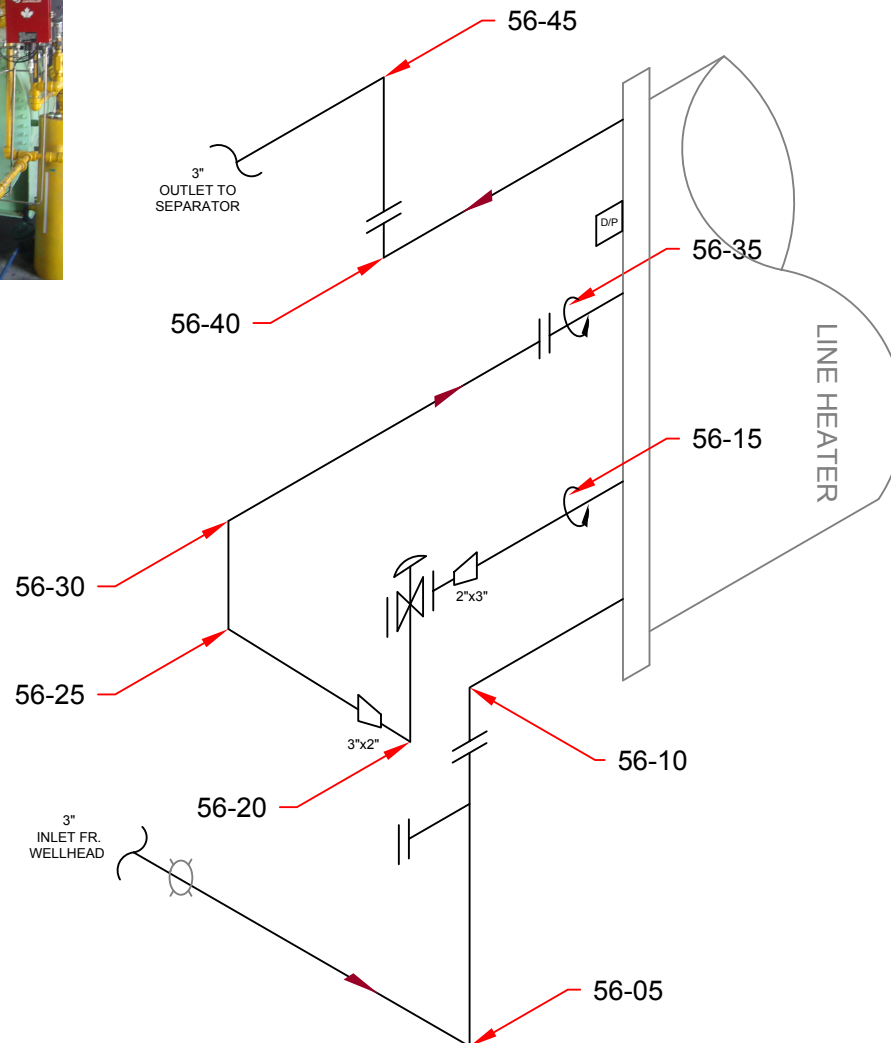


A 0438971



STEVE GILLINGHAM
SNT LEVEL II
CGSB 48.9712
LEVEL II # 11441

DWG # **56A**

SURFACE TEMP : AMBIENT

[illegible]

PROJECT:
C70099



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 08-31-073-09W6 Dwg: 56 Vessel Number: A0438971 Manufacturer: OPSCO Survey Date: 1/29/11
District Unit: WEST COUNTY Vessel Name: LINE HEATER - PIPING Serial Number: HC-2878A1B1 Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1998 Shell MAWP PSI: 3131 MAWT F: 250 Process: SOUR
Skid: SKD0208 Tag Number: - Tube MAWP PSI: 1480 MAWT F: 250 Project #: C70099
CRN: N0291.21/N0292.21 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								
56-05	Piping	Baseline	0.468	0.469	0.474	0.480	0.485	0.484	2006	0.477	0.468	0.4380	0.0548	0.2541	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.468	0.469	0.474	0.480	0.485	2006	0.477	0.468	Comments-->				
OD	3.5	Current	0.468	0.469	0.474	0.476	0.480	0.477	2011	0.474	0.468					
Spec.	B31.3							ST Loss MPY	0.000			OK				
Material	A 234 - WPB							LT Loss MPY	0.000							
56-10	Piping	Baseline	0.506	0.498	0.495	0.492	0.490	0.490	2006	0.495	0.490	0.4380	0.0548	0.2541	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.506	0.498	0.495	0.492	0.490	2006	0.495	0.490	Comments-->				
OD	3.5	Current	0.506	0.498	0.495	0.492	0.490	0.490	2011	0.495	0.490					
Spec.	B31.3							ST Loss MPY	0.000			OK				
Material	A 234 - WPB							LT Loss MPY	0.000							
56-15	Piping	Baseline	0.443	0.440	0.444	0.447	0.440	0.436	2006	0.442	0.436	0.4380	0.0548	0.2541	2012	2031
Shape	Cylindrical	Shell Side	Previous	0.443	0.440	0.444	0.447	0.440	2006	0.442	0.436	Comments-->				
OD	3.5	Current	0.443	0.440	0.444	0.447	0.440	0.435	2011	0.442	0.435					
Spec.	B31.3							ST Loss MPY	0.000			OK				
Material	A 333 - 6							LT Loss MPY	0.000							
56-20	Piping	Baseline	0.368	0.361	0.357	0.355	0.359	0.353	2006	0.359	0.353	0.3430	0.0429	0.0847	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.368	0.361	0.357	0.355	0.359	2006	0.359	0.353	Comments-->				
OD	2.375	Current	0.368	0.361	0.357	0.355	0.348	0.348	2011	0.356	0.348					
Spec.	B31.3							ST Loss MPY	0.001			OK				
Material	A 234 - WPB							LT Loss MPY	0.001							



