

- b. The affected cells are subject to 35 IAC 214.301, which provides that no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2,000 PPM [35 IAC 214.301].
- c. The affected test cells are subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 8 lbs/hour of organic material (OM) into the atmosphere from any emission unit, except as provided in 35 IAC 215.302, 215.303 or 215.304 and the following exemption: If no odor nuisance exists the limitation shall only apply to photochemically reactive material.

1.3 Non-Applicability Provisions

- a. This permit is issued based on this project not constituting a major source or major modification under Prevention of Significant Deterioration (PSD) 40 CFR 52.21. This is because the potential emissions of the source, including the emissions from the affected cells, are less than the major source levels. (See Condition 1.5(a).)

Note: For this source, the major source threshold under PSD for each regulated NSR pollutant other than greenhouse gases (GHG) is 250 tons per year. For GHG, the major source threshold is 100,000 tons per year, as carbon dioxide equivalents (CO₂e).

- b.
 - i. The affected cells are not subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) for Engine Test Cells/Stands, 40 CFR 63 Subpart PPPPP. This is because the source is not a major source of HAP emissions.
 - ii. The affected test cells are not subject to the NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63 Subpart ZZZZ. This is because the units tested at a test cell/stand are exempt from the requirements of RICE NESHAP pursuant to 40 CFR 63.6585.
- c. The affected test cells are not subject to the federal New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60 Subpart IIII or NSPS for Stationary Spark Ignition Combustion Engines, 40 CFR 60 Subpart JJJJ. This is because the provisions of these rules are not applicable to engines being tested at engine test cell/stands, pursuant to 40 CFR 60.4200(b) and 40 CFR 60.4230(b), respectively.
- d.
 - i. The affected cells are not subject to state rules for fuel combustion emission units, including 35 IAC 212.206 (particulate matter), 214.122 or 214.304 (sulfur dioxide), 216.121 (carbon monoxide) and 217.141 (nitrogen oxide).

This is because the engines tested in the cells are not fuel combustion emission units, as defined by 35 IAC 211.2470.

- ii. The affected test cells are not subject to 35 Ill. Adm. Code 217 Subpart Q, Stationary Reciprocating Internal Combustion Engines and Turbines. Pursuant to 35 IAC 217.386(b)(2), an affected unit is not subject to the requirements of this Subpart Q if the engine or turbine is or has been used for research or for the purposes of performance verification or testing.
- iii. The affected cells are not subject to 35 IAC 212.321 or 212.322, pursuant to 35 IAC 212.323. This is because there is not an appropriate process weight rate for the cells, to enable these standards to be reasonably applied.

1.4 Operational and Production Limits and Work Practices

- a.
 - i. The liquid and gaseous fuel usage for all engine test cells at the source, i.e., the combination of the affected cells and the six existing test cells, shall not exceed 121,000 gallons per month and 1,202,150 gallons per year and 9.0 million cubic feet (mmcf) per month and 90.0 mmcf per year, respectively.
 - ii. Compliance with these annual fuel limits and other annual limits in this permit shall be determined from a running total of 12 months of data, i.e., from the sum of the data for the current month plus the preceding 11 months.
- b. At all times the Permittee shall, to the extent practicable, maintain and operate the affected cells and associated control equipment in a manner consistent with good air pollution control practices for minimizing emissions.

1.5 Emission Limits

- a.
 - i. Emissions from all test cells at the source, combined, i.e., the combination of the affected cells and the six existing test cells, shall not exceed the following limits:

Time Period	Emission Limits			
	NO _x	CO	Individual HAP	Aggregate HAPs
Tons/Month	18.0	24.5	1.0	2.5
Tons/Year	180.0	245.0	8.0	20.0

- ii. The total emissions of greenhouse gasses from the source, combined, i.e., the combination of the affected cells and the six existing test cells, shall not exceed 19,000 tons per year, as CO₂e.

1.6 Testing Requirements

- a. Upon a written request by the Illinois EPA, the Permittee shall have observations conducted for opacity from affected cell(s) at its expense. Such observation shall be conducted and the results submitted to the Illinois EPA within 30 days of the date of the request unless an alternative time for submittal is agreed to by the Illinois EPA. These observations shall be conducted in accordance with USEPA Method.

1.7 Recordkeeping Requirements

The Permittee shall maintain the following records for the affected cells:

- a. Records of sulfur content of the liquid fuel(s), percent by weight, with supporting documentation.
- b. Records of fuel usage of the affected cells by type of fuel, (gallons/month and gallons/year for liquid fuel, and mscf/month and mscf/year for gaseous fuel).
- c. Records for existing cells (operating hours).
- d. The following records related to emissions of NO_x, CO, HAPs and CO₂e from the test cells:
 - i. A file or other records for the emission factors (pounds/gallons or pounds/scf and pounds/HP-hr) used by the Permittee to determine emissions of each test cell, with supporting documentation and calculations. For this purposes, the Permittee shall keep records for the maximum emission factors for the affected cells and existing cells unless the Permittee keeps records for the fuel usage for each class of engines being tested, in which case the Permittee shall keep records for the maximum emission factors for each class of engines.
 - ii. Records of emissions from the affected cells (tons/month and tons/year), based on the fuel usage and the applicable emission factors, with supporting calculations.
 - iii. Records of emissions from the all the engine test cells at the source, combined, (tons/month and tons/year), based on the fuel usage and the applicable emission factors, with supporting calculations.
- e. Records of all opacity observations that are performed. These records shall be retained for at least three years after the date subsequent observations are performed and shall include the following:

- i. The date and time of observations.
- ii. The individuals that performed the observations.
- iii. Raw data and the results.
- iv. The operating conditions at the time of observation.

1.8 Record Retention

All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

1.9 Reporting Requirements

If there is any deviation from the requirements of this permit, the Permittee shall submit a report to the Illinois EPA within 30 days after the deviation. The report shall describe the deviation, provide the probable cause of the deviation, the corrective actions that were taken, and any action taken to prevent future occurrences.

1.10 Addresses

Two copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one copy shall be sent to the Illinois EPA's regional office at the following address:

Illinois Environmental Protection Agency
Division of Air Pollution Control
5407 North University
Peoria, Illinois 61614

1.11 Authorization to Operate

The Permittee may operate the affected cells under this construction permit until such time as an operating permit is issued for the source that addresses these cells. This condition supersedes Standard Condition 6.

Page 6

If you have any questions on this, please contact Jonathan Smith or Minesh Patel at 217/785-1705.

Edwin C. Bakowski, P.E.
Manager, Permit Section
Division of Air Pollution Control

Date Signed: _____

ECB:MVP:psj

cc: Region 2