

Chapter 7

INTRODUCTION

This section contains checklists for use in field maintenance operations:

- Meter Panel Checklist
- Air Pipe Route Checklist
- Central Office Cable Pressurization Checklist
- Cable Pressure Status Report
- Checklist for Cable Pressurization Trucks

METER PANEL CHECKLIST

EXCHANGE: _____ METER PANEL: _____

CERTIFIED BY: _____ DATE: _____

The following information should be provided for each individual meter panel at the Central Office.

YES **NO**

- 1) Is a 0-50 SCFH (Standard Cubic Feet per Hour) flow transducer installed, programmed, and operating on the meter panel? Verify this on the Sparton/Chatlos and PressureMAP printouts.
- 2) Are all cables at the meter panel identified on the panel? Verify this at the meter panel.
- 3) Is the meter panel delivery pressure set at 10 PSI (Pounds per Square Inch)? Verify the delivery pressure at the meter panel with a "C" gauge.
- 4) Is an OAU (Optimum Air Usage) value correctly calculated for the meter panel flow transducer? Is the OAU value programmed into PressureMAP? Verify this by obtaining an Extended Specific Device Report through PressureMAP (option 2x from the PressureMAP Device History Menu).
- 5) Are all fields on the PressureMAP Extended Device History Report for the flow transducer at the meter panel correct? Generate an Extended Device History Report for the meter panel and verify that all the data fields in the report are complete and accurate (option 2x from the PressureMAP Device History Menu).
- 6) Is there a system index for this route as shown in PressureMAP?
- 7) Is the System Quality Index above 80?

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Form #105en-3

AIR PIPE ROUTE CHECKLIST

EXCHANGE: _____ PIPE ROUTE: _____

CERTIFIED BY: _____ DATE: _____

The following information should be provided for each pipe alarm panel at the Central Office.

YES **NO**

- 1) Is a 0-50 SCFH (Standard Cubic Feet per Hour) flow transducer installed, programmed, and operating on the pipe alarm panel? Verify this on the Sparton/Chatlos and PressureMAP printouts.
- 2) Has an OAU (Optimum Air Usage) been calculated for the flow transducer on the pipe alarm panel? Is the OAU value recorded correctly on the Extended Device History Report generated by PressureMAP (Option 2x from the PressureMAP Device History Menu)?
- 3) Is the pipe alarm panel delivery pressure set at 10 PSI (Pounds per Square Inch)? To verify this, measure the delivery pressure at the pipe alarm panel with a "C" gauge.
- 4) Is there a pressure transducer installed, programmed and operating that monitors the air pipe pressure at the last pressure transducer housing location on the pipe route? Verify the transducer data on the CPAMS and PressureMAP printouts.
- 5) On dual feed systems, are all cables monitored with pressure transducers at all midpoint locations? Verify the transducer data on the Sparton/Chatlos and PressureMAP printouts.
- 6) On single feed systems, are all cables monitored with pressure transducers at the endpoints? The transducers must be installed, programmed, and operating. Verify this on the Sparton/Chatlos and PressureMAP printouts.
- 7) Verify that all data fields on the Specific Device Information Report Produced by PressureMAP are correct and complete for each device on the pipe route.
- 8) Is there a system index for this route as shown in PressureMAP?
- 9) Is the System Quality Index above 80?

The following questions should be answered for air pipe routes that have flow transducers installed at the air pipe manifolds.

- 10) Is a 0-19 SCFH flow transducer installed, programmed, and operating at each air pipe manifold? Is each flow transducer recorded on the Device History Report generated by PressureMAP? Verify the transducer data on the Sparton/Chatlos and PressureMAP reports.
- 11) Is an OAU value established for each manifold flow transducer? Are the OAU values correctly recorded on the Extended Device History Report generated by PressureMAP (option 2x from the PressureMAP Device History Menu)?
- 12) Is the sum of the air pipe manifold OAU's equal to the pipe alarm panel OAU? Verify this from the Extended Device History Report produced by PressureMAP (option 2x from the Device History Menu).

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Form #106en-2

CENTRAL OFFICE CABLE PRESSURIZATION CHECKLIST

CENTRAL OFFICE: _____ DATE: _____

The following questions are to be verified for the wire center.

YES **NO**

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | 1) Are stickmaps developed for this Central Office which show the location of all air pipes, pressure transducers and air pipe manifold locations? |
| <input type="checkbox"/> | <input type="checkbox"/> | 2) Are the hours per sheath mile per month and System Quality Index being tracked on a monthly basis for the Wire Center? |
| <input type="checkbox"/> | <input type="checkbox"/> | 3) What is the System Index for this office? |
| <input type="checkbox"/> | <input type="checkbox"/> | 4) Total number of sheath miles for this office (found on System Quality Index) |
| <input type="checkbox"/> | <input type="checkbox"/> | 5) Total number of routes (pipe alarm and meter panel) in Central Office |
| <input type="checkbox"/> | <input type="checkbox"/> | 6) Total number of routes certified (all questions asked on individual checklist answered "yes"). |

FIELD REVIEW

One route in this wire center should be field-verified against the records. A route can be chosen at random. Typically, all manifolds and pressure transducer locations will be field-verified.

Route Number (designation)

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 7) Are all air pipe manifolds located as indicated by the stickmaps? |
| <input type="checkbox"/> | <input type="checkbox"/> | 8) Are all cables fed at manifold locations? |
| <input type="checkbox"/> | <input type="checkbox"/> | 9) Are all pressure transducer locations located as indicated by stickmaps? |
| <input type="checkbox"/> | <input type="checkbox"/> | 10) Are all cables monitored at pressure transducer locations? |

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Form #107en-2

CABLE PRESSURE STATUS REPORT

DISTRICT: _____

DATE: _____

* Minimum Required for PressureMAP

Office	Cable Pressure Stickmaps	Flow TDs at * Pipe & Meter Panels	Optimum Air * Usage Calculation for Flow TDs	Pressure TDs * on Air Pipes	Office Field * Verified	Flow TDs * on Manifolds	Currently on PressureMAP?

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Form #108en-1

CHECKLIST FOR CABLE PRESSURIZATION TRUCKS

The following list of equipment should be carried on each cable pressurization truck.

- _____ 1) Flow Finders (assortment of 0-9.5, 0-19, 0-47.5 and 0-95 SCFH)
- _____ 2) Flow Gauge
- _____ 3) A 0-12 PSI "C" Pressure Gauge or Digital Pressure Gauge
- _____ 4) A 0-20 SCFH Portable Flow Rater
- _____ 5) A Direction of Flow Indicator
- _____ 6) An Ultrasonic Leak Detector
- _____ 7) A Soap Bucket with Brush
- _____ 8) A Hand Held Pocket Calculator
- _____ 9) A Chart of Pneumatic Resistance for Cables
- _____ 10) Leak Locating Worksheets
- _____ 11) System Studies Theory & Practice Book
- _____ 12) Underground Prints
- _____ 13) Air Pressure Stickmaps
- _____ 14) A Volt Ohm Meter (VOM)
- _____ 15) Spare 0-19 SCFH and 0-50 SCFH Flow Transducers
- _____ 16) Spare Pressure Transducers
- _____ 17) Small Coil of 3/8" Tubing
- _____ 18) Spare Air Pipe Fittings
- _____ 19) 3/8" Spare Plastic Tubing Fittings
- _____ 20) 50% of Trucks Equipped with Hydrogen Detector and Tank of Trace Hydrogen
- _____ 21) Ultrasonic Duct Probe Available and in Working Order. One Required for Area.

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Form #109en-5