

DRAFT
217/782-2113

DRAFT/PROPOSED CAAPP

May 26, 2011

"RENEWAL"
TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

PERMITTEE:

Naval Station Great Lakes
Attn: Matthew Wollert
201 Decatur Avenue, Bldg.1A
Great Lakes, Illinois 60088-5600

I.D. No.: 097811AAC
Application No.: 95120330

Date Received: February 16, 2007
Date Issued:
Expiration Date¹:

Operation of: Naval Training Facility
Source Location: 201 Decatur Avenue, Great Lakes, Lake County, 60088-5600
Responsible Official: Capt. John Malfitano, Commanding Officer

This permit is hereby granted to the above-designated Permittee to OPERATE a military training facility, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

If you have any questions concerning this permit, please contact Anatoly Belogorsky at 217/782-2113.

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

ECB:AB:psj

cc: Illinois EPA, FOS, Region 1
CES
Lotus Notes

¹ Except as provided in Conditions 1.5 and 8.7 of this permit.

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1.0 SOURCE IDENTIFICATION

1.1 Source

Naval Station Great Lakes
201 Decatur Avenue, Bldg.1A
Great Lakes, Illinois 60088-5600
Contact: 847/688-6934

I.D. No.: 097811AAC
County: Lake
Standard Industrial Classification: 4961, Steam Generation and
Distribution

1.2 Owner/Parent Company

Naval Station Great Lakes
201 Decatur Avenue, Bldg.1A
Great Lakes, Illinois 60088-5600

1.3 Operator

Naval Station Great Lakes
201 Decatur Avenue, Bldg.1A
Great Lakes, Illinois 60088-5600

Contact Person: Matthew Wollert
Contact: 847/688-6934

1.4 Source Description

The Naval Training Center/Great Lakes is located at 201 Decatur Avenue, in Great Lakes and operates numerous different emission sources used for normal operation of the Training Center.

1.5 Title I Conditions

As generally identified below, this CAAPP permit contains certain conditions for emission units at this source that address the applicability of permitting programs for the construction and modification of sources, which programs were established pursuant to Title I of the Clean Air Act (CAA) and regulations thereunder. These programs include 40 CFR 52.21, Prevention of Significant Deterioration (PSD) and 35 IAC Part 203, Major Stationary Sources Construction and Modification (MSSCAM), and are implemented by the Illinois EPA pursuant to Sections 9, 9.1, 39(a) and 39.5(7)(a) of the Illinois Environmental Protection Act (Act). These conditions continue in effect, notwithstanding the expiration date specified on the first page of this permit, as their authority derives from Titles I and V of the CAA, as well as Titles II and X of the Act. (See also Condition 8.7.)

- a. This permit contains Title I conditions that reflect Title I requirements established in permits previously issued for this source, which conditions are specifically designated as "T1".

- b. This permit contains Title I conditions that revise Title I requirements established in permits previously issued for this source, which conditions are specifically designated as "T1R."

2.0 LIST OF ABBREVIATIONS AND ACRONYMS COMMONLY USED

ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment Trading Unit
BAT	Best Available Technology
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
ERMS	Emissions Reduction Market System
HAP	Hazardous Air Pollutant
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
PM _{2.5}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
SO ₂	Sulfur Dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile Organic Material

3.0 CONDITIONS FOR INSIGNIFICANT ACTIVITIES

3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a)(1) and 201.211, as follows:

None

3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

None

3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a)(4) through (18), as follows:

- a. Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as follows: (A) Units with a rated heat input capacity of less than 2.5 mmBtu/hr that fire only natural gas, propane, or liquefied petroleum gas; (B) Units with a rated heat input capacity of less than 1.0 mmBtu/hr that fire only oil or oil in combination with only natural gas, propane, or liquefied petroleum gas; and (C) Units with a rated heat input capacity of less than 200,000 Btu/hr which never burn refuse, or treated or chemically contaminated wood [35 IAC 201.210(a)(4)].
- b. Storage tanks of any size containing virgin or re-refined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oils [35 IAC 201.210(a)(11)].
- c. Gas turbines and stationary reciprocating internal combustion engines of less than 112 kW (150 horsepower) power output [35 IAC 201.210(a)(15)].
- d. Gas turbines and stationary reciprocating internal combustion engines of between 112 kW and 1,118 kW (150 and 1,500 horsepower) power output that are emergency or standby units [35 IAC 201.210(a)(16)].

3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b). Note: These activities are not required to be individually listed.

3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.3.2), the Permittee shall comply with the following requirements, as applicable:

- 3.2.1 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322 (see Attachment 2) and 35 IAC Part 266. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.
- 3.2.2 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 218.301, which requires that organic material emissions not exceed 8.0 pounds per hour or, if no odor nuisance exists, do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.
- 3.2.3 For each open burning activity, the Permittee shall comply with 35 IAC Part 237, including the requirement to obtain a permit for open burning in accordance with 35 IAC 237.201, if necessary.
- 3.2.4 For each storage tank that has a storage capacity greater than 946 liters (250 gallons) and, if no odor nuisance exists, that stores an organic material with a vapor pressure exceeding 2.5 psia, the Permittee shall comply with the applicable requirements of 35 IAC 218.122, which requires use of a permanent submerged loading pipe, submerged fill, a vapor recovery system, or an equivalent device approved by the Illinois EPA. [Note: storage tanks used for storing gasoline and any hazardous air pollutants are not eligible for insignificant activities].

3.3 Addition of Insignificant Activities

- 3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).
- 3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.
- 3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Unit/Operations	Description	Emission Control Equipment	Subsection
Boilers #5 and #6	Boiler #5 (FCEU-5, Building 11)	None	7.1
	Boiler #6 (FCEU-6, Building 11)	None	
Boilers #4 and 3511-FCEU-1 & 2	Boiler #4 (FCEU-4, Building 11)	None	7.2
	Boilers 3511-FCEU-1 & 2	None	
Miscellaneous Small Boilers	236-FCEU-1	None	7.3
	535-FCEU-1	None	
	1017-FCEU-1	None	
	1425-FCEU-1 & 2	None	
	200H-FCEU-1	None	
	3000-FCEU-1 & 2	None	
	3211-FCEU-1 & 2	None	
	3217-FCEU-1 & 2	None	
	3400-FCEU-1 & 2	None	
Engines and Turbines	Engines 238-ICE-1, 238-ICE-3, and 238-ICE-6	None	7.4
	Engines 238-ICE-7 through ICE-16	None	
	Engine 11-ICE-3	None	
	Turbine 6224-ICE-2	None	
	Turbine CTG1-RIMSS	None	
Cogeneration Facility	Two Turbines with Duct Burners	Selective Catalytic Reduction (SCR) per each turbine	7.5
	Two Emergency Engine-Generators	Selective Catalytic Reduction (SCR) per each generator	
Petroleum Dry Cleaning Machines	Four (4) Dry-to-Dry Petroleum Dry Cleaning Machines	Carbon Cartridge Filters and Condensers	7.6

	Two (2) Dry-to-Dry Petroleum Dry Cleaning Machines	Carbon Cartridge Filters and Condensers	
Gasoline Storage Tanks and Dispensing Operations	Building 13 (1 Tank) (capacity 2,000 gal)	None	7.7
	Building 929 (1 tank) (capacity 300 gal)		
	Building 8150 (3 Tanks) (capacity 2/12,000 gal and 1/15,000 gal)	Stage II Vapor Recovery Systems	
	Building 1506/1507 (2 Tanks) (capacity 10,000 gal each)		
	Building 400 (2 Tanks) (capacity 12,500 gal each)		
	Building 3311 (1 Tank) (capacity 300 gal)	None	
	Building 3511A (1 Tank) (capacity 500 gal)		
	Building 1517 (2 Tanks) (capacity 60 gal each)		

5.0 OVERALL SOURCE CONDITIONS

5.1 Applicability of Clean Air Act Permit Program (CAAPP)

5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of NO_x, CO, and SO₂ emissions.

5.2 Area Designation

5.2.1 This permit is issued based on the source being located in an area that, as of the date of permit issuance, is designated nonattainment for the National Ambient Air Quality Standards for ozone (moderate nonattainment), PM_{2.5}, and attainment or unclassifiable for all other criteria pollutants (CO, lead, NO_x, SO₂).

5.3 Source-Wide Applicable Provisions and Regulations

5.3.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions for Specific Emission Units) of this permit.

5.3.2 In addition, emission units at this source are subject to the following regulations of general applicability, if not otherwise specified anywhere in this permit:

- a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.
- b. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

5.3.3 Ozone Depleting Substances

The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

5.3.4 Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the owner or operator shall submit the items below. This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

- a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or
- b. A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the RMP, as part of the annual compliance certification required by Condition 9.8.

5.3.5 Future Emission Standards

- a. Should this stationary source become subject to a regulation under 40 CFR Parts 60, 61, 62, or 63, or 35 IAC Subtitle B after the date this permit is issued, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 9.8. This permit may also have to be revised or reopened to address such new regulations (see Condition 9.12.2).
- b. This permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.

5.3.6 Episode Action Plan

- a. Pursuant to 35 IAC 244.141, the Permittee shall maintain at the source and have on file with the Illinois EPA a written Episode Action Plan (plan) for reducing the levels of

emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures.

- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared, as required by 35 IAC 244.169, or as may otherwise be required under 35 IAC 244, Appendix D.
- c. If an operational change occurs at the source which invalidates the plan, a revised plan shall be submitted to the Illinois EPA for review within 30 days of the change, pursuant to 35 IAC 244.143(d). Such plans shall be further revised if disapproved by the Illinois EPA.
- d. Any future revision to the aforementioned plan made by the Permittee during the permit term is automatically incorporated by reference unless said revision is expressly disapproved, in writing, by the Illinois EPA within 30 days of receipt of said revision. In the event that the Illinois EPA notifies the Permittee of a deficiency with any revision to the plan, the Permittee shall be required to revise and resubmit the plan within 30 days of receipt of notification to address the deficiency [415 ILCS 39.5(7)(a)].

5.4 Source-Wide Non-Applicability of Regulations of Concern

The source is not subject to provisions of Fugitive Particulate Matter Operating Program required by 35 IAC 212.309 and 212.310. This non-applicability is based on the SIC for this source not constituting the manufacturing operations as required by 35 IAC 212.302.

