



ULTRASONIC CORROSION SURVEY

Survey Name: **CNRL**

LSD:	09-01-083-10W6	Dwg: 3	Vessel Number:	A0475274	Manufacturer:	SELECT OIL FIELD LEASING	Inspector:	CRAIG LIBA	Survey Date:	5/31/10
District Unit:	GPOU		Vessel Name:	LINE HEATER- PIPING	Serial Number:	21-4757B	Process:	SWEET		
Location:	JOSEPHINE PLANT		Year Built:	2001	Shell MAWP PSI:	4800	MAWT F:	199	Project #:	C10451
Skid:	SKD0542		Tag Number:	-	Tube MAWP PSI:	3191	MAWT F:	199		
			CRN:	H5494.238TY	Vessel CA:	0.0000				

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
3-05	Piping	Baseline	0.281	0.275	0.275	0.278	0.281	0.281	2007	0.279	0.275	0.3000	0.0375	0.2586	2011	2030	
Shape	90° Elbow	Tube Side	Previous	0.281	0.275	0.275	0.278	0.281	2007	0.279	0.275	Comments-->					
OD	3.5		Current	0.281	0.275	0.275	0.278	0.281	2010	0.279	0.275						
Spec.	B31.3									ST Loss MPY	0.000	OK					
Material	A 234 - WPB									LT Loss MPY	0.000						
3-10	Piping	Baseline	0.287	0.288	0.289	0.293	0.292	0.289	2007	0.290	0.287	0.3000	0.0375	0.2586	2011	2030	
Shape	90° Elbow	Tube Side	Previous	0.287	0.288	0.289	0.293	0.292	2007	0.290	0.287	Comments-->					
OD	3.5		Current	0.287	0.288	0.289	0.293	0.292	2010	0.290	0.287						
Spec.	B31.3									ST Loss MPY	0.000	OK					
Material	A 234 - WPB									LT Loss MPY	0.000						
3-15	Piping	Baseline	0.275	0.268	0.267	0.268	0.268	0.269	2007	0.269	0.267	0.3000	0.0375	0.2586	2011	2030	
Shape	90° Elbow	Tube Side	Previous	0.275	0.268	0.267	0.268	0.268	2007	0.269	0.267	Comments-->					
OD	3.5		Current	0.275	0.268	0.267	0.268	0.268	2010	0.269	0.267						
Spec.	B31.3									ST Loss MPY	0.000	OK					
Material	A 234 - WPB									LT Loss MPY	0.000						
3-20	Piping	Baseline	0.289	0.290	0.282	0.280	0.292	0.291	2007	0.287	0.280	0.3000	0.0375	0.2586	2011	2030	
Shape	Cylindrical	Tube Side	Previous	0.289	0.290	0.282	0.280	0.292	2007	0.287	0.280	Comments-->					
OD	3.5		Current	0.288	0.290	0.282	0.280	0.288	2010	0.286	0.280						
Spec.	B31.3									ST Loss MPY	0.000	OK					
Material	A 106 - B									LT Loss MPY	0.000						



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District Unit: GPOU		Vessel Name: LINE HEATER- PIPING	Serial Number: 21-4757B	Inspector: CRAIG LIBA
Location: JOSEPHINE PLANT		Year Built: 2001	Shell MAWP PSI: 4800 MAWT F: 199	Process: SWEET
Skid: SKD0542		Tag Number: -	Tube MAWP PSI: 3191 MAWT F: 199	Project #: C10451
		CRN: H5494.238TY	Vessel CA: 0.0000	

