



# Ultrasonic Corrosion Survey

Survey Name: CNRL

**LSD:** 06-02-074-10W6  
**Dwg#:** 39  
**Survey Name:** CNRL  
**District Unit:** GPOU  
**Location:** MONTNEY  
**Skid:** SKD0204

**Vessel Number:** A0418372  
**Vessel Name:** INLET SEPARATOR  
**Year Built:** 1998  
**Tag Number:** -  
**CRN:** N9626.2

**Manufacturer:** CHADCO  
**Serial Number:** V9854  
**Shell MAWP PSI:** 1340 MAWT\_F: 100  
**Tube MAWP PSI:** 0 MAWT\_F: 0  
**Vessel CA:** 0.063

**Survey Date:** 10/16/2006  
**Inspector:** AJMAL KHAN  
**Process:** SOUR  
**Project Number:** C10093

Band	Description		Readings						Year	Avg	Min	Recommended Next Inspection	Nominal	CA	T-Min	Recommended Retirement Date
			1	2	3	4	5	6								
39-05	Head	Baseline	1.990	2.000	2.006	2.010	2.015	2.087	2006	2.018	1.990	2007	1.9450	0.063	1.4877	2026
Shape	Ellipsoidal Shell	Previous										Comments:				
OD	48	Current	1.990	2.000	2.006	2.010	2.015	2.087	2006	2.018	1.990					
Spec	VIII Div 1	Short Term Loss MPY:														
Material	SA 516 - 70	Long Term Loss MPY:						0.000	OK							
39-10	Lower Shell	Baseline	2.002	2.008	1.984	2.002	2.002	1.999	2006	2.000	1.984	2007	2.0000	0.063	1.5357	2026
Shape	Cylindrical Shell	Previous										Comments:				
OD	48	Current	2.002	2.008	1.984	2.002	2.002	1.999	2006	2.000	1.984					
Spec	VIII Div 1	Short Term Loss MPY:														
Material	SA 516 - 70	Long Term Loss MPY:						0.000	OK							
39-15	Lower Shell	Baseline	2.037	2.033	2.030	2.030	2.037	2.038	2006	2.034	2.030	2007	2.0000	0.063	1.5357	2026
Shape	Cylindrical Shell	Previous										Comments:				
OD	48	Current	2.037	2.033	2.030	2.030	2.037	2.038	2006	2.034	2.030					
Spec	VIII Div 1	Short Term Loss MPY:														
Material	SA 516 - 70	Long Term Loss MPY:						0.000	OK							
39-20	Lower Shell	Baseline	2.040	2.038	2.040	2.043	2.036	2.034	2006	2.039	2.034	2007	2.0000	0.063	1.5357	2026
Shape	Cylindrical Shell	Previous										Comments:				
OD	48	Current	2.040	2.038	2.040	2.043	2.036	2.034	2006	2.039	2.034					
Spec	VIII Div 1	Short Term Loss MPY:														
Material	SA 516 - 70	Long Term Loss MPY:						0.000	OK							
39-25	Lower Shell	Baseline	2.006	2.007	2.002	2.006	2.012	2.007	2006	2.007	2.002	2007	2.0000	0.063	1.5357	2026
Shape	Cylindrical Shell	Previous										Comments:				
OD	48	Current	2.006	2.007	2.002	2.006	2.012	2.007	2006	2.007	2.002					
Spec	VIII Div 1	Short Term Loss MPY:														
Material	SA 516 - 70	Long Term Loss MPY:						0.000	OK							
39-30	Mid Shell	Baseline	2.030	2.029	2.033	2.033	2.030	2.029	2006	2.031	2.029	2007	2.0000	0.063	1.5357	2026
Shape	Cylindrical Shell	Previous										Comments:				
OD	48	Current	2.030	2.029	2.033	2.033	2.030	2.029	2006	2.031	2.029					