5.5 Source-Wide Control Requirements and Work Practices

Source-wide control requirements and work practices are not set for this source. However, there are source-wide requirements in the Standard Permit Conditions in Section 9. There may also be requirements for unit specific control requirements and work practices set forth in Section 7 of this permit.

5.6 Source-Wide Production and Emission Limitations

5.6.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. These limitations (Condition 5.6.1) are set for the purpose of establishing fees and are not federally enforceable (see Section 39.5(18) of the Act).

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	38.99
Sulfur Dioxide (SO ₂)	177.17
Particulate Matter (PM)	49.14
Nitrogen Oxides (NO _x)	595.36
HAP, not included in VOM or PM	----
Total	860.66

5.6.2 Emissions of Hazardous Air Pollutants

Pursuant to Section 39.5(7)(a) of the Act, the potential emissions of HAPs from the source are less than 8 tons/year for each individual HAP and 20 tons/year for all HAPs combined.

5.6.3 Other Source-Wide Production and Emission Limitations

Other source-wide emission limitations are not set for this source pursuant to the federal rules for PSD, state rules for MSSCAM, or Section 502(b)(10) of the CAA.

5.7 Source-Wide Testing Requirements

Pursuant to 35 IAC 201.282 and Section 4(b) of the Act, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:

- a. Testing by Owner or Operator: The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests [35 IAC 201.282(a)].
- b. Testing by the Illinois EPA: The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary [35 IAC 201.282(b)].
- c. Any such tests are also subject to the Testing Procedures of Condition 8.5 set forth in the General Permit Conditions of Section 8.

5.8 Source-Wide Monitoring Requirements

Source-wide monitoring requirements are not set for this source.

5.9 Source-Wide Recordkeeping Requirements

5.9.1 Annual Emission Records

The Permittee shall maintain records of total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit to demonstrate compliance with Conditions 5.6.1 and 5.6.2, pursuant to Section 39.5(7)(b) of the Act.

5.9.2 Retention and Availability of Records

- a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.
- b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.

5.10 Source-Wide Reporting Requirements

5.10.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the source with the permit requirements within 30 days, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken. There are also reporting requirements for unit specific emission units set forth in Section 7 of this permit.

5.10.2 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information for the previous calendar year.

5.11 Source-Wide Compliance Procedures

5.11.1 General Procedures for Calculating Emissions

Except as provided in Condition 9.1.3, compliance with the source-wide emission limits specified in Condition 5.6 shall be based on the recordkeeping and reporting requirements of Conditions 5.9 and 5.10, and compliance procedures in Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit.

6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS

6.2 Emissions Reduction Market System (ERMS)

6.2.1 Description of ERMS

The ERMS is a "cap and trade" market system for major stationary sources located in the Chicago ozone nonattainment area. It is designed to reduce VOM emissions from stationary sources to contribute to reasonable further progress toward attainment, as required by Section 182(c) of the CAA.

The ERMS addresses VOM emissions during a seasonal allotment period from May 1 through September 30. Participating sources must hold "allotment trading units" (ATUs) for their actual seasonal VOM emissions. Each year participating sources are issued ATUs based on allotments set in the sources' CAAPP permits. These allotments are established from historical VOM emissions or "baseline emissions" lowered to provide the emissions reductions from stationary sources required for reasonable further progress.

By December 31 of each year, the end of the reconciliation period following the seasonal allotment period, each source shall have sufficient ATUs in its transaction account to cover its actual VOM emissions during the preceding season. A transaction account's balance as of December 31 will include any valid ATU transfer agreements entered into as of December 31 of the given year, provided such agreements are promptly submitted to the Illinois EPA for entry into the transaction account database. The Illinois EPA will then retire ATUs in sources' transaction accounts in amounts equivalent to their seasonal emissions. When a source does not appear to have sufficient ATUs in its transaction account, the Illinois EPA will issue a notice to the source to begin the process for Emissions Excursion Compensation.

In addition to receiving ATUs pursuant to their allotments, participating sources may also obtain ATUs from the market, including ATUs bought from other participating sources and general participants in the ERMS that hold ATUs (35 IAC 205.630) and ATUs issued by the Illinois EPA as a consequence of VOM emissions reductions from an Emissions Reduction Generator or an Intersector Transaction (35 IAC 205.500 and 35 IAC 205.510). During the reconciliation period, sources may also buy ATUs from a secondary reserve of ATUs managed by the Illinois EPA, the "Alternative Compliance Market Account" (ACMA) (35 IAC 205.710). Sources may also transfer or sell the ATUs that they hold to other sources or participants (35 IAC 205.630).

6.2.2 Applicability

This permit is issued based on this source not being a participating source in the Emissions Reduction Market System (ERMS), 35 IAC Part 205, pursuant to 35 IAC 205.200. This is based on the source's actual VOM emissions during the seasonal allotment period from May 1 through September 30 of each year being less than 10 tons and the source's baseline emissions also being less than 10 tons.

6.2.3 Recordkeeping and Reporting

- a. The Permittee shall maintain the following records to allow the confirmation of actual VOM emissions during the seasonal allotment period:
 - i. Records of operating data and other information for each individual emission unit or group of related emission units at the source, as specified in Sections 5 and 7 of this permit, as appropriate, to determine actual VOM emissions during the seasonal allotment period;
 - ii. Records of the VOM emissions, in tons, during the seasonal allotment period, with supporting calculations, for each individual emission unit or group of related emission units at the source, determined in accordance with the procedures specified in Sections 5 and 7 of this permit; and
 - iii. Total VOM emissions from the source, in tons, during each seasonal allotment period, which shall be compiled by November 30 of each year.
- b. In the event that the source's VOM emissions during the seasonal allotment period equal or exceed 10 tons, the source shall become a participating source in the ERMS and beginning with the following seasonal allotment period, shall comply with 35 IAC Part 205, by holding allotment trading units (ATUs) for its VOM emissions during each seasonal allotment period, unless the source obtains exemption from the ERMS by operating with seasonal VOM emissions of no more than 15 tons pursuant to a limitation applied for and established in its CAAPP permit.

7.0 UNIT SPECIFIC CONDITIONS FOR SPECIFIC EMISSION UNITS

7.1 Boilers #5 and #6

7.1.1 Description

Three natural gas-fired/fuel oil #2 boilers supply steam, heat and power for the needs of this source. Fuel oil is used for back-up purposes only.

Note: This narrative description is for informational purposes only and is not enforceable.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Boiler #5 (FCEU-5, Building 11)	340 mmBtu/hr; Natural gas/Fuel oil #2	1966	None
Boiler #6 (FCEU-6, Building 11)	340 mmBtu/hr; Natural gas/Fuel oil #2	1966	None

7.1.3 Applicable Provisions and Regulations

- a. The "affected boiler" for the purpose of these unit-specific conditions, are the emission units/operations described in Conditions 7.1.1 and 7.1.2.
- b. All affected boilers are subject to the following requirements:
 - i. No person shall cause or allow the emission of carbon monoxide into the atmosphere from any fuel combustion emission source to exceed 200 ppm, corrected 50 percent excess air [35 IAC 216.121].
 - ii. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124 [35 IAC 212.123(a)].
- c. The affected boilers are subject to the following requirements:
 - i. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period to exceed 0.15 kg of particulate matter

per MW-hr of actual heat input from any fuel combustion emission unit using liquid fuel exclusively (0.10 lb/mmBtu) [35 IAC 212.206].

- ii. The affected boilers while burning liquid fuel shall not exceed the following SO₂ emission limits:

0.46 kg of sulfur dioxide per MW-hr of actual heat when distillate fuel oil is burned (0.3 lb/mmBtu) [35 IAC 214.161(b)].

- iii. The affected boilers while burning gaseous and/or liquid fossil fuel shall not exceed the following NO_x emission limits:

0.46 kg of nitrogen oxides per MW-hr (0.3 lb/mmBtu) of actual heat [35 IAC 217.141(a)].

7.1.4 Non-Applicability of Regulations of Concern

- a. Fuel combustion emission units are not subject to 35 IAC Part 218, Subpart G: Use of Organic Material [35 IAC 218.303].
- b. This permit is issued based on the affected boilers not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM), for PM, SO₂, NO_x and CO, because the affected boilers do not use an add-on control device to achieve compliance with an emission limitation or standard.
- c. The affected boilers are not subject to 40 CFR 63 Subpart JJJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources because the boilers are defined as gas-fired unless the affected boilers burn fuel oil not for the purposes of gas curtailment, gas supply emergencies or periodic testing on liquid fuels exceeds total of 48 hours per calendar year as defined in 40 CFR 63.11237.

7.1.5 Control Requirements and Work Practices

- a. Each affected boiler shall only be operated with natural gas and/or fuel oil #2 as the fuel [Section 39.5(7)(a) of the Act].
- b. Pursuant to 40 CFR 63.11196(a)(1), for fuel oils, the Permittee shall perform initial compliance with the following tune-up requirements in 40 CFR 63.11223(a) and (b) for the affected boilers no later than March 21, 2012 and conduct biennially thereafter but no later than 25 months after the previous tune-up:
 - i. As applicable, inspect the burner, and clean or

replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but each burner shall be inspected at least once every 36 months).

- ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
- iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
- iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
- v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).
- vi. Maintain onsite and submit, if requested by the Illinois EPA, biennial report containing the following information:
 - A. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler.
 - B. A description of any corrective actions taken as a part of the tune-up of the boiler.
 - C. The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler.
- c. Pursuant to 39.5(7)(a) and (b), when natural gas as a fuel is only used, the Permittee shall perform the same tune-up procedures on the affected boilers established in Condition 7.1.5(b) at least every 5 years.

7.1.6 Production and Emission Limitations

The Permittee shall not exceed emissions of NO_x from each affected boiler equal to 15.0 tons or above per calendar year and 5.0 tons or above per ozone season (May 1 through September 30). These limits are established pursuant to 35 IAC 217.162 for purposes of applicability avoidance of 35 IAC 217.150 and 217.164.

