

Facility: **GALLOWAY GAS PLANT** Date: **December 12, 2006** Report #: **IR061212SGCc**

INSPECTION DEFICIENCIES ISSUED

EXTERNAL VISUAL INSPECTION

The nameplate is in tact and legible.
The pressure retaining welds are in tact with no evidence of deterioration or visible cracking.
The cooler support is in good condition with no evidence of mechanical deterioration.
The cooler is bolted to the skid frame.
The fan was in operation at time of inspection; no visible defects were noted.
The plugs are tight and free of leaks.
The cooler is protected by a PSV that is in fair condition.
The cooler is painted with some peeling and flaking.
The piping and piping attachments are in fair condition with no detectable leaks.
There is no evidence of fretting on the piping at the wall penetrations.
The piping bolt up grading is B7 and 2H.
The attached piping is painted with no notable defects.

EXTERNAL NDE

UT inspections were performed by Silvertip Inspection Services Ltd.
The nominal thicknesses are not available.
See the attached NDE reports for more detailed information.

INTERNAL VISUAL INSPECTION

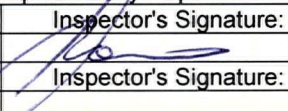
INTERNAL NDE

PRESSURE TESTS

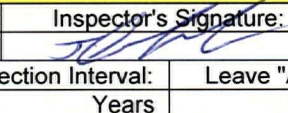
Test Completed: - Test Pressure: - Kpa Test Acceptable: - Test Report #: -

INSPECTOR CERTIFICATION AND ACCEPTANCE

I, the undersigned, certify that the equipment stated above has been inspected in accordance with the assigned task list and that the statements within this report are correct and represent my inspection findings.

External Inspector's Name:	Inspector's Certification:	Inspector's Signature:	Date:
STACEY COWIE	API 510, UT2, MT2, PT2		DECEMBER 12, 2006
Internal Inspector's Name:	Inspector's Certification:	Inspector's Signature:	Date:
-	-	-	-

CHIEF OR LEAD INSPECTOR'S ACCEPTANCE AND SCHEDULE CONFIRMATION

Inspector's Name:	Inspector's Certification:	Inspector's Signature:	Date:		
JEFF CRABBE	PSI 2310		01/12/07		
Vessel Inspection Interval:	Leave "As Is":	Change to:	PSV Inspection Interval:	Leave "As Is":	Change to:
5		5	5		
Years		Years	Years		Years

Office Use Only: Report Entered to SEQA Database by: _____
Static Data Verified by: _____

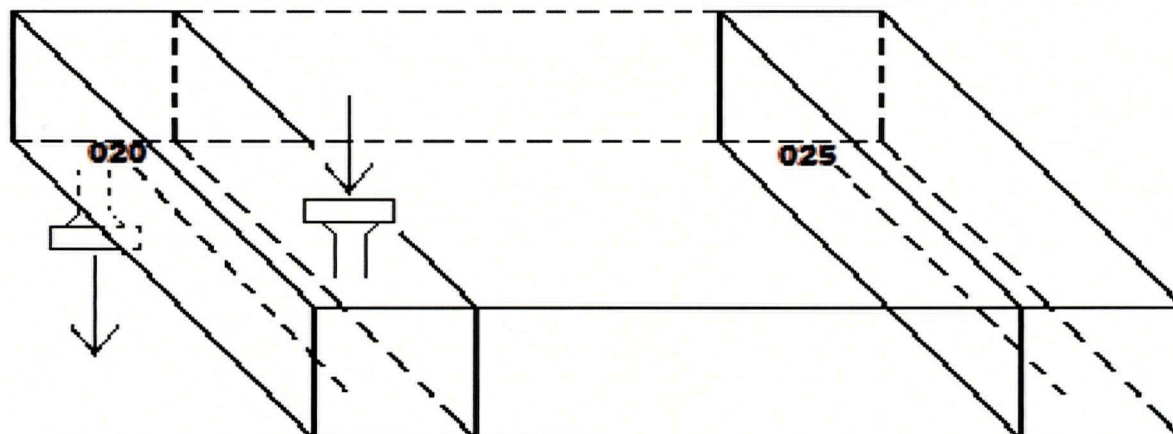
Date: _____
Date: _____

Facility: **GALLOWAY GAS PLANT** Date: **December 12, 2006** Report #: **IR061212SGCc**

NAT'L BD. 2302	
CERTIFIED BY	
AIR COOLED EXCHANGERS, INC.	
BROKEN ARROW, OKLAHOMA 74012 USA	
CRN P-7225.2	MAWP 230 PSI @ 298 °F
	MDMT -20 °F @ 230 PSI
SERIAL NO. Q1614-1	MODEL E36
YEAR BUILT 1-2002	SERVICE E-320

