leak Location.....	3-6
Receiving Alarms on Alphanumeric Pagers .....	3-8
Receiving Alarms via Email .....	3-8
Brief Report .....	3-9
Condensed Report.....	3-10
Dispatch Alarm Clearing Notification .....	3-10
Dispatch Alarms vs. Dispatch Priorities .....	3-10
Task Numbers and Dispatch Dates .....	3-11
High Priority (\$) Device Types.....	3-12
Receiving Alarms from CPAMS Monitors .....	3-12
Programming CPAMS Monitors for AlarmMAP .....	3-13
Dispatch Histories.....	3-14
Finding the Dispatch Histories Menu .....	3-14
Setting the Beginning and Ending Dates .....	3-15
Setting the Daily Viewing Period .....	3-15
Resetting to the Default Values.....	3-16
View Dispatch Histories .....	3-17
History by Task Number.....	3-17
History by Device Number .....	3-18
History by Pipe .....	3-18
History by Location .....	3-19
History by Dispatch Log Entry Type .....	3-19
Completing the View Dispatch Histories Record .....	3-20
Selecting Another Office .....	3-21
Quit Dispatch Histories .....	3-21
Alarm vs Time of Day Report.....	3-22
Finding the Alarm vs Time of Day Report Menu .....	3-22
Setting Viewing Dates and Times .....	3-23
Resetting Dates and Viewing Period to Default .....	3-24
Viewing Alarm vs Time of Day Report .....	3-25
Selecting Another Office .....	3-25
Quit Alarm vs Time of Day Report .....	3-26
Daily Alarm Summary Report .....	3-26
Finding the Daily Alarm Summary Report Menu .....	3-26
Setting Viewing Dates and Times .....	3-27
Resetting Dates and Viewing Period to Default .....	3-28
Viewing Daily Alarm Summary Report .....	3-29
Selecting Another Office.....	3-29
Quit Daily Alarm Summary Report .....	3-30
Alarm Summary Report.....	3-30
Finding the Alarm Summary Report Menu .....	3-31
Setting Viewing Dates and Times .....	3-32
Resetting Dates and Viewing Period to Default .....	3-33
Viewing Alarm Summary Report .....	3-33

Selecting Another Office .....	3-34
Quit Alarm Summary Report .....	3-34
Alarm vs Device Type Report.....	3-34
Finding the Alarm vs Device Type Report Menu .....	3-35
Setting Viewing Dates and Times .....	3-36
Resetting Dates and Viewing Period to Default .....	3-37
Viewing Alarm vs Device Type Report .....	3-37
Selecting Another Office.....	3-40
Quit Alarm vs Device Type Report.....	3-40
Distribute Alarm Dispatches to Centers .....	3-40
Acknowledge Dispatch Alarms .....	3-42
Finding the Acknowledge Dispatch Alarms Menu.....	3-43
Viewing an Alarm .....	3-44
Acknowledging and Viewing Alarms.....	3-44
Send Test Alarm to Center .....	3-46
Finding the Send Test Alarm to Center Menu .....	3-46
Quit AlarmMAP Master Menu.....	3-47

## **REPORTMAP**

Introduction.....	4-1
Dispatcher .....	4-1
General Information .....	4-1
The Dispatch Report .....	4-2
The Device Status Report .....	4-4
Sending Unscheduled Dispatch Reports.....	4-5
Pin Selector.....	4-7
General Information .....	4-7
Pin Selector for the 289 LSS.....	4-7
Accessing Pin Selector Functions.....	4-8
Printing Access Number Logs .....	4-10
Analyzing Access Number Logs.....	4-11
Dedicating an Access Number .....	4-12
Releasing an Access Number .....	4-14
LSS Configuration.....	4-15
View Another Office .....	4-15
Pin Selector for the E2A Remote Terminal .....	4-16
Accessing Pin Selector Functions.....	4-16
Printing Access Number Logs .....	4-18
Analyzing Access Number Logs.....	4-19
Dedicating an Access Number .....	4-21
Releasing an Access Number .....	4-23
View Another Office .....	4-24

## **CABLEMAP**

Introduction.....	5-1
CableMAP Reports.....	5-1
CableMAP Master Menu .....	5-2
Summary Activity Logs Menu .....	5-3

