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## REPORT FIELDS & SAMPLE REPORTS

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This section contains a glossary of terms that pertains to the fields in many reports generated by the MAP System, followed by sample reports. These samples include the Detailed Task Report, the Specific Device Report, the CPAMS Configuration Report and the Device Histories Report. The newer AlarmMAP reports and Custom Reports are also shown.

The sample reports are presented in the order of the options on the MAP System master menus. (See the menu flowcharts in the first section of this guide.) Following the CableMAP screen samples are brief instructions for using the Hand-Held Terminal login to log, edit, view and close cable openings from the field.

### A

For Lancier devices, the one-character assignment designation is entered in this field.

### *Access #*

The Access Number field appears only if "User Defined Devices" are turned on. This field holds the actual access number as defined by the monitoring unit.

- 289H: the relay card and pin number where the device is connected, and the address number and channel designator (if the device is an addressable transducer)
- E2A: the LARP pin identification number to which a device is wired
- Chatlos: the pin numbers
- Sparton: the device number (the first three numbers in the location field)
- TMACS: the Index Number
- Lancier: the specific card type, slot number (for the Lancier 1005), two digit channel number, and unit number (for addressable transducers)
- Nicotra: the cable number and transducer number (for transducers), or contact number (for contact alarms)

### *Address*

The device location (utility hole #, street address, central office panel location, etc.). PressureMAP uses the information in this data field in the programming of Sparton 5300B, 5318, Chatlos L3 and Hercules 940 monitors.

### *Aerial std, Buried std, Undgnd std*

These three fields determine the cable pressurization standards used by the office. PressureMAP automatically defaults to these minimum pressure standards:

- Aerial cable—2 PSI or 10.0 KPA
- Buried cable—3 PSI or 30.0 KPA
- Underground cable—5 PSI or 30.0 KPA

If your minimum cable pressure standards differ from the ones listed above, then you will need to enter the pressure standards appropriate to your area into these data fields.

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### ***Alert Sensitivity***

This field of the Office Information Screen holds the 289H alert sensitivity level, which is a number between 1 and 5. The number 1 is the least sensitive alert detection setting and 5 is the most sensitive. Since the higher sensitivity settings will cause the 289H monitor to send out a greater number of alert calls, it is recommended that 3 be used until you can determine which level will work best with your pressure system.

### ***ALRM***

One of the fields located on the *Device Status by Pipe Route Report*, this field contains the PressureMAP-assigned star rating (level) for any alarm conditions displayed in the report.

### ***Alrm Priority***

This field is used to identify one of three possible Sparton alarm classifications: "N" for none, "M" for minor, and "J" for major. These designations are used by PressureMAP when programming a Sparton 5300B or 5318 monitor.

### ***Averages***

The Averages section of the Device History Report has four columns that represent weekly averages for the past four weeks of readings.

### ***Baudrate***

The speed at which the monitoring unit communicates with another device, such as PressureMAP.

### ***Buried std***

See *Aerial std*, *Buried std*, *Undgnd std*.

### ***Cable***

The "read" cable which contains the transducer conductor pairs.

### ***Cable Readings***

The cable readings screen is only accessible if the device has defined at least one sheath in the Sheath field of the primary device screen. When full, it can contain six sets of manually input cable readings, with each set of readings containing a date stamp and a manual flow reading for each sheath. The sheaths match the sheaths entered on the primary device screen and the single manually input Manifold/PSI reading applies to all of the cable readings.

### ***Calculated***

The "Calculated" row of data contains the device readings for the current day as well as the past 6 days. **Tdy** represents the reading taken during the daily poll of devices; "-1" lists yesterday's reading, "-2" the reading taken the day before, and so on through "-6." In addition, the last four columns of this section represent weekly averages for the past four weeks of readings.

### ***Chg***

This field appears only for single feed pressure device types GP, HP, and JP, along with the **THR** field. The **CHG** field is the amount of change that can be tolerated before the device goes into alarm.

### ***Chng***

This field is used in conjunction with the \$F, \$V, and \$P devices, as well as the **STD** and **SAU** fields. The **CHNG**, or change, field is the amount of change (either in pressure or flow, depending on the type of high priority device) that can be tolerated before the device goes into alarm. For pressure

devices, the CHNG value is how many PSI can drop from the value indicated in the **STD** field before an alarm condition is acknowledged. For flow devices, the CHNG value indicates how many SCFH the device increases before an alarm is given.

### ***CIRC***

For Lancier systems, the circuit (cable designation) identity of the device is entered in this field. This cable designation **must** be entered for each device in both the Lancier monitor and PressureMAP to enable PressureMAP to obtain “realtime” readings.

### ***CKT #***

For Chatlos/Hercules and TMACS systems, the circuit number of the device is displayed in this position. PressureMAP uses the information in this data field when programming Chatlos L3 and Hercules 940 monitors.

### ***Condition***

This data field on the Dispatch Report and Detailed Task Report provides a summary explanation of the condition causing the dispatch or alarm.

### ***Contact Type***

This field appears only for Nicotra contact alarms. It designates either the value NC (normally closed) or NO (normally open).

### ***Curr***

The column of data appearing on several PressureMAP reports which contains the most current reading obtained from a device (see also *Last* and *Tdy*). This could be the last polled reading taken within the two hour call cycle, a realtime reading for the device, or a monitor-generated alarm/alert reading.

### ***Debounce***

For Nicotra systems, this field specifies the “debounce” time for contact alarms, entered in seconds using a decimal point. When the contact alarm relays are activated, there may be a momentary “chatter” (on/off). The debounce time is the period of time to wait while the relay settles to a final value. The default value for this field is 8.0 (seconds).

### ***Delay***

The Sparton CPAMS **DELAY** field works in conjunction with the **TRIGGER** field, and needs to be completed only if the device in question is a Contact Alarm. DELAY represents the delay time, in seconds, after which the Sparton CPAMS repeats its scan to confirm or deny the alarm condition reported by the device. The following key should be used to enter the delay time:

- 0** No Delay
- 1** 3 Second Delay
- 2** 6 Second Delay
- 3** 9 Second Delay

PressureMAP uses the information in this data field when programming Sparton 5300B and 5318 monitors. There is also a Delay field in the device records for Chatlos and Hercules monitors. This information is also used, if applicable, when programming these monitors.

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### *Delivery std*

Enter the source delivery pressure standard for your office into this field. PressureMAP uses a default value of 7.5 Pounds per Square Inch (PSI). Note that you will not have to make an entry if this standard applies to your office. For an air pipe system, this value should be the desired delivery pressure at the end of the air pipe. However, this field is also used for the distribution panel delivery pressure standard for a single feed office (typically 10 PSI in this application). If you do change the default setting, the delivery pressure standard must be entered in tenths of a PSI, and the value must be between 0.0 and 10.0.

### *Device #*

This field lists the Device Number, indicating the actual monitoring device being represented in the report. For detailed information on the letter-coding method used on Chatlos and Sparton systems, please consult Table A2-1, titled "CPAMS Letter Coding" in Appendix 2.

### *Device Comments*

This screen gives field craftsmen the ability to input device related remarks. These remarks, which can be entered from the PressureMAP Specific Device Information menu selection as well as from data entry, are date/time stamped when entered and can contain up to two lines of text, which equals 124 characters.

### *Distance*

This Office Information field will accept either S-M (Sheath Mile), TUBE-M (Tube Mile) or , if the International capability is enabled, S-K (Sheath Kilometer) or TUBE-K (Tube Kilometers) as the unit of measure.

### *Distance 1*

The distance in kilofeet (thousands of feet) between the reporting device and Office 1 Location.

### *Distance 2*

The distance in kilofeet (thousands of feet) between the reporting device and Office 2 Location.

### *Enabled*

This Nicotra contact alarm field may be set to Y or N.

### *Error #*

Beginning with PressureMAP Version 27, the Dispatch Priorities Report includes System Alarm information that pertains to the individual office(s). The **Condition** field describes the type of System Error (if applicable), and the **Error #** is a three digit reference designation.

### *Escalation*

The **Escalation** field indicates the number of times that the device has gone in and out of alarm before the Chatlos or Hercules issues an escalation alarm. PressureMAP uses the entry (a number between 1 and 99) for its Chatlos programming utility.

### *Field 1 Loc (FLD)*

The PressureMAP Location Number for the first device to the field side of the reporting device.

### *Field 2 Loc*

The PressureMAP Location Number for the second device to the field side of the reporting device, if there is a second pipe route extending from the reporting device into the field.

### ***Flow***

This field will only appear on the Office Information Screen if the International capability has been enabled. The units of measure for this field can be LPH (Liters per Hour) or SCFH (Standard Cubic Feet per Hour).

### ***Flow std***

This field holds the office air flow standard, measured in Standard Cubic Feet per Hour (SCFH). The program default setting is 1.25 SCFH. This standard is based on the OAU figure per sheath mile of cable. If this standard applies to your office, then you will not need to change the field value. However, if the air flow standard that you use in your office differs from the default value, then you will need to set the Flow standard. Values entered are in units of hundredths of SCFH, and can be between 0.50 and 9.99 SCFH.

### ***In***

A data field contained on the *Device Status by Pipe Report*, which indicates how many days a device has been in alarm.

### ***Input # (Inp #)***

The designation number used in Sparton systems that designates the Frame Interconnect Block pin where the device pair terminates. PressureMAP uses the information in this data field in the programming of Sparton 5300B and 5318 monitors.

### ***Last***

The column of data that contains the last recorded device reading—the one obtained prior to the current (*Curr*) reading. As devices are polled during the scheduled calling cycle, the newest reading is placed in the *Curr* column and the reading that previously occupied this position is shifted to the *Last* column.

### ***Last backed up***

Date of last successful manual or automatic CPAMS backup procedure.

### ***Last restored***

Date of the last successful manual or automatic CPAMS restoration procedure.

### ***Latitude***

This text field has the following format: ldd+mm.mmm, with l designating which hemisphere the latitude applies to (one of the single letters: N or S); dd is an integer between 00 and 90 that indicates the degrees of latitude; and mm.mmm is an integer between 0.0 and 59.999 that designates the minutes of latitude.

When adding new devices, the **Latitude** field is carried over to the new device, so the default value for this field will be derived from the last device added.

### ***Level***

This field represents the alarm level of the Chatlos monitor. PressureMAP uses the information in this data field when programming Chatlos L3 and Hercules 940 monitors.

### ***Level 1, Level 2***

These two fields hold the alarm levels from the Lancier printout's LVL1 and LVL2 columns. For flow measuring devices, these values are the flow rate at which the device will go into alarm. For

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pressure measuring devices, the level values represent the minimum pressure levels of the device. PressureMAP does not alarm on these input from these two fields; they are for record keeping purposes only.

### ***Line # (Lin No.)***

This device data form entry field indicates the line position on the Sparton printout where the device appears. PressureMAP uses the information in this data field in the programming of Sparton 5300B and 5318 monitors.

### ***Loc (Location)***

The unique PressureMAP location number for all devices at a particular location in the pressurization system. This number is designated during data entry and shall not be duplicated within an office.

### ***Location***

The column of data on the *Device Status by Pipe Report* which contains the address or physical location of a device. *Location* reflects the associated column heading on a Sparton device status report.

### ***Longitude***

This text field has the following format: hfff+mm.mmm, with h designating which hemisphere the longitude applies to (one of the following single letters: E or W); fff is an integer between 000 and 180 that indicates the degrees of longitude; and mm.mmm is an integer between 0.0 and 59.999 that designates the minutes of longitude.

When adding new devices, the **Longitude** field is carried over to the new device, so the default value for this field will be derived from the last device added.

### ***Loop***

This field must be filled in for all contactors, to specify the loop resistance value for an alarm reading. This value is the total loop resistance in kilohms from the central office to an operated contactor (a contactor in an alarm state) and back to the office.

### ***Manifold/PSI***

This field in the Cable Readings Screen contains the single, manually input Manifold/PSI reading. This reading applies to all of the cable readings.

### ***MAP Alert #***

This field of the Office Information Screen is used for 289H and 289H-M monitors ONLY. The phone number or IP address that the 289H will use to send out alerts to PressureMAP is recorded here.

### ***Map Alert Baudrate***

In this data field you can designate the baud rate of the PressureMAP modem that receives 289H LSS alert information. The default setting is 2400 baud, although 300, 1200, 4800 and 9600 baud are also supported depending on which EPROM version is installed in the 289H. It is important to note, however, that if other CPAMS equipment (such as a Sparton or Chatlos) is also being monitored by the PressureMAP system, the baudrate entered in this field must be appropriate for all monitor types. For example, if a Sparton office sends alert information to PressureMAP at 1200

baud maximum, you cannot enter a higher baudrate in this field even if your 289H modem capability is 2400 baud or greater.

For 289H/H-M monitors using a network connection to PressureMAP, the required value for this field is 9600.

### ***Modem Site***

This field is only for offices using the Digi PortServer II serial port concentrator. The field must be filled out to select which PortServer the office will use for outgoing and incoming calls. The name must be eight characters or less.

### ***Module***

The designated module type to which the device is wired. Valid module types are as follows:

#### Chatlos/Hercules Monitors

Chatlos L1:	DT (dedicated), ST (subscriber), SS (status alarm), VF (volume counter), RC (contactor)
Chatlos L2:	DT (dedicated), ST (subscriber), MA (status alarm), MF (volume counter), MC (contactor), TT (addressable)
Chatlos 600:	DT (dedicated), ST (subscriber), MA (status alarm), MF (volume counter), MC (contactor), TT (addressable), SA (high priority status alarm)
Chatlos MPUZ:	DT (dedicated), ST (subscriber), SS (status alarm), MF (volume counter), RC (contactor)
Chatlos L3:	DT (dedicated), ST (subscriber), MA (status alarm), MF (volume counter), MC (contactor), TT (addressable)
Hercules 740/940:	DT (dedicated), ST (subscriber), MA (status alarm), MF (volume counter), MC (contactor), TT (addressable), SA (high priority status alarm)

Sparton (all): DED (dedicated), SUB (subscriber), BIN (status alarm/volume counter), ADD (addressable), D (long haul)

Please note that PressureMAP uses the information in the Module data field in the programming of Sparton 5300B and 5318 monitors.

### ***Monitor Type***

The make (or type) of CPAMS monitoring system in use.

### ***Nicotra Type***

This field contains the Nicotra identifier for the pressure transducer hardware. It may be a number from 0-128. The field is initialized to 8 (for a standard device type); it may also be 12 (long distance device type).

### ***Norm***

This field needs to be completed for all contactors and contact alarms. The value entered should reflect what the device reads in its normal, non-alarm state.

### ***Number of Devices***

The number of devices entered in the CPAMS database.

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## **OFF**

Office. The location code of the neighboring device location on the office side of a device. Also listed is the number of kilofeet (KF) between the two locations.

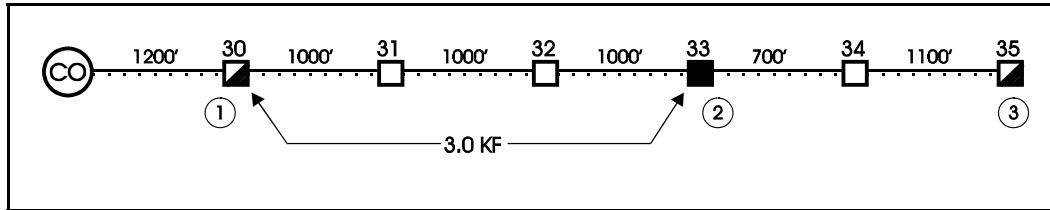


FIGURE 1

In Figure 1, Location 1 would be the Office 1 location compared to Location 2, and Location 3 would be the Field 1 location when compared to Location 2.

## **Office 1 Loc (OFF)**

The PressureMAP Location Number for the first device to the office side of the reporting device. Also listed is the number of kilofeet (KF) between the two locations (Device Log Report only).

## **Office 2 Loc**

The PressureMAP Location Number for the second device to the office side of the reporting device, if there is a second pipe route between the reporting device and the office.

## **Office Mode**

This field allows you to "Enable" or "Disable" an entire PressureMAP office. If you are in the process of entering data for a new office, and the monitor and devices are not yet wired, the entire database may be disabled from normal MAP functions, and enabled whenever you wish. The default is set to Enable.

## **Office Name**

The name of the central office or wire center is entered in this field. PressureMAP office names may be composed of up to 20 alphanumeric characters, with the first 8 characters being unique to each office.

## **Optimum Air Usage (OAU, OAU/Shth)**

1.25 SCFH (or 30 SCFD) per sheath mile of cable; 2 or 5 SCFH per tube mile (depending on office type). Based on sheath or tube mileage, the OAU figure represents the calculated air consumption a pressurized cable network should use under standard operating conditions. (OAU is also known as the "allowable leak rate.") This information is reported only for flow or volume devices (device types ending with the letters "F" or "V").

## **Password 1**

This password allows a user access to the CPAMS monitor, for viewing CPAMS data and commanding reports.

