

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Scheduled Inspection

B723433780

FACILITY: GREAT LAKES GAS TRANSMISSION		SRN / ID: B7234
LOCATION: WORTH RD, MORAN TWP		DISTRICT: Upper Peninsula
CITY: MORAN TWP		COUNTY: MACKINAC
CONTACT: ANTHONY M KORNAGA, DIRECTOR FIELD OPERATIONS		ACTIVITY DATE: 03/08/2016
STAFF: Joe Scanlan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Scheduled inspection to determine compliance with PTI# 241-80		
RESOLVED COMPLAINTS:		

FACILITY: Great Lakes Gas Transmission—Brevort Compressor Station 10a

INSPECTION DATE: 3/8/2016

MDEQ-AQD STAFF: Joseph Scanlan, EQA

FACILITY REPRESENTATIVES: Jonathan Paul Wellman, Senior Technician; Brad Stermer, Environmental Specialist

LOCATION:

Great Lakes Gas Transmission Brevort Compressor Station 10a is located on Worth Road in Moran Township, Mackinac County.

SOURCE DESCRIPTION

To ensure essential natural gas transmission throughout the Upper Midwest Great Lakes Gas Transmission (TransCanada) operates compressor stations to maintain ideal operating pressure within the gas transmission main. The Brevort compressor station is the smallest of five stationary compressor stations in the Upper Peninsula and is typically unmanned and remotely operated, either from the Naubinway Compressor Station or from TransCanada's main GLGT operations facility in Houston, Texas. GLGT has regional offices in Duluth, Minnesota, and Troy, Michigan.

Pressure in the mainline is maintained via two 1,100 horsepower Solar turbines. The facility also has a natural gas-fired generator used to produce electrical power to the station in the event of a power outage.

REGULATORY APPLICABILITY:

The stationary source is located in Mackinac County, which is currently designated by the U.S. Environmental Protection Agency (USEPA) as attainment/unclassified for all criteria pollutants.

Brevort Compressor Station operates two turbine compressors, UNIT 10A01 and UNIT 10A02, which do not have potential emissions of NOx and CO that exceed 100 tons per year and therefore the facility is not subject to 40 CFR, Part 70, and is a minor source.

CS-10A BREVORT APU is subject to the stationary RICE emergency generator MACT standards, 40 CFR part 63 subpart ZZZZ.

INSPECTION

On 3/08/2016 I conducted a scheduled visit to the Great Lakes Gas Transmission in central Mackinac County. PPE worn during this inspection included steel-toed boots, safety vest, safety glasses and hardhat.

Typically this station is unmanned and inaccessible; however on the day of inspection GLGT staff were at the facility for regular maintenance and electrical work. I met with Senior Technician Mr. Jonathan Paul Wellman upon entering the turbine control room. At the time of inspection Unit 10A-A-01 was operating; Unit 10A-A-02 was idle. Mr. Wellman explained that flow in the main gas line alternates direction based on seasonality. There had been no changes in operation and or equipment

modified/added/deleted since the last inspection.

While Mr. Wellman has access to pertinent records referenced in PTI 241-80, I typically get this information from Mr. Brad Stermer who is based out of the GLGT regional office in Southeastern Michigan. Mr. Stermer provided me with the information within 24 hours of my email request. The Caterpillar natural gas operated emergency generator (CS-10A BREVORT APU) maintenance records are consistent with the requirements of the RICE MACT and are on file in the district office. Total operating hours for UNIT 10A-A-01 in 2015 were 2,317; for UNIT 10A-A-02 1,505 hours (total of 3,822 hours for entire facility). Estimated annual fuel usage for 2015 for UNIT 10A-A-01 was 33,190 MMSCF; for UNIT 10A-A-02 23,906 MMSCF (total of 57,096 MMSCF for entire facility). All data is on file in the district office.

PTI DETAILS

Description of Emission Unit	PTI#	Installation/Modification Date	Compliance Status
Two (2) Solar Turbines Model T-SA-2 Natural Gas-fired IC Turbine	241-80	January 1981	C

SUMMARY

No violations of PTI #'s 241-80 were observed at the time of this inspection and the facility appears to be in compliance with the permit.



Image 1(GLGT10A1) : View of GLGT facility 10A unmanned compressor station from driveway gate.