7.1.7 Testing Requirements

If the affected boilers are fired by diesel fuel for a period that lasts longer than 48 hours per year and the firing is not the result of a gas curtailment as defined in 40 CFR 63.11237, the Permittee shall perform the following tests by using USEPA test methods no later than 3 months from the date on which 48 hours was exceeded:

Location of Sample Points	Method 1
Gas Flow and Velocity	Method 2
Flue Gas Weight	Method 3
Moisture	Method 4
SO ₂	Method 6
PM	Method 5
NO _x	Method 7E or 19
CO	Method 10 or 10B
Opacity	Method 9

7.1.8 Monitoring Requirements

- a. Visual inspections of the affected boilers and regular tune-ups shall be performed in accordance with Condition 7.1.5(b).
- b. The Permittee shall conduct semi-annual opacity observations of each affected boiler by using Method 22. If opacity is observed, the Permittee shall conduct opacity testing by using Method 9 within one week [Section 39.5(7)(p) of the Act].

7.1.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected utility boilers, pursuant to Sections 39.5(7)(b) and (e) of the Act:

- a. Total natural gas usage for all such boilers (mmscf/mo and mmscf/yr);
- b. Total fuel oil #2 usage for all such boilers (gal/mo and gal/yr);
- c. Hours of operation on the calendar year basis when firing fuel oil and the reason for each time period (hr/period and hr/yr);
- d. Sulfur content, wt.%, based on the fuel oil #2 supplier certification records or sampling and analysis from the storage tanks, in accordance with applicable ASTM methods;
- e. Records of annual maintenance activities performed on the affected boilers;

- f. Records of biennial tune-ups and associated activities on the affected boilers as required by Condition 7.1.5(b)(vi);
- g. Monthly and annual emissions of regulated air pollutants (ton/month and ton/yr);
- h. Seasonal and annual emissions of NO_x from each affected boiler (ton/season and ton/year); and
- i. Results of the opacity observations and emission tests.

7.1.10 Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected boilers with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Within 30 days after any exceedance of the emission limits identified in Conditions 7.1.3 and 7.1.6 the Illinois shall be notified of such events.

- b. Pursuant to 40 CFR 63.11214(b), the Permittee shall submit a signed statement in the Notification of Compliance Status report that indicates that a tune-up of the affected boiler was conducted.
- c. Pursuant to 40 CFR 63.11214(c), the Permittee shall submit a signed certification in the Notification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed and submit, upon request, the energy assessment report.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is allowed to switch the fuels fired at the affected boilers if the notification provided to the Illinois EPA 30 days prior the date of switching fuels and such notification shall identify the following pursuant to 40 CFR 63.11225(g):

- a. The name of the owner or operator of the affected source, the location of the source, the boiler(s) that will switch fuels, and the date of the notice.
- b. The currently applicable subcategory under 40 CFR 63 Subpart JJJJJJ.
- c. The date on which the affected boilers became subject to the currently applicable standards of 40 CFR 63 Subpart JJJJJJ.
- d. The date upon which the Permittee will commence the fuel switch.

7.1.12 Compliance Procedures

- a. For the affected boilers, compliance with the applicable standards of Condition 7.1.3 is addressed by the work practices, testing, monitoring, recordkeeping and reporting requirements described in Subsection 7.1.
- b. Compliance with the emission limits in Condition 7.1.6 is addressed by the records required in Condition 7.1.9.
- c. The conditions described above are established in accordance with provisions 39.5(7) of the Act.

7.2 Boilers #4 and 3511-FCEU-1 & 2

7.2.1 Description

Three natural gas-fired/fuel oil #2 boilers supply steam, heat and power for the needs of this source. Fuel oil is used for back-up purposes only.

Note: This narrative description is for informational purposes only and is not enforceable.

7.2.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Boiler #4 (FCEU-4, Building 11)	120 mmBtu/hr; Natural gas/Fuel oil #2	1952	None
3511-FCEU-1 & 2	12.35 mmBtu/hr (each); Natural gas/Fuel oil #2	N/A	None

7.2.3 Applicable Provisions and Regulations

- a. The "affected boiler" for the purpose of these unit-specific conditions, are the emission units/operations described in Conditions 7.2.1 and 7.2.2.
- b. All affected boilers are subject to the following requirements:
 - i. No person shall cause or allow the emission of carbon monoxide into the atmosphere from any fuel combustion emission source to exceed 200 ppm, corrected 50 percent excess air [35 IAC 216.121].
 - ii. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124 [35 IAC 212.123(a)].

7.2.4 Non-Applicability of Regulations of Concern

- a. Fuel combustion emission units are not subject to 35 IAC Part 218, Subpart G: Use of Organic Material [35 IAC 218.303].
- b. This permit is issued based on the affected boilers not being subject to 40 CFR Part 64, Compliance Assurance

Monitoring (CAM), for PM and CO, because affected boilers do not use an add-on control device to achieve compliance with an emission limitation or standard.

- c. The affected boilers are not subject to 40 CFR 63 Subpart JJJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources because the boilers are defined as gas-fired unless the affected boilers burn fuel oil not for the purposes of gas curtailment, gas supply emergencies or periodic testing on liquid fuels exceeds total of 48 hours per calendar year as defined in 40 CFR 63.11237.

7.2.5 Control Requirements and Work Practices

- a. Each affected boiler shall only be operated with natural gas and/or fuel oil #2 as the fuel [Section 39.5(7)(a) of the Act].
- b. Pursuant to 40 CFR 63.11196(a)(1), if the affected boilers no longer qualify for exemption for gas-fired boilers as specified in Condition 7.2.4(c), the Permittee shall perform initial compliance with the following tune-up requirements in 40 CFR 63.11223(a) and (b) for the affected boilers no later than March 21, 2012 and conduct biennially thereafter but no later than 25 months after the previous tune-up:
 - i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but each burner shall be inspected at least once every 36 months).
 - ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
 - iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
 - v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).

vi. Maintain onsite and submit, if requested by the Illinois EPA, biennial report containing the following information:

- A. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler.
- B. A description of any corrective actions taken as a part of the tune-up of the boiler.
- C. The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler.

c. Pursuant to 39.5(7)(a) and (b), when natural gas as a fuel is only used, the Permittee shall perform the same tune-up procedures on the affected boilers established in Condition 7.2.5(b) at least every 5 years.

7.2.6 Production and Emission Limitations

Emission and production limits are not set for the affected boilers *.

*Emissions for boilers 3511-FCEU-1 & 2 are included into cumulative emissions of Condition 7.3.6

7.2.7 Testing Requirements

If the affected boilers are fired by diesel fuel for a period that lasts longer than 48 hours per year and the firing is not the result of a gas curtailment as defined in 40 CFR 63.11237, the Permittee shall perform the following tests by using USEPA test methods no later than 3 months from the date on which 48 hours of operation being exceeded:

Location of Sample Points	Method 1
Gas Flow and Velocity	Method 2
Flue Gas Weight	Method 3
Moisture	Method 4
SO ₂	Method 6
PM	Method 5
NO _x	Method 7E or 19
CO	Method 10 or 10B
Opacity	Method 9

7.2.8 Monitoring Requirements

a. Visual inspections of the affected boilers and regular tune-ups shall be performed in accordance with Condition 7.2.5(b) and (c).

- b. The Permittee shall conduct annual opacity observations of each affected boiler by using Method 22. If opacity is observed, the Permittee shall conduct opacity testing by using Method 9 within one week after opacity was detected [Section 39.5(7)(p) of the Act].

7.2.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected boilers, pursuant to Sections 39.5(7)(b) and (e) of the Act:

- a. Total natural gas usage for all such boilers (mmscf/mo and mmscf/yr);
- b. Total fuel oil #2 usage for all such boilers (gal/mo and gal/yr);
- d. Hours of operation on the calendar year basis when firing fuel oil and the reason for each time period (hr/period and hr/yr);
- e. Sulfur content, wt.%, based on the fuel oil #2 supplier certification records or sampling and analysis from the storage tanks, in accordance with applicable ASTM methods;
- f. Records of annual maintenance activities performed on the affected boilers;
- g. Records of tune-ups and associated activities on the affected boilers as required by Condition 7.2.5(b) and (c);
- h. Monthly and annual emissions of regulated air pollutants (ton/mo and ton/year);
- i. Seasonal and annual emissions of NO_x from each affected utility boiler (ton/season and ton/year); and
- j. Results of the required opacity observations and emission tests.

7.2.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected utility boilers with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Within 30 days after any exceedance of the emission limits identified in Condition 7.2.3 the Illinois EPA shall be notified of such events.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is allowed to switch the fuels fired at the affected boilers if the notification provided to the Illinois EPA 30 days prior the date of switching fuels and such notification shall identify the following pursuant to 40 CFR 63.11225(g):

- a. The name of the owner or operator of the affected source, the location of the source, the boiler(s) that will switch fuels, and the date of the notice.
- b. The currently applicable subcategory under 40 CFR 63 Subpart JJJJJJ.
- c. The date on which the affected boilers became subject to the currently applicable standards of 40 CFR 63 Subpart JJJJJJ.
- d. The date upon which the Permittee will commence the fuel switch.

7.2.12 Compliance Procedures

- a. For the affected boilers, compliance with the applicable standards of Condition 7.2.3 is addressed by the work practices, testing, monitoring, recordkeeping and reporting requirements described in Subsection 7.2.
- b. The condition described above is established in accordance with provisions 39.5(7) of the Act.

7.3 Miscellaneous Small Boilers

7.3.1 Description

Three natural gas-fired/fuel oil #2 boilers supply steam, heat and power for the needs of this source

Note: This narrative description is for informational purposes only and is not enforceable.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
236-FCEU-1	5.5 mmBtu/hr Natural gas/Fuel oil #2	N/A	None
535-FCEU-1	5.63 mmBtu/hr Natural gas/Fuel oil #2	N/A	None
1017-FCEU-1	3.122 mmBtu/hr Natural gas/Fuel oil #2	N/A	None
1425-FCEU-1 & 2	3.2 mmBtu/hr (each) Natural gas/Fuel oil #2	N/A	None
200H-FCEU-1	5.146 mmBtu/hr Natural gas/Fuel oil #2	N/A	None
3000-FCEU-1 & 2	5.7 mmBtu/hr (each) Natural gas/Fuel oil #2	1992 & 1995	None
3211-FCEU-1 & 2	2.578 mmBtu/hr (each) Natural gas/Fuel oil #2	2000	None
3217-FCEU-1 & 2	6.3 mmBtu/hr (each) Natural gas/Fuel oil #2	1993	None
3400-FCEU-1 & 2	8.31 mmBtu/hr (each) Natural gas/Fuel oil #2	1995 & 1996	None
3451-FCEU-1	3.103 mmBtu/hr Natural gas/Fuel oil #2	1995	None

7.3.3 Applicable Provisions and Regulations

- a. The "affected boiler" for the purpose of these unit-specific conditions, are the emission units/operations described in Conditions 7.3.1 and 7.3.2.
- b. All affected boilers are subject to the following requirements:

No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124 [35 IAC 212.123(a)].