## **Password 2**

Password 2 is the CPAMS higher level access code (used for editing CPAMS data).



### ***Phone #***

The subscriber telephone number assigned to the pair on which the monitoring device is wired. If the device is connected to a dedicated or addressable module, no value will appear in this field.

### ***Phone Number***

The telephone number used by PressureMAP to access information from the CPAMS computer. For 289H/H-M monitors using a network connection to PressureMAP, this field contains the IP address for the 289H.

### ***Pipe***

The air pipe, central office sector, or remote dryer with which the device is associated. For sorting purposes, all PressureMAP devices must have a pipe designation.

### ***Plat #***

Plat number. The reference number for the telco-generated record of pressure/flow transducer placement.

### ***Pressure***

This field will only appear on the Office Information Screen if the International capability has been enabled. It controls the type of pressure device that can be entered into an office. The two units of measure that can be entered are KPA (Kilo-Pascals) or PSI (Pounds per Square Inch).

### ***Prim Cable***

The primary "read" cable which contains the transducer conductor pairs.

### ***Prim Pair***

The designation of the primary conductor pair to which the device is connected.

### ***Priority (PR)***

Chatlos systems use this data field to provide one of eight possible priority numbers. PressureMAP uses the information in this data field when programming Chatlos L3 and Hercules 940 monitors.

### ***Program Flag***

This field is used with PressureMAP's CPAMS Programming utility. A "Y" designation indicates that you wish to have certain monitor-specific fields programmed into the Sparton, Chatlos or Hercules CPAMS when Option 8 of the CPAMS Information Menu is selected. The default or "N" entry indicates that you do not want the device record programmed into the CPAMS. The designation in this field is ignored if you select Option 9 (Program All Devices) from the CPAMS Information Menu. (Note that the CPAMS Programming utility is available only for Sparton 5300B and 5318 monitors, Chatlos L3s and Hercules 940s.)

### ***PSI***

For contactors (all device types ending with a "C" in the device type code), this field displays the minimum air pressure standard for which the contactor is set. For a pressure device, this is an offset field that shifts the device reading by the value entered in the field. Note that in Dial-a-Ducer applications this field's value does not affect the pressure readings in PressureMAP.

### ***Range (Ran)***

Flow transducers display a number that signifies the maximum reading capacity of the device. For

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example, a common flow range for a type "SF" ("source flow") transducer is 0-50 SCFH. The value that appears in the **Range** data field is "50.0."

### **Reading**

The two columns **Curr** and **Last** contain the current and last pressure or flow readings. If you are not using AlarmMAP (which acquires data every two hours), the **Last** column will remain blank and the **Curr** and **Tdy** readings will be the same.

### **Reading Times**

Dates and times of the current, last, and today readings PressureMAP has gathered from the CPAMS unit.

### **Reference (Ref)**

The calibrated air pressure of a flow transducer in a Positive Air Flow (PAF) system.

### **Relay**

For Nicotra devices, this number designates the alarm relay number (0-3).

### **Remarks**

This line displays a 70-character message pertinent to the device. Remarks are placed in this field during data entry, and saved with the office data until removed or edited.

### **Recognition**

The "alarm recognition delay" field represents the number of seconds (between 1 and 999) that an alarm condition must persist before it is recognized as a genuine alarm by the Chatlos or Hercules. PressureMAP does NOT use this information to process or generate alarms. The entry in this field is used only for the programming of the Chatlos L3 or Hercules monitors via PressureMAP.

### **SAU**

The Standard Air Usage of high priority flow devices (\$F and \$V). The value in this field should be the normal, stable flow of the device.

### **Scan Option**

One of five possible values that identifies the number of retries, the scan interval and the average number or readings expected by the Sparton when polling for device readings. The information in this field is used by PressureMAP when programming devices into a Sparton 5300B or 5318 monitor.

### **Sec Pair**

A pre-assigned backup pair of conductors available for use if the primary pair becomes defective.

### **Settled Readings**

The Settled Readings section of the Device History Report has seven columns of data: one for each day of the week. **Tdy** represents the reading taken during the normal early morning calling cycle. The other six columns (labeled from -1 to -6) list the readings obtained over the past six days.

### ***Sharp Sign Ratings***

A sharp sign (#) displayed in the level column on a dispatch report indicates that more than one device at the same location is in alarm. When more than one dispatch condition is found at a specific location, all dispatches will be grouped into one dispatch listing, and will be given a Sharp Sign Rating.

### ***Sheath(s)***

For a pressure device, the value(s) given identifies the cable being monitored. For a flow device, the number(s) indicates the cables being fed by the monitored air pipe manifold, Flow Finder Manifold or distribution panel.

### ***S-M***

The Sheath Mile (S-M) field only applies to devices that monitor air flow. If the device in question is a flow monitoring device, the calculated Sheath Miles are entered into this field. The Sheath Miles for a Source FTD is equal to the sum of the manifold Sheath Miles. (This includes the distribution panel Sheath Miles if it is fed by the pipe panel.)

Although Sheath Miles for each flow device should be recorded on the respective stickmaps, this information is sometimes not present. Be sure to enter all calculated Sheath Miles on stickmaps which lack this information.

### ***Sort Key***

This field is for user-defined device sorting. Sort Key designations may hold a maximum of four alphanumeric characters. Option 10 of the Device Histories Menu uses this field to generate reports for all devices with the same Sort Key designation.

### ***STD***

This field will be displayed only for high priority pressure transducers (\$P devices). This value is the standard, normal PSI value of the transducer.

### ***Stickmap***

The primary pressure record for an office. The stickmap is a graphic layout of a route showing all cables, utility holes transducers, air pipes, etc. The stickmap number is the reference number for pressure and flow transducer placement.

### ***Summary Information***

"Summary Information" is a one-line description of a problem. The daily dispatches describe the five worst problems for each office in a summary information section. That line includes a task number, a device number, a brief description of the nature of the problem, and the level of dispatch that PressureMAP has assigned to it. Additional information about the problem is available in Detailed Task Reports.

### ***Tdy***

During PressureMAP's midnight data shift, the reading in the *Last* column is shifted to the *Tdy* column. At 3:00 a.m. another scheduled call is made to determine the Tdy stabilized reading. This reading is used for alarm, priority and SQI calculations.

### ***Threshold (Th)***

A programmed setting in the CPAMS that determines when a device comes into alarm, (e.g. recordings that drop below the threshold generate an alarm as do flow readings above the

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programmed threshold). The name of a data entry field. For a Sparton device, it contains the programmed Sparton threshold for the specific monitoring device. PressureMAP uses the information in this data field when it is instructed by a user to program a Sparton 5300B or 5318 monitor.

### ***THR***

This field appears only for single feed pressure device types GP, HP, and JP, along with the **CHG** field. If the pressure drops below the threshold value (THR) at any time, a four star dispatch alarm will be issued.

### ***Thr 1, Thr 2***

These two fields hold the threshold values programmed into the Nicotra for pressure transducers. Each value is a number from 800-2000 (hertz). PressureMAP does not alarm on the input from these two fields; they are for record keeping purposes only.

### ***TP***

This is the single letter Chatlos/Hercules device type designation on the Chatlos or Hercules printout. PressureMAP uses the information in this data field when programming a Chatlos or Hercules monitor.

### ***Trigger +/-***

This field needs to be completed for Contact Alarm device types only. TRIGGER describes the operational condition selected when the device is in an alarm state. The following codes should be used to describe the device:

- + A FAULT alarm is reported when normally open contacts close.
- A FAULT alarm is reported when normally closed contacts open.
- +/- A FAULT alarm is reported when a normally open contacts close and a CLEAR alarm is reported when they open after being closed.
- /+ A FAULT alarm is reported when normally closed contacts open and a CLEAR alarm is reported when they close after being open.

PressureMAP uses the information in this data field when programming Sparton 5300B and 5318 monitors.

### ***Trunk/Toll Tolerance***

This office information field specifies a give-or-take value (in ohms) for contactor readings. In the field, several contactors are normally wired to a single pair. Because of this, when a contactor goes into alarm, PressureMAP must have some way to determine which contactor on the pair is in an alarm state. To facilitate the searching procedure, PressureMAP keeps a table of values, listing the loop resistance value of each contactor if it should go into alarm. If a contactor does go into alarm, PressureMAP is able to compare the current reading of the pair with the table of contactor resistance values. When PressureMAP finds a value in the table that equals the pair reading, then the contactor that is in alarm has been found.

However, the exact resistance value of an operated contactor cannot normally be predicted. Because of this, when PressureMAP reads a loop resistance value, it must allow for some give-or-take of the

value read in order to match a value in the contactor table. The Trunk/Toll Tolerance data field specifies the give-or-take value that is allowed when attempting to match a loop resistance reading against the table of operated contactor values.

PressureMAP gives this data field a default value of 80 ohms. This means that a contactor is considered to be in an alarm state if the reading received by PressureMAP falls within 80 ohms, give-or-take, of the listed loop resistance value of the contactor.

### ***Tube Miles (TUBE-M)***

An alternative to calculating sheath miles when determining an air source's Optimum Air Usage (OAU). To calculate the Tube Miles for a flow device, the number of tubes that feed cables from the monitored air source need to be counted. Depending upon office type, either a value of 2 or 5 SCFH per tube mile is used in calculating OAUs. The Tube-M value (flow per tube) is entered in the Office Information Screen. PressureMAP then automatically generates an OAU based on the number of tubes entered for each monitored air source during device data entry.

### ***TY-K***

For Lancier systems, this four-character field contains the sensor type and kind, separated by a dash.

### ***Type (T)***

A two letter device type identification denoting the type of device and its application in the pressurization system (see Table 3-2, "PressureMAP Device Types" in this guide). Typically, the first letter pertains to the location or application of the device, and the second letter represents the device type. For example, "UP" describes an underground pressure transducer.

### ***Undgnd std***

See *Aerial std*, *Buried std*, *Undgnd std*.

### ***Unit # (Un, Units)***

This data entry field pertains only to Sparton monitoring systems. It represents the grouping or category of data which contains the device in question. For example, all flow transducers may be assigned the same Unit Number. Similarly, all of the devices on a specific route could be grouped together and given the same Unit Number. PressureMAP uses the information in this data field in the programming of Sparton 5300B and 5318 monitors.

### ***User Defined Devices***

This field allows you to turn "on" or "off" the user defined device number feature for a particular office. By default, PressureMAP will turn user-defined device numbers to OFF, and scrutinize each device number as it is entered into the data editor to make sure that the device code and number conform to the CPAMS type designation and numbering system. However, with user-defined device numbering in effect (ON), customized device codes can be used to help identify the device.

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## **SAMPLE PRESSUREMAP REPORTS**

The preceding glossary of terms pertains to the fields in many of the reports PressureMAP can generate. Examples of most of these reports are provided in this section.

### **Dispatch Priorities Report**

PressureMAP Dispatch Priorities not only analyzes, prioritizes and specifies the day's five most critical dispatches, but it also tells you how to correct the problem causing each dispatch.

With each dispatch reported, a task number, device number, alarm condition and priority level is displayed. A more detailed report can be obtained for any of the noted dispatches by selecting one of the task numbers listed in the Dispatch Report. Please note that beginning with PressureMAP Version 26 seven digit hexadecimal task numbering is used. The first three digits represent the numeric Julian date, where January 1 equals 001. The four alphanumeric characters listed after the Julian date represent a hexadecimal base 16 order number assigned by the system. With hexadecimal numbering up to 65,535 unique task numbers are represented by unique four-character alphanumeric designations.

```
Dispatch Priorities (Day 002)                                PressureMAP XX.XX.XX
01/02/2007 14:57                                           System Studies Incorporated
-----
1. SCRUZ7
-----
Task #  Device #  Condition                                           Level
-----
0020760  T -010  UG Cable PSI TD dropped 6.0 psi in under 24 hrs  ****
ALRM                                           ACKN
002012A  T -112  Manifold flow increased 8.0 scfh in under 24 hrs  ****
ALRM ACKN                                       MNTC
00201FA  T -044  Manifold flow increased 7.9 scfh in under 24 hrs  ****
ALRM                                           **
0020614  T -126  Aerial Cable PSI TD dropped 3.0 psi in under 24 hrs  **
CONSOLE                                         **
002C801  T -030  Underground PSI TD came into error (OPEN) in 48 hrs  **
CONSOLE                                         **
System Alarms for SCRUZ7
-----
Task #  Error #  Condition                                           Level
-----
0020089   375  Can't connect to socket (SCRUZ7)                    ****
ALRM                                           **

Task Dispatching for which Task #?
```

### DISPATCH PRIORITIES

# REPORT FIELDS & SAMPLE REPORTS

## Detailed Task Report

The Detailed Task Report provides you with data concerning the device signaling a dispatch and a list of devices that have been affected by the dispatch condition. In addition to this information, a recommended leak locating procedure and graphic is given to help minimize the time spent correcting the problem.

```

Task Dispatching Info for <OFFICE, TASK#, DEVICE>          PressureMAP XX.XX.XX
07/02/2006 17:29                                         System Studies Incorporated
-----
Task #  Device #  Condition                                                    Level
-----
002001B  T -069  Manifold/meter panel flow increased 5.0 scfh in 24 hrs ****
                                     Reading was 11.0 scfh at 17:18 on 07/02/98 VALIDATED

Task Dispatch Procedure #3

Probable Cause:  Leak Close to Flow Device, Construction
                  Intervention, Pair Trouble.
Procedure:  Use Worksheets B or C to Determine Area of Search /
            Locate Trouble / Check the Cable Pair.

Device #:  T -069                      Type:  MF  Range: 20.0  S-M: 15.0
Address:   MH-5, CENTER AVE           Loc:   26  Pipe:   A  OAU: 18.7
Sheath(s): 01   07   13

Cable:    01      Prim Pair:   896      Sec Pair:   R      Sort Key:
Plat #:    Stickmap:   1              Phone:

Latitude: N36+25.999  Longitude: E122+15.000

Office 1 Loc: 25      Distance 1 (kf): 3.0      Field 1 Loc: 27
Office 2 Loc:      Distance 2 (kf):      Field 2 Loc:

Remarks:

Readings  Curr Last  Tdy  -1  -2  -3  -4  -5  -6  Wk-1 Wk-2 Wk-3 Wk-4
-----
          11.0 11.0 11.0  6.0  5.5  6.0  6.0  5.5  6.0  6.0  6.0  6.0  6.0
=====
ASSOCIATED DEVICES TOWARD THE OFFICE
=====

Device #:  T -068                      Type:  UP
Address:   MH-4, CENTER AVE           Loc:   25  Pipe:   A
Sheath(s): 01

Readings:  Curr Last  Tdy  -1  -2  -3  -4  -5  -6  Wk-1 Wk-2 Wk-3 Wk-4
-----
          6.5  6.5  6.5  8.0  8.0  8.0  8.0  8.0  8.0  8.0  8.0  8.0  8.0

***** PROJECTED LEAK LOCATION *****
*
*                               LOC 26
*          <- OFFICE           MH-5, CENTER AVE           FIELD ->
*                               TD T -069           TYPE MF
*          MH-4, CENTER AVE           11.0 SCFH
*
*
* < 25 >-----[ LEAK ]
*                               <- 3.0KF ->
*
*
*
*
*****

```

DETAILED TASK REPORT

# MAP SYSTEM QUICK REFERENCE

## Device History Report

The Device History Menu gives nine report options: history of the entire office, history of all devices on a pipe/sector, at a location code, at a manhole/address, on a cable/sheath, by type, all devices disabled, by current reading, and a Non-Variance Report ("Stuck" TDs).

Selecting *History of all devices by current reading*, and then entering device type **UP** and a reading **<3.0** from the Device History Menu will display a report similar to the one below.

```

Device History of COWTOWN, UP <3.0 Readings
07/02/2006 11:41
                                PressureMAP XX.XX.XX
                                System Studies Incorporated
-----
Device #   TP  .READING.  .SETTLED READINGS.  .AVERAGES.
           TP  Curr Last Tdy  -1  -2  -3  -4  -5  -6  Wk-1 Wk-2 Wk-3 Wk-4
-----
002-12    UP  2.5  2.5  2.5  2.5  2.5  2.5  2.5  2.5  2.5  2.5  2.5  2.5  2.5
Pipe: A    Location: 601      MH-601 6TH & OAK PPE PTD
002-13    UP  1.5  1.5  1.5  1.5  1.5  2.0  2.0  2.0  2.0  2.2  2.2  2.0  2.5
Pipe: E    Location: 226      MH-226 C/O 6TH & YUBA BHAA-4
002-27    UP  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0
Pipe: D    Location: 262      MH 262 RAMIREZ & 11TH KDAC-6
002-28    UP  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5
Pipe: D    Location: 262      MH 262 RAMIREZ & 11TH ADTC-6
002-31    UP  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
Pipe: D    Location: 262      MH 262 RAMIREZ & 11TH PPD
    
```

HISTORY OF ALL UP DEVICES WITH A READING OF < 3.0

Selecting device type **ALL** and a reading of **OPEN** from the Device History Menu will display a report similar to the one below.

```

Device History of APTOS2, "ALL OPEN" Readings
07/02/2006 09:16
                                PressureMAP XX.XX.XX
                                System Studies Incorporated
-----
Device #   TP  .READING.  .SETTLED READINGS.  .AVERAGES.
           TP  Curr Last Tdy  -1  -2  -3  -4  -5  -6  Wk-1 Wk-2 Wk-3 Wk-4
-----
T -065    UP  OPEN  OPEN  OPEN  OPEN  9.0  9.0  2.0  OPEN  9.0  1.0  8.5  3.3  5.7
T -088    AP  OPEN  OPEN  OPEN  OPEN  OPEN  OPEN  OPEN  OPEN  OPEN  OPEN  OPEN  OPEN
    
```

HISTORY OF ALL DEVICES WITH A READING OF OPEN

The following examples show device histories in "Browser" and extended (X) formats for PIPE AC in the APTOS2 office. Listing by device number (as shown in the first example) is the default version of the report generated. A listing by access number is generated by using the # command function—for example, **2#**, as shown in the sample screen that follows.



