

For our piping confirmatory analysis, we still need files containing input response spectra, time history loading functions, and output files (with results) for all static and dynamic analyses.

We would like a phone call with GE's piping engineers as soon as possible to discuss the following:

1. For verification purpose, provide a piping model drawing indicating node numbers for all terminal points, bends, pipe fittings (e.g., tees, nozzles, valves), intermittent pipe locations, supports, concentrated mass, etc.
2. Some of the supports, specifically snubbers, marked in the second set of GE drawings (MFN 06-236) are not consistent with the computer model locations and their directions of application. Also, hangers shown (as vertical spring supports) in the second set of GE drawings are not included in the GE model. Provide the stiffness values for these hangers. In addition, provide either the directional cosine values of all "local" guides or provide their sketches showing the actual orientations with respect to global coordinates.
3. The GE model coordinates (even Y-coordinate for elevations) of many nodes at specific locations (e.g., anchor points, valve locations, pipe headers, elbow locations) are not consistent with those dimensions marked in the pipe drawings by a few millimeters. It appears that the GE model was developed from another set of design drawings for this MS piping. Verify that GE provided the latest set of design drawings with the node locations.
4. Clarify why GE model node number 312N is listed twice in the model with the same concentrated mass input.
5. Provide design drawings (including dimensions) of piping models for the nozzles, valves, quenchers, and other online pipe elements. Also, include corresponding sketches indicating GE nodes that are included in the computer model.
6. Provide the other loads: Thermal movements at nozzle connections and seismic anchor movements, response spectra for all support groups, and time history inputs for the SRV discharge and TSV closure loads.
7. Provide the final results of all GE analyses (i.e., gravity, thermal, response spectrum and time history) for comparison with our results.

Thanks, Larry

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From: Lawrence Rossbach
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