7.3.4 Non-Applicability of Regulations of Concern

- a. Fuel combustion emission units are not subject to 35 IAC Part 218, Subpart G: Use of Organic Material [35 IAC 218.303].
- b. This permit is issued based on the affected boilers not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM), because the boilers do not use an add-on control device to achieve compliance with an opacity limitation or standard.
- c. The affected boilers are not subject to 40 CFR 63 Subpart JJJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources because the boilers are defined as gas-fired unless the affected boilers burn fuel oil not for the purposes of gas curtailment, gas supply emergencies or periodic testing on liquid fuels exceeds total of 48 hours per calendar year as defined in 40 CFR 63.11237.

7.3.5 Control Requirements and Work Practices

- a. Each affected boiler shall only be operated with natural gas and/or fuel oil #2 as the fuel [Section 39.5(7)(a) of the Act].
- b. Pursuant to 40 CFR 63.11196(a)(1), if the affected boilers no longer qualify for exemption for gas-fired boilers as specified in Condition 7.3.4(c), initial compliance with the following tune-up requirements in 40 CFR 63.11223(a) and (b) for the affected boilers shall be achieved no later than March 21, 2012 and conducted biennially thereafter but no later than 25 months after the previous tune-up:
 - i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but each burner shall be inspected at least once every 36 months).
 - ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
 - iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.

- v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).
- vi. Maintain onsite and submit, if requested by the Illinois EPA, biennial report containing the following information:
 - A. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler.
 - B. A description of any corrective actions taken as a part of the tune-up of the boiler.
 - C. The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler.
- vii. If the affected boiler is not operating on the required date for a tune-up, the tune-up must be conducted within one week of startup.
- c. Pursuant to 39.5(7)(a) and (b), when natural gas as a fuel is only used, the Permittee shall perform the same tune-up procedures on the affected boilers established in Condition 7.3.5(b) at least every 5 years.

7.3.6 Production and Emission Limitations

In addition to Condition 5.3.2 and the source-wide emission limitations in Condition 5.6, the affected boilers are subject to the following emission limits:

- a. Pursuant to the revisions made to the T1N requirements of initial CAAPP permit 95120330, the Permittee shall not exceed the following limits [T1R]:

Pollutant	Emissions (tons/month)	Emissions (tons/year)
NO _x	4.5	47.5
CO	4.0	39.9
PM	0.34	3.6
VOM	0.24	2.6

Specifically, these emission limits have been increased by including emissions from all small affected boilers as presented in Condition 7.3.2 and that had never been considered by the initial CAAPP permit.

- b. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

7.3.7 Testing Requirements

If the affected boilers are fired by diesel fuel for a period that lasts longer than 48 hours per year and the firing is not the result of a gas curtailment as defined in 40 CFR 63.11237, the Permittee shall perform the following tests by using USEPA test methods no later than 3 months from the date on which 48 hours of operation being exceeded:

Location of Sample Points	Method 1
Gas Flow and Velocity	Method 2
Flue Gas Weight	Method 3
Moisture	Method 4
SO ₂	Method 6
PM	Method 5
NO _x	Method 7E or 19
CO	Method 10 or 10B
Opacity	Method 9

7.3.8 Monitoring Requirements

- a. Visual inspections of the affected boilers and regular tune-ups shall be performed in accordance with Condition 7.3.5(b) and (c).
- b. The Permittee shall conduct annual opacity observations of each affected boiler by using Method 22. If opacity is observed, the Permittee shall conduct opacity testing by using Method 9 within one week after opacity was detected [Section 39.5(7)(p) of the Act].

7.3.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected boilers, pursuant to Sections 39.5(7)(b) and (e) of the Act:

- a. Total natural gas usage for all affected boilers (mmscf/mo and mmscf/yr);
- b. Total fuel oil #2 usage for all affected boilers (gal/mo and gal/yr);
- c. Sulfur content, wt.%, based on the fuel oil #2 supplier certification records or sampling and analysis from the storage tanks, in accordance with applicable ASTM methods;
- d. Records of tune-ups and associated activities on the affected boilers as required by Condition 7.3.5(b) and (c).

- e. Hours of operation on the calendar year basis when firing fuel oil and the reason for each time period (hr/period and hr/yr);
- f. Monthly and annual emissions of regulated air pollutants; and
- g. Results of the required opacity observations and emission tests.

7.3.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected boilers with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Within 30 days after any exceedance of the emission limits identified in Conditions 7.3.3 and 7.3.6 the Illinois EPA shall be notified of such events.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is allowed to switch the fuels fired at the affected boilers if the notification provided to the Illinois EPA 30 days prior the date of switching fuels and such notification shall identify the following pursuant to 40 CFR 63.11225(g):

- a. The name of the owner or operator of the affected source, the location of the source, the boiler(s) that will switch fuels, and the date of the notice.
- b. The currently applicable subcategory under 40 CFR 63 Subpart JJJJJJ.
- c. The date on which the affected boilers became subject to the currently applicable standards of 40 CFR 63 Subpart JJJJJJ.
- d. The date upon which the Permittee will commence the fuel switch.

7.3.12 Compliance Procedures

- a. For the affected boilers, compliance with the applicable standards of Condition 7.3.3 is addressed by the work practices, testing, monitoring, recordkeeping and reporting requirements described in Subsection 7.3.
- b. Compliance with the emission limits in Condition 7.3.6 is addressed by the records required in Condition 7.3.9.

- d. The conditions described above are established in accordance with provisions 39.5(7) of the Act.

7.4 Engines and Turbines

7.4.1 Description

Engines and Turbines are used to produce power for facility needs and for training purposes. Turbines are at the site but not in operational condition.

Note: This narrative description is for informational purposes only and is not enforceable.

7.4.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Engines 238-ICE-1, 238-ICE-3, and ICE-6	Heat Output Capacity Range, hp: 1,000-2,750	1990	None
Engines 238-ICE-7 through ICE-16	Heat Output Capacity (each), hp: 190	N/A	None
Engine 11-ICE-3	Heat Output Capacity, hp: 1,967	1990	None
Turbine 6224-ICE-2	Heat Output Capacity, mmBtu/hr: 9.3	1983	None
Turbine GTG2 (Building 6224)	Heat Output Capacity, 2.5 MW	2001	None
Turbine CTG1-RIMSS	Heat Output Capacity, mmBtu/hr: 4.64	2000	None

7.4.3 Applicable Provisions and Regulations

- a. The "affected engine or turbine" for the purpose of these unit-specific conditions, are the emission units/operations described in Conditions 7.3.1 and 7.3.2.
- b. All affected engines and turbines are subject to the following requirements:
 - i. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as

allowed by 35 IAC 212.123(b) and 212.124 [35 IAC 212.123(a)].

- ii. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm [35 IAC 214.301].
- c. Emissions of SO₂ from the affected Turbine GTG2 shall not exceed either of the following limits:
 - i. No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis [40 CFR 60.333(a)]; or
 - ii. No owner or operator subject to the provisions of this subpart shall burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw) [40 CFR 60.333(b)].
- d. The affected engines are subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines 40 CFR Part 63, Subpart ZZZZ, because the affected engines are stationary RICE at an area source of HAP emissions, pursuant to 40 CFR 63.6580.

7.4.4 Non-Applicability of Regulations of Concern

- a. Emission limit of 35 IAC 218.301 (of 35 IAC Part 218, Subpart G: Use of Organic Material) is not subject to the affected engine/turbine because fuel oil is not an organic material as defined in 35 IAC 211.4250(b).
- b. The affected engines/turbines are not subject to 35 IAC 216.121, emissions of carbon monoxide from fuel combustion emission units, because the affected engines/turbines are not by definition fuel combustion emission units.
- c. The affected engines/turbines are not subject to 35 IAC 217.121, emissions of nitrogen oxides from new fuel combustion emission sources, because the actual heat input of each unit is less than 73.2 MW (250 mmBtu/hr) and the affected engines/turbines are not by definition fuel combustion emission units.
- d. The affected turbines are used as a military training facility and not subject to standards for nitrogen oxides established in the 40 CFR 60.332(a), pursuant to 40 CFR 60.322(g).

- e. This permit is issued based on each affected engine not being subject to 40 CFR 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines because the facility's engines are not spark ignition internal combustion engines.
- f. This permit is issued based on each affected engine not being subject to 40 CFR 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines because the facility's engines do not meet the applicability criteria of 40 CFR 60.4200(a)(2).
- g. This permit is issued based on each affected turbine not being subject to 40 CFR 63 Subpart YYYY, Stationary Combustion Turbine NESHAP because the facility is an area source of HAP emissions.
- h. This permit is issued based on the affected engine/turbine not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM), because affected engine/turbine do not use an add-on control device to achieve compliance with an emission limitation or standard.