# REPORT FIELDS & SAMPLE REPORTS

```

Keystrokes: [Quit <Esc>] [Down 'J'] [Up 'K'] [Help 'H'] [Print 'P']
[Search Forward 'F'] [Search Back 'B'] [Search Next 'N']
-----
                Device History of APTOS2, Pipe AC
      .READING. ....SETTLED READINGS.....AVERAGES.....
Device # TP  Curr Last  Tdy  -1  -2  -3  -4  -5  -6  Wk-1 Wk-2 Wk-3 Wk-4
-----
T -004  EP   8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5
T -009  SF  15.0 15.0 15.0 15.5 15.0 15.5 15.0 15.0 15.0 15.5 15.5 15.0 15.0
T -013  UP   8.0  8.0  8.0  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.4  8.3  8.5  8.5
--- More Below -----
    
```

DEVICE HISTORY LISTINGS (by Device Number)

```

Keystrokes: [Quit <Esc>] [Down 'J'] [Up 'K'] [Help 'H'] [Print 'P']
[Search Forward 'F'] [Search Back 'B'] [Search Next 'N']
-----
                Device History of APTOS2, Pipe AC
      .READING. ....SETTLED READINGS.....AVERAGES.....
Access # TP  Curr Last  Tdy  -1  -2  -3  -4  -5  -6  Wk-1 Wk-2 Wk-3 Wk-4
-----
013-17  UP   8.0  8.0  8.0  8.5  8.5  8.5  8.5  8.5  8.5  8.4  8.3  8.5  8.5
013-18  UP   8.0  8.0  8.0  8.0  8.0  8.0  8.0  8.0  8.0  8.0  8.0  8.0  8.0
013-19  UP   7.0  7.0  7.0  7.0  7.0  7.0  7.0  7.0  7.0  7.0  7.0  7.0  7.0
013-22  EP   8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5  8.5
016-36  SF  15.0 15.0 15.0 15.5 15.0 15.5 15.0 15.0 15.0 15.5 15.5 15.0 15.0
--- More Below -----
    
```

DEVICE HISTORY LISTINGS (by Access Number)

```

Device History of APTOS2, Pipe S1
07/02/2006 09:53
                PressureMAP XX.XX.XX
                System Studies Incorporated
-----
      .READING. ....SETTLED READINGS.....AVERAGES.....
Device # TP  Curr Last  Tdy  -1  -2  -3  -4  -5  -6  Wk-1 Wk-2 Wk-3 Wk-4
-----
T -006  SF  39.0 39.0 37.0 37.0 39.0 39.0 39.0 42.0 42.0 31.7 27.7 23.7 18.4
      Pipe: S1      Location: 0      OAU: 5.7      CO PIPE PANEL-S1
T -009  MF   2.2  2.2  2.2  3.0  3.0  3.0  3.0  2.2  2.2  2.1  2.2  2.1  2.2
      Pipe: S1      Location: 2      OAU: 4.2      L0004 MH-9 7TH-WALNUT
T -038  UP   6.5  6.5  6.5  6.5  6.5  6.5  6.0  6.0  5.5  7.3  7.5  7.9  8.2
      Pipe: S1      Location: 4      L0004 MH-16 7H-MONTANA
    
```

2X (EXTENDED PIPE/SECTOR) DEVICE HISTORY REPORT

# MAP SYSTEM QUICK REFERENCE

## Specific Device Reports

In each report example shown below, data from a different type of monitoring system is presented. Each Specific Device Report outlines a device's "statistics" through the various fields in the report.

Specific Device Information for <OFFICE>										PressureMAP XX.XX.XX			
07/02/2006 14:33										System Studies Incorporated			
Device #:	APP	Access #:	001-06	Type:	SF	Range:	19.0	S-M:	2.2				
Address:	A PIPE			Loc:	0	Pipe:	A	OAU:	2.8				
TD Type:	RF/19.0												
Sheath(s):	MAW												
Cable:	63	Prim Pair:	1225	Sec Pair:		Sort Key:							
Plat #:		Stickmap:	1										
Phone:													
Latitude:	N36+25.999	Longitude:	E122+15.000										
Office 1 Loc:		Distance 1 (kft):		Field 1 Loc:									
Office 2 Loc:		Distance 2 (kft):		Field 2 Loc:									
Remarks:	SF READS 1.2 SCFH HIGHER THAN ACTUAL/TER												
Readings	Curr	Last	Tdy	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
	3.4	3.4	3.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.6	1.9	0.1

SPECIFIC DEVICE INFORMATION FOR A 289H LSS

Specific Device Information for <OFFICE>										PressureMAP XX.XX.XX			
07/02/2006 13:03										System Studies Incorporated			
Device #:	P -007	Type:	BP										
Address:	MH-23 RIVER ST.	Loc:	145	Pipe:	B								
Sheath(s):	04												
Cable:	14	Prim Pair:	2435	Sec Pair:		Sort Key:							
Plat #:	C-8	Stick Map:	4OF7										
Module:	ST	Phone #:	475-1278	TP:	B	CKT #:	T444						
Priority:	2	Level:	7.0										
Latitude:		Longitude:											
Office 1 Loc:	144	Distance 1 (kft):	2.8	Field 1 Loc:									
Office 2 Loc:		Distance 2 (kft):		Field 2 Loc:									
Remarks:													
Readings	Curr	Last	Tdy	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.5	7.4	8.5	8.8	8.4

SPECIFIC DEVICE INFORMATION FOR A CHATLOS SYSTEM

# REPORT FIELDS & SAMPLE REPORTS

Specific Device Information for <OFFICE>										PressureMAP XX.XX.XX			
07/02/2006 14:33										System Studies Incorporated			
-----													
Device #:	T -006				Type:	EP							
Address:	MH-93,RIO DEL MAR				Loc:	10	Pipe:	A					
Sheath(s): 05													
Cable:	PP	Prim Pair:	73	Sec Pair:	R	Sort Key:	WEST						
Plat #:	1A-3	Stick Map:	2										
Unit #:	1	Line #:	4	Module:	SUB		Input #:	6					
Threshold:	2	Phone #:											
Latitude:	Longitude:												
Office 1 Loc:	9	Distance 1 (kft)	3.1		Field 1 Loc:								
Office 2 Loc:		Distance 2 (kft)			Field 2 Loc:								
Remarks:													
Readings	Curr	Last	Tdy	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.3	9.4	9.3	9.3

SPECIFIC DEVICE INFORMATION FOR A SPARTON SYSTEM

Specific Device Information for <OFFICE>										PressureMAP XX.XX.XX			
07/02/2006 12:46										System Studies Incorporated			
-----													
Device #:	BAA03				Access #:	007A				Type:	UP		
Address:	MH-20 SOQUEL				Loc:	15	Pipe:	BA					
Sheath(s): 02													
Cable:	02	Prim Pair:	704	Sec Pair:	Sort Key:								
Plat #:	UG-7	Stick Map:	5										
Phone:	555-1278												
Latitude:	Longitude:												
Office 1 Loc:	14	Distance 1 (kft)	2.9		Field 1 Loc:	16							
Office 2 Loc:		Distance 2 (kft)			Field 2 Loc:								
Remarks:													
Readings	Curr	Last	Tdy	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.5	6.5

SPECIFIC DEVICE INFORMATION FOR AN E2A SYSTEM

# MAP SYSTEM QUICK REFERENCE

```

Specific Device Information for <OFFICE>
07/02/2006 12:46
                                PressureMAP XX.XX.XX
                                System Studies Incorporated
-----
Device #: A-035                    Type: MF Range: 19.0 S-M: 2.2
Address: MH 58 EAST HIGH AVE      Loc: 21 Pipe: A OAU: 2.8
Sheath(s): 07 13
Cable: 14 Prim Pair: 73 Sec Pair: Sort Key: EAST
Plat #: A-48 Stickmap: 5
Callouts: Priority: Ty: CKT #:
Input #: Addr #: Escalator: Settle Tm:
Delay: Phone #: Low Thrsh: High Thrsh:
Trend: Trend Signed: N TD Steps: 20 Monitor Leg: T-R
Latitude: N30+15.456 Longitude: E130+25.789
Office 1 Loc: 20 Distance 1 (kft): 2.7 Field 1 Loc: 24
Office 2 Loc: Distance 2 (kft): Field 2 Loc:
Remarks:
Readings  Curr Last Tdy -1 -2 -3 -4 -5 -6 Wk-1 Wk-2 Wk-3 Wk-4
-----
          1.5 1.4 1.4 1.6 1.5 1.5 2.0 2.0 2.0 2.0 2.0 2.5 2.5
06/29/94 15:11 DEVICE WILL BE WIRED BY JIM ON TUESDAY, CALL JULIE TO ENABLE
IT PHONE HER AT 555-5555
Manifold/PSI: 2.2
              07/05/06
              07 2.5
              13 1.4
    
```

TMACS 1000 INFORMATION WITH MANUALLY ENTERED COMMENTS AND CABLE READINGS

```

Specific Device Information for <OFFICE>
07/02/2006 13:03
                                PressureMAP XX.XX.XX
                                System Studies Incorporated
-----
Device #:Q=01+02+127 Access #:Q+01+02+127 Type: MF Range: 270.0 S-K: 35.0
Address: LOCATION 1                Loc: 1 Pipe: B OAU: 1225
Sheath(s): 1234
Cable: 1234 Prim Pair: 1 Sec Pair: 1 Sort Key: 1
Plat #: UG5677 Stick Map: 1/1
TY-K: XXXX A: X CIRC: XXXX
Level 1: XXXX Level 2: XXXX
Latitude: Longitude:
Office 1 Loc: Distance 1 (km) Field 1 Loc:
Office 2 Loc: Distance 2 (km) Field 2 Loc:
Remarks:
Readings  Curr Last Tdy -1 -2 -3 -4 -5 -6 Wk-1 Wk-2 Wk-3 Wk-4
-----
          219 219 219 219 219 219 219 219 219 219 219 219 219
    
```

SPECIFIC DEVICE INFORMATION FOR A LANCIER SYSTEM

Specific Device Information for <OFFICE>		PressureMAP XX.XX.XX											
07/02/2006 13:03		System Studies Incorporated											
-----													
Device #:01-001	Access #:01-001	Type: UP											
Address: PIAZZA 1		Loc: 1	Pipe: N										
Sheath(s): 135													
Cable: 7911	Prim Pair: 1	Sec Pair: 1	Sort Key: 1										
Plat #: UG4439	Stick Map: 1/1												
Nicotra Type: XXX	Relay: X												
Thr 1: XXXX	Thr 2: XXXX												
Latitude:	Longitude:												
Office 1 Loc:	Distance 1 (km):	Field 1 Loc:											
Office 2 Loc:	Distance 2 (km):	Field 2 Loc:											
Remarks:													
Readings	Curr	Last	Tdy	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
-----	48.2	48.2	48.2	48.2	48.2	48.3	48.1	48.2	48.1	48.2	48.2	48.3	48.2

SPECIFIC DEVICE INFORMATION FOR A NICOTRA SYSTEM

***Cable Readings Display***

The Cable Readings portion of the Specific Device Information screen is only accessible if there is at least one sheath designation in the **Sheath(s)** field of the primary device screen. The sheaths displayed are pulled from device data information, and the **Manifold/PSI** and cable readings are manually entered from the PressureMAP Specific Device Information Menu or PressureMAP Data Entry. (Please refer to the TMACS sample screen above.)

***Field Accessible Device Comments***

The field accessible device comment section of the Specific Device Information screen, which can be accessed from the PressureMAP Specific Device Information Menu or PressureMAP Data Entry, gives field maintenance technicians the ability to input device-related notes. These comments are date/time stamped when entered and can contain up to two lines of text, which equals 124 characters. Comments are displayed below the **Readings** history fields. An example is shown above in the TMACS 1000 Specific Device Information screen. (The **Remarks** field above the Readings is reserved for notes input by office Data Entry.)

***System Indexing***

The reports produced by this option will list individual indexes for each pipe route, remote dryer and central office sector in an office. To obtain an index, a route must have at least one flow device, one pressure device, a calculated OAU value, and at least 80% of the office's non-disabled devices must have valid readings. In addition to the individual route indexes, a consolidated index is calculated for the entire office. For each pipe in the office, a report will be generated which displays the total sheath mileage, the last seven daily indexes and the last four weekly index averages.

# MAP SYSTEM QUICK REFERENCE

0. SYSTEM												
-----												
Office	.....INDEXES.....							.....AVERAGES.....				
	Today	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4	
COEURDALENE	78	78	77	77	77	75	75	81	82	84	86	
HAYDEN LAKE	88	88	88	88	94	88	87	88	88	88	88	
KENNEWICK	72	72	72	69	71	70	70	76	65	62	62	
POST FALLS	85	85	84	82	82	80	80	91	91	91	92	
NORTH RICHLA	78	77	78	78	78	78	77	81	82	82	82	
RICHLAND	60	63	63	69	69	69	65	70	67	71	68	
MEADOW SPRIN	70	72	70	70	66	66	65	70	63	60	56	

1. COEURDALENE												
-----												
Pipe	S/Mi	.....INDEXES.....							.....AVERAGES.....			
		Today	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
CO	5.5	84	84	84	84	84	82	84	85	85	86	86
N1	2.2	84	86	86	86	86	86	86	87	88	88	88
N2	1.6	92	92	92	92	92	92	92	92	92	90	88
N3	0.8	40	40	40	40	40	40	40	40	40	40	40
S1	4.5	44	44	41	41	39	33	29	56	62	69	77
S2	9.3	91	91	90	90	90	89	89	92	92	92	93
W1	0.8	92	92	92	92	92	92	92	92	92	92	92
Office	24.7	78	78	77	77	77	75	75	81	82	84	86

SYSTEM INDEX REPORTS

## CPAMS INFORMATION

### Device Log Report

The Device Log Report lists comprehensive information about each device located in an office. Once printed, the Device Log can be saved and used as a valuable reference, showing the actual data contained in your PressureMAP database.

CPAMS Information varies the report format slightly from one CPAMS type to the next. For example, on Chatlos systems, the Device Log Report is sorted by Device Number; but for Sparton systems, the report sorts devices first by Unit Number, then by Line Number, and then by Device Number. The 289H LSS lists devices by access number (card/chassis position, then sequential device number).

The Extended Device Log Report is obtained by entering the letter **X** after you have selected the Device Log option from the CPAMS Info Menu (for example, at the CPAMS Info Menu **Choice?** prompt, enter **2x <Return>**). The extended data contains sheath information (cables fed by flow-monitored devices), a remarks line, a location code listing, and office and field footage information.

## REPORT FIELDS & SAMPLE REPORTS

Device #	T	TD Type	Ran	OAU/ Sheath Pipe	Prim Cable	Prim Pair	Sec Pair	Phone# Addr#
-----								
Device Information last edited on 06/26/06								
001-01	SF	RF/100.0	100	36.0	1A	HC	47	
		CO P-PANEL #1			Plat#:		Stickmap:	2
		Latitude: N39+20.000			Longitude:	W123+50.000		
001-02	DF	RF/47.5	47.5	13.8	C0-1	HC	31	
		CO P-PANEL #1			Plat#:		Stickmap:	2
		Latitude: N39+20.000			Longitude:	W123+50.000		
001-03	UP	CPA/30.0		34	1A	42	1119 1121	
		MH-45			Plat#:	5	Stickmap:	2
		Latitude: N39+26.020			Longitude:	W123+52.000		
001-04	UP	CPA/30.0		09	1A	42	1144 919	
		MH-27A, BLEEKER&PINE			Plat#:	5	Stickmap:	2
		Latitude: N39+42.000			Longitude:	W123+53.020		
001-05	MF	CF/19	19.5	8.5		37	617 621	
		MH-31, ELM/4TH AVE.			Plat#:	4	Stickmap:	2
		Latitude: N39+05.000			Longitude:	W123+38.000		
001-A1-001A	UP	APA		04	B1	1121	A1-12 33	
		BACKALLEY WY. & 6TH			Plat#:	5	Stickmap:	1
		Latitude: N39+15.000			Longitude:	W123+38.030		
001-A1-002A	UP	APA		1414	B1	1110	A1 22	
		MH-17, LINDEN WY.			Plat#:	7	Stickmap:	1
		Latitude: N39+10.043			Longitude:	W123+39.000		

STANDARD DEVICE LOG (289H LSS CPAMS)

### ***Device Log by Location Report***

The Device Log by Location Report groups information regarding the devices found at a specified location. To determine a specific location code, you must reference the stickmap(s) which pertain to the particular office in question.

