

TITLE V RENEWABLE OPERATING PERMIT APPLICATION

Appendix D Plans Referenced within the ROP

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Preventive Maintenance / Malfunction Abatement Plan
40 CFR Part 63 Subpart HHH Site Monitoring Plan



ANR Storage Company – ANR Rapid River Preventive Maintenance / Malfunction Abatement Plan

1.0 Introduction

The Rapid River Station is located at 2170 Rabourn Road NE, Kalkaska, Michigan 49646. The station maintains pressure (recompression) in pipelines supporting natural gas to and from storage facilities located in Michigan, to industrial customers or to local distribution companies. This plan provides preventative maintenance and malfunction abatement measures for two (2) compressor engines at the ANR Rapid River Station.

1.1 Contact Person

Any questions in regard to this PM/MAP should be directed to Chris Waltman

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Supervisory Personnel

Station Personnel are responsible for inspection and maintenance.

2.0 Compressor Engines

Rapid River has two Ingersoll Rand Model 410-KVR-TE four-cycle, lean burn, spark ignition, natural gas-fired reciprocating internal combustion engines rated at 3,750 horsepower each.

Engine ID	Manufacturer	Model	Engine Type	Add-On Control	Air to Fuel Ratio Controller
EURRCOMP-A	Ingersoll-Rand	410-KVR-TE	4 cycle Lean Burn	None	Bristol 3335 - Engines HMI Panel
EURRCOMP-B	Ingersoll-Rand	410-KVR-TE	4 cycle Lean Burn	None	Bristol 3335 - Engines HMI Panel

2.1 Engine Maintenance Log

PREVENTATIVE MAINTENANCE TASK	FREQUENCY	PM Task Code
Engine Balancing	Not to exceed 500 Engine Hours	A
Replace Spark Plugs	Not to exceed 2500 Engine Hours	B
Replace Oil Filters	Annually or as required	C
Replace Air Intake Filters	As required	D
Control Panel Calibrations	Annually	E
Engine Fuel Meter Calibration	Annually	F
Mechanical Inspection	Not to exceed 16,500 Engine Hours	G
Adjust AFRC Timing	As required	n/a
Calibrate Fuel Pressure Transmitters	Annually	n/a
Calibrate Air Manifold Pressure Transmitter	Annually	n/a

5.0 Major Parts Inventory and Replacement

Major Parts are ordered as needed through the vendors and not kept on site.

6.0 Responsible Person for Inspection, Maintenance and Repair of Add-On Equipment

N/A – no add-on equipment

7.0 Retention of Records

All Records shall be retained for 5 years.

8.0 Updates of PM/MAP

The PM/MAP will be reviewed annually, and any updates shall be submitted to the AQD District Supervisor for approval.