



Seminar

In-Line Inspection of Transmission Pipelines

21-22 March 2013

HCC – Hannover Congress Centrum,
Hannover, Germany



a Pipeline Technology Conference event

Information

Course Content

- 1 Introduction
 - 1.1 Pipelines: Why is Pipeline Integrity Management important?
 - 1.2 Introducing Integrity Assessment and Fitness-For-Purpose
 - 1.3 Pipeline Integrity Management
 - 1.4 Safety Aspects and International Approaches
- 2 Defects in Pipelines
 - 2.1 Pipeline materials
 - 2.2 Types of pipelines
 - 2.3 Coating Flaws
 - 2.4 Corrosion and Metal Loss
 - 2.5 Cracks and Crack-Like Defects
 - 2.6 Leaks
- 3 Pipeline Inspection
 - 3.1 Hydro- and Stress testing
 - 3.2 In-Line Inspection
 - 3.3 External Inspection Methods
- 4 Non-Destructive Testing Technologies
 - 4.1 Magnetic Flux Leakage Technology
 - 4.2 Ultrasonic Technology
- 5 Pipeline Inspection Tools
 - 5.1 Free swimming In-Line inspection tools
 - 5.2 Tethered and cable operated tools
 - 5.3 Automated external inspection tools
- 6 Pipeline Inspection Procedures
 - 6.1 Planning an inspection
 - 6.2 Preparing the Pipeline for an Inspection
 - 6.3 Pipeline Cleaning
 - 6.4 Performing the Inspection
- 7 Reporting
 - 7.1 Data Evaluation
 - 7.2 Final Report
 - 7.3 Introducing POF
 - 7.4 Integrity Assessment: MAOP
 - 7.5 Run Comparison
 - 7.6 Data Management and archiving

Aim

The course will provide an in-depth introduction into the subject and importance of pipeline inspection and integrity management. Delegates will learn about the need for pipeline inspection and the use of inspection for the analysis of the pipelines integrity and fitness-for-purpose.

The course will introduce the flaws and anomalies observed in pipelines. Suitable external and internal inspection technologies will be introduced including the strength and weaknesses of the non-destructive testing principles applied.

The material cover details on a pipeline inspection operation, including pipeline preparation, cleaning, gauging.

Final Reports, Reporting Formats are discussed. The course also includes a short introduction into integrity assessment.

Target Group

Managers responsible for pipeline integrity, Pipeline Engineers, Technicians or other interested personnel from operators. Engineering Consultants active in the field of NDT and Integrity Assessment. Personnel from the authorities or certification bodies involved with pipeline inspection and assessment and licensing.

Exercises

The course also includes a workshop session and exercises covering the following topics:

- Which Tool Does What?
- How to read Tool Data and Defect Specification Sheets
- Preparing an Inspection Project
- Data Analysis and MAOP

Language

English

Date

21-22 March 2013, 9:00-17:00

Minimum number of participants

8

Seminar Contact

Mr. Dennis Fandrich
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Pricing

The registration fee is 1,400 Euro per persons (1,200 Euro for already registered delegates of Pipeline Technology Conference 2013). All prices + 19% VAT. Group packages for 3 and more participants available on request (20% discount on full price).

Registration Deadline

11 March 2013

Included Services

- Seminar documentation
- Catering during coffee breaks and lunch breaks
- Dinner invitation on first day
- Certificate of participation

Event Venue

HCC – Hannover Congress Centrum
Theodor-Heuss-Platz 1-3
30175 Hannover
Germany

Entry Conditions

Registration is not considered confirmed until payment is received in full. Registrations can be cancelled (in writing only) free of charge up to 4 weeks before the event. In case of later cancellation or failure to attend the entire attendance fee will be payable. The registered delegate may of course send a substitute at no additional cost. The organisers reserve the right to amend the program of events if necessary.

Picture Credit

NDT Systems & Services

More information

www.pipeline-conference.com

Lecturer



Dr. Michael Beller, Landolt AG, Switzerland

Dr. Beller has worked in the pipeline industry for over 20 years now. After receiving his Master's degree in Mechanical Engineering from the University of Karlsruhe, Germany, he joined the Research Center Karlsruhe where he carried out research work for his Phd. thesis on the behaviour of cracks in pipeline steels. In 1988 he joined Preussag AG in their pipeline construction division and in 1991 Pipetronix GmbH, a former subsidiary of Preussag specialized in pipeline inspection utilizing in-line inspection tools. At Pipetronix Dr. Beller held various positions in the Engineering, Sales and Marketing departments, including the position as Marketing Manager. After the merger with Pipeline Integrity International he was appointed Group Training Manager for the PII Group. Michael joined NDT Systems & Services AG in 2001, where he held the position of Corporate Marketing Manager until leaving in May of 2012. Today Michael works as a Senior Technical Consultant for Landolt AG, a Swiss Consulting company based in Luzern.

He has published more than 70 technical papers on the issues of pipeline inspection and integrity and is also co-author of a German standard book on Pipeline Inspection Technology. Michael is a former president of the International Pigging Products & Services Association and is currently a member of the editorial boards of the Journal of Pipeline Integrity and the PetroMin Pipeliner, both published internationally. In 2006 he also became a member of the founding board of the Professional Institute of Pipeline Engineers.

Dr. Beller has been delivering training courses to the pipeline industry for over 10 years now covering pipeline inspection, pipeline integrity and material defects in pipeline steels and is also a lecturer at the University of Applied Sciences in Karlsruhe, where he teaches Material Science and Technical Mechanics.

Lecturer



Dr. Konrad Reber, Innospection GmbH, Germany

Konrad Reber studied physics at the University of Mainz. In a Ph.D. thesis at the material science department of the University of Erlangen, he worked in the field of magnetic materials. At Pipetronix he was responsible for the development of data analysis algorithms for the application to MFL-pipeline inspections. This included methods of artificial intelligence for analysis automation. Later he also became responsible for the magnetic design of MFL-inspection pigs. After changing to NDT Systems & Services he continued to work in the field of in-line inspection and broadened his focus to include topics of defect assessment and general comparison methods of different inspection tools. Between 2006 and 2008 he was with TUV Rheinland as an expert within the Pipeline Technology Group. He was responsible for international projects on pipeline integrity and pipeline certification. Since 2008 he is head of research and development for the Innospection Group. The department is responsible for designing new inspection equipment of the Oil and Gas industry. The focus is on- and offshore applications of the eddy current technology. He is busy in delivering speeches on conferences and is a trainer in various courses on pipeline inspection.

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Registration Form

via Fax: +49 511 90992-69 or Email: ptc@eitep.de

Company	
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Date, Signature	

yes no I am registered delegate of Pipeline Technology Conference 2013
(www.pipeline-conference.com)

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