7.4.5 Control Requirements and Work Practices

- a. Each affected engines/turbines shall only be operated with No. 2 distillate fuel oil (diesel) as the fuel, pursuant to Section 39.5(7) of the Act.
- b.
 - i. Pursuant to 40 CFR 72.7(a)(3), the affected engines shall burn fuel with an annual average sulfur content of 0.05 percent or less by weight.
 - ii. Pursuant to 40 CFR 72.7(d)(3), the annual average sulfur content limit in Condition 7.1.5(b)(i), shall be calculated using the equation:

$$\%S_{\text{annual}} = \frac{\sum_{n=1}^{\text{last}} \%S_n V_n d_n}{\sum_{n=1}^{\text{last}} V_n d_n}$$

Where:

$\%S_{\text{annual}}$ = Annual average sulfur content of the fuel burned during the year by an affected engine, as a percentage by weight;

$\%S_n$ = Sulfur content of the nth sample of the fuel delivered during the year to an

affected engine, as a percentage by weight;

- V_n = Volume of the fuel in a delivery during the year to an affected engine of which the nth sample is taken, in standard cubic feet;
- d_n = Density of the nth sample of the fuel delivered during the year to an affected engine, in lb per standard cubic foot; and
- n = Each sample taken of the fuel delivered during the year to an affected engine, taken at least once for each delivery; or, for fuel that is delivered during the year to an affected engine continuously by pipeline, at least once each quarter during which the fuel is delivered.

- c. The Illinois EPA shall be allowed to sample all fuels stored at the source, pursuant to Section 39.5(7)(b) of the Act.

7.4.6 Production and Emission Limitations

The Permittee shall not exceed the following operational and emission limits:

- a. Hours of operation for the following affected engines and turbines shall not exceed the following:

Engine/Turbine	Hours of Operation per year
Turbine GTG2	300
Engines 238-ICE-1, 238-ICE-3, 238-ICE-6, and 11-ICE-3	4,000 (each)

- b. Emissions from turbine GTG2 shall not exceed the following limits:

Pollutant	Emissions	
	Lb/hr	Ton/yr
NO _x	38.20	5.73
CO	3.19	0.48
VOM	0.95	0.14
SO ₂	12.36	1.85

- c. The above limitations were established in Permit 00100015, pursuant to 35 IAC Part 203 [T1].

- d. i. Total annual output of all engines operated at the source (with exception of emergency one and those with a rated capacity below 500 bhp) shall not exceed 8 mm bhp-hr on an annual basis.
- ii. These operational limits are established pursuant to 35 IAC 217.388(a)(3)(B) for purposes of applicability avoidance of 35 IAC 217.388(a)(1).

7.4.7 Testing Requirements

The Permittee shall conduct annual opacity observations of each affected engine and turbine by a certified observer in accordance with USEPA Method 9 [Section 39.5(7)(p) of the Act].

7.4.8 Monitoring Requirements

- a. Annual tune-up of the affected engines and turbines shall be performed [Section 39.5(7)(a) of the Act].
- b. Fuel oil sulfur content shall be monitored as follows:
 - i. All engines: fuel oil #2 annual sampling for sulfur content (wt.%) and supplier certification for each new oil shipment [Section 39.5(7)(d) of the Act]; and
 - ii. All turbines: fuel oil #2 annual sampling for sulfur content (wt.%) the following methods shall be used: ASTM D129-00, D2622-98, D4294-02, D1266-98, D5453-00 or D1552-01 [40 CFR 60.335(b)(10)(i)]; or
- c. If the ultra low sulfur fuel oil is used, Condition 7.4.8(b) above does not apply.

7.4.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected engine/turbines, pursuant to Sections 39.5(7)(b) of the Act:

- a. Fuel oil usage (gal) for each turbine and for all engines (total);
- b. Fuel oil sulfur content (wt.%) sampling or certification;
- c. Individual hours of operation for each engine and turbine;
- d. Monthly and annual emissions of regulated air pollutants;
- e. Results of the required opacity observations;
- f. Maintenance/tune-ups logs; and
- g. Total annual output (mm bhp-hr) for all engines.

7.4.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected engine/turbine with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Within 30 days after any exceedance of the emission/production limits identified in Conditions 7.4.3 and 7.4.6, the Illinois EPA shall be notified of such events.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected engine/turbine.

7.4.12 Compliance Procedures

- a. For the affected engine/turbine, compliance with the applicable standards of Condition 7.4.3 is addressed by the work practices, testing, monitoring, recordkeeping and reporting requirements described in Subsection 7.4.
- b. Compliance with the emission limits in Condition 7.4.6 is addressed by the records required in Condition 7.4.9.
- c. The conditions described above are established in accordance with provisions 39.5(7) of the Act.

7.5 Cogeneration Facility

7.5.1 Description

The cogeneration facility has two turbines and two duct burners controlled by a selective catalytic reduction. In addition, the facility has two backup engine generators.

Note: This narrative description is for informational purposes only and is not enforceable.

7.5.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Two Turbines	5.5 MW (each) of power output Operate w/heat recovery steam generators with duct burners (27 mmBtu/hr each)	2005	Selective Catalytic Reduction (SCR) per each turbine
Two Emergency Engine-Generators	2,876 hp (each) of power output	2005	Selective Catalytic Reduction (SCR) per each generator

7.5.3 Applicable Provisions and Regulations

- a. The "affected cogeneration units" for the purpose of these unit-specific conditions, are the emission units/operations described in Conditions 7.5.1 and 7.5.2.
- b. The affected cogeneration units are subject to the following limits and requirements:
 - i. All cogeneration units:
 1. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124 [35 IAC 212.123(a)].
 2. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any

process emission source to exceed 2000 ppm [35 IAC 214.301].

ii. Turbines/Duct Burners:

1. No person shall cause or allow the emission of carbon monoxide into the atmosphere from any fuel combustion emission source to exceed 200 ppm, corrected 50 percent excess air [35 IAC 216.121].

2. For turbines:

No owner or operator shall burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw) [40 CFR 60.333(b)].

3. For burners:

No owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of 215 ng/J (0.50 lb/MMBtu) heat input; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur [40 CFR 60.42c(d)].

7.5.4 Non-Applicability of Regulations of Concern

- a. Emission limit of 35 IAC 218.301 (of 35 IAC Part 218, Subpart G: Use of Organic Material) is not subject to the affected cogeneration units because fuel oil is not an organic material as defined in 35 IAC 211.4250(b).
- b. The affected cogeneration units (except turbine's duct burners) are not subject to 35 Ill. Adm. Code 216.121, emissions of carbon monoxide from fuel combustion emission units, because the affected cogeneration units are not by definition fuel combustion emission units.
- c. The affected cogeneration units are used as a military training facility and not subject to standards for nitrogen oxides established in the 40 CFR 60.332(a), pursuant to 40 CFR 60.332(g).
- d. This permit is issued based on each affected cogeneration units operated at an area source of HAP emissions and not being subject to 40 CFR 63 Subpart ZZZZ, Reciprocating Internal Combustion Engine NESHAP pursuant to 40 CFR 63.6590(b)(3)(vii).

- e. This permit is issued based on each affected cogeneration unit not being subject to 40 CFR 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines because the facility's emergency engines are not spark ignition internal combustion engines.
- f. This permit is issued based on each affected cogeneration unit not being subject to 40 CFR 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines because the facility's engines do not meet the applicability criteria of 40 CFR 60.4200(a)(2).
- g. This permit is issued based on each affected cogeneration unit not being subject to 40 CFR 63 Subpart YYYY, Stationary Combustion Turbine NESHAP because the facility is not a major source of HAPs as based on the limits of Condition 5.6.2.
- h. This permit is issued based on the cogeneration facility not being subject to the requirements of the federal Acid Rain Program in accordance with 40 CFR Part 72.6(b)(4)(i), because the facility does not sell one-third or more of its potential electrical output generated at the facility, pursuant to 40 CFR 72.6(b)(4)(i).
- i. The affected cogeneration units are not subject to 40 CFR Part 64 Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because each affected cogeneration unit does not have potential pre-control device emissions of NO_x that equals or exceeds major source threshold levels.

7.5.5 Control Requirements and Work Practices

- a. Each affected cogeneration units shall only be operated with natural gas and/or fuel oil #2 as the fuel [Section 39.5(7)(a) of the Act].
- b. Startup Provisions
 - i. Subject to the following terms and conditions, the Permittee is authorized to operate the turbines in violation of the applicable opacity standard of Condition 7.5.3(b)(i)(1) during startup. This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization in its application, generally describing the efforts that will be used "...to minimize startup emissions, duration of individual starts, and frequency of startups".
 - ii. This authorization does not relieve the Permittee from the continuing obligation to demonstrate that all reasonable efforts are made to minimize startup

emissions, duration of individual startups and frequency of startups [35 IAC 201.262].

- iii. This authorization only extends for a period of up to 20 minutes following initial firing of fuel during each startup event.
 - iv. The Permittee shall conduct startup of the turbines in accordance with written air pollution control practices/procedures prepared by the manufacturer or the Permittee and maintained at the source for the affected turbines that are specifically developed to minimize emissions from startups. These practices shall be reviewed at least annually and enhanced consistent with good air pollution control practice based on actual operating experience and performance of the turbines.
 - v. The Permittee shall manage the operation of the turbines to provide adequate time for normal startup of the turbines.
 - vi. The Permittee shall maintain the turbines in accordance with written procedures developed and maintained by the Permittee.
 - vii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.5.9 and Condition 7.5.10, respectively.
- c. Inspection of each selective catalytic reduction system shall be conducted in accordance with operating/manual procedures or manufacturer's specification requirements on at least annual basis [Section 39.5(7)(b) of the Act].

7.5.6 Production and Emission Limitations

The Permittee shall not exceed the following operational and emission limits:

- a. Hours of operation of certain affected cogeneration units shall not exceed the following limit:

Units	Hours of Operation per year
Emergency Engine-Generators	2,000 (each)

- b. Fuel oil usage by the affected cogeneration units shall not exceed the following limits:

Units	Fuel Oil Usage (combined for each group of units)	
	Gal/mo	Gal/yr

Turbines	710,000	8,529,000
Duct Burners	274,000	3,298,000
Emergency Engine-Generators	-----	543,200

- c. Emissions from the affected cogeneration units shall not exceed the following limits:

Units	Pollutant	Emissions	
		Lb/hr	Ton/yr
Turbines and Duct Burners (each) (natural gas mode)	NO _x	2.00	-----
	CO	11.63	-----
	VOM	0.41	-----
	SO ₂	0.30	-----
	PM	0.74	-----
Turbines and Duct Burners (each) (fuel oil mode)	NO _x	2.96	-----
	CO	12.09	-----
	VOM	0.41	-----
	SO ₂	5.26	-----
	PM	1.12	-----
Turbines and Duct Burners (total) (all modes of operation)	NO _x	-----	25.1
	CO	-----	99.0
	VOM	-----	3.5
	SO ₂	-----	41.9
	PM	-----	8.8
Emergency Engine-Generators (total for annual rates and individual for hourly rates)	NO _x	8.49	17.0
	CO	1.15	2.30
	VOM	1.00	2.00
	SO ₂	0.94	1.88
	PM	0.47	0.94
All Cogeneration Units (total)	NO _x	-----	42.1
	CO	-----	101.3
	VOM	-----	5.5
	SO ₂	-----	43.8
	PM	-----	9.74

- d. The above limitations were established in Permit 02110039, pursuant to 35 IAC Part 203 [T1].