AERIAL COOLER UT REPORT

FACILITY: GALLOWAY GAS PLANT		DATE: DECEMBER 12, 2006		REPORT #: IR061212SGCc	
AREA SUPERVISOR: BRENT JOHNSTON				W.O. / C.C.# 71407	
STATIC DATA					
Alberta Reg. #: 66068277		CRN: P-7225.2		National Board #: 2302	
Equipment Number: 66068277		Notification #: 6047828		Vessel Class:	
Manufacturer: ACE				Serial Number: 01614-1	
Equip. Description: STABILIZER CONDENSATE COOLER				Location (LSD): 12-05-054-20W5	
Equipment Tag #: -		Year Built: 2002		Company I.D.#: BC-052143	
Province Installed: ALBERTA		Registration #: -		Skid / Building #: BC-052136	
MAWP: 230 PSI	Header Box Depth: 7.50 in	Tube Size: O.D. in	Radiography: NO	Code: U	
MAWT: -20 °F	Header Box Width: 7.50 in	Tube Size: I.D. in	Stress Relief: NO	Position: HORIZONTAL	
MDMT: -20 °F	Header Box Height: 43.25 in	Nozzle Rating: 150 #	External Coating: YES	Support: LEGS	
	Overall Length: 69.50 in	Capacity: ft3		Insulated: NO	
		Material		Thickness	
Inlet Nozzle		SA-106B		0.344 in	
Outlet Nozzle		SA-106B		0.344 in	
PROCESS DATA					
Product Description:		NATURAL GAS		Service: SWEET	
Operating Pressure: 53 PSI		Operating Temperature:		158 °F	



2006	NOMINAL	S.O.B.	E.O.B.	LOW POINT	LOCATION OF LOW POINT	BELOW NOMINAL
LOC 020	N/A	0.509	0.506	0.504	30.00 " FROM S.O.B.	
LOC 025	N/A	0.507	0.513	0.507	0.00 " FROM S.O.B.	

NOTES:

ALL VALUES ARE IN IMPERIAL UNITS
S.O.B. = START OF BAND
E.O.B. = END OF BAND
LOW POINT= LOWEST READING IN THE BAND

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CONDENSER INSPECTION REPORT**Inspection Report**

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Notification Number 6047828 Work Order 6049668
 Notification Desc COOLER, STABILIZER CONDENSATE Maintenance Plan QPCONDEN0045
 Tasklist Operation (4Y Inspection Interval) 4Y Code Inspection Condenser - Sweet Se

Equipment Static Data

Equipment Number 66068277 Equipment Description COOLER, STABILIZER CONDENSATE
 Class CONDENSER Tag Number 12-05-054-20W5
 Serial Number 01614-1 Year Built
 Manufacturer ACE
 Location FH-FW-014-00001 Location Description GALLOWAY GAS PLANT 12-05-054-20W5
 Provincial Number PM Activity Code
 Status Codes NOPR ORAS Equipment Status In Service - Fully Utilized

CRN Number P7225.2 Code Stamp U Design Flow / Capacity
 Fluid Service SWEET Internal Coating Exists MDMT - Min. Design Metal Temp
 Nozzle ANSI Rating Orientation Packaged Flag Y
 Shell MAWP Shell Side Fluid Service Stress Relief
 TEMA Nomenclature Tube MDMT -20 DEGF Tube Material
 Tube Side Fluid CONDENSATE Tube Side Fluid Service SWEET Tube design MAWP 230 PSI
 Vessel Diameter Vessel Diameter X-Ray

PRD Static Data

Equip ID	Location	Size		Set Pressure	Capacity	Manufacturer	Serial Number	Model Number	Next Service Date
		Inlet	Outlet						

Process Data

Product Description NATURAL GAS Fluid Service ☒ Sweet ☐ Sour PPM
 Operating Pressure KPA Operating Temperature °C

Pressure Test

Test Completed ☐ Yes ☐ No Test Acceptable ☐ Yes ☐ No Test Report #

PSV Data

Tag/Serial No.	Location	Size		Set Pressure	Capacity	Model / Type	Service Date
		Inlet	Outlet				
SE-14780-7	PIPING	1.5"	3"	230PSI	3675SCFM	FARRIS	06/2006

Inspection History

Inspected By CRABBE JEFF Inspection Date 2006.06.06

Inspection Summary

There were no integrity concerns found during this inspection and the cooler is considered acceptable for continued service.

Recommendations

None.

Repairs Completed**Equipment Status**

Integrity Status ☒ Suitable for Continued Service ☐ Immediate Repairs Required ☐ Replace
☐ Future Repairs Required
 Inventory Status ☒ In Service - Fully Utilized ☐ Idle ☐ Surplus ☐ Scrap

QA Activities

☒ Leave As-Is ☐ Weld Overlayed ☐ Part / Component Replaced
☐ Equipment Replaced ☐ Grind Dressed ☐ Patch Installed
☐ MAWP Derated ☐ Coating - Cleaned & Patched ☐ Coating - Removed & Replaced
☐ Defect Removed & Rewelded ☐ Part Cleaned ☐ Lapped & Dressed
☐ Epoxy Patched

Noncompliances or Inspection Deficiencies Issued**External Visual Inspection**

The coolers header boxes are painted with no notable defects. The tube plugs are well sealed.

The nameplate, piping and piping attachments are in satisfactory condition.

The tubes and tube fins were not inspected as the fan was running and the louvers were closed.

The cooler is protected by a PSV that is in good condition

External NDE Examination

UT was performed by Silvertip Inspections. There were no significant findings the results are acceptable.

Internal Visual Inspection**Internal NDE Examination****Data Integrity****Inspection Interval**


Should have a 5 year interval.

Damages**Inspector Certification**

I, the undersigned certify that the above equipment has been inspected in accordance with the assigned task list and that statements within this report are correct and represent inspection findings.

Inspector Name CRABBE JEFF Inspector Signature 
 Inspection Company HUSKY ENERGY Date 01/18/07

Lead Inspector's Acceptance & Schedule Confirmation

Lead Inspector Jeff Crabbe Signature  Date 01/18/07
 Vessel Inspection Interval 5 yr. ☐ Leave as-is / Change to: _____
 PSV Inspection Interval ☐ Leave as-is / Change to: _____