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 08-31-073-09W6 Dwg: 56 Vessel Number: A0438971 Manufacturer: OPSCO Survey Date: 1/29/11
District Unit: WEST COUNTY Vessel Name: LINE HEATER - PIPING Serial Number: HC-2878A1B1 Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1998 Shell MAWP PSI: 3131 MAWT F: 250 Process: SOUR
Skid: SKD0208 Tag Number: - Tube MAWP PSI: 1480 MAWT F: 250 Project #: C70099
CRN: N0291.21/N0292.21 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								
56-25	Piping	Baseline		0.286	0.284	0.286	0.287	0.295	0.300	2006	0.290	0.284	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.286	0.284	0.286	0.287	0.295	0.300	2006	0.290	0.284	Comments-->				
OD	3.5		Current	0.286	0.284	0.286	0.287	0.295	0.300	2011	0.290	0.284					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
56-30	Piping	Baseline		0.327	0.322	0.322	0.317	0.321	0.318	2006	0.321	0.317	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.327	0.322	0.322	0.317	0.321	0.318	2006	0.321	0.317	Comments-->				
OD	3.5		Current	0.314	0.322	0.319	0.315	0.311	0.311	2011	0.315	0.311					
Spec.	B31.3			ST Loss MPY							0.001		OK				
Material	A 234 - WPB			LT Loss MPY							0.001						
56-35	Piping	Baseline		0.337	0.315	0.313	0.310	0.311	0.317	2006	0.317	0.310	0.3000	0.0375	0.1249	2012	2031
Shape	Cylindrical	Tube Side	Previous	0.337	0.315	0.313	0.310	0.311	0.317	2006	0.317	0.310	Comments-->				
OD	3.5		Current	0.325	0.315	0.313	0.310	0.311	0.317	2011	0.315	0.310					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 333 - 6			LT Loss MPY							0.000						
56-40	Piping	Baseline		0.284	0.278	0.276	0.273	0.278	0.282	2006	0.279	0.273	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.284	0.278	0.276	0.273	0.278	0.282	2006	0.279	0.273	Comments-->				
OD	3.5		Current	0.282	0.276	0.275	0.267	0.278	0.272	2011	0.275	0.267					
Spec.	B31.3			ST Loss MPY							0.001		OK				
Material	A 234 - WPB			LT Loss MPY							0.001						



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD:	08-31-073-09W6	Dwg: 56	Vessel Number:	A0438971	Manufacturer:	OPSCO	Survey Date:	1/29/11		
District Unit:	WEST COUNTY		Vessel Name:	LINE HEATER - PIPING	Serial Number:	HC-2878A1B1	Inspector:	RAJ KHAN		
Location:	VALHALLA		Year Built:	1998	Shell MAWP PSI:	3131	MAWT F:	250	Process:	SOUR
Skid:	SKD0208		Tag Number:	-	Tube MAWP PSI:	1480	MAWT F:	250	Project #:	C70099
			CRN:	N0291.21/N0292.21	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										
56-45	Piping	Baseline	0.298	0.295	0.288	0.286	0.282	0.286	2006	0.289	0.282	0.3000	0.0375	0.1249	2012	2031	
Shape	90° Elbow	Tube Side	Previous	0.298	0.295	0.288	0.286	0.282	0.286	2006	0.289	0.282	Comments-->				
OD	3.5		Current	0.296	0.287	0.283	0.281	0.279	0.278	2011	0.284	0.278					
Spec.	B31.3			ST Loss MPY						0.001							
Material	A 234 - WPB			LT Loss MPY						0.001	OK						