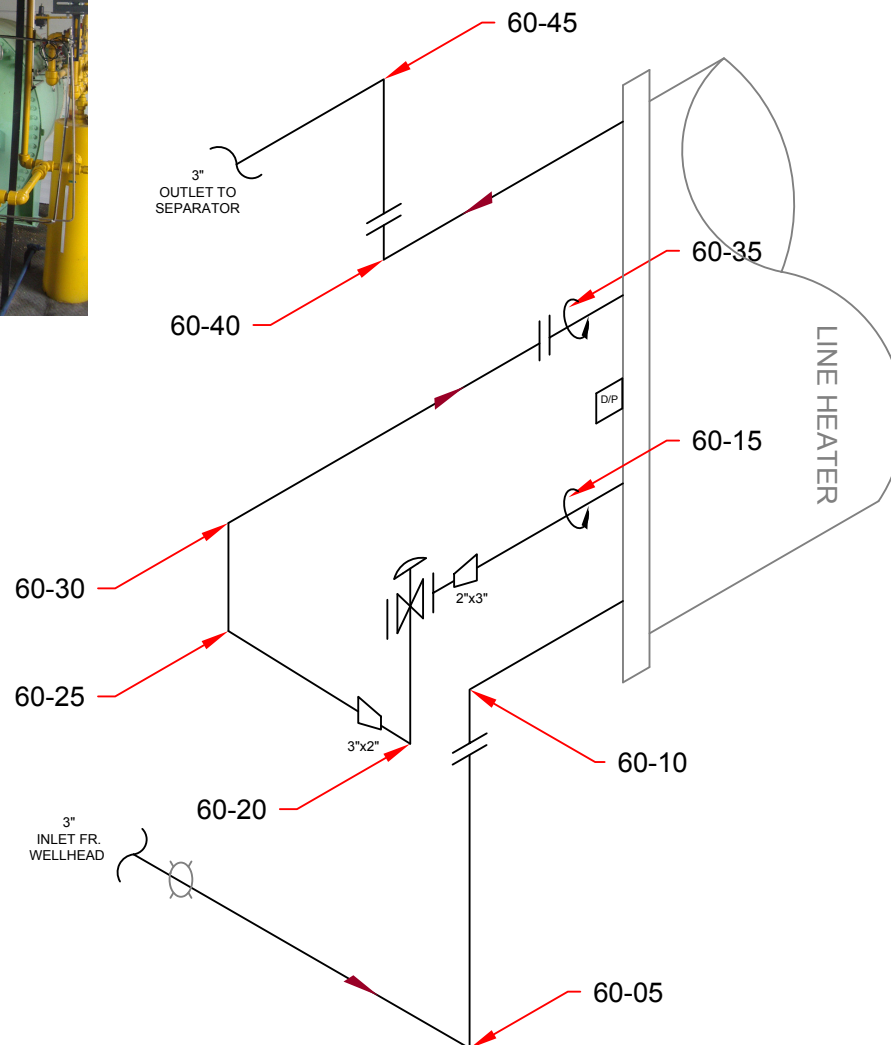


A 0438663



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

STEVE GILLINGHAM
SNT LEVEL II
CGSB 48.9712
LEVEL II # 11441

DATE: 01/28/11

DWG # **60A**

CLIENT: **CNRL**

LSD: 06-32-073-09-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 0209
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PROCESS :	SOUR
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CODE : ASME B31.3

SPECIFICATION :	AS PER ASME SE 797
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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]

