



Informational Requirements to Develop Condition Assessment Isometric Drawings

To prepare a comprehensive condition assessment drawing, we would require the following data:

1. **Piping system drawings, specifications, isometrics, and/or spool piece drawings.** The piping drawing should represent the as-exists condition as closely as possible, including pipe weld locations.
2. **Piping material information, including:**
 - a. Pipe OD and ID, or wall thickness
 - b. Pipe material specification
 - c. Fitting wall thickness or class
 - d. Valve type and pressure rating
 - e. Insulation thickness and density
 - f. Termination points
3. **Pipe support and restraint details, including:**
 - a. Type and locations
 - b. Loads and movement
4. **Fluid characteristics, including:**
 - a. Design temperature
 - b. Design pressure
 - c. Operating temperature
 - d. Operating pressure
5. **Historical information on nondestructive testing activities:**
 - a. Methods used
 - b. Locations examined
 - c. Results and recommendations

It is important to note that the information involving the piping segments supplied by the boiler and turbine manufacturers will likely not be found with the plant piping specifications and will require the review of specific drawing/information associated with the individual suppliers.

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