



Pipeline Segment Excavation Program

After running an ILI tool the client initiated an excavation verification program for 22 indications reported by the inspection tool. Using the results of the excavation verification program the ILI vendor issued a subsequent report to the client. DNV then established excavation criteria for the reassessment results, repair criteria and identified repair methods for various indication types.

Critical issues

To define excavation criteria, repair criteria, and determine appropriate repair methodologies.

An ILI tool vendor to perform an in-line inspection (ILI) of a pipeline segment for this client. An excavation verification program, which consisted of the evaluation of 22 features reported by the inspection tool, was undertaken. The results of the excavation verification program were provided to the ILI vendor, who reassessed the data and issued a subsequent report to the Client. Wanting to do more to ensure proper risk management, the client retained DNV to define excavation criteria, repair criteria, and determine appropriate repair methodologies.

Solutions

DNV calculated critical flaw sizes were calculated using our unique CorLAS™ program. These were then used to estimate the remaining life of the pipeline segment. The procedure was repeated for several locations. The PRCI Pipeline Repair Manual and ASME B31.4 were used to identify applicable repair methods for various defects.

Value delivered

- Proper risk management was ensured
- The most suitable repair methods were determined
- Excavation and repair criteria were determined with remaining life estimations
- Remaining life of the pipeline was estimated
- Pipeline integrity was increased

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MANAGING RISK

