



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



May 13, 1985



Avco Lycoming
Stratford Army Engine Plant
550 South Main Street
Stratford, CT 06497

Attention: Mr. Peter Bonitatebus, Manager Engineering

RE: Public Notice of Intent
Avco Lycoming
Stratford, Connecticut
DEP/WPC No. 138-023
State Application No. 85-037
NPDES No. CT0002984

Gentlemen:

Enclosed please find the enclosed Public Notice of Intent and draft NPDES Permit for your facility. The Public Notice should be published, once in the legal notice section of the Bridgeport Post no more than fourteen (14) days from the date of this letter.

The Water Compliance Unit should be sent a copy of your letter to the newspaper immediately. Verification of publication, including the Public Notice, the date of publication and the newspaper, should be provided as soon as it becomes available. Only after the Department has received this information can the permitting process proceed.

Please be aware that pursuant to Section 22a-430-6 of the Regulations of Connecticut State Agencies that the Department of Environmental Protection, Water Compliance Unit is no longer responsible for the costs involving the publication of your Public Notice. This cost must now be born by the applicant.

If you have any questions, please do not hesitate to call me at 566-2719 or 566-5903.

Sincerely,

Lorraine R. McCaffrey
Staff Assistant
Department of Environmental Protection
Water Compliance Unit
122 Washington St.
Hartford, CT 06106

Phone:

165 Capitol Avenue • Hartford, Connecticut 06106

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STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



NPDES PERMIT

Avco Lycoming - Stratford Army Engine Plant
 550 South Main Street
 Stratford, CT 06497

DRAFT
FOR REVIEW ONLY

Attention: Mr. Peter Bonitatebus, Manager
 Engineering

Re: DEP/WPC-138-023
 Town of Stratford
 Housatonic River Watershed

Gentlemen:

This permit is issued in accordance with Subsection e of Section 22a-430 of Chapter 446k, Connecticut General Statutes and Section 402(b) of the Federal Water Pollution Control Act, as amended, 33 USC 1251, et. seq. and pursuant to an approval dated September 26, 1973 by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer an NPDES permit program.

This action is further found to be consistent with the applicable policies of the Connecticut Coastal Management Act (Section 22a-92 of the Connecticut General Statutes, as amended by Section 2 of Public Act 79-535).

The Commissioner has determined that compliance with this permit will ensure that best available technology economically achievable is achieved.

The Commissioner has determined that Avco Lycoming is in full compliance with the provisions of Order No. 2453 entered on May 20, 1980. The Commissioner, acting under Section 22a-430, hereby permits Avco Lycoming to discharge stormwater, cooling water, boiler blowdown and treated metal finishing wastewaters in accordance with the following conditions.

- 1) The wastewater shall be collected, treated and discharged in accordance with the plans and specifications approved by the Assistant Deputy Commissioner on May 31, 1984 and the authorization of the Commissioner dated
- 2) The discharges described in this permit shall not exceed and shall otherwise conform to the specific terms and general conditions specified herein:
 - A) Discharge Serial No. 001, 002, 003, 004, 005, 006
 Description - Intermittent stormwater (code 1080000)
 Receiving Stream - Housatonic River (basin code 6000)
 Present/Future Water Quality Standard - SC/SB
 Average Daily Flow (wet weather) - Intermittent

Phone:

165 Capitol Avenue • Hartford, Connecticut 06106

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<u>Parameter</u>	<u>Code</u>	<u>Maximum Daily Concentration</u>	<u>Average Monthly Concentration</u>
Total Oil and Grease	622	15.0 mg/l	10.0 mg/l
Phenols	820	0.2 mg/l	0.1 mg/l
Total Suspended Solids	614	30.0 mg/l	20.0 mg/l

1. The pH of the discharge shall not be less than 6.0 or greater than 9.0. (code 609)
2. The discharge shall not contain or cause in the receiving stream a visible oil sheen or floating solids.
3. The discharge shall not cause visible discoloration or foaming in the receiving waters beyond any zone of influence as provided in the "Connecticut Water Quality Standards & Criteria" adopted September 9, 1980.
4. The temperature of the discharge shall not increase the temperature of the receiving stream above 85 degrees F or raise the normal temperature of the receiving stream more than 4 degrees F beyond any zone of influence as provided in the "Connecticut Water Quality Standards & Criteria" adopted September 9, 1980.
5. The maximum daily concentration specified above shall not be exceeded by more than a factor of 1.5 at any time as measured by a grab sample.

