

Welded Pipe Supports Program

A major liquid pipeline operator identified 103 cases of code non-compliance with welded supports in their pipeline system. These cases of non-compliances related to clause 4.10 of CSA Z662-2015, which limits hoop stress on piping with directly welded support attachment. Rally evaluated and addressed each non-compliant item. This was accomplished through re-rating of the affected piping and equipment, which provided the necessary code compliant basis for removal of current pipeline licensed maximum operating pressures (MOPs), which were conservative and unnecessarily restricted pipeline operation.



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Alberta

Pipeline Facilities

\$1.5M TIC



Strategy

Engineering evaluation to ensure each item was appropriately re-rated to achieve technical compliance with code requirements. This effort included gathering and compilation of appropriate documentation records, and detailed interpretation & technical review of these records. Updated equipment nameplates reflecting the re-rated conditions were prepared, and as-built drawings were updated to accurately record the new equipment ratings.

The project team confirmed that each item to be re-rated (via de-rating) was technically verified at a pressure equivalent to 50% SMYS hoop stress and was supported through the gathering and compilation of appropriate documentation records.

Deliverables

Rally delivered as-built drawings including the revised nameplate data and a comprehensive verification document package.