All Activities on File.....	5-7
Activities by Opening Number.....	5-7
Activities by Date .....	5-7
Activities by a Technician.....	5-8
Activities for a Job/Task Number.....	5-8
Activities at a Manhole/Address .....	5-8
Activities at a PressureMAP Location .....	5-8
Activities on a Pipe.....	5-9
Activities for a Cable/Count.....	5-9
Activities Not Yet Closed.....	5-9
Recent Activities for all Technicians (TechFinder).....	5-9
Accessing Complete Activity Logs Menu .....	5-10
All Activities on File.....	5-13
Activities by Opening Number.....	5-13
Activities by Date .....	5-14
Activities by a Technician.....	5-14
Activities for a Job/Task Number.....	5-14
Activities at a Manhole/Address .....	5-15
Activities at a PressureMAP Location .....	5-15
Activities on a Pipe.....	5-15
Activities for a Cable/Count.....	5-15
Activities Not Yet Closed.....	5-16
Recent Activities for all Technicians (TechFinder).....	5-16
CableMAP Express Login .....	5-17
Enhanced PressureMAP and AlarmMAP Reports .....	5-17
CableMAP and the Detailed Task Report .....	5-18

## **HAND-HELD TERMINAL ACCESS**

Introduction.....	6-1
Hand-Held Terminal Access Operations.....	6-1
Setting up a Hand-Held Terminal .....	6-3
Accessing the MAP System Computer.....	6-3
Examining Specific Device Information .....	6-4
Realtime Readings with a Hand-Held Terminal.....	6-6
Logging a Cable Opening with a Hand-Held Terminal .....	6-8
Logging a Cable Closing with a Hand-Held Terminal .....	6-10
Viewing a Cable Opening File with a Hand-Held Terminal .....	6-12
Editing a Cable Opening File with a Hand-Held Terminal.....	6-14
List Dispatch Task Numbers with a Hand-Held Terminal .....	6-15
Quitting the Hand-Held Access Program .....	6-16

## **USER INITIATED OPERATIONS**

Introduction.....	7-1
Updating Office Information .....	7-1
Updating Device Readings .....	7-1
Regenerating Dispatch Priorities .....	7-3
Regenerating System Indexes.....	7-3
Viewing MAP Data Files.....	7-4

View MAP Data Files Menu .....	7-4
Viewing Alarm Error Files .....	7-6
Analyzing Alarm Error Files.....	7-8
Erasing Alarm Error Files.....	7-9
Examples of "Good" Alarms.....	7-10
289H Alerts .....	7-14
USAM Alarm Format.....	7-14
Viewing Mail Log Files.....	7-15
Returned Mail Message Log File.....	7-17
Unexpected Mail Message Log File .....	7-18
Mail Messages Not Sent Log File .....	7-19
Custom Reports .....	7-20
Custom Reports Menu.....	7-20
Standards Report .....	7-22
Report Fields .....	7-23
Additional Custom Reports.....	7-25
SQI Report.....	7-25
OAU Report.....	7-26
Alarm Report.....	7-28
Flat Cable Report .....	7-29
Standards -B Report.....	7-30
Standards Report (Rev. C).....	7-32
Standards Report (Rev. D).....	7-34
SBC Standards Report .....	7-36
BellSouth Standards Report.....	7-38
Quality Report.....	7-39
Verbose Mode.....	7-39
Character Delimited Mode.....	7-40
Reset 289 Phone Tables .....	7-42

## ***CPAMS DIAGNOSTICS***

Introduction.....	8-1
289H LSS Diagnostics .....	8-1
289H Board Numbering Conventions.....	8-3
Procedures for the 289H LSS Diagnostics Tests.....	8-4
Access Number Translations .....	8-6
The 289H LSS Diagnostics Tests.....	8-7
System Configuration.....	8-8
Calibration Test .....	8-10
Realtime Reading Test .....	8-11
Specific Device Info .....	8-16
Capacitance Test .....	8-16
Ping Relays Test .....	8-17
Cold Reset .....	8-18
Leakage Test .....	8-19
AC Test .....	8-19
DC Test .....	8-20
Pair Diagnostics.....	8-21