7.5.7 Testing Requirements

- a. The Permittee shall conduct annual opacity observations of each affected cogeneration unit by a certified observer in accordance with USEPA Method 9 [Section 39.5(7)(p) of the Act].
- b. Pursuant to 39.5(7)(p) of the Act, the Permittee shall conduct the stack tests once in 5 years after the issuance of this permit on the turbines and duct burners by using the following methods:

Location of Sample Points Method 1

Gas Flow and Velocity	Method 2
Flue Gas Weight	Method 3
Moisture	Method 4
SO ₂	Method 6
PM	Method 5
CO	Method 10 or 10B

7.5.8 Monitoring Requirements

- a. Annual tune-up of the affected cogeneration units shall be performed [Section 39.5(7)(a) of the Act].
- b. In lieu of the of the sampling procedures of 40 CFR 60.334(i)(1), the source shall maintain a custom schedule, as required by 40 CFR 60.334(i)(3), and which represents a certification of ultra low sulfur content (less than 0.05 weight percent) in fuel oil as part of the purchase contract agreement with a vendor(s) [40 CFR 60.334(i)(3)].

7.5.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected cogeneration units, pursuant to Sections 39.5(7)(b) and (e) of the Act:

- a. Daily and monthly fuel consumption for the turbines (scf and gallons);
- b. Daily and monthly fuel consumption for the duct burners (scf and gallons);
- c. Annual fuel consumption for the emergency generators (gallons);
- d. Monthly consumption of reagent by the SCR systems (tons total);
- e. Inspection, maintenance and repair logs with dates and the nature of such activities for the turbines (turbine burner, duct burner, and SCR system);
- f. Records of annual tune-ups;
- g. Certification of a sulfur content in the fuel oil;
- h. Date, time and duration of startup with a detailed explanation if the written operating procedures have not been followed;
- i. Monthly and annual emissions of regulated air pollutants; and
- j. Results of opacity readings and stack testing.

7.5.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected cogeneration units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Within 30 days after any exceedance of the emission/production/operating limits identified in Conditions 5.6.1, 7.5.3, 7.5.5 and 7.5.6 the Illinois EPA shall be notified of such events.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected cogeneration units.

7.5.12 Compliance Procedures

- a. For the affected cogeneration unit, compliance with the applicable standards of Condition 7.5.3 is addressed by the work practices, testing, monitoring, recordkeeping and reporting requirements described in Subsection 7.5.
- b. Compliance with the emission limits in Condition 7.5.6 is addressed by the testing procedures of Condition 7.5.7 and the records required in Condition 7.5.9.
- c. The conditions described above are established in accordance with provisions 39.5(7) of the Act.

7.5.13 State-Only Conditions

Pursuant to 35 IAC Part 217, Subpart Q, the Permittee shall comply with the following requirements for the turbines:

- a. The emission concentration limits of NO_x in the discharged gases shall not exceed 42 ppmv (gaseous fuel-fired turbines) or 96 ppmv (liquid fuel-fired turbines), pursuant to 35 IAC 217.388(a)(1)(E) and (F).
- b. The Permittee shall perform inspections and periodic maintenance in accordance with a Maintenance Plan as required by 35 IAC 217.388(a)(4).
- c. The Permittee shall perform testing as required by 35 IAC 217.394(b)(2) and 35 IAC 217.394(c)(2).
- d. The Permittee shall perform monitoring of NO_x concentration in the exhaust as required by 35 IAC 217.394(d)(1) and 35 IAC 217.394(d)(2).

- e. The Permittee shall keep appropriate records as required by 35 IAC 217.396(a).
- f. The Permittee shall fulfill reporting requirements as required by 35 IAC 217.396(c)(1) and (2).

7.6 Petroleum Dry Cleaning Machines

7.6.1 Description

Petroleum dry cleaning machines are serviced for the source's needs.

Note: This narrative description is for informational purposes only and is not enforceable.

7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Four (4) Dry-to-Dry Petroleum Dry Cleaning Machines	75 lb Capacity each	2006	Carbon Cartridge Filters and Condensers
Two (2) Dry-to-Dry Petroleum Dry Cleaning Machines	35 lb Capacity each	2006	Carbon Cartridge Filters and Condensers

7.6.3 Applicable Provisions and Regulations

- a. The "affected dry cleaning machine" for the purpose of these unit-specific conditions, are the emission units/operations described in Conditions 7.6.1 and 7.6.2.
- b. Each affected dry cleaning machine is subject to the following requirements of 35 IAC:
 - i. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124 [35 IAC 212.123(a)].
 - ii. Pursuant to 35 IAC 218.301, no person shall cause or allow the discharge of more than 3.6 kg/hour (8 lbs/hour) of organic material into the atmosphere from any process emission unit.
- c. Each affected dry cleaning machine is subject to the following requirements of the New Source Performance Standards Petroleum Dry Cleaners (NSPS), 40 CFR 60 Subpart JJJ and 40 CFR 60 Subpart A:

- i. Pursuant to 40 CFR 60.622(a), each affected dry cleaning machine shall be a solvent recovery dryer. The solvent recovery dryer(s) shall be properly operated, and maintained.
- ii. Pursuant to 40 CFR 60.622(b), the petroleum solvent filters on the affected dry cleaning machines shall be a cartridge filter. All cartridge filters shall be drained in their sealed housings for at least 8 hours prior to their removal.
- iii. Each affected dry cleaning machine shall be operated in accordance with good air pollution practices to minimize emissions, pursuant to 40 CFR 60.11(d).

7.6.4 Non-Applicability of Regulations of Concern

- a. This permit is issued on the affected dry cleaning machines not being subject to 35 IAC 218.607 through 218.610 pursuant to 35 IAC 218.611 because MTE/PTE from the affected dry cleaning machines are limited in Condition 7.6.6 below the thresholds identified in 35 IAC 218.611.
- b. This permit is issued based on the affected dry cleaning machines not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM), because each dry cleaning machine does not have potential pre-control device emissions of VOM that exceeds major source threshold levels.

7.6.5 Control Requirements and Work Practices

- a. While in operation, emissions from each affected dry cleaning machine shall be continuously vented to a condenser and carbon cartridge filter [Section 39.5(7)(a)]
- b. The Permittee shall operate and maintain the affected dry cleaning machines in accordance with manufacturer's manual and specifications [Section 39.5(7)(a)]

7.6.6 Production and Emission Limitations

- a. Petroleum solvent usage of the affected dry cleaning machines, determined as the difference between solvent delivered to the machine and used solvent shipped offsite for reprocessing or disposal, shall not exceed 1,000 lbs/month and 4.2 tons/year (nominal 1,300 gallons) [T1].
- b. Total emissions of volatile organic materials (VOM) from the affected dry cleaning machines shall not exceed 750 lbs/month and 4.17 tons/year [T1].

- c. Compliance with annual limits shall be determined from a running total of 12 months of data [T1].
- d. The above limitations were established in Permit 05060018, pursuant to 35 IAC Part 203 [T1].

7.6.7 Testing Requirements

The repetition of initial testing of flow rate of recovered solvent at affected dry cleaning machines, as required by 40 CFR 60.624, may be performed by the Permittee or requested by the Illinois EPA, if necessary.

7.6.8 Monitoring Requirements

Monitoring requirements are not set for the affected dry cleaning machines.

7.6.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected dry cleaning machines, pursuant to Sections 39.5(7)(b) and (e) of the Act:

- a. Records of initial performance test and/or a copy of documentation from the manufacturer that each dry cleaning machine has been initially tested [40 CFR 60.622 and 60.624];
- b. Total monthly petroleum solvent usage and the amounts shipped for off-site recovery on the monthly basis; and
- c. Total monthly and annual emissions of VOM with supporting calculations.

7.6.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected dry cleaning machines with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- a. Within 30 days after any exceedance of the emission/production limits identified in Condition 7.6.6 the Illinois EPA shall be notified of such events.
- b. Within 30 days after a failure of ducting emissions to the control device(s) as required by Condition 7.6.5 the Illinois EPA shall be notified of such events.

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected dry cleaning machines.

7.6.12 Compliance Procedures

- a. For the affected dry cleaning machines, compliance with the applicable standards of Condition 7.6.3 is addressed by the work practices, testing, monitoring, recordkeeping and reporting requirements described in Subsection 7.6.
- b. Compliance with the emission limits in Condition 7.6.6 is addressed by the records required in Condition 7.6.9.
- c. The conditions described above are established in accordance with provisions 39.5(7) of the Act.

7.7 Gasoline Storage Tanks and Dispensing Operations

7.7.1 Description

The gasoline storage tanks and associated dispensing operations are used to maintain the source's vehicle fleet.

Note: This narrative description is for informational purposes only and is not enforceable.

