

QUARTERLY REPORT - PUBLIC PAGEGTI PROJECT NUMBER 20385

Plastic Pipe Failure, Risk, and Threat Analysis

DOT Prj# 194

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Results and Conclusions

TASK 4: Root Cause Analysis

- Preliminary results from a group of field failure samples show failures related to the following pipe components or conditions:
 - Impingement
 - Squeeze-off
 - Caps
 - Butt fusion joints
 - Socket joints
 - Saddle joints
 - Loading/bending
 - Tees
 - Other

TASK 5: Slow Crack Growth

- At this time, there are no results to report though GTI is currently collecting background data and analyzing laboratory data and remaining life predictions.

TASK 8: Project Management Activities

- GTI held a teleconference with the Project Advisory Group.
- GTI presented this project at the 2008 International Pipeline Conference.
- The project received a “very effective” rating from the PHMSA peer review held on May 6, 2008.

TASK 9: S-4 RCP Testing

- Previously GTI was unable to initiate a crack in the PE100 and stated that the resolve would include lowering the test temperature. The test temperature found to be sufficient for crack initiation is 23°F.
- GTI found the critical pressure of 6” SDR 11 Medium Density PE2406, 6” SDR 11 High Density PE3408, and of 6” SDR 11 PE100.

Plans for Future Activity

- GTI will host a teleconference with the Project Advisory Group in November.
- GTI will complete the Root Cause Task Report.
- GTI will complete the Slow Crack Growth Task Report.
- GTI will continue critical pressure and temperature tests on the remaining materials.

Respectfully Submitted,

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End of Report