In contrast to the Device Log Report, the Device Log by Location Report always sorts its data in the same fashion, regardless of the type of CPAMS. In this report, data is sorted first by the stickmap number, then by the Location Code and finally by the Device Number.

A Device Log by Location Report will automatically be generated when you select the item from the CPAMS Info Menu. Once the report is completed, you will be returned to this menu.

# MAP SYSTEM QUICK REFERENCE

SOQUEL7 Device Log (Stick map 1, page 1)										PressureMAP XX.XX			
01/02/2007 16:42										System Studies Incorporated			
-----													
Device Information last edited on 12/26/06													
Device	T	Ran	OAU/ Shth	Pipe	Inp#	Mod	Un	Th	Prim Cabl	Prim Pair	Sec Pair	Phone#/ Addr#	Lin no.
-----													
*** 0 *** CENTRAL OFFICE SECTOR													
-----													
T -001	SF	50	6.0	A	4	DED	02	05					4
T -004	SF	50	1.4	D	7	DED	02	05					7
T -005	DF	20	6.4	CO	8	DED	02	02					8
T -006	DF	20	6.4	CO	9	DED	02	02					9
*** 1 *** MH-89 OCEAN ST./JENNY Plat #: 1A-44													
-----													
T -016	UP		3-79	CO	19	DED	02	03	09	1787			19
*** 2 *** MH-47 ROLLING HILLS RD. Plat #: 1A-9													
-----													
T -007	UP		15-73	CO	10	DED	02	04	01	1907			10
T -008	UP		15-79	CO	11	DED	02	03	01	1910			11
T -009	UP		3-81	CO	12	DED	02	03	01	1912			12
T -010	UP		9-84	CO	13	DED	02	03	01	1915			13
T -011	UP		9-67	CO	14	DED	02	03	01	1917			14
T -012	UP		75-67	CO	15	DED	02	03	01	1920			15
T -013	UP		51-57	CO	16	DED	02	03	01	1922			16
T -014	PP			A	17	DED	02	03	01	1924			17
T -015	EP			D	18	DED	02	03	01	1925			18
*** 3 *** MH-49 MITCHELL ST.													
-----													
T -105	MF	20	1.2	RD-H		DED	02	02					
*** 11 *** AERIAL MITCHELL													
-----													
T -102	MF	20	1.4	D		DED	02	02					
*** 12 *** 5202 PACIFIC STREET MALL Plat #: 1A2-A													
-----													
T -032	BP		6-73	RD-D	35	DED	02	04	05	446			35
T -033	BP		6-73	RD-D	36	DED	02	01	05	496			36
*** 13 *** GRAHAM ROAD													
-----													
T -103	MF	20	2.8	RD-D		DED	02	02					
*** 14 *** MH-57 3RD ST. Plat #: 1A2-22													
-----													
T -035	UP		3-67	RD-D	38	DED	02	04	06	376			38
T -036	UP		4-74	RD-D	39	DED	02	01	06	380			39
T -037	EP			RD-D	40	DED	02	04	06	387			40

DEVICE LOG BY LOCATION

## Device Status Report

Option #4 of the CPAMS Info Menu enables you to access key information for the devices in an office in a report format similar to what is provided in a Sparton Status Report. Reports can be generated to show the alarm status for all of the devices in an office, or filtered according to Priority Level. The Device Status Report consolidates information located on other PressureMAP reports such as Dispatch Priorities, extended Device Histories and Device Logs. It provides concise data for making comparisons of recent



## REPORT FIELDS & SAMPLE REPORTS

device readings and evaluating alarmed devices. Devices in the report are ordered according to the same sorting criteria used for the Device Log.

The format of the report varies slightly depending upon what type of monitor you have: 289H LSS, Sparton or Chatlos. Notice that the principal difference in format among these three reports is the column(s) of data located after the Address column. The Sparton report includes Mod (Module) and Inp (Input #) columns; the Chatlos report displays a CKT (Circuit #) column; and the 289H LSS report excludes these additional columns, displaying TP (Type) as the first column of information after the Address information.

Reports can be generated to show the alarm "status" for all of the devices in an office, or filtered according to Priority Level. (Priority levels are described in the PressureMAP section of the Operations manual.)

Device Status for <OFFICE NAME> (page 1)					PressureMAP XX.XX.XX				
01/02/2007 12:46					System Studies Incorporated				
-----									
Device Information last edited on 12/26/06									
Device #	Address	Mod	Inp	TP	Pipe	Curr	Tdy	TD-1	Status
-----									
T -006	MH-42, Spruce St./Goose	DED	3	UP	1A	4.5	7.5	7.5	****
T -007	MH-47, Linden & Moyer	DED	4	UP	1A	3.0	6.5	6.5	****
T -010	MH-112, Richardson & Gr	SUB	7	MF	2A	17.2	17.4	11.6	****
B -021	MH-5, So. B-40 & Broadw	BIN	116	CA	4A	2.5	2.5		---
B -022	MH-11, Broadway & Ocean	BIN	117	\$A	4A	3.6	3.6		---

DEVICE STATUS REPORT (Sparton Monitor)

Device Status for <OFFICE NAME> (page 1)					PressureMAP XX.XX.XX				
01/11/2007 12:46					System Studies Incorporated				
-----									
Device Information last edited on 10/11/06									
Device #	Address	CKT	TP	Pipe	Curr	Tdy	TD-1	Status	
-----									
ST-0006	MH-42, Spruce St./Goose	NW-89	UP	1A	4.5	7.5	7.5	****	
ST-0006	MH-47, Linden & Moyer	NW-90	UP	1A	3.0	6.5	6.5	****	
ST-0006	MH-112, Richardson & Gr	NW111	MF	2A	17.2	17.4	11.6	****	
ST-0006	MH-5, So. B-40 & Broadw	SW-06	UP	3A	2.5	2.5		---	
ST-0006	MH-11, Broadway & Ocean	SW-07	UP	4A	3.6	3.6		---	

DEVICE STATUS REPORT (Chatlos Monitor)

# MAP SYSTEM QUICK REFERENCE

---

Device Status for <OFFICE NAME> (page 1)		PressureMAP XX.XX.XX					
01/22/2007 12:46		System Studies Incorporated					
-----							
Device Information last edited on 11/26/05							
Device #	Address	TP	Pipe	Curr	Tdy	TD-1	Status
-----	-----	---	---	---	---	---	-----
001-11	MH-42, Spruce St./Goose Ave.	UP	1A	4.5	7.5	7.5	****
001-12	MH-47, Linden & Moyer	UP	1A	3.0	6.5	6.5	****
002-13	MH-112, Richardson & Green	MF	2A	17.2	17.4	11.6	****
002-A2-001A	MH-5, So. B-40 & Broadway	UP	4A	2.5	2.5		---**
002-A2-003A	MH-11, Broadway & Ocean, NE	UP	4A	3.6	3.6		---**

DEVICE STATUS REPORT (289H Monitor)

## ***Device Status by Pipe Report***

The next option on the CPAMS Info Menu (Option #5) produces a report similar to the ones shown above, except that the format of the information presented even more closely resembles an actual Sparton device status report. Also, as the name implies, report data is organized by pipe route, beginning with the CO and working numerically outward.

Three report variations are provided, one each for the Sparton, Chatlos and 289H LSS monitors. For the most part, the data presented on these three reports is identical, except for the first few columns on the left that appear before the *Location* column. Reports for the 289H LSS and the Chatlos monitors contain two leading columns of data (*Device #* and *Access #* for the 289H, and *Device #* and *Circuit #* for the Chatlos). The Sparton report contains four leading columns (*No.*, *Device #*, *Mod.*, and *Inp.*).

The remaining seven columns of data that are common to all three reports are *Location*, *TP*, *Curr*, *Tdy*, *Wk-1*, *Alrm* and *In*. This last column, *In*, pertains to the number of days that a device has been in alarm. The three reports shown below illustrate the format variations and type of data presented on the Device Status by Pipe Route Report for each of the three primary monitor types.

# REPORT FIELDS & SAMPLE REPORTS

Device Status by Pipe Report for <OFFICE NAME> ReportMAP XX.XX.XX  
 01/23/2007 09:21 Page 1 System Studies Incorporated

Pipe Route CO  
 -----

Device #	Access #	Location	TP	Curr	Tdy	Wk-1	Alrm	In
(B207)	003-23	DRYER A FAILURE	CA	OK	OK	OK		
(B208)	003-24	DRYER B FAILURE	CA	OK	OK	OK		

Pipe Route 1A  
 -----

Device #	Access #	Location	TP	Curr	Tdy	Wk-1	Alrm	In
001	001-02	CO AP FTD RT 1A	SF	50.0	50.0	50.0	*	18
002	003-03	CO AP PTD RT 1A	SP	10.5	10.5	10.3		
003	002-A5-100	W HWRD/ELAKE FTD MH GG107 1/2	MF	0.9	0.8	0.8		
004	001-A3-001	2115 EASTLAKE DR MH K52	UP	2.6	2.6	2.6		
005	001-A3-002	2115 EASTLAKE DR MH K52	UP	4.6	4.5	4.5		
007	001-A3-003	2115 EASTLAKE DR MH K52	UP	3.7	3.7	3.5		
008	001-A3-004	373	EP	6.8	6.8	6.8	R	0
009	001-15	S PDL/E PDL FTD 1A02 MH K45	MF	6.6	6.5	6.6		
010	001-A3-008	SPDL/FAIRVIEW 1APP A3-8 MH K38	EP	3.1	3.0	2.8	*	94
011	001-A3-005	SPDL/FAIRVIEW 1AC A3-5 MH K38	UP	4.1	4.1	4.1		
012	001-A3-006	SPDL/FAIRVIEW 1AB A3-6 MH K38	UP	3.9	3.8	4.0		

Pipe Route 2A  
 -----

Device #	Access #	Location	TP	Curr	Tdy	Wk-1	Alrm	In
013	001-03	CO AP FTD RT 2A	SF	44.4	44.0	43.6	*	11
014	001-04	CO AP PTD RT 2A	SP	10.0	10.0	10.0		
015	001-05	RASC/HOWARD FTD MH FG017 1/2	MF	2.4	2.4	2.2		

DEVICE STATUS BY PIPE REPORT (289H Monitor)

# MAP SYSTEM QUICK REFERENCE

Device Status by Pipe Report for <OFFICE NAME> ReportMAP XX.XX.XX  
 01/24/2007 14:47 Page 1 System Studies Incorporated

-----  
 Pipe Route CO  
 -----

Device #	Ckt#	Location	TP	Curr	Tdy	Wk-1	Alrm	In
MA-0001	MA0001	DRYER RUNTIME SYS1	DC	OK	OK	OK	****	46
MA-0002	MA0002	DRYER RUNTIME SYS2	DC	OK	OK	OK		
MA-0003	MA0003	DRYER HI FLOW ALARM	DC	OK	OK	OK		
MA-0004	MA0004	DRYER HI OUTPUT PRES	DC	OK	OK	OK		
MA-0005	MA0005	DRYER LO OUTPUT PRES	DC	OK	OK	OK		
MA-0006	MA0006	DRYER HUMIDITY SYS 1	DC	OK	OK	OK		
MA-0007	MA0007	DRYER HUMIDITY SYS 2	DC	OK	OK	OK		
MA-0008	MA0008	DRYER COMPRESOR TEMP	DC	OK	OK	OK		
MA-0009	MA0009	DRYER CABINET TEMP	DC	OK	OK	OK		
MA-0010	MA0010	DRYER COMP1 SHUTDOWN	DC	OK	OK	OK		
MA-0011	MA0011	DRYER COMP2 SHUTDOWN	DC	OK	OK	OK		
MA-0013	MA0013	DRYER COMP MAINT	DC	OK	OK	OK		
MA-0014	MA0014	DRYER POWER ALARM	DC	OK	OK	OK		
ST-0004	NC1	ANSON-PIPE FLOW CA1A	DF	2.5	2.5	2.5	---R	46
ST-0009	CA01	R1315 S COMM.-EP	AP	4.5	4.5	5.2		

-----  
 Pipe Route 1  
 -----

Device #	Ckt#	Location	TP	Curr	Tdy	Wk-1	Alrm	In
ST-003	SW-03	CO AP FTD RT 1	SF	31.5	31.2	29.8		
ST-004	SW-22	CO AP PTD RT 1	SP	10.2	10.2	10.3		
ST-021	SW-21	BROADWAY & OCEAN ST.	UP	3.5	3.2	7.2	****	3
ST-022	SW-22	BRIXBY & KELP	UP	7.2	7.0	7.0		
ST-023	SW-23	WILSHIRE & FREDERICK	MF	10.4	10.4	10.2		

DEVICE STATUS BY PIPE REPORT (CHATLOS MONITOR)

# REPORT FIELDS & SAMPLE REPORTS

Device Status Report by Pipe for <OFFICE NAME>						ReportMAP XX.XX.XX			
01/25/2007 11:06			Page 1			System Studies Incorporated			
-----									
Pipe Route CO									
-----									
No.	Device #	Mod	Inp	Location	TP	Curr	Tdy	Wk-1	Alrm In
-----									
1	(B -001)	0.0	134	-48 VOLT FUSE ALARM	CA	CLR	CLR	CLR	
2	(B -002)	BIN	2	DRYER FAILURE ALARM UNIT A	CA	CLR	CLR	CLR	
3	(B -007)	BIN	8	DRYER FAILURE ALARM UNIT B	CA	CLR	CLR	CLR	
4	(B -012)	BIN	13	DRYER FAILURE ALARM UNIT C	CA	CLR	CLR	CLR	
5	(B -017)	BIN	18	DRYER FAILURE ALARM UNIT D	CA	CLR	CLR	CLR	
6	(B -004)	BIN	3	SYSTEM PRESSURE EMERGENCY	CA	CLR	CLR	CLR	
7	(B -003)	BIN	9	BONAVENTURE/PONCE DE LEON PMT	CA	CLR	CLR	CLR	
-----									
Pipe Route 0									
-----									
No.	Device #	Mod	Inp	Location	TP	Curr	Tdy	Wk-1	Alrm In
-----									
1	T -490	DED	66	C O AIR PIPE FLOW TD MH ES4	SF	99.0	99.0	99.0	---R 22
2	T -491	DED	76	C O AIR PIPE PRESSURE TD MHES4	SP	10.5	11.3	11.2	
3	T -492	DED	61	CO AIR PIPE FLW RT SMF2 MHPM28	SF	99.2	99.2	99.2	
4	T -493	SUB	277	CO AIR PIPE PRS RT SMF2 MHPM28	SP	9.5	9.5	9.3	
-----									
Pipe Route 1A1									
-----									
No.	Device #	Mod	Inp	Location	TP	Curr	Tdy	Wk-1	Alrm In
-----									
1	T -190	DED	1	C O AIR PIPE FLOW TD RT 1A1	SF	89.5	89.5	88.0	
2	T -191	SUB	17	C O AIR PIPE PRESSURE TD RT 1A	SP	9.5	9.5	9.5	
5	T -194	DED	21	C O DIST FLOW TD RT 1A	DF	54.1	54.2	51.6	R 0
6	T -195	SUB	72	12-70-AT 1100 SPRING ST	UP	3.6	3.6	4.4	* 1
7	T -197	SUB	88	COX-51-AB W PTREE/14TH ST MH J	UP	1.7	1.6	2.8	** 8
8	T -199	SUB	80	09-40-AD W PTREE/14TH ST MH	UP	6.0	6.0	6.0	
9	T -200	SUB	81	21-57-AE W PTREE/14TH ST MH	UP	3.1	3.1	2.8	* 8
10	T -201	SUB	85	18-57-AG W PTREE/14TH ST MH	UP	4.5	4.5	4.2	* 8
11	T -202	SUB	79	09-71-AH W PTREE/14TH ST MH	UP	6.5	6.5	6.5	
12	T -204	SUB	86	24-71-AL W PTREE/14TH ST MH	UP	2.9	2.9	3.0	* 8
13	T -207	SUB	90	21-83-AQ W PTREE/14TH ST MH	UP	7.0	7.0	7.0	

DEVICE STATUS BY PIPE REPORT (SPARTON MONITOR)

## ***Device Discrepancy Report***

For certain monitor types (Chatlos L3, Hercules 740 and 940, Sparton 5300B and 5318) PressureMAP provides a way to show the differences between a PressureMAP device record (what has been programmed into PressureMAP during data entry) and the device information that has been programmed into the CPAMS monitor. This information is presented in a Device Discrepancy Report, which displays two lines of data for each device where a discrepancy has been detected.

