



AGI Corrosion Issues

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Corrosion Under Sliding Steel Supports



Problem:

- Metal loss discovered at AGI following Online Inspection. AGI constructed in 1977

Extent of metal loss

- Pitting of up to 4.6mm measured on 14.27mm W/T pipe.
- ILI run 10 years earlier showed no metal loss so corrosion growth rates of at least 0.46mm per year.

Corrosion on Pipe Risers



Contributing factors

- Incorrectly wrapped in the first place
- Wrapping in poor condition

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Proposed Solution

- Sand blast the surface of the pipe and the internal surface of the support to Sa 2 1/2
- Apply a 2-part polyurethane, multi-component liquid, protective pipe coating to a dry film thickness of 2.0mm.
- Put neoprene circumferentially between the supports and the pipe.
- To be done in accordance with standard and specifications. Expected life approx 30 years.
- Risers to be excavated to at least 500mm and same coating to be applied.



Proposed Next Steps

- All new Sliding Steel Supports & Pipe Risers to be constructed in accordance with the new standard drawing.
- Program to be developed to investigation extent of damage in the other 175 AGI's nationwide. Use of guided wave inspection tools under consideration to help prioritise sites.
- AGI painting programmes to be reviewed to incorporate removal of SSS and defective Pipe Riser wrapping for inspection and application of new standard.
- Aim to complete all remedial/protective works over next 5 to 7 years.

Questions?

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