<b>Spec</b>	VIII Div 1		<b>Short Term Loss MPY:</b>														
<b>Material</b>	SA 516 - 70		<b>Long Term Loss MPY:</b>										0.000	<b>OK</b>			
<b>39-35</b>	Upper	Shell	<b>Baseline</b>	2.028	2.027	2.037	2.035	2.036	2.037	2006	2.033	2.027	2007	2.0000	0.063	1.5357	2026
<b>Shape</b>	Cylindrical Shell		<b>Previous</b>										<b>Comments:</b>				
<b>OD</b>	48		<b>Current</b>	2.028	2.027	2.037	2.035	2.036	2.037	2006	2.033	2.027					
<b>Spec</b>	VIII Div 1		<b>Short Term Loss MPY:</b>														
<b>Material</b>	SA 516 - 70		<b>Long Term Loss MPY:</b>										0.000	<b>OK</b>			
<b>39-40</b>	Upper	Shell	<b>Baseline</b>	2.044	2.043	2.039	2.033	2.042	2.013	2006	2.036	2.013	2007	2.0000	0.063	1.5357	2026
<b>Shape</b>	Cylindrical Shell		<b>Previous</b>										<b>Comments:</b>				
<b>OD</b>	48		<b>Current</b>	2.044	2.043	2.039	2.033	2.042	2.013	2006	2.036	2.013					
<b>Spec</b>	VIII Div 1		<b>Short Term Loss MPY:</b>														
<b>Material</b>	SA 516 - 70		<b>Long Term Loss MPY:</b>										0.000	<b>OK</b>			
<b>39-45</b>		Head	<b>Baseline</b>	1.992	1.988	2.000	2.004	2.008	2.055	2006	2.008	1.988	2007	1.9450	0.063	1.4877	2026
<b>Shape</b>	Ellipsoidal Shell		<b>Previous</b>										<b>Comments:</b>				
<b>OD</b>	48		<b>Current</b>	1.992	1.988	2.000	2.004	2.008	2.055	2006	2.008	1.988					
<b>Spec</b>	VIII Div 1		<b>Short Term Loss MPY:</b>														
<b>Material</b>	SA 516 - 70		<b>Long Term Loss MPY:</b>										0.000	<b>OK</b>			
<b>39-50</b>		Piping	<b>Baseline</b>	0.440	0.441	0.441	0.439	0.438	0.436	2006	0.439	0.436	2007	0.4320	0.054	0.2147	2026
<b>Shape</b>	90° Elbow Shell		<b>Previous</b>										<b>Comments:</b>				
<b>OD</b>	6.625		<b>Current</b>	0.440	0.441	0.441	0.439	0.438	0.436	2006	0.439	0.436					
<b>Spec</b>	B31.3		<b>Short Term Loss MPY:</b>														
<b>Material</b>	A 234 - WPB		<b>Long Term Loss MPY:</b>										0.000	<b>OK</b>			
<b>39-55</b>		Piping	<b>Baseline</b>	0.448	0.453	0.447	0.453	0.450	0.450	2006	0.450	0.447	2007	0.4320	0.054	0.2147	2026
<b>Shape</b>	90° Elbow Shell		<b>Previous</b>										<b>Comments:</b>				
<b>OD</b>	6.625		<b>Current</b>	0.448	0.453	0.447	0.453	0.450	0.450	2006	0.450	0.447					
<b>Spec</b>	B31.3		<b>Short Term Loss MPY:</b>														
<b>Material</b>	A 234 - WPB		<b>Long Term Loss MPY:</b>										0.000	<b>OK</b>			
<b>39-60</b>		Piping	<b>Baseline</b>	0.404	0.395	0.390	0.383	0.387	0.399	2006	0.393	0.383	2007	0.4320	0.054	0.2147	2026
<b>Shape</b>	90° Elbow Shell		<b>Previous</b>										<b>Comments:</b>				
<b>OD</b>	6.625		<b>Current</b>	0.404	0.395	0.390	0.383	0.387	0.399	2006	0.393	0.383					
<b>Spec</b>	B31.3		<b>Short Term Loss MPY:</b>														
<b>Material</b>	A 234 - WPB		<b>Long Term Loss MPY:</b>										0.000	<b>OK</b>			
<b>39-65</b>		Piping	<b>Baseline</b>	0.207	0.209	0.209	0.209	0.209	0.208	2006	0.209	0.207	2007	0.2180	0.0272	0.0770	2026
<b>Shape</b>	90° Elbow Shell		<b>Previous</b>										<b>Comments:</b>				
<b>OD</b>	2.375		<b>Current</b>	0.207	0.209	0.209	0.209	0.209	0.208	2006	0.209	0.207					
<b>Spec</b>	B31.3		<b>Short Term Loss MPY:</b>														
<b>Material</b>	A 234 - WPB		<b>Long Term Loss MPY:</b>										0.000	<b>OK</b>			
<b>39-70</b>		Piping	<b>Baseline</b>	0.206	0.207	0.202	0.206	0.201	0.210	2006	0.205	0.201	2007	0.2180	0.0272	0.0770	2026
<b>Shape</b>	90° Elbow Shell		<b>Previous</b>										<b>Comments:</b>				
<b>OD</b>	2.375		<b>Current</b>	0.206	0.207	0.202	0.206	0.201	0.210	2006	0.205	0.201					
<b>Spec</b>	B31.3		<b>Short Term Loss MPY:</b>														
<b>Material</b>	A 234 - WPB		<b>Long Term Loss MPY:</b>										0.000	<b>OK</b>			