7.7.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Gasoline Storage & Dispensing	Building 13 (1 Tank) (capacity 2,000 gal)	N/A	None
	Building 929 (1 tank) (capacity 300 gal)	1974	None
	Building 8150 (3 Tanks) (capacity 2/12,000 gal and 1/15,000 gal)	1995	Stage II Vapor Recovery Systems
	Building 1506/1507 (2 Tanks) (capacity 10,000 gal each)	1997	
	Building 400 (2 Tanks) (capacity 12,500 gal each)	2000	
	Building 3311 (1 Tank) (capacity 300 gal)	N/A	None
	Building 3511A (1 Tank) (capacity 500 gal)	N/A	None
	Building 1517 (2 Tanks) (capacity 60 gal each)	2005	None

7.7.3 Applicable Provisions and Regulations

- a. The "affected gasoline storage tanks" for the purpose of these unit-specific conditions, are the tanks described in Conditions 7.7.1 and 7.7.2.
- b. Pursuant to 35 IAC 218.585(a), (b) and (c), no person shall sell, offer for sale, dispense, supply, offer for supply, or transport for use in Illinois gasoline whose Reid vapor pressure exceeds the following applicable limitations during the regulatory control periods, which shall be May 1 to September 15 for retail outlets, wholesale purchaser-consumer, operations, and all other operations:

- i. The Reid vapor pressure of gasoline, a measure of its volatility, shall not exceed 9.0 psi (62.07 kPa) during the regulatory control period in 1990 and each year thereafter.
 - ii. The Reid vapor pressure of ethanol blend gasolines shall not exceed the limitations for gasoline set forth in subsection (b) of this Section by more than 1.0 psi (6.9 kPa). Notwithstanding this limitation, blenders of ethanol blend gasolines whose Reid vapor pressure is less than 1.0 psi above the base stock gasoline immediately after blending with ethanol are prohibited from adding butane or any product that will increase the Reid vapor pressure of the blended gasoline.
- c. Pursuant to 35 IAC 218.122(b), all affected gasoline storage tanks shall be equipped with a permanent submerged loading pipe.
 - d. Requirements of 35 IAC 218.583 and 218.586 are addressed further in this permit.
 - e. The affected gasoline storage tanks are subject to 40 CFR 63 Subpart CCCCCC, National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities Area Sources. Specific applicable requirements of Subpart CCCCCC are addressed further in this permit.

7.7.4 Non-Applicability of Regulations of Concern

- a. The affected gasoline storage tanks are not subject to 35 IAC 218.301 because the affected gasoline storage tanks do not use organic material as defined in 35 IAC 211.4250(b).
- b. Requirements of 35 IAC 218.583(a)(2) and (a)(3) for a vapor collection system (Stage II control) are not applicable to smaller affected gasoline storage tanks identified in Condition 7.6.2 and not being equipped with such control. This non-applicability is based on the criteria specified in 35 IAC 218.583(b).
- c. This permit is issued based on the affected gasoline storage tanks not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM), because each affected gasoline storage tank does not have potential pre-control device emissions of VOM that exceeds major source threshold levels.

7.7.5 Control Requirements and Work Practices

The Permittee shall operate Stage II Vapor Recovery system by using the following requirements established in the state and federal statutes:

a. 35 IAC 218.583

- i. The vapors displaced from the storage tank during filling are processed by a vapor control system that includes one or more of the following:
 - 1. The tank is equipped with a submerged loading pipe;
 - 2. A vapor collection system that meets the requirements of 35 IAC 218.583(d)(4); and
 - 3. The delivery vessel displays the appropriate sticker pursuant to the requirements 35 IAC 218.584(b) or (d).
- ii. All tank vent pipes are equipped with pressure/vacuum relief valves with the following design specifications:
 - 1. The pressure/vacuum relief valve shall be set to resist a pressure of at least 3.5 inches water column and to resist a vacuum of no less than 6.0 inches water column; or
 - 2. The pressure/vacuum relief valve shall meet the requirements of Section 218.586(c) of this Part.
- iii. Each operator of a gasoline dispensing operation shall:
 - 1. Maintain and operate each vapor control system in accordance with the owner's instructions;
 - 2. Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system;
 - 3. Maintain gauges, meters or other specified testing devices in proper working order;
 - 4. Operate the vapor collection system and delivery vessel unloading points in a manner that prevents:
 - A. A reading equal to or greater than 100 percent of the lower explosive limit (LEL measured as propane) when tested in

accordance with the procedure described in EPA 450/2-78-051 Appendix B incorporated by reference in Section 218.112 of this Part-; and

B. Avoidable leaks of liquid during the filling of storage tanks; and

5. Within 15 business days after discovery of the leak by the owner, operator, or the Illinois EPA, repair and retest a vapor collection system which exceeds the limits of 35 IAC 218.583(d)(4)(A).

b. 35 IAC 218.586(c)

No owner or operator of a gasoline dispensing operation with a monthly gasoline throughput more than 10,000 gallons shall cause or allow the dispensing of motor vehicle fuel at any time from a motor fuel dispenser unless the dispenser is equipped with and utilizes a vapor collection and control system which is properly installed and operated as provided below:

- i. Any vapor collection and control system installed, used or maintained has been CARB certified.
- ii. Any vapor collection and control system utilized is maintained in accordance with the manufacturer's specifications and the certification.
- iii. No elements or components of a vapor collection and control system are modified, removed, replaced or otherwise rendered inoperative in a manner which prevents the system from performing in accordance with its certification and design specifications.
- iv. A vapor collection and control system has no defective, malfunctioning or missing components.
- v. Operators and employees of the gasoline dispensing operation are trained and instructed in the proper operation and maintenance of a vapor collection and control system.
- vi. Instructions are posted in a conspicuous and visible place within the motor fuel dispensing area and describe the proper method of dispensing motor vehicle fuel with the use of the vapor collection and control system.

c. 40 CFR Part 63 Subpart CCCCCC

- i. For the gasoline dispensing facilities with monthly throughput of less than 10,000 gallons of gasoline the permittee shall fulfill at least the following requirements [40 CFR 63.1116(a)]:
 - 1. Minimize gasoline spills;
 - 2. Clean up spills as expeditiously as practicable;
 - 3. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; and
 - 4. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

- ii. For the gasoline dispensing facilities with monthly throughput of 10,000 gallons of gasoline or more, the permittee shall fulfill the following requirements [40 CFR 63.1117(a) and (b)]:
 - 1. All requirements identified in Condition 7.6.5(c)(i) from above;
 - 2. Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the storage tank; and
 - 3. Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the storage tank.

- iii. For the gasoline dispensing facilities with monthly throughput of 100,000 gallons of gasoline or more, the permittee shall fulfill the following requirements [40 CFR 63.1118(a) and (b)]:
 - 1. All requirements identified in Condition 7.6.5(c)(i) and (c)(ii) from above;
 - 2. Each management practice in Table 1 of 40 Part 63 Subpart CCCCCC applicable to the gasoline dispensing facility; and
 - 3. A vapor balance system shall meet either 90 percent emissions reduction or operate using management practices at least as stringent as those in Table 1 of Subpart CCCCCC.

7.7.6 Production and Emission Limitations

- a. Total source's gasoline throughput and VOM emissions from all affected gasoline storage tanks shall not exceed the following limits:

Gasoline Throughput (gal)		VOM Emissions (tons)	
Monthly	Annual	Monthly	Annual
926,000	9,260,000	0.56 t/mo	6.0 t/yr

- b. Compliance with annual limits shall be determined from a running total of 12 months of data [T1].
- c. The above limitations contain revisions to previously issued Permits 00100015 and 97020010. Specifically, gasoline throughput was increased and includes all affected gasoline storage tanks at the source. At the same time, no increase in associated VOM emissions is allowed by this revision [T1R].

7.7.7 Testing Requirements

Each owner or operator, at the time of installation of a vapor balance system required under 40 CFR 63.11118(b)(1), and every 3 years thereafter, shall comply with the following requirements of 40 CFR 63.11120(a)(1) and (2):

- a. The Permittee shall demonstrate compliance with the leak rate and cracking pressure requirements, specified in item 1(g) of Table 1 to 40 CFR Part 63 Subpart CCCCCC, for the pressure-vacuum vent valves installed on the gasoline storage tanks using the test methods identified in 40 CFR 63.11120(a)(1)(i) or 40 CFR 63.11120(a)(1)(ii):
 - i. California Air Resources Board Vapor Recovery Test Procedure TP-201.1E,--Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves, adopted October 8, 2003 (incorporated by reference, see 40 CFR 63.14).
 - ii. Use alternative test methods and procedures in accordance with the alternative test method requirements in 40 CFR 63.7(f).
- b. The Permittee shall demonstrate compliance with the static pressure performance requirement, specified in item 1(h) of Table 1 to 40 CFR Part 63 Subpart CCCCCC, for the vapor balance system by conducting a static pressure test on the gasoline storage tanks using the test methods identified in 40 CFR 63.11120(a)(2)(i) or 40 CFR 63.11120(a)(2)(ii):
 - i. California Air Resources Board Vapor Recovery Test Procedure TP-201.3,--Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities, adopted April 12, 1996, and amended March 17, 1999 (incorporated by reference, see 40 CFR 63.14).
 - ii. Use alternative test methods and procedures in accordance with the alternative test method requirements in 40 CFR 63.7(f).
- b. Pursuant to 35 IAC 218.583(a)(4), the Permittee shall demonstrate compliance with subsection 218.583(a)(3) after

installation of each pressure/vacuum relief valve, and at least annually thereafter, by measuring and recording the pressure indicated by a pressure/vacuum gauge at each tank vent pipe. The test shall be performed on each tank vent pipe within two hours after product delivery into the respective storage tank. For manifold tank vent systems, observations at any point within the system shall be adequate.

7.7.8 Monitoring Requirements

The Permittee shall perform the following monitoring pursuant to Sections 39.5(7)(a) and (d) of the Act.

- a. The Permittee shall perform semi-annual inspections of each gasoline storage tank and dispensing operation while the tank is being filled.
 - i. Retractors, hoses, breakaways, swivels
 - ii. Adapters, vapor caps, rubber gaskets, and spill containment buckets
 - iii. Submerged loading pipe is physically present and the condition of the pipe for integrity.

7.7.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected gasoline storage tanks, pursuant to Sections 39.5(7)(b) and (e) of the Act:

- a. Any gasoline dispensing operation subject to 35 IAC 218.586(c) shall retain at the operation copies of the registration information required at 35 IAC 218.586(h).
- b. Records and reports shall be made available to the Illinois EPA upon request. Records and reports, which shall be maintained by the owner or operator of the gasoline dispensing operations shall clearly demonstrate:
 - i. That a certified vapor collection and control system has been installed and tested to verify its performance according to its specifications.
 - ii. That proper maintenance has been conducted in accordance with the manufacturer's specifications and requirements.
 - iii. The time period and duration of all malfunctions of the vapor collection and control system.
 - iv. The motor vehicle fuel throughput of the operation for each calendar month of the previous year.