Image 2(GLGT10A2) : Emergency generator APU operates on natural gas

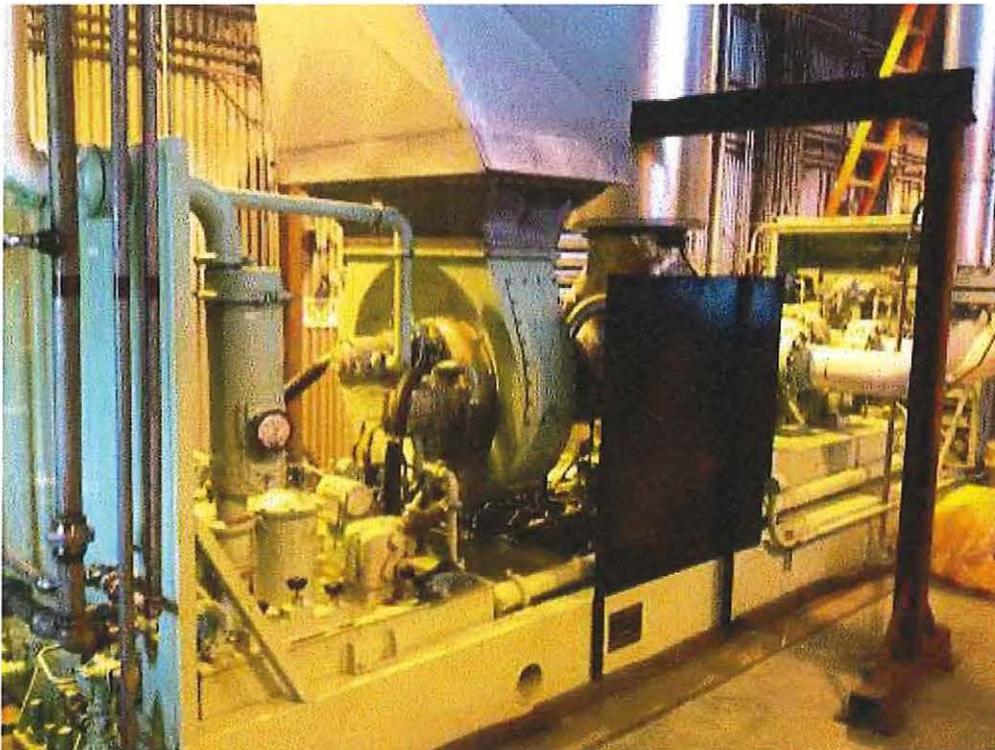


Image 3(GLGT10A3) : Unit 10A01 natural gas turbine pressure generator

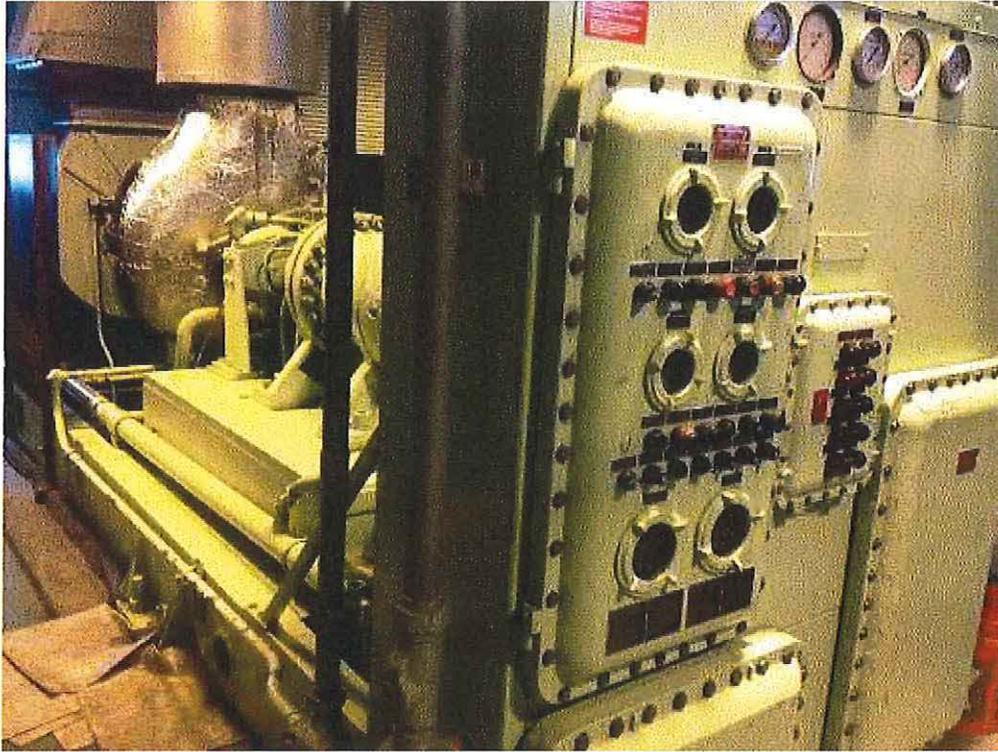


