



Linking Piping to Equipment in iRIS-Petro



Steinbeis Transfer Center (STC)
advanced Risk Technologies (R-Tech)

R-TECH iRIS-PETRO

Help

Stefan_Husta [Logout]

Method: RBI



New Process Unit in ...



New Component



Delete Component



Close Analysis

CURRENT D

ANALYSIS

PROCESS UNITS

COMPONENTS

By Type By Units

Find (like):

Air Coolers (19)

Auxiliary Piping (153)

Columns (10)

Compressors (1)

Filters (3)

Fired Heaters (10)

SAVE Component

Print Preview

P-23-0309

Dimensions

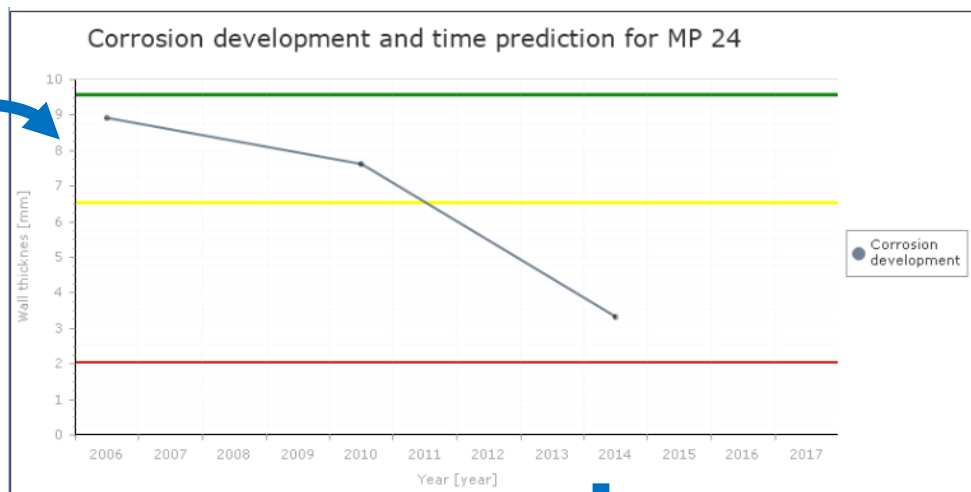
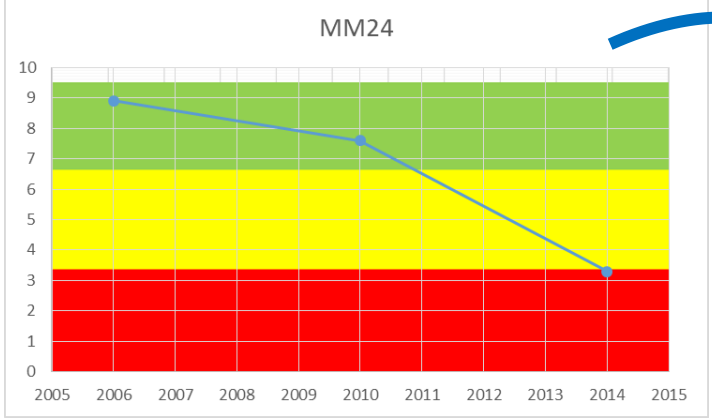
Outer Diameter [mm]	114.3	Length [m]	1.341
Design Wall Thickness [mm]	6.0	Corrosion Allowance [mm]	3.0
Total Inside Volume [m3]	0.01	Total Steel Mass [kg]	21.5
Total Inside Volume (Calculated) [m3]	0.01	Total Steel Mass (Calculated) [kg]	23
From Equipment	DA-2305	To Equipment	EA-2310
Piping Type	Process Piping		
<input type="checkbox"/> Post-Weld Heat Treated		<input checked="" type="checkbox"/> Insulated	

Link Between Thickness Readings and RBI

RBI Measured Corrosion Rate Value



Component: P-2014-2



Component Data

Probabilities

Consequences

Modification Factors

Financial Risk

Inspection History

Inspection Planning

Documents

Overview

Thinning

SCC

Thinning Technical Module

Design Wall Thickness [mm]

10.0

Corrosion Allowance [mm]

6.40

☒ Correct for Corrosion Allowance

Corrosion Type

Generalized

Known Cause

Sulphidic and Naphthenic

Online Monitoring

Key Process Variables

☐ Injection Point

☐ Highly effective inspection performed for Injection Points

☐ Deadleg

☐ Highly effective inspection performed for Deadlegs

Corrosion Rate [mm/year]

☐ Estimated

☒ Measured

☐ Calculated

0.12800

1.07500

Calculate

+ Add new record Save changes Cancel changes					
Measurement Date	Measuring Point	21	22	23	24
	Nominal value	9.27	9.53	9.27	9.53
	Minimal value	6.5	6.7	6.5	6.5
	Minimal Accepted value	2	2	2	2
12/Oct/2006	Measurement	10.2	8.1	9.2	8.9
14/Apr/2010	Measurement				7.6
10/Jun/2014	Measurement				3.3

Next plan thickness measurement	
Remark	
Corrosion Rate [mm/year]	1.075
Life time [year]	2.6