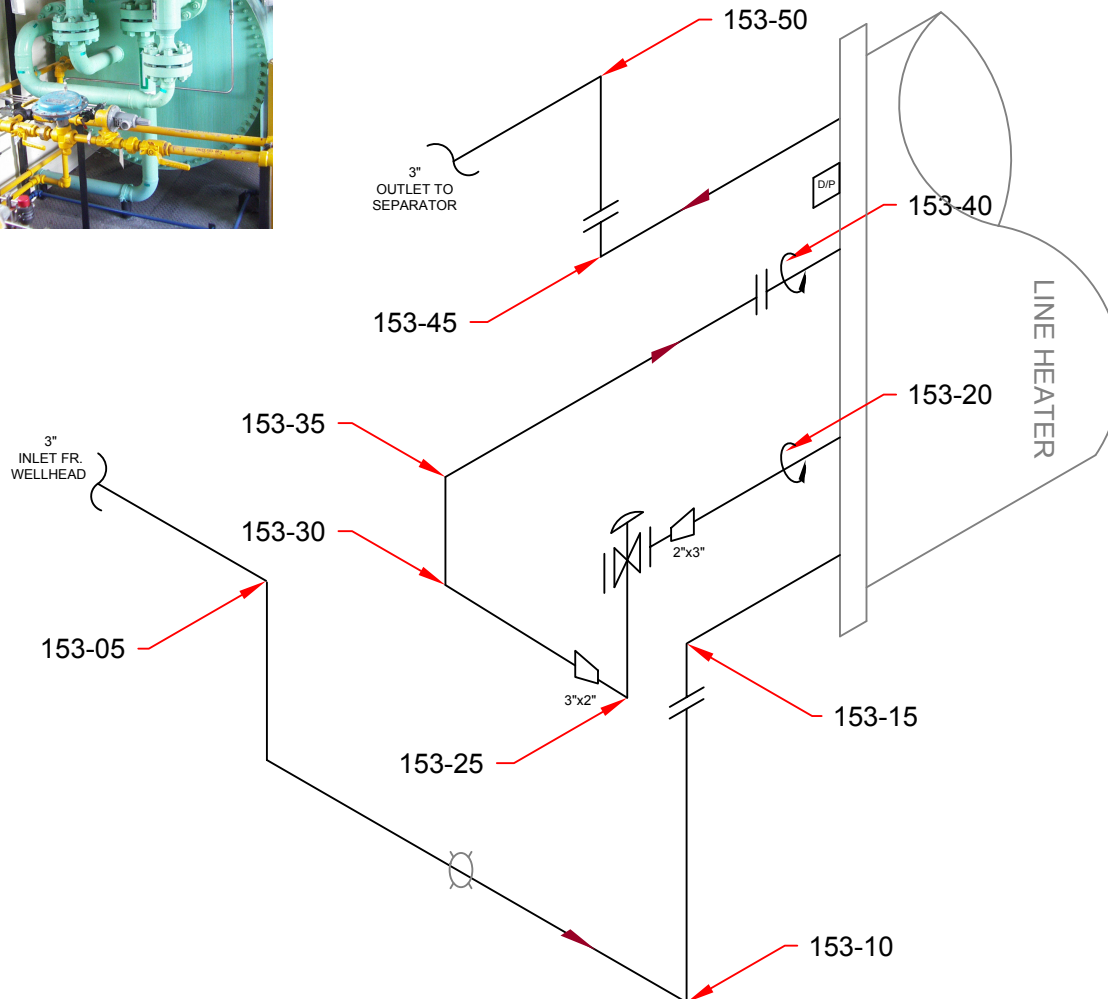


A 0420758



STETTLER, AB (403) 742-4868
LACOMBE, AB (403) 782-7855
BROOKS, AB (403) 501-8029
GRANDE PRAIRIE, AB (866) 422-9732

TECHNICIAN:

JOSHUA WALTERS
SNT LEVEL II
CGSB 48.9712
LEVEL II # 15660

DATE: 01/31/11

DWG # 153A

CLIENT: **CNRL**

LSD: 04-26-074-11-W6M

INSPECTOR :	RAJ KHAN
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LOCATION :	VALHALLA
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DISTRICT UNIT :	WEST COUNTY
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BLDG/SKID :	SKD 0241
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PROCESS :	SOUR
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CODE : ASME B31.3

SPECIFICATION : AS PER ASME SE 797

TECHNIQUE :	UT 1-1, REV .1
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METHOD :	UT CONTINUOUS / A SCAN
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SURFACE COND :	PAINTED
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SURFACE TEMP : AMBIENT

PIPING INFORMATION

[illegible]

COMMENTS:

PROJECT:
C70099



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 04-26-074-11W6 Dwg: 153 Vessel Number: A0420758 Manufacturer: OPSCO Survey Date: 2/01/11
District Unit: WEST COUNTY Vessel Name: LINE HEATER - PIPING Serial Number: HC-2716.AZ.B2 Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1997 Shell MAWP PSI: 3130 MAWT F: 250 Process: SOUR
Skid: SKD0241 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								
153-05		Piping	Baseline	0.683	0.657	0.657	0.651	0.633	0.651	2006	0.655	0.633	0.4380	0.0548	0.2540	2012	2015
Shape	90° Elbow	Shell Side	Previous	0.683	0.657	0.657	0.651	0.633	0.651	2006	0.655	0.633	Comments-->				
OD	3.5		Current	0.444	0.438	0.432	0.417	0.430	0.419	2011	0.430	0.417					
Spec.	B31.3			ST Loss MPY						0.043	OK						
Material	A 234 - WPB			LT Loss MPY						0.043							
153-10		Piping	Baseline	0.403	0.412	0.412	0.409	0.418	0.423	2006	0.413	0.403	0.4380	0.0548	0.2540	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.403	0.412	0.412	0.409	0.418	0.423	2006	0.413	0.403	Comments-->				
OD	3.5		Current	0.403	0.412	0.410	0.409	0.418	0.423	2011	0.413	0.403					
Spec.	B31.3			ST Loss MPY						0.000	OK						
Material	A 234 - WPB			LT Loss MPY						0.000							
153-15		Piping	Baseline	0.462	0.459	0.456	0.452	0.449	0.439	2006	0.453	0.439	0.4380	0.0548	0.2540	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.462	0.459	0.456	0.452	0.449	0.439	2006	0.453	0.439	Comments-->				
OD	3.5		Current	0.443	0.442	0.456	0.452	0.449	0.439	2011	0.447	0.439					
Spec.	B31.3			ST Loss MPY						0.000	OK						
Material	A 234 - WPB			LT Loss MPY						0.000							
153-20		Piping	Baseline	0.428	0.428	0.436	0.435	0.435	0.430	2006	0.432	0.428	0.4380	0.0548	0.2540	2012	2031
Shape	Cylindrical	Shell Side	Previous	0.428	0.428	0.436	0.435	0.435	0.430	2006	0.432	0.428	Comments-->				
OD	3.5		Current	0.428	0.428	0.433	0.435	0.435	0.427	2011	0.431	0.427					
Spec.	B31.3			ST Loss MPY						0.000	OK						
Material	A 106 - B			LT Loss MPY						0.000							



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 04-26-074-11W6 Dwg: 153 Vessel Number: A0420758 Manufacturer: OPSCO Survey Date: 2/01/11
District Unit: WEST COUNTY Vessel Name: LINE HEATER - PIPING Serial Number: HC-2716.AZ.B2 Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1997 Shell MAWP PSI: 3130 MAWT F: 250 Process: SOUR
Skid: SKD0241 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								
153-25	Piping	Baseline		0.373	0.366	0.358	0.360	0.353	0.357	2006	0.361	0.353	0.3430	0.0429	0.0847	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.373	0.366	0.358	0.360	0.353	0.357	2006	0.361	0.353	Comments-->				
OD	2.375		Current	0.373	0.366	0.358	0.360	0.353	0.357	2011	0.361	0.353					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
153-30	Piping	Baseline		0.281	0.282	0.284	0.284	0.285	0.288	2006	0.284	0.281	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.281	0.282	0.284	0.284	0.285	0.288	2006	0.284	0.281	Comments-->				
OD	3.5		Current	0.281	0.282	0.284	0.284	0.285	0.288	2011	0.284	0.281					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
153-35	Piping	Baseline		0.306	0.302	0.304	0.311	0.313	0.314	2006	0.308	0.302	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.306	0.302	0.304	0.311	0.313	0.314	2006	0.308	0.302	Comments-->				
OD	3.5		Current	0.306	0.302	0.304	0.311	0.312	0.312	2011	0.308	0.302					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
153-40	Piping	Baseline		0.295	0.301	0.296	0.297	0.294	0.297	2006	0.297	0.294	0.3000	0.0375	0.1249	2012	2031
Shape	Cylindrical	Tube Side	Previous	0.295	0.301	0.296	0.297	0.294	0.297	2006	0.297	0.294	Comments-->				
OD	3.5		Current	0.295	0.301	0.296	0.297	0.294	0.297	2011	0.297	0.294					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 106 - B			LT Loss MPY							0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 04-26-074-11W6 Dwg: 153 Vessel Number: A0420758 Manufacturer: OPSCO Survey Date: 2/01/11
District Unit: WEST COUNTY Vessel Name: LINE HEATER - PIPING Serial Number: HC-2716.AZ.B2 Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1997 Shell MAWP PSI: 3130 MAWT F: 250 Process: SOUR
Skid: SKD0241 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								
153-45	Piping	Baseline	0.301	0.305	0.314	0.313	0.313	0.313	2006	0.310	0.301	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.301	0.305	0.314	0.313	0.313	2006	0.310	0.301	Comments-->				
OD	3.5		Current	0.301	0.305	0.314	0.313	0.309	2011	0.309	0.301					
Spec.	B31.3								ST Loss MPY	0.000		OK				
Material	A 234 - WPB								LT Loss MPY	0.000						
153-50	Piping	Baseline	0.308	0.313	0.309	0.301	0.297	0.305	2006	0.306	0.297	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.308	0.313	0.309	0.301	0.297	2006	0.306	0.297	Comments-->				
OD	3.5		Current	0.308	0.313	0.309	0.301	0.297	2011	0.306	0.297					
Spec.	B31.3								ST Loss MPY	0.000		OK				
Material	A 234 - WPB								LT Loss MPY	0.000						