Image 4(GLGT10A4) : Unit 10A02 natural gas turbine pressure generator

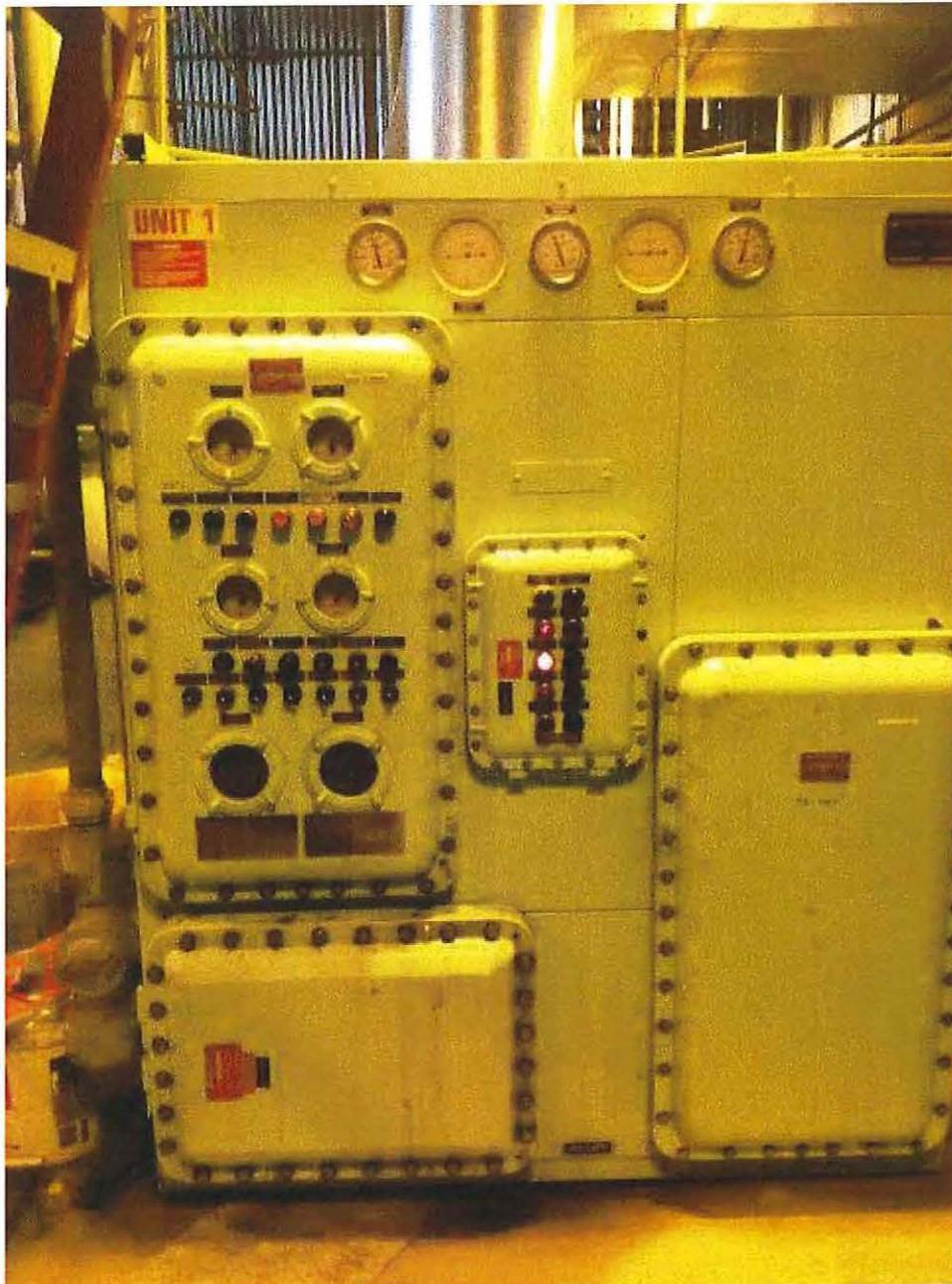


Image 5(GLGT10A5) : Turbine control panel



Image 6(GLGT10A6) : Exterior of structure housing turbines--black stacks

NAME Jeff Seiden

DATE 6/13/2016

SUPERVISOR Don W. Malin