PROJECT:
C70099



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 06-32-073-09W6 Dwg: 60 Vessel Number: A0438663 Manufacturer: OPSCO Survey Date: 1/29/11
District Unit: WEST COUNTY Vessel Name: LINE HEATER - PIPING Serial Number: HC-2801A2/B2 Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1997 Shell MAWP PSI: 3130 MAWT F: 250 Process: SOUR
Skid: SKD0209 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								
60-05	Piping	Baseline		0.503	0.494	0.489	0.490	0.494	0.499	2006	0.495	0.489	0.4380	0.0548	0.2540	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.503	0.494	0.489	0.490	0.494	0.499	2006	0.495	0.489	Comments-->				
OD	3.5		Current	0.503	0.494	0.489	0.490	0.494	0.496	2011	0.494	0.489					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
60-10	Piping	Baseline		0.550	0.526	0.521	0.514	0.515	0.525	2006	0.525	0.514	0.4380	0.0548	0.2540	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.550	0.526	0.521	0.514	0.515	0.525	2006	0.525	0.514	Comments-->				
OD	3.5		Current	0.530	0.526	0.518	0.514	0.515	0.524	2011	0.521	0.514					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
60-15	Piping	Baseline		0.434	0.424	0.424	0.423	0.419	0.411	2006	0.423	0.411	0.4380	0.0548	0.2540	2012	2031
Shape	Cylindrical	Shell Side	Previous	0.434	0.424	0.424	0.423	0.419	0.411	2006	0.423	0.411	Comments-->				
OD	3.5		Current	0.434	0.424	0.424	0.423	0.419	0.411	2011	0.423	0.411					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 333 - 6			LT Loss MPY							0.000						
60-20	Piping	Baseline		0.351	0.336	0.325	0.329	0.334	0.338	2006	0.336	0.325	0.3430	0.0429	0.0847	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.351	0.336	0.325	0.329	0.334	0.338	2006	0.336	0.325	Comments-->				
OD	2.375		Current	0.351	0.336	0.325	0.329	0.334	0.338	2011	0.336	0.325					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 06-32-073-09W6 Dwg: 60 Vessel Number: A0438663 Manufacturer: OPSCO Survey Date: 1/29/11
District Unit: WEST COUNTY Vessel Name: LINE HEATER - PIPING Serial Number: HC-2801A2/B2 Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1997 Shell MAWP PSI: 3130 MAWT F: 250 Process: SOUR
Skid: SKD0209 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								
60-25	Piping	Baseline		0.280	0.276	0.281	0.284	0.288	0.290	2006	0.283	0.276	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.280	0.276	0.281	0.284	0.288	0.290	2006	0.283	0.276	Comments-->				
OD	3.5		Current	0.280	0.276	0.281	0.284	0.288	0.290	2011	0.283	0.276					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
60-30	Piping	Baseline		0.295	0.290	0.291	0.298	0.304	0.310	2006	0.298	0.290	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.295	0.290	0.291	0.298	0.304	0.310	2006	0.298	0.290	Comments-->				
OD	3.5		Current	0.295	0.290	0.291	0.298	0.296	0.306	2011	0.296	0.290					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
60-35	Piping	Baseline		0.304	0.298	0.298	0.297	0.297	0.297	2006	0.299	0.297	0.3000	0.0375	0.1249	2012	2031
Shape	Cylindrical	Tube Side	Previous	0.304	0.298	0.298	0.297	0.297	0.297	2006	0.299	0.297	Comments-->				
OD	3.5		Current	0.304	0.298	0.298	0.297	0.297	0.297	2011	0.299	0.297					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 333 - 6			LT Loss MPY							0.000						
60-40	Piping	Baseline		0.297	0.288	0.287	0.291	0.298	0.297	2006	0.293	0.287	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.297	0.288	0.287	0.291	0.298	0.297	2006	0.293	0.287	Comments-->				
OD	3.5		Current	0.297	0.288	0.287	0.291	0.294	0.294	2011	0.292	0.287					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 06-32-073-09W6 Dwg: 60 Vessel Number: A0438663 Manufacturer: OPSCO Survey Date: 1/29/11
District Unit: WEST COUNTY Vessel Name: LINE HEATER - PIPING Serial Number: HC-2801A2/B2 Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1997 Shell MAWP PSI: 3130 MAWT F: 250 Process: SOUR
Skid: SKD0209 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								
60-45	Piping	Baseline	0.286	0.284	0.284	0.284	0.288	0.291	2006	0.286	0.284	0.3000	0.0375	0.1249	2012	2031
Shape	90° Elbow	Tube Side	Previous	0.286	0.284	0.284	0.284	0.288	2006	0.286	0.284	Comments-->				
OD	3.5	Current	0.286	0.284	0.284	0.284	0.288	0.291	2011	0.286	0.284					
Spec.	B31.3								ST Loss MPY	0.000		OK				
Material	A 234 - WPB								LT Loss MPY	0.000						