



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 11-01-075-11W6	Dwg: 114	Vessel Number: A3138689	Manufacturer: OPSCO	Survey Date: 1/31/11
District Unit: WEST COUNTY		Vessel Name: LINE HEATER - PIPING	Serial Number: HC.42.2000.2312.AB	Inspector: RAJ KHAN
Location: VALHALLA		Year Built: 1995	Shell MAWP PSI: 3130 MAWT F: 250	Process: SOUR
Skid: SKD0226		Tag Number: -	Tube MAWP PSI: 1480 MAWT F: 250	Project #: C70099
		CRN: N0291.2/N0292.2	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								
114-05	Piping	Baseline	0.420	0.413	0.404	0.401	0.407	0.426	2006	0.412	0.401	0.4380	0.0548	0.2540	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.420	0.413	0.404	0.401	0.407	0.426	2006	0.412	0.401	Comments-->			
OD	3.5		Current	0.414	0.404	0.404	0.401	0.407	0.410	2011	0.407	0.401				
Spec.	B31.3			ST Loss MPY						0.000	OK					
Material	A 234 - WPB			LT Loss MPY						0.000						
114-10	Piping	Baseline	0.363	0.356	0.356	0.363	0.369	0.373	2006	0.363	0.356	0.4380	0.0548	0.2540	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.363	0.356	0.356	0.363	0.369	0.373	2006	0.363	0.356	Comments-->			
OD	3.5		Current	0.363	0.356	0.356	0.363	0.367	0.367	2011	0.362	0.356				
Spec.	B31.3			ST Loss MPY						0.000	Caution					
Material	A 234 - WPB			LT Loss MPY						0.000						
114-15	Piping	Baseline	0.445	0.447	0.429	0.430	0.433	0.434	2006	0.436	0.436	0.4380	0.0548	0.2540	2012	2031
Shape	Cylindrical	Shell Side	Previous	0.445	0.447	0.429	0.430	0.433	0.434	2006	0.436	0.429	Comments-->			
OD	3.5		Current	0.445	0.447	0.429	0.430	0.433	0.434	2011	0.436	0.429				
Spec.	B31.3			ST Loss MPY						0.000	OK					
Material	A 106 - B			LT Loss MPY						0.001						
114-20	Piping	Baseline	0.307	0.308	0.306	0.305	0.307	0.307	2011	0.307	0.305	0.3430	0.0429	0.1724	2012	2031
Shape	Cylindrical	Shell Side	Previous	Comments-->												
OD	2.375		Current	0.307	0.308	0.306	0.305	0.307	0.307	2011	0.307	0.305				
Spec.	B31.3			ST Loss MPY							OK					
Material	A 234 - WPB			LT Loss MPY						0.000						



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		CRN: N0291.2/N0292.2	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								
114-25	Piping	Baseline		0.329	0.328	0.327	0.325	0.325	0.327	2011	0.327	0.325	0.3430	0.0429	0.1724	2012	2031
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	2.375		Current	0.329	0.328	0.327	0.325	0.325	0.327	2011	0.327	0.325	ID PITTING				
Spec.	B31.3			ST Loss MPY								OK					
Material	A 234 - WPB			LT Loss MPY						0.000							
114-35	Piping	Baseline		0.313	0.303	0.300	0.300	0.296	0.296	2011	0.301	0.296	0.3000	0.0375	0.2540	2012	2031
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	3.5		Current	0.313	0.303	0.300	0.300	0.296	0.296	2011	0.301	0.296					
Spec.	B31.3			ST Loss MPY								OK					
Material	A 106 - B			LT Loss MPY						0.000							
114-40	Piping	Baseline		0.289	0.287	0.290	0.294	0.297	0.307	2006	0.294	0.287	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	Comments-->													
OD	3.5		Current	0.289	0.287	0.290	0.292	0.289	0.291	2011	0.290	0.287					
Spec.	B31.3			ST Loss MPY						0.000		OK					
Material	A 234 - WPB			LT Loss MPY						0.000							
114-45	Piping	Baseline		0.283	0.283	0.276	0.273	0.273	0.278	2006	0.278	0.273	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	Comments-->													
OD	3.5		Current	0.274	0.275	0.273	0.273	0.273	0.278	2011	0.274	0.273					
Spec.	B31.3			ST Loss MPY						0.000		OK					
Material	A 234 - WPB			LT Loss MPY						0.000							