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Accuracy of Steel Pipe Wall Thickness Measurement with Computed Radiography

The use of Computed Radiography in NDT has largely increased over the last years. One important application of Computed Radiography is corrosion monitoring and Wall Thickness Measurement in the Oil & Gas industry. Over the last decade several software algorithms have been developed and are available commercially now.

One important advantage of a Wall Thickness Measurement using software tools is the consistency of the measurement that is also objective, not being subject to pure visual interpretation. In this paper we will give an overview of all the advantages of Wall Thickness determination with Computed Radiography . Some of the existing algorithms will be discussed as well as the accuracy of the different calculation methods.

The German BAM Institute has done an independent 3rd party validation study of the Wall Thickness Measurement in collaboration with BASF. The results of this validation report will be presented in this paper.