39-75		Piping	Baseline	0.200	0.204	0.206	0.203	0.198	0.196	2006	0.201	0.196	2007	0.2180	0.0272	0.0770	2026	
Shape	90° Elbow Shell	Previous											Comments:					
OD	2.375	Current	0.200	0.204	0.206	0.203	0.198	0.196	2006	0.201	0.196							
Spec	B31.3	Short Term Loss MPY:																
Material	A 234 - WPB	Long Term Loss MPY:											0.000	OK				
39-80		Piping	Baseline	0.193	0.197	0.194	0.192	0.195	0.203	2006	0.196	0.192	2007	0.2180	0.0272	0.0770	2026	
Shape	90° Elbow Shell	Previous											Comments:					
OD	2.375	Current	0.193	0.197	0.194	0.192	0.195	0.203	2006	0.196	0.192							
Spec	B31.3	Short Term Loss MPY:																
Material	A 234 - WPB	Long Term Loss MPY:											0.000	OK				
39-83		Piping	Baseline	0.203	0.203	0.207	0.212	0.209	0.209	2006	0.207	0.203	2007	0.2180	0.0272	0.0770	2026	
Shape	90° Elbow Shell	Previous											Comments:					
OD	2.375	Current	0.203	0.203	0.207	0.212	0.209	0.209	2006	0.207	0.203							
Spec	B31.3	Short Term Loss MPY:																
Material	A 234 - WPB	Long Term Loss MPY:											0.000	OK				
39-85		Piping	Baseline	0.192	0.186	0.184	0.182	0.182	0.183	2006	0.185	0.182	2007	0.2180	0.0272	0.0770	2026	
Shape	90° Elbow Shell	Previous											Comments:					
OD	2.375	Current	0.192	0.186	0.184	0.182	0.182	0.183	2006	0.185	0.182							
Spec	B31.3	Short Term Loss MPY:																
Material	A 234 - WPB	Long Term Loss MPY:											0.000	Caution				
39-87		Piping	Baseline	0.195	0.185	0.185	0.186	0.186	0.186	2006	0.187	0.185	2007	0.2180	0.0272	0.0770	2026	
Shape	90° Elbow Shell	Previous											Comments:					
OD	2.375	Current	0.195	0.185	0.185	0.186	0.186	0.186	2006	0.187	0.185							
Spec	B31.3	Short Term Loss MPY:																
Material	A 234 - WPB	Long Term Loss MPY:											0.000	Caution				
39-89		Piping	Baseline	0.202	0.199	0.198	0.198	0.195	0.199	2006	0.199	0.195	2007	0.2180	0.0272	0.0770	2026	
Shape	90° Elbow Shell	Previous											Comments:					
OD	2.375	Current	0.202	0.199	0.198	0.198	0.195	0.199	2006	0.199	0.195							
Spec	B31.3	Short Term Loss MPY:																
Material	A 234 - WPB	Long Term Loss MPY:											0.000	OK				
39-90		Piping	Baseline	0.202	0.189	0.187	0.188	0.192	0.192	2006	0.192	0.187	2007	0.2180	0.0272	0.0770	2026	
Shape	90° Elbow Shell	Previous											Comments:					
OD	2.375	Current	0.202	0.189	0.187	0.188	0.192	0.192	2006	0.192	0.187							
Spec	B31.3	Short Term Loss MPY:																
Material	A 234 - WPB	Long Term Loss MPY:											0.000	Caution				
39-93		Piping	Baseline	0.460	0.494	0.498	0.490	0.498	0.493	2006	0.489	0.460	2007	0.5000	0.0625	0.2796	2026	
Shape	90° Elbow Shell	Previous											Comments:					
OD	8.625	Current	0.460	0.494	0.498	0.490	0.498	0.493	2006	0.489	0.460							
Spec	B31.3	Short Term Loss MPY:																
Material	A 234 - WPB	Long Term Loss MPY:											0.000	OK				
39-95		Piping	Baseline	0.479	0.476	0.464	0.471	0.452	0.442	2006	0.464	0.442	2007	0.5000	0.0625	0.2796	2026	
Shape	90° Elbow Shell	Previous											Comments:					

<b>OD</b>	8.625	<b>Current</b>	0.479	0.476	0.464	0.471	0.452	0.442	2006	0.464	0.442	
<b>Spec</b>	B31.3	<b>Short Term Loss MPY:</b>										
<b>Material</b>	A 234 - WPB	<b>Long Term Loss MPY:</b>									0.000	<b>OK</b>