Band	Description		Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
			1	2	3	4	5	6								
3-25	Piping	Baseline	0.284	0.281	0.280	0.282	0.282	0.283	2007	0.282	0.280	0.3000	0.0375	0.2586	2011	2030
Shape	Cylindrical	Tube Side	Previous	0.284	0.281	0.280	0.282	0.282	0.283	2007	0.282	0.280	Comments-->			
OD	3.5		Current	0.284	0.281	0.280	0.282	0.282	0.283	2010	0.282	0.280				
Spec.	B31.3			ST Loss MPY						0.000	OK					
Material	A 106 - B			LT Loss MPY						0.000						
3-30	Piping	Baseline	0.264	0.261	0.261	0.265	0.272	0.273	2007	0.266	0.261	0.3000	0.0375	0.2586	2011	2030
Shape	90° Elbow	Tube Side	Previous	0.264	0.261	0.261	0.265	0.272	0.273	2007	0.266	0.261	Comments-->			
OD	3.5		Current	0.264	0.261	0.261	0.265	0.272	0.273	2010	0.266	0.261				
Spec.	B31.3			ST Loss MPY						0.000	Caution					
Material	A 234 - WPB			LT Loss MPY						0.000						
3-35	Piping	Baseline	0.281	0.277	0.275	0.275	0.269	0.271	2007	0.275	0.269	0.3000	0.0375	0.2586	2011	2030
Shape	90° Elbow	Tube Side	Previous	0.281	0.277	0.275	0.275	0.269	0.271	2007	0.275	0.269	Comments-->			
OD	3.5		Current	0.281	0.277	0.275	0.275	0.269	0.271	2010	0.275	0.269				
Spec.	B31.3			ST Loss MPY						0.000	OK					
Material	A 234 - WPB			LT Loss MPY						0.000						
3-40	Piping	Baseline	0.419	0.419	0.422	0.424	0.433	0.422	2007	0.423	0.419	0.4380	0.0548	0.3750	2011	2016
Shape	Cylindrical	Shell Side	Previous	0.419	0.419	0.422	0.424	0.433	0.422	2007	0.423	0.419	Comments-->			
OD	3.5		Current	0.419	0.419	0.422	0.404	0.414	0.422	2010	0.417	0.404				
Spec.	B31.3			ST Loss MPY						0.005	OK					
Material	A 106 - B			LT Loss MPY						0.005						



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District Unit: GPOU		Vessel Name: LINE HEATER- PIPING	Serial Number: 21-4757B	Inspector: CRAIG LIBA
Location: JOSEPHINE PLANT		Year Built: 2001	Shell MAWP PSI: 4800 MAWT F: 199	Process: SWEET
Skid: SKD0542		Tag Number: -	Tube MAWP PSI: 3191 MAWT F: 199	Project #: C10451
		CRN: H5494.238TY	Vessel CA: 0.0000	

Band	Description		Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
			1	2	3	4	5	6								
3-45	Piping	Baseline	0.440	0.440	0.441	0.442	0.443	0.438	2007	0.441	0.438	0.4380	0.0548	0.3750	2011	2030
Shape	Cylindrical	Shell Side	Previous	0.440	0.440	0.441	0.442	0.443	0.438	2007	0.441	0.438	Comments-->			
OD	3.5	Current	0.440	0.440	0.441	0.442	0.443	0.438	2010	0.441	0.438					
Spec.	B31.3							ST Loss MPY	0.000		OK					
Material	A 106 - B							LT Loss MPY	0.000							
3-50	Piping	Baseline	0.271	0.263	0.263	0.263	0.267	0.266	2007	0.266	0.263	0.3000	0.0375	0.2586	2011	2030
Shape	90° Elbow	Tube Side	Previous	0.271	0.263	0.263	0.263	0.267	0.266	2007	0.266	0.263	Comments-->			
OD	3.5	Current	0.271	0.263	0.263	0.263	0.267	0.266	2010	0.266	0.263					
Spec.	B31.3							ST Loss MPY	0.000		OK					
Material	A 234 - WPB							LT Loss MPY	0.000							
3-55	Piping	Baseline	0.288	0.284	0.285	0.278	0.275	0.281	2007	0.282	0.275	0.3000	0.0375	0.2586	2011	2030
Shape	90° Elbow	Tube Side	Previous	0.288	0.284	0.285	0.278	0.275	0.281	2007	0.282	0.275	Comments-->			
OD	3.5	Current	0.286	0.284	0.285	0.278	0.275	0.281	2010	0.282	0.275					
Spec.	B31.3							ST Loss MPY	0.000		OK					
Material	A 234 - WPB							LT Loss MPY	0.000							
3-60	Piping	Baseline	0.273	0.270	0.271	0.268	0.270	0.271	2007	0.271	0.268	0.3000	0.0375	0.2586	2011	2030
Shape	90° Elbow	Tube Side	Previous	0.273	0.270	0.271	0.268	0.270	0.271	2007	0.271	0.268	Comments-->			
OD	3.5	Current	0.273	0.270	0.271	0.268	0.270	0.271	2010	0.271	0.268					
Spec.	B31.3							ST Loss MPY	0.000		OK					
Material	A 234 - WPB							LT Loss MPY	0.000							