289H Device Alert Options .....	8-22
Dialout Phone Number Information .....	8-22
Device Alert Information .....	8-24
289H LSS Dedicated Tone Capability .....	8-24
Get Tone Settings.....	8-25
Set Tone Default .....	8-26
Route Tone.....	8-26
289H LSS Addressable Capability.....	8-27
Erase AMC Flash.....	8-28
Pair Realtime Reading Test .....	8-28
289 LSS Diagnostics .....	8-29
The 289 LSS Diagnostics Tests .....	8-30
System Configuration.....	8-30
Calibration Test .....	8-31
Realtime Reading Test .....	8-32
Specific Device Info .....	8-34
Capacitance Test .....	8-34
Ping Relays Test .....	8-35
Cold Reset .....	8-36
PressureMAP Tables.....	8-37
Diagnostic Interface for Other CPAMS .....	8-39
Procedures for Diagnostic Interface .....	8-39
Using CPAMS Diagnostics to Access a Teleducer 50 .....	8-42
<b>GLOSSARY.....</b>	<b>9-1</b>

## **COMPUTER MAINTENANCE**

Introduction.....	10-1
Procedure to Back Up MAP System .....	10-2
Traditional Backup Menu Functions.....	10-4
Backing Up MAP System Files to Tape .....	10-5
BackupEDGE Backup Menu Functions.....	10-5
Backing Up MAP System Files to DVD.....	10-7
Backing Up to Remote Computer via FTP .....	10-7
Procedure to Shut Down the Computer.....	10-8
Procedure to Shut Down and Reboot the Computer .....	10-10

## **APPENDIX 1**

CPAMS Reading Messages.....	A1-1
-----------------------------	------

## **APPENDIX 2**

Dispatch Conditions.....	A2-1
--------------------------	------

## **APPENDIX 3**

System Error List-Introduction .....	A3-1
File I/O Errors-100 to 256 .....	A3-1

Program Execution Errors-260 to 294 .....	A3-10
Nicotra Error Messages-300 to 309.....	A3-12
Chatlos Error Messages-312 to 339.....	A3-13
MAP System Access Errors-340 to 342 .....	A3-15
Hercules Error Messages-347 to 369.....	A3-15
TCP/IP Socket Error Messages-370 to 379 .....	A3-16
File Error Messages-381 to 384 .....	A3-17
Data Export Protocol Error Messages-391 to 397 .....	A3-17
Sparton Error Messages-400 to 432 .....	A3-18
Lancier 101 Monitor Error Messages-440 to 450.....	A3-20
Telsec Error Messages-451 to 457.....	A3-21
uM260 Micro Monitor Error Messages-449 & 458 .....	A3-22
Dial-a-Ducer Error Messages-460 to 464.....	A3-22
Program Error Messages-470 to 499 .....	A3-23
Lancier 1005 Monitor Error Messages-520 to 530.....	A3-24
Nicotra Error Messages-531 to 551.....	A3-25
SSI 289H LSS Error Messages-552 to 577 .....	A3-26
File Error Messages-580 to 594 .....	A3-29
USAM Error Messages-640 to 643.....	A3-30
E2A Error Messages-620 to 639 .....	A3-30
General System Errors-645 to 967 .....	A3-31
TMACS 1000 Error Messages-969 to 989 .....	A3-45
General System Errors-990 to 991 .....	A3-47

## APPENDIX 4

Task Dispatch Procedures-Introduction .....	A4-1
Task Dispatch Procedure #1 .....	A4-1
Task Dispatch Procedure #2 .....	A4-3
Task Dispatch Procedure #3 .....	A4-3
Task Dispatch Procedure #4 .....	A4-4
Task Dispatch Procedure #5 .....	A4-5
Task Dispatch Procedure #6 .....	A4-5
Leak Locating Worksheets .....	A4-6

## APPENDIX 5

Report Fields-Introduction .....	A5-1
Report Field Definitions .....	A5-1
Detailed Task Report .....	A5-13
Device History Report .....	A5-14
Specific Device Reports.....	A5-14

## APPENDIX 6 (Not Available in all Areas)

Positive Air Flow-Introduction.....	A6-1
How Positive Air Flow Works With PressureMAP .....	A6-1
New Device Types.....	A6-2
Return Manifold Flow Transducer .....	A6-2
Return Pipe Flow Transducer.....	A6-2

Return Pipe Pressure Transducer .....	A6-3
Realtime Device Readings.....	A6-3