

Risk-based Inspection (RBI) and advanced NDT methodologies

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Introduction to the topic:

Successfully implemented RBI programs improve plant reliability and safety and reduce unplanned maintenance and repair costs.

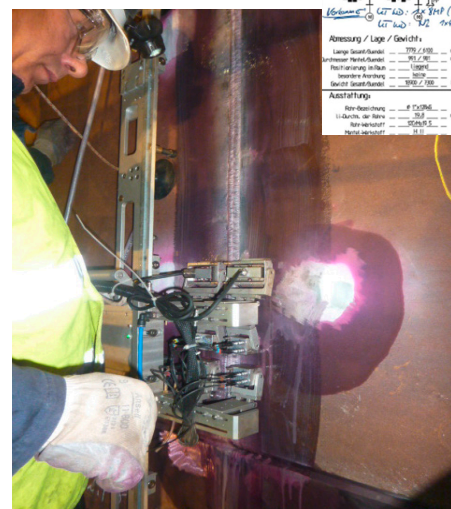
How to get from RBI to an effective and efficient inspection and NDT program for your plant.

Aspects to be discussed:

- ▶ In-service inspection codes and Risk-based Inspection (RBI)
- ▶ Degradation mechanism, failure modes, fitness for service and advanced NDT
- ▶ Example: Phased Array and TOFD
- ▶ Discussion

Schädigung - Damage Mechanism: Lokaler Materialabtrag - Local Thinn
Standard: API581, table 5.6
Komponenten - Components: Behälter, Reaktoren, Kolonnen, Wärmetauscher
Ergebnis - Result: Ausgehend vom Schädigungsmechanismus
Based on defects and risk matrix determinat

Inspektions Kategorie - Inspection Category	Meßvolumen gesamt - test scope total	Meß- methode + test methode	Schuß / Kolen - shell / cone					Me- met - te met	
			in Abhängigkeit von - depends on						
			Bezugslänge - test relevant length (ft)	Durchmesser - diameter					
			1000 bis 12000	1000 bis 20000	2000 bis 40000	4000 bis 60000	6000 bis 100000		
E	SP	UF-WD	pro 10m	4	Komponenten-Beschreibung				
D	SP	UF-WD	pro 10m	4	Standardmäßig alle Durchmesser > 20m				
C	SP bzw. 20% LIT(m)	UF-WD alt. UT(m)	pro 2m pro 2m	4 20	Handwritten notes: Standardmäßig alle Durchmesser > 20m, Temperatur > 250°C, etc.				
B	20% bzw. 50% LIT(m)	UT(m) alt. UT(m)	pro 2m pro 2m	20 50	Handwritten notes: Temperatur > 250°C, etc.				
A	spezifisches Prüfprogramm, muß detailliert erarbeitet werden specific inspection program, have to be defined in case								



Register

EPSC Webinar: Friday June 12th 2020, 2-3 p.m.

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