- v. That operators and employees are trained and instructed in the proper operation and maintenance of the vapor collection and control system and informed as to the potential penalties associated with the violation of any provision of 35 IAC 218.586.
- c. Readily accessible records of dimensions and analysis of the capacity of each storage tank and test results.
- d. Records of the tests performed under 40 CFR 63.11120(a) and (b).
- e. Certification from a gasoline supplier on the gasoline characteristics.
- f. Total monthly and annual gasoline throughput (gallons/month and gallons/year).
- g. Total monthly and annual emissions of VOM.
- h. Records of required semi-annual inspections.

7.7.10 Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected gasoline storage tanks with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Within 30 days after any exceedance of the limits identified in Conditions 7.7.3 and 7.7.6 the Illinois EPA shall be notified of such events.

- b. Pursuant to 40 CFR 63.11126, the Permittee subject to the management practices in 40 CFR 63.11118 shall report to the Illinois EPA the results of all volumetric efficiency tests required under 40 CFR 63.11120(b). Reports shall be submitted within 180 days of the completion of the performance testing.

7.7.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected gasoline storage tanks.

7.7.12 Compliance Procedures

- a. Compliance with the applicable standards of Condition 7.7.3 is addressed by the work practices, testing, monitoring, recordkeeping and reporting requirements described in Subsection 7.7.

- b. Compliance with the applicable requirements of Condition 7.7.5 shall be achieved by the records required by Condition 7.7.9.
- c. Compliance with the emission limits in Condition 7.7.6 is addressed by the records required in Condition 7.7.9.
- d. The conditions described above are established in accordance with provisions 39.5(7) of the Act

8.0 GENERAL PERMIT CONDITIONS

8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after May 31, 2011, unless this permit has been modified to reflect such new requirements.

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

8.3 Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes that contravene express permit terms without applying for or obtaining an amendment to this permit, provided that [Section 39.5(12)(a)(i) of the Act]:

- a. The changes do not violate applicable requirements;
- b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements;

- c. The changes do not constitute a modification under Title I of the CAA;
- d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and
- e. The Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change. This notice shall:
 - i. Describe the physical or operational change;
 - ii. Identify the schedule for implementing the physical or operational change;
 - iii. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;
 - iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
 - v. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Conditions 8.6.3 and 8.6.4.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

Reports summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Illinois EPA every six months as follows, unless more frequent submittal of

such reports is required in Sections 5 or 7 of this permit [Section 39.5(7)(f) of the Act]:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January - June	July 31
July - December	January 31

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7)(a) of the Act. The notification shall include at a minimum:

- a. The name and identification of the affected unit(s);
- b. The person(s) who will be performing sampling and analysis and their experience with similar tests;
- c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;
- d. The specific determinations of emissions and operation that are intended to be made, including sampling and monitoring locations;
- e. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods;
- f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and
- g. Any proposed use of an alternative test method, with detailed justification.

8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

- a. The name and identification of the affected unit(s);
- b. The date and time of the sampling or measurements;
- c. The date any analyses were performed;
- d. The name of the company that performed the tests and/or analyses;
- e. The test and analytical methodologies used;
- f. The results of the tests including raw data, and/or analyses including sample calculations;
- g. The operating conditions at the time of the sampling or measurements; and
- h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

8.6.4 Reporting Addresses

- a. Unless otherwise specified in the particular provision of this permit or in the written instructions distributed by the Illinois EPA for particular reports, reports and notifications shall be sent to the Illinois EPA - Air Compliance Unit with a copy sent to the Illinois EPA - Air Regional Field Office.
- b. As of the date of issuance of this permit, the addresses of the offices that should generally be utilized for the submittal of reports and notifications are as follows:

- i. **Illinois EPA - Air Compliance Unit**

Illinois Environmental Protection Agency
 Bureau of Air
 Compliance & Enforcement Section (MC 40)
 1021 North Grand Avenue East
 P.O. Box 19276
 Springfield, Illinois 62794-9276

- ii. **Illinois EPA - Air Quality Planning Section**

Illinois Environmental Protection Agency
Bureau of Air
Air Quality Planning Section (MC 39)
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

iii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

iv. USEPA Region 5 - Air Branch

USEPA (AR - 17J)
Air & Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604

- c. Permit applications should be addressed to the Air Permit Section. As of the date of issuance of this permit, the address of the Air Permit Section is as follows:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
1021 North Grand Avenue East
P.O. Box 19506
Springfield, Illinois 62794-9506

8.7 Title I Conditions

Notwithstanding the expiration date on the first page of this CAAPP permit, Title I conditions in this permit, which are identified by a T1, T1N, or T1R designation, remain in effect until such time as the Illinois EPA takes action to revise or terminate them in accordance with applicable procedures for action on Title I conditions. This is because these conditions either: (a) incorporate conditions of earlier permits that were issued by the Illinois EPA pursuant to authority that includes authority found in Title I of the CAA (T1 conditions), (b) were newly established in this CAAPP permit pursuant to authority that includes such Title I authority (T1N conditions), or (c) reflect a revision or combination of conditions established in this CAAPP permit (T1R conditions). (See also Condition 1.5.)

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule.

9.1.2 In particular, this permit does not alter or affect the following [Section 39.5(7)(j)(iv) of the Act]:

- a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and
- d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Section 39.5(7)(j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

9.2 General Obligations of Permittee

9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner unless an alternate schedule for compliance with the applicable requirement is established.

9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless this permit provides for such continued operation consistent with the Act and applicable Illinois Pollution Control Board regulations [Section 39.5(6)(c) of the Act].

9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under.

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois, 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents as may be required by law and in accordance with constitutional limitations, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Sections 4 and 39.5(7)(a) and (p)(ii) of the Act]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment),

practices, or operations regulated or required under this permit;

- d. Sample or monitor any substances or parameters at any location:
 - i. At reasonable times, for the purposes of assuring permit compliance or applicable requirements; or
 - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants authorized by this permit; and
- f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

9.4 Obligation to Comply with Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

9.5 Liability

9.5.1 Title

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

9.5.2 Liability of Permittee

This permit does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the sources.

9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

9.6 Recordkeeping

9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

9.6.3 Retention of Records

- a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].
- b. Other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a particular permit provision.

9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Air Quality Planning Section no later than May 1 of the following year, as required by 35 IAC Part 254. The regulated air pollutants (including HAP's) from the entire source and individual emission units or group of emission units have to be addressed in the Annual Emission Report and calculated as recommended in Condition 5.12.1(b).

9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Unit, Air Regional Field Office, and USEPA Region 5 - Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

- a. The certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.
- c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act and applicable regulations [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as Attachment 1 to this permit.

9.10 Defense to Enforcement Actions

9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

9.10.2 Emergency Provision

- a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence [Section 39.5(7)(k) of the Act]:

- i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency.

Note: For this purpose, emergency means a situation arising from sudden and reasonably unforeseeable events beyond the control of the source, as further defined by Section 39.5(7)(k)(iv) of the Act.

- ii. The permitted source was at the time being properly operated;

- iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.
- b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations [Section 39.5(7)(k)(iv) of the Act].

9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

9.12 Reopening and Reissuing Permit for Cause

9.12.1 Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7)(o)(iii) of the Act].

9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

- a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit.
- b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program.

- c. The Illinois EPA or USEPA determines that this permit contains a material mistake or that inaccurate statement were made in establishing the emission standards or limitations, or other terms or conditions of this permit.
- d. The Illinois EPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation and reissuance under Section 39.5(15) of the Act, pursuant to Sections 39.5(5)(e) and (i) of the Act.

9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7)(o)(v) of the Act].

9.13 Severability Clause

The provisions of this permit are severable. In the event of a challenge to any portion of the permit, other portions of the permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7)(i) of the Act].

9.14 Permit Expiration and Renewal

Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of this CAAPP permit will remain in effect until the issuance of a renewal permit [Section 39.5(5)(1) and (o) of the Act].

Note: Pursuant to Sections 39.5(5)(h) and (n) of the Act, upon submittal of a timely and complete renewal application, the permitted source may continue to operate until final action is taken by the Illinois EPA on the renewal application, provided, however, that this protection shall cease if the applicant fails to submit any additional information necessary to evaluate or take final action on the renewal application as requested by the Illinois EPA in writing. For a renewal application to be timely, it must be submitted no later than 9 months prior to the date of permit expiration.

9.15 General Authority for the Terms and Conditions of this Permit

The authority for terms and conditions of this permit that do not include a citation for their authority is Section 39.5(7)(a) of the Act, which provides that the Illinois EPA shall include such provisions in a CAAPP permit as are necessary to accomplish the purposes of the Act and to assure compliance with all applicable requirements. Section 39.5(7)(a) of the Act is also another basis of authority for terms and conditions of this permit that do include a specific citation for their authority.

Note: This condition is included in this permit pursuant to Section 39.5(7)(n) of the Act.

10.0 ATTACHMENTS

Attachment 1 Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

Attachment 2 Compliance Assurance Monitoring (CAM) Plan

There are no specific emission units that require a CAM plan as identified in the Monitoring Requirements of Subsection 8 for each Section 7, Unit Specific Conditions for Specific Emission Units.

Attachment 3 Guidance

The Illinois has prepared guidance for sources on the Clean Air Act Permit Program (CAAPP) that is available on the Internet site maintained by the Illinois EPA, www.epa.state.il.us. This guidance includes instructions on applying for a revision or renewal of the CAAPP permit.

Guidance On Revising A CAAPP Permit:

www.epa.state.il.us/air/caapp/caapp-revising.pdf

Guidance On Renewing A CAAPP Permit:

www.epa.state.il.us/air/caapp/caapp-renewing.pdf

The application forms prepared by the Illinois EPA for the CAAPP are also available from the Illinois EPA's Internet site:

www.epa.state.il.us/air/caapp/index.html

These CAAPP application forms should also be used by a CAAPP source when it applies for a construction permit. For this purpose, the appropriate CAAPP application forms and other supporting information, should be accompanied by a completed Application For A Construction Permit form (199-CAAPP) and Fee Determination for Construction Permit Application form (197-FEE):

www.epa.state.il.us/air/caapp/199-caapp.pdf

www.epa.state.il.us/air/permits/197-fee.pdf

AB:psj