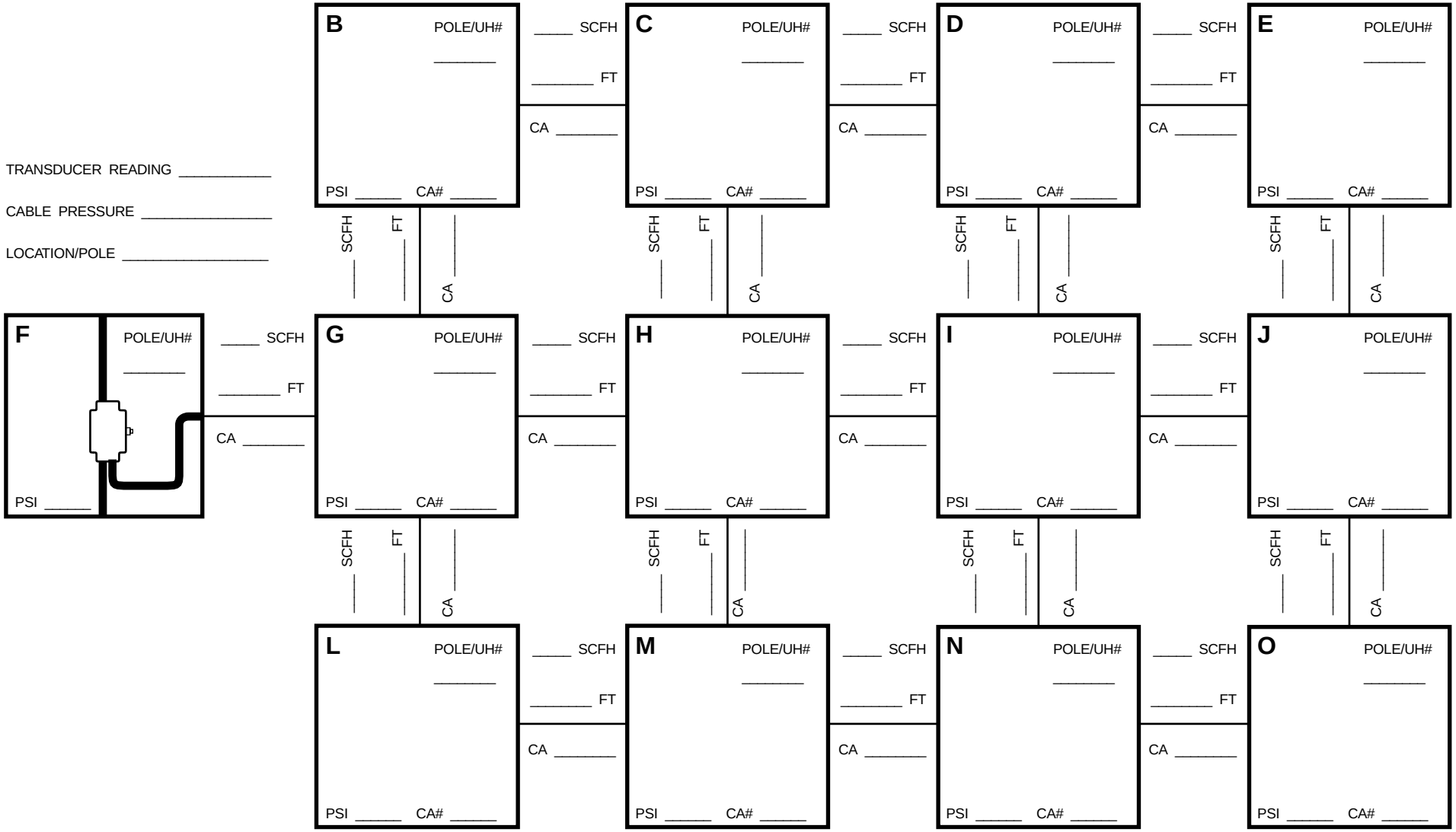
Worksheet E

Leak Locating in Single Feed Cables



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Form #115EN-2E

Worksheet E
Leak Locating in Single Feed Cables

Procedure:

		Review Checklist
Step 1	Visit pressure transducer to verify and record cable pressure.	❑
Step 2	Begin leak locating at location where lateral “T's” from the major cable run (Location F on worksheet). Read and record cable pressure. Pressure at this point must be adequate to support minimum lateral cable pressure once leak is found and repaired.	❑
Step 3	Take pressure reading to field side of “T,” record reading (Location G), calculate and record flow for section.	❑
Step 4	Use this flow rate and pressure reading to make a Zero Leak Projection (ZLP). If possible, use pressure reading at transducer location to make Back Projection. Search for leak in this area.	❑
Step 5	If impossible to back project (change of cable resistance within ZLP area of search), take reading at next valve and calculate flow. If calculated flow is significantly less than last section, check this section for leaks.	❑
Step 6	Calculate flow up all risers that are within original ZLP. If one lateral has the majority of air being consumed, calculate another ZLP and make a Back Projection.	❑
Step 7	Enter all calculations, footages and cable size on diagram. All Air Flow Calculations and Zero Leak Projections should also be entered on worksheet.	❑

Equipment and Procedures Required:

- ❑ C Pressure Gauge
- ❑ Flow Gauge
- ❑ Portable Flow Rater (0-20 SCFH)
- ❑ Flow Direction Indicator
- ❑ Ultrasonic Leak Locator or Soap Bucket
- ❑ Calculator
- ❑ Pneumatic Resistance Charts
- ❑ Zero Leak Projection
- ❑ Air Flow Calculation
- ❑ Back Projection (Single Feed System Only)

Task Number: _____

❑ Found
❑ Not Found

Date: _____

Hours Worked: _____

Office: _____

Pipe Route: _____

Name: _____

Cause of Problem:

- ❑ Leaking Closure
- ❑ Missing Plug
- ❑ Leaking Plug
- ❑ Leaking Valve
- ❑ Section Leak Leaking Hardware
- ❑ Other _____

_____

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