

PIPING PROCESS SYSTEMS

FIELD IDENTIFICATION

- Check for labels/tags with ID
- Is piping adequately ID'd?
- Are labels/tags legible?
- Do any labels/tags need replacement?

INSPECT COATINGS

- Cracking
- Deterioration
- Blistering



INSPECT FOR EXTERNAL CORROSION

- Support point or fixture
- Coating or paint deterioration
- Areas of scale, pits or rust
- Corrosion between flanges
- Flange bolt corrosion
- Corrosion under labels



INSPECT INSULATION

- Physical damage or penetration
- Weather seal damage
- Bulging or wet insulation
- Discoloration indicative of leaks
- Missing/broken retaining bands
- Missing jacket plugs or insulation



CHECK FOR VIBRATION

- Observe any significant vibration
- Excessive movement evidence
- Pipe distortion observations



CHECK PIPING SUPPORTS

- Any shoes off their supports
- Hangers missing or damaged
- Spring hangers bottomed out
- Support brace problems
- Corrosion of supports
- Loose or broken brackets

EXAMINE FOR LEAKS

- Leaks from the process
- Leaks from liquid heat tracing, if any
- Leaking valves
- Leaks at repair clamps
- Evidence of past leaks (stains)

EXAMINE FOR CORROSION UNDER LABELS

- Determine extent of corrosion
- Assess if de-energizing needed before label removal

