

<b>Maine Correctional Center</b>	)	<b>Departmental</b>
<b>Cumberland County</b>	)	<b>Findings of Fact and Order</b>
<b>South Windham, Maine</b>	)	<b>Air Emission License</b>
<b>A-129-71-F-M</b>	)	<b>Amendment #1</b>

After review of the air emission license minor revision application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A, Section 344 and Section 590, the Department finds the following facts:

**I. REGISTRATION**

Maine Correctional Center in South Windham, Maine has submitted a minor revision request to add an emergency diesel generator, miscellaneous woodworking operations, and a solvent parts washer to the facility's license. The emergency diesel generator is rated at 85 kW (0.89 MMBtu/hr).

Air emission license A-129-71-E-N, issued to Maine Correctional Center on August 8, 2000, currently includes two boilers and two generators.

The addition of the proposed generator and the woodworking process to the license has been classified as a minor revision. Emissions from these operations are less than 4 tons/year of any single pollutant and 8 tons/year total pollutants.

**II. MINOR REVISION DESCRIPTIONS**

A. Emergency Diesel Generator

Maine Correctional Center has proposed to install a 0.89 MMBtu/hr (6.5 gal/hr) diesel fired generator. The unit will be used for emergency purposes only.

BACT for the generator shall be the firing of 0.05% sulfur diesel fuel and an operational limit of 500 hours/year limit, based on a 12 month rolling total. The BACT emission limits for the generator were based on the following:

- PM/PM<sub>10</sub> – 0.31 lb/MMBtu, AP-42, Table 3.3-1
- SO<sub>2</sub> – combustion of 0.05% sulfur diesel fuel oil
- NO<sub>x</sub> – 4.41 lb/MMBtu, AP-42 Table 3.3-1
- CO – 0.95 lb/MMBtu, AP-42, Table 3.3-1
- VOC – 0.36 lb/MMBtu, AP-42, Table 3.3-1

Opacity from the generator shall not exceed 20% opacity on a 6 minute block average, except for no more than 2 six minute block averages in a 3 hour period.

The definition of emergency for this license is the following, per Chapter 100 of the Department’s regulations:

“... any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology based emission limitation under the license, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.”

**B. Woodworking Operations**

Maine Correctional Center has woodworking shop with milling equipment. The milling equipment is ducted to a knockout box outside the building. The knockout box vents back into the building through a small louvered opening. Inside the building there are two ceiling mounted ‘Torit’ baghouses used to clean the shop air.

BACT for particulate emissions from the woodworking process shall be a fugitive opacity limit from the knockout box area of 10% on a six (6) minute block average basis, except for no more than 1 six minute block average in a one hour period. The facility shall take corrective action if visible emissions from the woodworking building exceeds 5% opacity.

**C. Degreaser Unit**

The parts washer in the maintenance building has a design capacity of 30 gallons. Records shall be kept of solvent added and removed. Maine Correctional Center shall comply with the applicable requirements of Chapter 130 of the Department’s regulation.

**ORDER**

Based on the above Findings and subject to conditions listed below the Department concludes that the emissions from this source:

Maine Correctional Center )  
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- will receive Best Practical Treatment,
- will not violate applicable emission standards, and
- will not violate applicable ambient air quality standards, or increment standards either alone or in conjunction with emissions from other sources.

Therefore the Department grants this amendment A-129-71-F-M, subject to the conditions found in air emission license A-129-71-E-N in addition to the following conditions:

**New Conditions:**

(25) Emergency Diesel Generator

- a. The emergency diesel generator (0.89 MMBtu/hr) shall be operated less than 500 hours per year, based on a 12 month rolling total.
- b. Maine Correctional Center shall maintain records of the hourly operation of the emergency diesel unit on a 12 month rolling total basis. Fuel receipts from the diesel supplier certifying the sulfur content of the oil shall be kept for a minimum of 6 years.
- c. The diesel fuel shall be limited to a maximum sulfur content of 0.05%.
- d. Emissions from the generator shall not exceed the following limits:

<u>Pollutant</u>	<u>Lb/hr</u>	<u>Tpy</u>
PM	0.28	0.07
PM <sub>10</sub>	0.28	0.07
SO <sub>2</sub>	0.04	0.01
NO <sub>x</sub>	3.92	0.98
CO	0.85	0.21
VOC	0.32	0.08

- e. The generator shall not exceed an opacity of 20% on a 6 minute block average basis, except for no more than 2 six minute block averages in a continuous 3 hour period.

(26) Woodworking Operations

Emissions from the woodworking operations, including the knockout box area, shall not exceed 10% on a six (6) minute block average basis, except for no more than 1 six minute block average in a one hour period. The facility shall take corrective action if visible emissions outside the woodworking building exceeds 5% opacity.

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- (27) Parts Washer  
Maine Correctional Center shall label the parts washer with operational standards, equip the washer with cover if vapor pressure >15 mmHG at 100°F, close cover when not in use, drain parts for 15 seconds or longer, shall not degrease porous material, keep drafts < 40 m/minute, repair leaks, and keep records of solvent added and removed per Chapter 130 of the Department's regulations.
- (28) The term of this order shall be concurrent with the term of air emission license A-129-71-E-N.

DONE AND DATED IN AUGUSTA, MAINE THIS            DAY OF            2001.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_  
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: May 16, 2001

Date of application acceptance: May 25, 2001

Date filed with Board of Environmental Protection: \_\_\_\_\_

This order prepared by Kathleen E. Neil, Bureau of Air Quality.