It is important to note that the report provides device differences relative to PressureMAP. That is, for every PressureMAP device in an office, the CPAMS monitor is checked to compare the differences in

# MAP SYSTEM QUICK REFERENCE

data between the monitor and PressureMAP. This report **does not** show devices which are programmed into the CPAMS monitor, but are not in the PressureMAP device record.

Because the monitor types from which this report are generated differ in data format structure, the contents of the Device Discrepancy Report for Chatlos/Hercules monitors and for Sparton monitors are also slightly different. The following screen samples illustrate these differences.

```

Device Discrepancy for <OFFICE NAME> (page 1)                PressureMAP XX.XX.XX
11/28/2006  11:02                *Schedule Off*            System Studies Incorporated
-----
                                Device Information last edited on 11/28/06

Device #      TP  Circuit  PR  Alrm  Address
-----
MA-0001      D    ADRY    1   N/C   CO AIR DRYER NO 1
MA-0001      D    ADRY    1   N/O   CO AIR DRYER NO 1

ST-0011      B     AD2    2   3.0   SHED @ 1378 SEIS LAG
ST-0011      B     AD2    1   3.0   SHED @ 1378 SEIS LAG

ST-0012      B    AD3N    1   3.0   PED28 1378N/SEIS LAG
ST-0012      B    AD2N    1   3.0   PED28 1378N/SEIS LAG
    
```

DEVICE DISCREPANCY REPORT (CHATLOS/HERCULES)

```

Device Discrepancy for <OFFICE NAME> (page 1)                PressureMAP XX.XX.XX
11/28/2006  11:02                *Schedule Off*            System Studies Incorporated
-----
Device #      Unit Line  Inp  Mod Thr  Prio  Location
-----
B -002        1    1    1  BIN  -  MAJOR  002 ROYAL GORGE STREET
-----
                Device not found in SPARTON 5300B

T -002        1    2    2  DED  1  MAJOR  002 TWO ST
T -002        1    2    2  DED  2  MAJOR  002 100 EAST MAIN STREET

T -003        1    3    21  DED  1  MAJOR  003 THREE ST
T -003        1    3    3  DED  1  MAJOR  003 THREE ST

T -005        1    3    5  DED  1  MAJOR  005 EAST MAIN
T -005        1    4    5  DED  1  MAJOR  005 EAST MAIN

B -027        2    1    7  NON  +-  MAJOR  027 TWENTYSEVEN
B -027        2    1    8  NON  +-  MAJOR  027 TWENTYSEVEN
    
```

DEVICE DISCREPANCY REPORT (SPARTON)

### *CableMAP REPORTS*

CableMAP, using the information stored in its database, is capable of producing reports using two format types, the Summary Activity Log and Complete Activity Log, which are selected from the CableMAP Master Menu. The Summary Activity Logs option prints summary reports so that you can examine current construction and maintenance activities, recent closures, and the recent activity of all technicians logged into the system. Complete Activity Logs allow you to view or print activity records in a format that duplicates the CableMAP data entry screen.

Both options have the ability to create eleven different types of cable activity reports. Reports generated can be sorted into the following categories:

- All Cable Activity in the Cable Activity Log
- Activity by an Opening Number
- All Activity for a given Day, Week or Month
- All Activity by a Specified Technician
- All Activity by Job/Task Number
- All Activity by an Address or Manhole
- All Activity by PressureMAP Location Code
- All Activity on a Pipe
- All Activity for a Cable/Count
- All Activity Not Yet Closed
- Recent Activities for all Technicians (TechFinder)

Effective with Version 20.01, CableMAP allows for “advance closings” of cable activities to streamline the database maintenance process. An advance closing date and time may be manually entered when an activity is opened, or the Standard Closing Time option may be set so that CableMAP automatically fills in the **Closing Date** and **Closing Time** fields whenever a new activity is opened. The automatic closing date and time may be accepted or changed, or blanked out to prevent automatic closing. (For more information, please refer to the CableMAP section of the Data Entry manual.)

After the advance closing date and time have passed, the system will automatically close the activity, log the closing date and time, and issue a Closing Number with the identifying prefix AUT. This daily function is coordinated with the MAP System’s schedule to ensure that open activities are automatically closed in a timely manner and do not interfere with detection and delivery of alarms.

# MAP SYSTEM QUICK REFERENCE

Activities on File (page 1)		CableMAP XX.XX.XX	
04/28/2005 11:38		System Studies Incorporated	
-----			
3. SIMMSBY			
-----			
CON1631746	04/12/2005 08:49	CLOSED	CON1750482 04/25/2005 15:45
L.C. GREEN			Job/Task #: 1492
MH-10, SUTTER/E CLIFF			Loc(s): 2 3
555-4848			Time on Job: 12:45
Field Rpt Code: 123A	Dsp/Cause: 1234-567		Travel Time: 1:00
02:1201-1300			
TROUBLE ON PAIR, POSSIBLE SHORT			
CLEARED SHORT			
At AERIAL RISER, CRN SUTTER/E CLIFF			
MNT1810460	04/26/2005 13:19	TEMP CLOSED	AUT1857457 04/27/2005 11:30
NORM RUNWOOD			Job/Task #: 181046
MH-3, LANDING/E CLIFF			Loc(s): 2 4
555-1234			Time on Job: 10:01
Field Rpt Code: 321B	Dsp/Cause: 1234-555		Travel Time: 1:30
181046	ST-0002 UG Cable PSI TD dropped 4.0 psi in 24 hrs		****
TASK ASSIGNMENT BY VICKKI			
MNT1850489	04/05/2005 09:45	*OPEN*	
CP OAKES			Job/Task #: 185795
MH-8, BRONSON/WOODS			Loc(s): 5 6
555-5777			Time on Job: 01:53
Field Rpt Code: 399B	Dsp/Cause: 1234-599		Travel Time:
185795	ST-0003 UG Cable PSI TD dropped 3.0 psi in 24 hrs		****
TASK ASSIGNMENT BY DONNA, HEAVY TRAFFIC AT 5:00 PM			
TOTAL TIME FOR ACTIVITIES LISTED			24:39

## SUMMARY CABLE ACTIVITIES LOG

Activities on File (page 1)		CableMAP XX.XX.XX	
04/28/2005 12:41		System Studies Incorporated	
-----			
Opening #:	CON1550812	Opening Date: 04/05/2005 (094)	Opening Time: 12:07
Closing #:		Closing Date:	Closing Time:
Office name:	SANTA CRUZ	Job/Task #: 12345	Time on Job: 4:12
Technician:	CRAIG		Travel Time: 0:00
Address:	2-1340 E CLIFF DR		Fld Rpt Code: 1234
Phone:	555-1212		Dsp/Cause: 1234-123
Location(s):	A	Pipe(s): A	
Cable/Count: 1234:1233-1234			
Trouble Rpt/Test: CUTOVER 50 PAIRS			
Remark/Work Done:			
Trouble Site: MH-21			
-----			
Opening #:	RPR1550999	Opening Date: 04/05/2005 (094)	Opening Time: 12:07
Closing #:		Closing Date:	Closing Time:
Office name:	APTOS	Job/Task #: 12346	Time on Job: 6:28
Technician:	BILL WALL		Travel Time: 0:00
Address:	MH 58 CLIFF AVE		Fld Rpt Code: 3488
Phone:	555-2233		Dsp/Cause: 1234-889
Location(s):	21 22 35	Pipe(s): A	
Cable/Count:			
Trouble Rpt/Test:			
Remark/Work Done:			
Trouble Site:			

## COMPLETE CABLE ACTIVITIES LOG



### *CableMAP Screens on a Hand-Held Terminal*

By using the Hand-Held Terminal login, you are able to log, edit, view and close cable openings from the field. The following section shows CableMAP screens similar to what is displayed on a hand-held terminal, and describes the fields included in each screen.

```
Open # CON2018517
04/28/2005 14:09
Close #
04/28/2005 17:30
Jobtime: 0:03 Travel Time: 0:00
Job/Task # <JOB NUM>
<TECHNICIAN>
<ADDRESS>
<PHONE>
Fld Rpt Code: <XX> Dsp/Cause: <DSP/CA>
Loc # <XX>
Pipe: <XX>
<CABLE:COUNT-COUNT>
Trouble Rpt/Test: <TROUBLE RPT OR TEST>
Remarks/Work Done: <REMARKS>
Trouble Site: <TROUBLE SITE>

VIEW ACTIVITY
```

VIEW OPEN CONSTRUCTION LOG

```
Open # MNT2018417
04/28/2005 14:07
Close # MNT2018708
04/28/2005 14:12
Jobtime: 0:05 Travel Time: 0:00
Job/Task # <TASK NUM>
<TECHNICIAN NAME>
<ADDRESS>
<PHONE>
Fld Rpt Code: <XX> Dsp/Cause: <DSP/CAU>
Loc # <XX>
Pipe: <XX>
<DISPATCH CONDITION>
Trouble Rpt/Test: <TROUBLE RPT OR TEST>
Remarks/Work Done: <REMARKS>
Trouble Site: <TROUBLE SITE>
```

MAINTENANCE ACTIVITY DATA SCREEN

When logging an opening, the following information must be entered: office name, activity type, technician's name, job or task number, address, phone, location code, pipe, and cable/count. If a maintenance activity is to be logged, the job/task number should be the same 6 digit number as the Dispatch Task which is being worked on.

Although the hand-held terminal user has wide data access and input privileges, there are some limitations to using this equipment. For example, to keep important data from being corrupted by unauthorized access, some of the data input fields, such as opening and times and dates, are locked on the hand-held screen. These fields can be edited on the full-sized CableMAP screen.

## MAP SYSTEM QUICK REFERENCE

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### *Open #*

The Opening (or Activity) Number can be a maximum of fourteen characters in length. This number always has CON, MNT, RPR, or MSC for the first three characters. It can be automatically assigned by CableMAP, or the last eleven characters can be changed to conform to an individual numbering method. CableMAP will not generate a Closing Number until the Closing Time has passed.

Numbers automatically assigned by CableMAP are three characters and eleven digits in length. The first three characters in a Cable Opening Number represent construction or maintenance activity. The next three digits represent the current day, displayed as a Julian date. The last eight digits are random, as chosen by the program.

### *Close #*

The Closing Number is similar to the Opening Number in that both are a maximum of fourteen characters in length, and both can be customized or automatically chosen by CableMAP. System-generated Closing Numbers conform to the same numbering method as the automatic Opening Numbers. However, if an advance closing time has been entered for an activity, the system will automatically close the activity after that time has passed and issue a Closing Number with AUT for its first three characters.

### *Opening Date*

The **Opening Date** data field displays both a MM/DD/YYYY format and a Julian date format.

### *Closing Date*

Like the Opening Date, the Closing Date is expressed in two formats: the MM/DD/YYYY format and the Julian date format. If a Standard Closing Time has been set in CableMAP Configuration, CableMAP will assign a real date value, according to how the activity's Opening Time relates to the Standard Closing Time.

### *Opening Time*

All times in CableMAP are written in a 24-hour clock format, with 13:00 representing 1:00 p.m. Times are written to the nearest minute.

### *Closing Time*

Like the Opening Time, the Closing Time is written in a 24-hour clock format. If a Standard Closing Time has been set in CableMAP Configuration, that default time value will be displayed.

### *Jobtime*

The **Jobtime** data field contains the hours and minutes spent working on the particular activity. This field is calculated by CableMAP from the opening and closing times and cannot be modified. The time clock will stop when the activity is temporarily closed and restart when the activity is reopened.

### *Technician*

The name of the technician logging the cable opening. A maximum of 20 characters is allowed. When logging and opening the program will not advance until a name is typed in.

### *Job/Task #*

A Job/Task Number entry is also mandatory when logging an opening. All Maintenance Activity Task Numbers should be the same 6 digit number as the Dispatch Task which is being worked on.

### ***Address***

The address can be a maximum of 30 characters long and must be entered when logging an opening. Many telcos include a street address and a manhole number.

### ***Phone***

The phone number field contains the number where the technician can be reached. This field is 20 characters long, and can contain an area code, extension, or pager number.

### ***Pipe***

In this field, you can enter the name of up to six pipes, which can be up to four characters long.

### ***Location***

The location field contains the PressureMAP Location Codes for all of the Locations that may be affected by the cable opening. Any location within the pneumatic section in which this cable opening is located should be included in this list. Up to 4 location codes can be entered.

### ***Cable/Count***

This field appears in Construction Activity screens. It may include only alphanumeric characters and the following entries, ":", "-", "/", "". The entry must be formatted like the following example:

9999:9999-9999

### ***Trouble Rpt/Test***

At this prompt, enter the reported condition or test that justifies the logging of a new activity. Up to 60 characters may be entered.

### ***Remarks/Work Done***

Remarks/Work Done data field allows you to enter special remarks of up to 70 alphanumeric characters.

## ***Logging a Cable Closing with a Hand-Held Terminal***

When closing a cable activity, you will be prompted to enter information into the following fields:

### ***Travel Time***

This field is used to track the amount of time the technician spends traveling to and from the work site.

### ***Fld Rpt Code***

The field **Report Code** is a five character alphanumeric field that corresponds to the code entered on a technician's time report, creating a audit link from the activity to the reported time.

### ***Dsp/Cause***

This eight character field corresponds to the "Status/Disposition/Cause Code" used by many Telco forms. The entry in this field is usually a four digit number and a three digit number, separated by a dash.

### ***Remarks/Work Done***

The **Remarks/Work Done** data field allows special remarks of up to 70 alphanumeric characters to be noted with a specific cable activity.

# MAP SYSTEM QUICK REFERENCE

---

## *Trouble Site*

This 60-character field describes the actual work site/location and corresponds to the "Trouble Location" field used by auditors for quality inspections of completed work.

## *AlarmMAP REPORTS*

### *Dispatch Histories Reports*

The Dispatch Histories function searches for dispatches and assembles a report which lists all alarms associated with any of these characteristics: a particular task number, device number, pipe route, PressureMAP location number, and dispatch log entry type. Dispatch Histories enables the PressureMAP user to trace the history of a particular alarm to determine whether it was dispatched to the correct report centers, acknowledged (and by whom), and corrected or aged according to the PressureMAP aging system. Beginning with PressureMAP Version 27 reading histories (**Last Rdg, Tdy Rdg, -1 Rdg,** etc.) were added to the report.

```
View Dispatch Histories for (office name) (page 1)           AlarmMAP XX.XX.XX
8/05/2008 15:55                                           System Studies Incorporated
-----
Task Number: 2180001           Device Number: 002-01
Entry Type:  CREATED           Entry Time:    5/27, 15:38
Level:      **                 Location:      4
Dispatch:   UG Cable PTD lost 3.0 psi in 72 hr
Disp. Code: 2700              Device Type:   UP
Rdg. Time:  5/27, 7:00:02     Reading:      3.0 psi
Last Rdg:   2.0               Tdy Rdg:     3.0
-1 Rdg:     4.0               -2 Rdg:     5.0
-3 Rdg:     6.0               -4 Rdg:     7.0

Task Number: 2180003           Device Number: 002-01
Entry Type:  CHANGED DISPATCH CODE   Entry Time:    5/27, 15:38
Level:      ***                      Location:      4
Dispatch:   UG Cable PTD lost 3.0 psi in < 48 hr
Disp. Code: 8580                    Device Type:   UP
Rdg. Time:  5/27, 15:37:26          Reading:      1.0 psi
Last Rdg:   2.0                     Tdy Rdg:     3.0
-1 Rdg:     4.0                     -2 Rdg:     5.0
-3 Rdg:     6.0                     -4 Rdg:     7.0
Old Level:  **
Old Disp.:  UG Cable PTD lost 3.0 psi in 72 hr
```

DISPATCH HISTORIES REPORT

### *Alarm vs Time of Day Report*

The Alarm vs Time of Day Report option enables you to view all of the devices that have come into alarm during each of the twelve daily calling cycles so that you can analyze the daily occurrences of alarms in a given office (by device type), compare them with alarms in other offices, and identify general trends in alarming.

## REPORT FIELDS & SAMPLE REPORTS

Alarm vs Time of Day Report 08/12/2006 10:58		AlarmMAP XX.XX.XX System Studies Incorporated												
-----														
<OFFICE NAME> - Dates 7/4 through 8/3, Period 00:00 to 23:59 Hours														
Device Number	Type	Midnight			6AM			Noon			6PM			Total
		00	02	04	06	08	10	12	14	16	18	20	22	
001-A1-001A	UP	3	2	2				1						8
002-A1-001A	MF				1	12			1					14
001-10	CA	30		1										31
001-11	UP		4											4
001-12	UP							6			1			7
002-13	MF	5								1			2	8
Etc.														
Totals		38	6	3	1	12		7	1	1	1		2	72

ALARM VS TIME OF DAY REPORT

### *Daily Alarm Summary Report*

This report displays the number of alarms as a function of day of the week. It allows you to identify the number of alarms that have been generated for each device in the selected office for the current day and for the past seven consecutive days, and the weekly totals for each of the previous four weeks.

