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## #1 Evaluation of Pipeline Casing (sleeve) Testing Methods

Various methods exist for pipeline casing testing. The testing is primarily to determine the electrical condition (status) of the carrier pipe and casing – either isolated or shorted. The methods used vary from company to company and country to country and some of the test methods are not very conclusive of the casing electrical condition.

This paper will list and describe each test method, rank the test methods on effectiveness and practicality and provide some possible research ideas for future test methods.

## #2 What to do with a shorted casing

When a casing is shorted, the pipeline operator has several options. These options are affected by local or national regulations/codes, company policy and what criteria is being followed for the pipeline.

This paper will discuss what options are typically followed, what the risk is of doing nothing and what is the most common-sense approach to addressing a shorted casing.

# **Evaluation of Pipeline Casing (sleeve) Testing Methods and What to do with a Shorted Casing**

Various methods exist for pipeline casing testing. The testing is primarily to determine the electrical condition (status) of the carrier pipe and casing – either isolated or shorted. The methods used vary from company to company and country to country and some of the test methods are not very conclusive of the casing electrical condition.

The first part paper will list and describe each test method, rank the test methods on effectiveness and practicality and provide some possible research ideas for future test methods.

When a casing is shorted, the pipeline operator has several options. These options are affected by local or national regulations/codes, company policy and what criteria is being followed for the pipeline.

The second part of this paper will discuss what options are typically followed, what the risk is of doing nothing and what is the most common-sense approach to addressing a shorted casing. Various methods to address a shorted casing will be discussed and the benefits of these methods (if any) will be addressed.

Keywords: shorted casing, casing testing, clearing a shorted casing.