Daily Alarm Summary Report 08/12/2006 10:59		AlarmMAP XX.XX.XX System Studies Incorporated												
-----														
<OFFICE NAME> - Dates 6/29 to 8/3, Period 00:00 to 23:59 Hours														
Device	Type	Today	-1	-2	-3	-4	-5	-6	-7	Wk-1	Wk-2	Wk-3	Wk-4	Total
001-A1-001A	UP		3	2	1				1					7
002-A1-001A	MF					1	10			1		2		14
001-10	CA			11			1							12
001-11	UP	2		4										6
001-12	UP							6				1		7
002-13	MF		5								1		2	8
001-07	\$P				2			1		1				4
etc.														
Totals		2	8	17	3	1	11	1	7	2	1	3	2	58

DAILY ALARM SUMMARY REPORT

### *Alarm Summary Report*

The Alarm Summary Report offers you quick access to dispatch alarm totals in three categories for each device in an office: normal alarms (those "created" during the program's scheduled calling cycle); filtered alarms (those alarm conditions that have been designated for filtering during specified time periods and/or days); and inflated alarms (those alarm conditions that continued to worsen before the original alarms were cleared or aged).

The report consists of the six columns shown below. Device numbers and device types are listed in the first two columns, while the next three columns indicate how many of the three alarm types occurred for each device during the viewing period. The last column on the right provides individual alarm totals for each of the devices in the office, and the total number of each type of alarm is provided at the bottom of the report.

# MAP SYSTEM QUICK REFERENCE

Alarm Summary Report		AlarmMAP XX.XX.XX			
08/12/2006 10:59		System Studies Incorporated			
-----					
<OFFICE NAME> - Dates 7/4 to 8/3, Period 00:00 to 23:59 Hours					
Device	Type	Alarms Created	Alarms Filtered	Alarms Inflated	Total Alarms
-----					
001-A1-001A	UP	3	1	1	5
002-A1-001A	MF	1	0	0	1
001-10	CA	6	0	0	6
001-11	UP	4	2	3	9
001-12	UP	0	1	0	1
002-13	MF	3	2	1	6
001-07	\$P	1	0	0	1
etc.					
Totals		18	6	5	29

ALARM SUMMARY REPORT

### Alarm vs Device Type Report

The Alarm vs Device Type Report enables you to view the total number of Four Star Alarms created for each device type for a specified time period. You can also view the total number of alarms for **all** offices (by office) in a summary format, and compare the offices' totals to identify the office(s) that you wish to examine in more detail. Beginning with PressureMAP Version 25, it is also possible to generate an expanded report when ALL offices are selected by entering **4x** from the Alarm vs Device Type Report Menu. This expanded output is the detail shown for an individual office, but it includes each of the offices in the system. Following are examples of an individual office's report, a summary report comparing all offices, and expanded report for all of the offices in the PressureMAP system.

Alarm vs Device Type Report		AlarmMAP XX.XX.XX			
08/12/2006 10:36		System Studies Incorporated			
-----					
<OFFICE NAME> - Dates 7/13 through 8/12, Period 00:00 to 23:59 Hours					
Device Type	Total Devices	Number Alarms	Number Disabled	Number Open/Short	
-----					
\$F - High Priority Flow TD	1	1		1	
CA - Compressor/Dryer Contact Alarm	1	1		1	
KA - Alternating Contact Alarm	6	3	2	3	
-----					
Totals	8	5	2	5	

ALARM VS DEVICE TYPE REPORT FOR ONE OFFICE

Notice that alarm occurrences are listed in the report for each of the device types represented in the Device Type column. The second column on the report shows the total **current** number of devices of each type, regardless of the alarm state and independent of the time period selected. The third column lists how many Four Star Alarms have been generated for the device type during the viewing period. The fourth column displays the **current** number of disabled devices of the indicated type (independent of the time period selected). The last column lists the total number of alarms for each type during the viewing

## REPORT FIELDS & SAMPLE REPORTS

period for which the reading was OPEN or SHRT. The totals for the four numeric value columns are displayed at the bottom of the report.

Office Name	Total Devices	Number Alarms	Number Disabled	Number Open/Short
SIMOFF	15	10		4
NEWOFF				
CEDAR CITY	7	3		
RC MAIN	5	4	3	1
WESTWOOD	17	11	2	
Totals	44	28	5	5

ALARM VS DEVICE TYPE SUMMARY REPORT FOR ALL OFFICES

Notice that alarm occurrences are listed in the report for each of the offices shown in the Office Name column. The second column on the report shows the total **current** total number of devices for each office, regardless of their alarm state and independent of the time period selected. The third column lists how many Four Star Alarms have been generated for all device types in the office during the viewing period. The fourth column displays the **current** total number of disabled devices for the entire office, independent of the time period selected. The last column lists the total number of alarms for all device types during the viewing period for which the reading was OPEN or SHRT. The totals for the four numeric value columns are displayed at the bottom of the report.

# MAP SYSTEM QUICK REFERENCE

Alarm vs Device Type Report		AlarmMAP XX.XX.XX			
12/03/2006 09:53		System Studies Incorporated			
-----					
SIMOFF - Dates 11/3 to 12/3, Period 00:00 to 23:59 Hrs					
Device Type	Total Devices	Number Alarms	Number Disabled	Number Open/Short	
-----	-----	-----	-----	-----	
\$A High Priority Contact Alarm	1	2			
\$P High Priority Pressure TD	8	4		2	
BP Buried Cable Pressure TD	5	2		2	
CA Compressor/Dryer Contact Alarm	1	2			
-----	-----	-----	-----	-----	
Totals	15	10		4	
=====					
NEWOFF - Dates 11/3 to 12/3, Period 00:00 to 23:59 Hrs					
Device Type	Total Devices	Number Alarms	Number Disabled	Number Open/Short	
-----	-----	-----	-----	-----	
No alarms for this office.					
-----	-----	-----	-----	-----	
Totals					
=====					
CEDAR CITY - Dates 11/3 to 12/3, Period 00:00 to 23:59 Hrs					
Device Type	Total Devices	Number Alarms	Number Disabled	Number Open/Short	
-----	-----	-----	-----	-----	
\$P High Priority Pressure TD	4	1			
SF Source Flow TD	1	1			
UP Underground Cable Pressure TD	2	1			
-----	-----	-----	-----	-----	
Totals	7	3			
=====					
RC MAIN - Dates 11/3 to 12/3, Period 00:00 to 23:59 Hrs					
Device Type	Total Devices	Number Alarms	Number Disabled	Number Open/Short	
-----	-----	-----	-----	-----	
\$F High Priority Flow TD	1	1		1	
\$P High Priority Pressure TD	2	1			
UP Underground Cable Pressure TD	2	2	3		
-----	-----	-----	-----	-----	
Totals	5	4	3	1	
=====					
WESTWOOD - Dates 11/3 to 12/3, Period 00:00 to 23:59 Hrs					
Device Type	Total Devices	Number Alarms	Number Disabled	Number Open/Short	
-----	-----	-----	-----	-----	
\$P High Priority Pressure TD	17	11	2		
-----	-----	-----	-----	-----	
Totals	17	11	2		
Hit <Enter> to continue..					

ALARM VS DEVICE TYPE DETAILED REPORT FOR ALL OFFICES



### *Alarm Reports on Alphanumeric Pagers*

When an alphanumeric pager is a designated alarm center, the output of the alarm is condensed to fit the pager's limited display space, which is typically 4 lines by 20 characters. Because only the essential alarm information is sent, you should log into the MAP System to see the complete Alarm Information Report before proceeding to the alarm location. The alarm information sent to the pager includes the office name, task number and any related cable activity information, device number, device type, device reading and dispatch condition. Report 1 shows possible Alarm Dispatches received on an alphanumeric pager with a 4 line by 20 character display screen, and Report 2 contains an example of a Cleared Alarm display.

DISPLAY	DESCRIPTION
CULVER CITY	Office name
Alarm 277010	Task number
001-01 UP @ 1.0	Device number/type/reading
Dropped 4.0 psi	Dispatch condition
or	
CULVER CITY	Office name
Alarm 277010 (CONS)	Task number (Activity)
001-01 UP @ 1.0	Device number/type/reading
Dropped 4.0 psi	Dispatch condition

REPORT 1: POSSIBLE ALPHANUMERIC PAGER ALARM REPORT

DISPLAY	DESCRIPTION
CULVER CITY	Office name
Alarm 277010	Task number
001-01 UP	Device number/type
Cleared	Current status

REPORT 2: POSSIBLE ALPHANUMERIC PAGER CLEARED ALARM DISPLAY

### *Brief Report*

The MAIL alarm report format is preceded by a brief alarm data “header” that includes the system number and name. When the BRIEF REPORT email alarm option is selected from the AlarmMAP editor, the alarm report information is abbreviated to fit the pager screen display (see REPORT 3). Notice that the office name and system number appear in the Subject line. To accommodate the special formatting by some pager companies, the office name is also displayed in the main body of the alarm below the Subject line. In the example below, the office name is “Hasalarms” and the system number is 3366.

# MAP SYSTEM QUICK REFERENCE

---

```
Subject: PMAP ALARM- HASALARMS [3366]

Office: HASALARMS
PMAP Device: 001-01
PMAP Reading: 2.2 psi
PMAP Task #: 2070103
Lost 4.4 psi
----- Dispatch Alarm NOT Auto-Ack'd -----
```

REPORT 3: BRIEF REPORT ALARM (EMAIL FOR PAGER DISPLAY)

## ***Condensed Report***

Beginning with Version 26, alphanumeric pagers can also receive emailed notification for multiple alarms in a single report (REPORT 4). The format of this report is similar to the Brief Report described above, but its content is much different. Rather than provide device number, reading and task number information, it identifies the PressureMAP System number, the office designation, the number of alarms generated, and a message requesting that you refer to the PressureMAP System to obtain more details about the alarms.

Please note that in order to receive Condensed Reports on your pager, you will first need to set the One Report Regular Alarm Threshold in the AlarmMAP editor. (See “Alarm Filtering” in the AlarmMAP Data Entry section of the *MAP System Data Entry Manual*.) This filter identifies how many alarms must be generated in an office before the Condensed Report is emailed. A similar type of Condensed Report is also provided for cleared alarms.

```
Subject: PMAP ALARM- HASALARMS [3366]

PMAP System: 3366
PMAP Office: HASALARMS
PMAP Alarms: 4
Consult the MAP System for Details
----- Dispatch Alarm -----
```

REPORT 4: CONDENSED REPORT ALARM (EMAIL FOR PAGER DISPLAY)

## ***Viewing Alarm Error Files***

Option 4 of the User Initiated Operations Menu gives you the ability to view the error files created by AlarmMAP, offering you two types of alarm error files to view, Incomplete CPAMS Alarms and Unrecognizable CPAMS Alarms. Depending upon the capabilities of the terminal you are using, the program will display the files that are available for viewing in either a menu or a selector format.

```
Keystrokes: [Quit <Esc>] [Down 'J'] [Up 'K'] [Help 'H'] [Print 'P'] [Info 'I']
             [Search Forward 'F'] [Search Back 'B'] [Search Next 'N'] [Erase 'E']

Incomplete CPAMS Alarms for <OFFICE NAME>
-----
##### ALARM-IN-ERROR ##### 01/26/04 12:40:38 ttyA1 #####
(syntax error found in alarm)
^G***** ALARM ^G***** ALARM ^G***** ALARM ^G*****
UNIT # 1 979 WEST AIR PRESSURE MONITOR

DATE: WED - JAN 26 2004
TIME: 1238

- TRANSDUCERS -
NO. LOCATION ~
##### END-BAD-ALARM #####

##### ALARM-IN-ERROR ##### 01/27/04 09:59:54 ttyA1 #####
(syntax error found in alarm)
^G***** ALARM ^G***** ALARM ^G***** ALARM ^G*****
UNIT # 1 979 WEST AIR PRESSURE MONITOR

DATE: THU - JAN 27 2004
TIME: 0954

- TRANSDUCERS -
NO. LOCATION ~
##### END-BAD-ALARM #####
```

ALARM ERROR REPORT

## ***CUSTOM REPORTS***

The last option of the User Initiated Operations Menu gives you the ability to generate reports that utilize the data gathered by the MAP System, but are not offered through any of the MAP software modules. These "custom" reports are created by System Studies per customer request, with additional reports added to the MAP software as the need arises.

The Standards Report option in the Custom Reports Menu comes with the PressureMAP software. The SQI Report, OAU Report, Alarm Report, Flat Cable Report, Standards -B Report, Standards Report (Rev. C) and Standards Report (Rev. D) are available for your PressureMAP system in the form of an incremental update. Before you can access one of these reports, you must install the Incremental Update Disk supplied by System Studies; procedures are located in the MAP System Installation Manual.

Depending upon the capabilities of the terminal you are using, the program will display the report in either a standard report or a browser format. If your terminal is not "browser capable" (i.e., most hard-copy terminals), the report will simply be printed. However, if you can utilize the browser function of the MAP Program, you will be able to search the report contents, move through the report a page at a time, print the report, or export the report to a DOS formatted floppy disk. The examples shown in this section are from a "browser capable" terminal.

## ***Standards Report***

The Standards Report lists the number and percentage, by transducer type, of devices in a specified office or group of offices that are not to standard on the selected day. The report does not include disabled devices, and no report will be produced for a disabled office. The standard for each device type may be changed by accessing the Office Information Screen of PressureMAP Data Entry.

# MAP SYSTEM QUICK REFERENCE

A report can be generated using device data for any day within the last five weeks. Please note: for dates more than a week previous to the current date, the report is looking at weekly averages rather than daily readings. Therefore, if a report is run for a date older than seven days, it may not show the same readings it would have displayed when that date was more current. Since non-numeric (verbose) reading output cannot be averaged, history older than seven days may not be available for verbose readings.

Effective with Version 20.01, the report was modified to display the total number of devices with valid and verbose readings for each device type, and the totals for devices with verbose (non-valid) readings. In addition, you may enter a "Group Heading" to describe the contents of the report.

The report's six columns of data contain the following information for the selected office and date. Data is compiled for the most common PressureMAP device types (excluding contact alarms, contactors, etc.). If more than one office is selected, a device total and percentage for the selected offices will follow the last office report. (Please note that the sample screen displays the group heading "EAST SIDE.") If the System Office (Office 0) is selected, the report will consist of only the system total and averages.

Standards Report EAST SIDE (page 1)		ReportMAP XX.XX.XX			
05/21/2004 15:08		System Studies Incorporated			
Type of TD's	Std	Total TD Count	Non-Rdg (verbose) Count	TD Count Not Std/Over OAU	Percent Not Std/Over OAU
-----					
-- 2. <Office Name> (05/18/04) --					
Aerial PTD's	2.0	2	1	0	50.0
Buried PTD's	3.0	4	2	0	50.0
Mid/End PTD's	7.5	1	0	1	100.0
High Prio PTD's	6.0	1	0	1	100.0
Manifold FTD's		1	0	0	0.0
-----					
Office Totals		9	3	2	55.6

STANDARDS REPORT

### Type of TD's

This field indicates the device type the information line pertains to. The following device types can appear under this column: Aerial PTD, Aerial Single-feed PTD, Buried PTD, Buried Single-feed PTD, Underground PTD, Underground Single-feed PTD, Mid/End Pipe PTD, Delivery PTD, High Priority PTD, Source FTD, Distribution Panel FTD, Manifold FTD, and High Priority FTD.

### Std

The Office Standard for the pressure device type designated in the information line. This standard is set in the Office Information screen through PressureMAP data entry.

### Total TD Count

The total number of devices with either a valid reading or a verbose reading for the report date (excluding disabled devices). For information on verbose readings, see Section 6 of this guide.

### Non-Rdg (verbose) Count

The total number of devices with verbose readings (not including disabled devices).

***TD Count Not Std/Over OAU***

This field indicates the number of devices with a valid reading (excluding disabled devices) that are below the Office Standard for pressure, or above the individual flow device's OAU value. For flow devices that do not have an OAU value entered in data entry, an OAU value of 0.0 is used to calculate this report section.

***Percent Not Std/Over OAU***

This field contains the averaged percentage of devices that are either Not Std, Over OAU, or Non-Rdg. This value is generated by adding columns four and five, and dividing this number by the total number of devices from column three.

***Office Totals***

This row of data provides key information in four categories: Total TD Count (total number of transducers entered in the PressureMAP database for the office), Non-Reading (verbose) Count (total number of transducers with verbose readings for the office), TD Count–Not Standard/Over OAU (valuable for targeting offices with high numbers of devices that deviate from the standard), and Percentage of Non-Standard/Over OAU devices in the office (provides an indication of which offices would benefit most from concentrated maintenance efforts).

***SQI Report***

The SQI Report, which can be generated for an individual office, a selected group of offices, or all of the offices in your MAP System, provides a variety of information about individual pipes routes and the quality of the air pressure system. A report can be generated for any day within the last five weeks. Please note: for dates more than a week previous to the current date, the report is looking at weekly averages rather than daily readings. Therefore, if a report is run for a date older than seven days, it may not reflect the same reading values it would have used to calculate the SQI when that date was more current. Since non-valid (verbose) reading output cannot be averaged, an SQI older than seven days may not be available.

Displayed information includes the selected report date, office(s) name, pipe count, sheath miles, number of devices, disabled devices, number of alarms, number of pipes with an SQI of less than 80, and the office SQI average.

SQI Report (page 1) 02/18/2006 15:08		ReportMAP XX.XX.XX System Studies Incorporated					
OFFICE	PIPE COUNT	SHEATH MILES	# OF DEVICES	DISABLED DEVICES	# OF ALARMS	02/13 PIPES <80 SQI	02/06 OFFICE SQI
16. FOXWORTH	16	127	255	0	0	16	78
17. JUNCTION	15	84	171	0	6	15	N/A
18. CROCKETT	2	N/A	6	1	2	2	64
<b>Above Office Totals</b>	<b>33</b>	<b>211</b>	<b>432</b>	<b>1</b>	<b>8</b>	<b>33</b>	<b>71</b>
<b>System Totals</b>	<b>45</b>	<b>433</b>	<b>572</b>	<b>2</b>	<b>16</b>	<b>45</b>	<b>70</b>

SQI REPORT

***Pipe Count***

This field indicates the current total number of pipes for the office.

## **MAP SYSTEM QUICK REFERENCE**

---

### ***Sheath Miles***

This field contains the current total calculated sheath miles for the office.

### ***# of Devices***

This field shows the current number of non-disabled devices.

### ***Disabled Devices***

The current total number of devices disabled.

### ***# of Alarms***

The total number of devices with Four Star Alarm conditions for the report date.

### ***Pipes <80 SQI***

This field contains the number of pipes below the SQI threshold of 80 on the selected report date.

### ***Office SQI***

This field provides the weekly average office SQI for the seven days ending on the date listed. This date is one week prior to the selected report date.

### ***OAU Report***

The OAU Report lists the total number of MF devices in each selected office on the day the report is generated. It also sorts the MF devices into seven different categories: below OAU, under 10% of OAU, 10% over OAU, 20% over OAU, 50% over OAU, number of flow devices with verbose readings, and the percentage of flow devices  $\leq$  20% over OAU. Disabled devices are not included in the OAU calculations.

A report can be generated using device data for any day within the last five weeks. Please note: for dates more than a week previous to the current date, the report is looking at weekly averages rather than daily readings. Therefore, if a report is run for a date older than seven days, it may not reflect the same reading values it would have used for the OAU breakdown when that date was more current.

Effective with Version 20.01, the OAU Report was extended to include specific device information in up to five distinct categories. This additional capability is available when you request the report for an individual office, for a date within the last six days. The enhanced detail is not shown if you select multiple offices or a report date older than six days.

## REPORT FIELDS & SAMPLE REPORTS

OAU Report (page 1) 05/11/2005 13:25		*Schedule Off*		ReportMAP xx.xx.xx System Studies Incorporated				
-----								
Pressure readings from 05/11/05								
OFFICE	# MF Below OAU	# MF Under 10%	# MF 10% Over	# MF 20% Over	# MF 50% Over	# MF Read Prob	# MF Total	% MF <= 20% Over
-----								
26. Liveoak	0	0	0	1	2	0	3	0.0
Reading is 20% over OAU								
-----								
Device #	Address	Loc	Pipe	OAU	Rdg			
-----								
001-15	400 HYDE	01	A	6.3	9.3			
Reading is 50% over OAU								
-----								
Device #	Address	Loc	Pipe	OAU	Rdg			
-----								
001-06	200 BROADWAY	02	B	1.5	5.0			
001-10	300 FRONT	06	D	3.1	5.0			

OAU REPORT FOR SINGLE OFFICE WITH ENHANCED DEVICE DETAIL

If more than one office is selected, a total of each report field for the selected offices will follow the last office report (excluding any disabled offices).

OAU Report (page 1) 09/10/2005 15:08		ReportMAP XX.XX.XX System Studies Incorporated						
-----								
Readings from 09/10/05								
OFFICE	# MF Below OAU	# MF Under 10%	# MF 10% Over	# MF 20% Over	# MF 50% Over	# MF Read Prob	# MF Total	% MF <= 20% Over
-----								
16. FOXWORTH	126	3	2	0	0	1	133	98.5
17. JUNCTION	30	1	0	4	1	1	50	62.0
18. CROCKETT	84	14	8	7	1	5	131	80.9
21. WESTSIDE	46	9	2	6	4	1	71	80.2
Totals	286	27	12	17	6	8	385	84.4

OAU REPORT

### # MF Below OAU

This field contains the total number of MF devices for the office (not including disabled devices), that were reading below their individual OAU value on the day selected for the report. Also included in this field are the devices reading 0 SCFH.

### # MF Under 10%

The total number of MF devices for the office (not including disabled devices), that had readings that were above OAU but less than 10% above the OAU on the day selected for the report.

## MAP SYSTEM QUICK REFERENCE

---

The next three fields list the number of MF devices for the office that were reading the indicated percentage above their individual OAU value on the day selected for the report. The percentage values that are included in the report are: 10% over, 20% over, and 50% over.

### **# MF Read Prob**

The sixth column contains the number of MF devices with verbose readings (e.g., OPEN, SHRT, PAIR), excluding devices that are disabled.

### **# MF Total**

The seventh column contains the total number of MF devices in the office, not including devices that are disabled.

### **%MF <= 20% Over**

This field indicates the percentage of MF devices reading equal to or below 20% over their OAU value (not including disabled devices). This value is generated by adding the first three columns and dividing this number by the total number of devices from column seven.

The definitions for the additional specific device information fields shown in the first sample OAU Report are as follows:

### **Device #**

The device number of each device in the selected OAU reading category. The device type for all of these devices is MF.

### **Address**

The address for the device being reported.

### **Loc**

The PressureMAP location number for the device.

### **Pipe**

The pipe with which the device is associated.

### **OAU**

The OAU for the device being reported.

### **Rdg**

This field corresponds to the **Tdy** reading on the Specific Device Information screen.

## **Alarm Report**

The Alarm Report, which can be generated for an individual office, a selected group of offices, or all of the offices in your MAP System, provides important information concerning the distribution and acknowledgment of four star alarms. A report can be generated for any day within the last five weeks. However, if an office has been disabled, a report will not be generated.

Displayed information includes the office(s) name, date selected, task number, time of day the alarm was created, time sent, destination (Alarm Center), time the alarm was acknowledged, and acknowledging person or equipment. If no alarms were generated for a selected office(s) on the date specified, PressureMAP will generate an appropriate message.



## REPORT FIELDS & SAMPLE REPORTS

Alarm Report (page 1)		ReportMAP XX.XX.XX	
08/10/2006 15:08		System Studies Incorporated	
TASK #	CREATED	SENT TO	ACKNOWLEDGED BY
-----			
-- 14. MTVERNON (08/05/06) --			
34802A9	07:59	07:59 PRINTER	07:59 PRINTER
348032C	08:26	08:26 PRINTER	08:26 PRINTER
-- 15. UHRADD92 (08/05/06) --			
Sorry, No Data Available.			
-- 16. FOXWORTH (08/05/06) --			
No Four Star Alarms.			
-- 17. JUNCTION (08/05/06) --			
3480566	08:40	09:00 D PAWSON	
		09:05 CORY	09:05 aa CORY
34805BB	08:41	09:01 D PAWSON	
		09:05 CORY	09:05 aa CORY
34805BB	08:41	09:03 D PAWSON	
		09:05 CORY	09:05 aa CORY
-----			
-- System (08/05/06) --			
No Four Star Alarms.			

### ALARM REPORT

#### **Task #**

The six-digit number generated by PressureMAP that identifies the specific alarm listed in the report. This number can be cross-referenced to the Task # that originally appeared on the Dispatch Priorities list or the Detailed Task Report.

#### **Created**

This field indicates the time of day that each of the listed alarms in an office originally occurred.

#### **Sent to**

This field identifies the Alarm Center or person who received the alarm identified in the task number, as well as the time of day that the alarm was sent. Typically, the time listed is the same or very close to the time listed in the **Created** data field.

#### **Acknowledged by**

This field lists the name of the printer, device or person who acknowledged the alarm, and the time of day that the alarm was acknowledged.

# MAP SYSTEM QUICK REFERENCE

## Flat Cable Report

The Flat Cable Report can be generated for an individual office, a selected group of offices, or all of the offices in your MAP System. The report lists all devices that are providing a verbose reading (e.g. OPEN, SHRT, NSE, etc.) or that are reading a pressure of 1.0 PSI or less on the specified date. The “trigger” date can be any day within the last five weeks. Please note: for dates more than a week previous to the current date, the report is looking at weekly averages rather than daily readings. Therefore, if a report is run for a date older than seven days, it may not show the same readings it would have displayed when that date was more current. Since non-numeric (verbose) reading output cannot be averaged, history older than seven days may not be available for verbose readings.

Devices are grouped by offices (if more than one office is requested), and then by reading category (e.g., <= 1.0). Displayed information includes the selected report date, office(s) name, type of reading, device #, device type, and the current device reading history. Disabled devices are included in the report; however, a report will not be generated for a disabled office.

Flat Cable, Verbose Readings Report										ReportMAP XX.XX.XX				
04/06/2006		12:16		*Schedule Off*		System Studies Incorporated								
.. READING. ....SETTLED READINGS.....										.....AVERAGES.....				
Device #	TP	Curr	Last	Tdy	-1	-2	-3	-4	-5	-6	Wk-1	Wk-1	Wk-1	Wk-1
-- 3. ROSEVILLE (04/04/06) -- ALL OPEN Readings														
002-25	EP	OPNI	OPNI	OPNI	OPNI	OPNI	OPNI	OPNI	OPNI	OPNI	OPNI	OPNI	OPNI	OPNI
-- 23. SUNNYVALE (04/04/03) -- ALL <= 1.0 Readings														
T -107	UP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T -108	UP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-- 23. SUNNYVALE (04/04/06) -- ALL NSE Readings														
T -169	BP	NSE	NSE	NSE	NSE	NSE	NSE	NSE	NSE	NSE	NSE	NSE	NSE	NSE
-- 38. SW289 (04/06/06) -- ALL SHRT Readings														
001-01	KA	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT
-- 38. Sw289 (04/06/03) -- ALL VOLT Readings														
001-23	UP	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT
002-08	UP	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT	VOLT
-- 58. TRAINING (04/06/06) -- ALL <= 1.0 Readings														
001-02	SP	0.0	0.0	0.0	0.0	0.0	10.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1
001-04	DP	0.0	0.0	0.0	0.0	0.0	10.3	10.3	10.1	10.1	10.1	10.1	10.1	10.1
001-05	UP	0.1	0.0	0.1	0.0	0.0	10.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1

FLAT CABLE REPORT

## Standards -B Report

The Standards -B Report lists the number and percentage, by transducer type, of devices in a specified office or group of offices that are not to standard on the selected day. The report does not include disabled devices, and no report will be produced for a disabled office. The standard for each device type may be changed by accessing the Office Information Screen of PressureMAP Data Entry. The Standards -B Report is almost exactly like the Standards Report except that the readings over OAU are not counted and do not contribute to Percent Not Std.

## REPORT FIELDS & SAMPLE REPORTS

A report can be generated using device data for any day within the last five weeks. Please note: for dates more than a week previous to the current date, the report is looking at weekly averages rather than daily readings. Therefore, if a report is run for a date older than seven days, it may not show the same readings it would have displayed when that date was more current. Since non-numeric (verbose) reading output cannot be averaged, history older than seven days may not be available for verbose readings.

The report's six columns of data contain the following information for the selected office and date. Data is compiled for the most common PressureMAP device types (excluding contact alarms, contactors, etc.). If more than one office is selected, a device total and percentage for the selected offices will follow the last office report. (Please note that the sample screen displays the group heading "EAST SIDE.") If the System Office (Office 0) is selected, the report will consist of only the system total and averages.

Standards -B Report EAST SIDE (page 1)		ReportMAP XX.XX.XX			
05/28/2005 13:13		System Studies Incorporated			
Type of TD's	Std	Total TD Count	Non-Rdg (verbose) Count	TD Count Not Std	Percent Not Std
-----					
-- 2. <Office Name> (05/18/05) --					
Aerial PTD's	2.0	2	1	0	50.0
Buried PTD's	3.0	4	2	0	50.0
Mid/End PTD's	7.5	1	0	1	100.0
High Prio PTD's	6.0	1	0	1	100.0
Manifold FTD's		5	1	-	20.0
-----					
Office Totals		13	4	2	46.2

STANDARDS -B REPORT

### ***Type of TD's***

This field indicates the device type the information line pertains to. The following device types can appear under this column: Aerial PTD, Aerial Single-feed PTD, Buried PTD, Buried Single-feed PTD, Underground PTD, Underground Single-feed PTD, Mid/End Pipe PTD, Delivery PTD, High Priority PTD, Source FTD, Distribution Panel FTD, Manifold FTD, and High Priority FTD.

### ***Std***

The Office Standard for the pressure device type designated in the information line. This standard is set in the Office Information screen through PressureMAP data entry.

### ***Total TD Count***

The total number of devices with either a valid reading or a verbose reading for the report date (excluding disabled devices). For information on verbose readings, see Section 6 of this guide.

### ***Non-Rdg (verbose) Count***

The total number of devices with verbose readings (not including disabled devices).

### ***TD Count Not Std***

This field indicates the number of devices with a valid reading (excluding disabled devices) that are under the Office Standard for pressure. No count is made for flow devices, regardless of the reading.

## MAP SYSTEM QUICK REFERENCE

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### *Percent Not Std*

This field contains the averaged percentage of devices that are either Not Std or Non-Rdg. For flow devices, the percentage includes Non-Rdg devices only. This value is generated by adding columns four and five, and dividing this number by the total number of devices from column three.

### *Office Totals*

This row of data provides key information in four categories: Total TD Count (total number of transducers entered in the PressureMAP database for the office), Non-Reading (verbose) Count (total number of transducers with verbose readings for the office), TD Count–Not Standard (valuable for targeting offices with high numbers of devices that deviate from the standard), and Percentage of Non-Standard devices in the office (provides an indication of which offices would benefit most from concentrated maintenance efforts).

### *Standards Report (Rev. C)*

The Standards Report (Rev. C) lists the number and percentage, by type, of devices in a specified office or group of offices that are not to standard on the selected day. The report does not include disabled devices, and no report will be produced for a disabled office. The Standards Report (Rev. C) is similar to the Standards Report; but it includes contactors and contact alarms, and readings over OAU are not counted and do not contribute to Percent Not Std. The standard for each pressure device type may be changed by accessing the Office Information Screen of PressureMAP Data Entry.

A report can be generated using device data for any day within the last five weeks. Please note: for dates more than a week previous to the current date, the report is looking at weekly averages rather than daily readings. Therefore, if a report is run for a date older than seven days, it may not show the same readings it would have displayed when that date was more current. Since non-numeric (verbose) reading output cannot be averaged, no history older than seven days is available for verbose readings, such as those for contactors and contact alarms.

The report's six columns of data contain the following information for the selected office and date. Data is compiled for the most common PressureMAP device types (including contact alarms, contactors, etc.). If more than one office is selected, a device total and percentage for the selected offices will follow the last office report. (Please note that the sample screen displays the group heading "EAST SIDE.") If the System Office (Office 0) is selected, the report will consist of only the system total and averages.

Standards Report (Rev. C) EAST SIDE (page 1)		ReportMAP XX.XX.XX System Studies Incorporated			
12/28/2005 12:33		-----			
Type of Device	Std	Total Device Count	Non-Rdg (verbose) Count	Device Count Not Std	Percent Not Std
-----					
-- 4. <Office Name> (12/28/05) --					
Contactors	OK	1	0	1	100.0
Contact Alarm's	OK	24	0	0	0.0
Undgnd PTD's	5.2	1	0	0	0.0
Mid/End PTD's	5.2	196	0	0	0.0
High Prio PTD's	5.9	87	0	3	3.4
Distribut FTD's		134	0	-	0.0
Manifold FTD's		203	0	-	0.0
High Prio FTD's		9	0	-	0.0
-----					
Office Totals		655	0	4	0.6

STANDARDS REPORT (REV. C)

***Type of Device***

This field indicates the device type the information line pertains to. The following device types can appear under this column: Contactor, Contact Alarm, Aerial PTD, Aerial Single-feed PTD, Buried PTD, Buried Single-feed PTD, Underground PTD, Underground Single-feed PTD, Mid/End Pipe PTD, Delivery PTD, High Priority PTD, Source FTD, Distribution Panel FTD, Manifold FTD, and High Priority FTD.

***Std***

The Office Standard for the pressure device type designated in the information line. This standard is set in the Office Information screen through PressureMAP data entry. The value **OK** is displayed for contactors and contact alarms.

***Total Device Count***

The total number of devices with either a valid reading or a verbose reading for the report date (excluding disabled devices). For information on verbose readings, see Section 6 of this guide.

***Non-Rdg (verbose) Count***

The total number of devices with with verbose readings, and of contactors and contact alarms whose readings are *not* **OK** or **ALRM**. (The count does not include disabled devices.)

***Device Count Not Std***

This field indicates the number of devices with a valid reading (excluding disabled devices) that are under the Office Standard for pressure and of contactor or contact alarm devices that are reading **ALRM**. No count is made for flow devices, regardless of the reading. Disabled devices are not included in the count.

***Percent Not Std***

This field contains the averaged percentage of devices that are either Not Std or Non-Rdg. This value is generated by adding columns four and five, and dividing this number by the total number of devices from column three. For flow devices, the percentage includes Non-Rdg devices only.

## MAP SYSTEM QUICK REFERENCE

---

### *Office Totals*

This row of data provides key information in four categories:

- Total Device Count—total number of transducers, contactors and contact alarms entered in the PressureMAP database for the office.
- Non-Reading (verbose) Count—total number of transducers, contactors and contact alarms with non-valid readings for the office.
- Device Count Not Standard—valuable for targeting offices with high numbers of devices that deviate from the standard.
- Percentage of Non-Standard devices in the office—indicates which offices would benefit most from concentrated maintenance efforts.

### *Standards Report (Rev. D)*

The Standards Report (Rev. D) lists the number and percentage, by type, of devices in a specified office or group of offices that are not to standard on the selected day. The reading data is based on devices that are currently in the PressureMAP database, and will not reflect devices that have been deleted. The report does not include devices disabled from indexing and/or dispatching, and no report will be produced for a disabled office. The Standards Report (Rev. D) is similar to the Standards Report, but it includes contactors and contact alarms. A line displaying statistics for underground pressure devices below 3.0 PSI has been added, and the flow standards have been customized to values defined by Verizon. The standard for each pressure device type may be changed by accessing the Office Information Screen of PressureMAP Data Entry.

A report can be generated using device data for any day within the last five weeks. For the current date, readings are derived from the Today (Tdy) column in PressureMAP. If the **Tdy** column is blank, it is considered to be a verbose reading. Please note also: for dates more than a week previous to the current date, the report is looking at weekly averages rather than daily readings. Therefore, if a report is run for a date older than seven days, it may not show the same readings it would have displayed when that date was more current. Since non-numeric (verbose) reading output cannot be averaged, no history older than seven days is available for verbose readings.

The report's six columns of data contain the following information for the selected office and date. Data is compiled for the most common PressureMAP device types. If more than one office is selected, a device total and percentage for the selected offices will follow the last office report. (Please note that the example, Screen 2, displays the group heading "EAST SIDE.") If the System Office (Office 0) is selected, the report will consist of only the system totals and averages.

## REPORT FIELDS & SAMPLE REPORTS

Standards Report (Rev. D) EAST SIDE (page 1) 12/29/2006 12:33		ReportMAP XX.XX.XX System Studies Incorporated			
Type of Device	Std	Total Device Count	Non-Rdg (verbose) Count	Device Count Not Std	Percent Not Std
----- -- 4. <Office Name> (12/29/06) -- -----					
Aerial PTD's	2.0	2	2	0	100.0
Undgnd PTD's	<3.0	78	72	0	92.3
Undgnd PTD's	5.0	78	78	0	100.0
Mid/End PTD's	7.5	12	12	0	100.0
50.0 SCFH FTD's	31.0	7	7	-	100.0
19.0 SCFH FTD's	17.0	21	21	-	100.0
-----					
Office Totals	0.0	120	120	4	100.0

STANDARDS REPORT (REV. D)

### *Type of Device*

This field indicates the device type the information line pertains to. The following device types can appear under this column: Contactor, Contact Alarm, Aerial PTD, Aerial Single-feed PTD, Buried PTD, Buried Single-feed PTD, Underground PTD (UP, TP, WP), Underground Single-feed PTD, Mid/End Pipe PTD (EP, PP), Delivery PTD (CP, DP, SP, RP, FP), High Priority PTD, and flow devices in the ranges listed below.

### *Std*

The standard for the device type designated in the information line. For pressure devices this value is the Office Standard that is set in the Office Information screen through PressureMAP data entry. For flow devices the standard values are:

<u>Device Range</u>	<u>Standard</u>
950.0	846.0
475.0	425.0
200.0*	178.0 (* implemented in Version 22)
190.0*	178.0 (* implemented in Version 22)
100.0	76.0
95.0	76.0
50.0	31.0
47.5	31.0
20.0	17.0
19.0	17.0
9.5	7.0

The message <3.0 is displayed in the special statistics line for UP devices below 3.0 PSI.

### *Total Device Count*

The total number of devices with either a valid or a non-valid (verbose) reading for the report date (excluding disabled devices). Please note that the reading data is only available for devices that are currently in the PressureMAP database; the report will not reflect devices that have been deleted.

## MAP SYSTEM QUICK REFERENCE

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### ***Non-Rdg (verbose) Count***

The total number of pressure and flow devices with verbose readings. (The count does not include disabled devices.)

### ***Device Count Not Std***

This field indicates the number of devices with a valid reading that are under the Office Standard for pressure or over the flow standard configured for this report. Disabled devices are not included in the count.

### ***Percent Not Std***

This field contains the averaged percentage of devices that are either Not Std or Non-Rdg. This value is generated by adding columns four and five, and dividing this number by the total number of devices from column three.

### ***Office Totals***

This row of data provides key information in four categories:

- Total Device Count—total number of transducers entered in the PressureMAP database for the office.
- Non-Reading (verbose) Count—total number of transducers with non-valid readings for the office.
- Device Count Not Standard—valuable for targeting offices with high numbers of devices that deviate from the standard.
- Percentage of Non-Standard devices in the office—indicates which offices would benefit most from concentrated maintenance efforts.

Note that the special statistics for UP devices below 3 PSI are not added into the Office Totals.

### ***SBC Standards Report***

The SBC Standards Report lists the number and percentage, by type, of devices in a specified office or group of offices that are not to standard on the selected day. The report does not include disabled devices or devices with BLANK readings (“ ”), and no report will be produced for a disabled office. The standard for each device type may be changed by accessing the Office Information Screen of PressureMAP Data Entry.

A report can be generated using device data for any day within the last five weeks. Please note: for dates more than a week previous to the current date, the report is looking at weekly averages rather than daily readings. Therefore, if a report is run for a date older than seven days, it may not show the same readings it would have displayed when that date was more current. Since non-numeric (verbose) reading output cannot be averaged, history older than seven days may not be available for verbose readings.

The report's eight columns of data contain the following information for the selected office and date. Data is compiled for the most common PressureMAP device types (excluding contact alarms, contactors, etc.). If more than one office is selected, a device total and percentage for the selected offices will follow the last office report. If the System Office (Office 0) is selected, the report will consist of only the system total and averages.

Please note that an identical report is available for BellSouth. It contains identical information, except that the report name in on the top line of the header specifies BellSouth.



## REPORT FIELDS & SAMPLE REPORTS

SBC Standards Report (page 1)		ReportMAP XX.XX.XX					
06/04/2006 15:08		System Studies Incorporated					
Type of TD's	Std	Total OAU	Total Pres/Flow	TD Count	Average Pres/Flow	TD Count Not Std/Over OAU	Percent Not Std/Over OAU
-- ##. <OFFICE NAME> (<REPORT INFORMATION DATE>) --							
Undgnd PTD's	6.0		109.6	13	8.4	0	0.0
Mid/End PTD's	10.0		26.1	3	8.7	3	100.0
Delivery PTD's	10.0		31.4	3	10.5	0	0.0
High Prio PTD's	6.5		6.6	1	6.6	0	0.0
Source FTD's		15.0	16.0	3	5.3	1	33.3
Manifold FTD's		50.0	13.8	7	2.0	0	0.0

SBC STANDARDS REPORT

### *Type of TD's*

This field indicates the device type the information line pertains to. The following device types can appear under this column: Aerial PTD, Aerial Single-feed PTD, Buried PTD, Buried Single-feed PTD, Underground PTD, Underground Single-feed PTD, Mid/End Pipe PTD, Delivery PTD, High Priority PTD, Source FTD, Distribution Panel FTD, Manifold FTD, and High Priority FTD.

### *Std*

The Office Standard for the pressure device type designated in the information line. This standard is set in the Office Information screen through PressureMAP data entry.

### *Total OAU*

This field contains the total OAU value of all flow devices that have a valid reading on the report date (not including disabled devices). For flow devices that do not have an OAU value entered in data entry, an OAU value of 0.0 is used when this report section is calculated.

### *Total Pres/Flow*

This field contains the combined value for the device type the information line pertains to. This column will contain the total flow or pressure readings for devices that have a valid reading on the report date.

### *TD Count*

The total number of devices with either a valid reading or a verbose reading for the report date (excluding disabled devices and devices reading BLANK). For information on verbose readings, see Appendix 1 of the MAP Operations Manual.

### *Average Pres/Flow*

This field contains the averaged pressure or flow value for devices with valid readings.

### *TD Count Not Std/Over OAU*

This field indicates the number of devices with a valid reading (excluding disabled devices) that are below the Office Standard for pressure, or above the individual flow device's OAU value. For

# MAP SYSTEM QUICK REFERENCE

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flow devices that do not have an OAU value entered in data entry, an OAU value of 0.0 is used to calculate this report section.

## *Percent Not Std/Over OAU*

This field contains the averaged percentage of devices with a valid reading that are below the Office Standard for pressure, or above the individual flow device's OAU value. For flow devices that do not have an OAU value entered in data entry, an OAU value of 0.0 is used to calculate this report section.

*Office Totals* provides key information in four categories:

- Total OAU—total of the OAU values entered in the PressureMAP database for the office.
- TD Count—total number of transducers entered in the PressureMAP database for the office.
- Device Count Not Standard—valuable for targeting offices with high numbers of devices that deviate from the standard.
- Percentage of Non-Standard devices in the office—indicates which offices would benefit most from concentrated maintenance efforts.

## *Quality Report*

A new Quality Report, available starting with PressureMAP Version 25, combines data from several PressureMAP reports into a format that represents more inclusive office quality information than the SQI report. When this custom report is enabled for a system, two report formats are provided: a menu-based PressureMAP report (verbose mode) and a comma delimited format (CDF) file that is generated daily by the MAP Scheduler and available for uploading to a remote computer via file transport protocol (FTP). The verbose mode is intended for an interactive user who wants to access report information from PressureMAP, and not just see the data in CDF format.

### *Verbose Mode*

The Quality Report in verbose mode is shown below. In this mode the report assumes the look of other PressureMAP Standards Reports. It includes eight columns of data as shown in the screen below.

Quality Report (page 1) 11/23/2006 15:08		ReportMAP XX.XX.XX System Studies Incorporated					
		----- 11/23/06 -----					
OFFICE	DISABLED	VERBOSE	ALARM	AVE SQI	NO SQI	NOT STD	FLAT
52. QUALITY	8.3%	8.3%	0.0%	84.4	0.0%	36.4%	8.3%
57. TUESDAY	0.0%	12.5%	0.0%	93.0	50.0%	37.5%	12.5%

QUALITY REPORT

When you select the option number for the Quality Report (typically option #2) from the Custom Reports Menu, you can enter a single office, a range of offices or "ALL." Report data for each office is displayed on a single row with the office name identified in the first column. Following is a description of the other data field columns.

### *Disabled*

This column contains the percentage of monitoring devices in the office that are entered in the PressureMAP database, but have been selectively disabled in the Office Information section of the PressureMAP editor.

### *Verbose*

Indicates the percentage of devices in the office that generate a verbose, non-numerical reading (excluding disabled devices). Devices reading OK and CLR are not included.

### *Alarm*

Displays the percentage of devices in four star alarm status for the day on which the report was generated.

### *Ave SQI*

This column indicates the seven day SQI average for the office.

### *No SQI*

Lists the percentage of devices that have no SQI value for the current day.

### *Not Std*

The entry in this column represents the percentage of devices that are not standard for the current day.

### *Flat*

Identifies the percentage of devices that are verbose or are reading between 0.0 and 1.0 PSI for the current day. Devices reading OK and CLR are not included.

### *Character Delimited Mode*

There are two ways to access and view the Quality Report in comma delimited format: 1) within PressureMAP after the display of data in the verbose mode, and 2) by uploading the CDF file that is generated daily by the PressureMAP Scheduler and then importing it into a spreadsheet application or text editor. Please note that the type of data provided differs slightly from the verbose mode Quality Report, as explained below.

#### **Viewing CDF Data in PressureMAP**

After the Quality Report is generated for the selected office or offices, a prompt displays which enables you also to view the report output for the selected office(s) in comma delimited format without leaving PressureMAP. If you type **Y** and **<Return>** in response to the **Send the CDF file to the screen: Y(es), N(o) ?** prompt, you will see data similar to what is shown in the screen example below.

# MAP SYSTEM QUICK REFERENCE

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```
Send the CDF file to the screen: Y(es),N(o) ? y

office,          office, tot, num, num, num, tot, num, tot, num, ave, num
number,          name, dev, disa, verb, alrm, std, !std, pipe, no sqi, sqi, flat
52,              QUALITY, 12, 1, 1, 0, 11, 3, 2, 0, 84.4, 1
57,              TUESDAY, 8, 0, 1, 0, 8, 2, 2, 1, 93.0, 1

Custom Reports                                     ReportMAP XX.XX.XX
11/23/2006 09:24          *Schedule Off*          System Studies Incorporated
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Custom Reports
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1. Standards Report
2. Quality Report
Q. Quit

Choice? q
```

CDF FILE IN PRESSUREMAP MENU

Notice that the Custom Reports Menu re-displays after the CDF data, so you can exit Custom Reports and access other PressureMAP menus. Notice also that CDF data is supplied only for the offices you selected when you launched the Quality Report in the verbose mode.

## Uploading CDF Data via File Transport Protocol (FTP)

When the Custom Report has been enabled for your system via an incremental update, and the PressureMAP Scheduler has been modified by the System Studies Technical Support Department to include instructions to write the report in CDF mode, it will then be possible to upload the CDF file. This file, named *quality.txt*, is located in the directory, */usr1/reports/Quality/*. Unlike the CDF data that is sent to the PressureMAP screen after answering **Y(es)** to the **Send the CDF file to the screen: Y(es),N(o)** prompt, the CDF file contains report information for all of the offices in the PressureMAP system, rather than just the selected offices. The file is different from a similar file written for the verbose mode, named *user\_quality.txt*. Separate files are created to prevent the overwriting of the scheduled CDF report.

The primary advantage of making the Quality Report available in comma delimited format is that it can be used to assist you in creating custom spreadsheets of the PressureMAP data. Once it has been uploaded, the CDF file can then be imported into a spreadsheet, such as Microsoft Excel, and customized to produce a variety of desired spreadsheet possibilities.

## CDF Data Field Descriptions

The CDF Quality Report data generated by PressureMAP differs from the verbose report. For one thing, it does not include data as percent value. It also contains more data fields as described below. The format of the CDF *quality.txt* files is shown below:

```
office,          office, tot, num, num, num, tot, num, tot, num, ave, num
number,          name, dev, disa, erb, alrm, td, !std, pipe, no sqi, sqi, flat
52,              QUALITY, 12, 1, 1, 0, 11, 3, 2, 0, 84.4, 1
57,              TUESDAY, 8, 0, 1, 0, 8, 2, 2, 1, 93.0, 1
```

***office number***

Designates the office number.

***office name***

Designates the office name.

***tot dev***

Indicates the total number of devices in the each office selected

***num disa***

Lists the number of disabled devices in each office.

***num verb***

Lists the number of verbose devices in each office, except OK and CLR.

***num alrm***

Indicates the number of 4 star alarms for today.

***tot std***

Lists the total number of pressure and flow devices used to determine the pressure and flow standards.

***num !std***

Represents the number of pressure and flow devices that are not reading standard or better.

***tot pipe***

Lists the total number of pipe routes.

***num no sqi***

Indicates the number of pipes that do not have an System Quality Index (SQI) value.

***ave sqi***

Lists the seven day SQI average.

***num flat***

Indicates the number of devices that are reading verbose or, for pressure transducers, those that are reading between 0.0 and 1.0 PSI.

# **MAP SYSTEM QUICK REFERENCE**

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