B) Discharge Serial No. 007

Description - Non-contact cooling water and boiler blowdown, stormwater (code 108000C)

Receiving Stream - Housatonic River (basin code 6000)

Present/Future Water Quality Standard - SC/SB

Average Daily Flow - 1,836,000 gallons per day

Design Flow Rate - 4,166 gallons per minute

<u>Parameter</u>	<u>Code</u>	<u>Maximum Daily Concentration</u>	<u>Average Monthly Concentration</u>
Total Oil and Grease	622	15.0 mg/l	10.0 mg/l
Phenols	820	0.2 mg/l	0.1 mg/l
Total Suspended Solids	614	30.0 mg/l	20.0 mg/l

1. The pH of the discharge shall not be less than 6.0 or greater than 9.0. (code 609)
2. The discharge shall not contain or cause in the receiving stream a visible oil sheen or floating solids.
3. The discharge shall not cause visible discoloration or foaming in the receiving waters beyond any zone of influence as provided in the "Connecticut Water Quality Standards & Criteria" adopted September 9, 1980.
4. The temperature of the discharge shall not increase the temperature of the receiving stream above 85 degrees F or raise the normal temperature of the receiving stream more than 4 degrees F beyond any zone of influence as provided in the "Connecticut Water Quality Standards & Criteria" adopted September 9, 1980.
5. The maximum daily concentration specified above shall not be exceeded by more than a factor of 1.5 at any time as measured by a grab sample.

C) Discharge Serial No. 008

Description - Treated metal finishing wastewaters (code 101035Z)

Receiving Stream - Housatonic River (basin code 6000)

Present/Future Water Quality Standard - SC/SB

Average Daily Flow - 190,000 gallons per day

Design Flow Rate - 400 gallons per minute

<u>Parameter</u>	<u>Code</u>	<u>Maximum Daily Concentration</u>	<u>Average Monthly Concentration</u>
Cadmium	107	0.5 mg/l	0.1 mg/l
Chromium, Total	109	2.0 mg/l	1.0 mg/l
Chromium, Hexavalent	108	0.2 mg/l	0.1 mg/l
Copper	111	2.0 mg/l	1.0 mg/l
Nickel	119	2.0 mg/l	1.0 mg/l
Iron	113	4.0 mg/l	2.0 mg/l
Zinc	127	2.0 mg/l	1.0 mg/l
Total Suspended Solids	614	20.0 mg/l	15.0 mg/l
Total Toxic Organics	628	1.0 mg/l	-

1. The pH of the discharge shall not be less than 6.0 or greater than 10.0. (code 609)
2. The discharge shall not contain or cause in the receiving stream a visible oil sheen or floating solids.
3. The discharge shall not cause visible discoloration or foaming in the receiving waters beyond any zone of influence as provided in the "Connecticut Water Quality Standards & Criteria" adopted September 9, 1980.
4. The temperature of the discharge shall not increase the temperature of the receiving stream above 85 degrees F or raise the normal temperature of the receiving stream more than 4 degrees F beyond any zone of influence as provided in the "Connecticut Water Quality Standards & Criteria" adopted September 9, 1980.
5. The maximum daily concentration specified above shall not be exceeded by more than a factor of 1.5 at any time as measured by a grab sample.

D) Discharge Serial No. 008A

Description - Cyanide wastewaters after pretreatment (code 101035N)

Receiving Stream - Housatonic River (basin code 6000)

Present/Future Water Quality Standard - SC/SB

Average Daily Flow - 1,600 gallons per day

<u>Parameter</u>	<u>Code</u>	<u>Maximum Daily Concentration</u>
Cyanide, Amenable	504	0.32 mg/l -
Cyanide, Total	505	0.65 mg/l -

1. The pH of the discharge shall not be less than 6.0 or greater than 10.0. (code 609)
2. The maximum daily concentration specified above shall not be exceeded by more than a factor of 1.5 at any time as measured by a grab sample.

3) This permit authorizes the discharge of wastewater pollutants as described in paragraph 2 above and in the permit application submitted by Avco Lycoming - Stratford Army Engine Plant on February 1, 1985. The discharge of any such pollutants in quantities or concentrations greater than those so authorized or the discharge of any other pollutant in a quantity or concentration which has or may have an adverse impact on the receiving waters is prohibited.

4) The discharges shall be monitored and results reported to the Director of Water Compliance by the 10th of each month according to the following schedule:

A) Discharge Serial Nos. 001, 002, 003, 004, 005 and 006

<u>Parameter</u>	<u>Code</u>	<u>Minimum Frequency of Sampling</u>	<u>Sample Type</u>
Total Oil and Grease	622	Monthly(if discharge occurs)	Daily Composite
Phenols	820	Monthly(if discharge occurs)	Daily Composite
Total Suspended Solids	614	Monthly(if discharge occurs)	Daily Composite
pH	609	Monthly(if discharge occurs)	Range during composite

1. Record the total flow (code 626) and number of hours of discharge (code 629) for each day of sample collection.
2. The report shall include a detailed explanation of any violations of the limitations specified in paragraph 2 above.

B) Discharge Serial No. 007

<u>Parameter</u>	<u>Code</u>	<u>Minimum Frequency of Sampling</u>	<u>Sample Type</u>
Total Oil and Grease	622	Monthly	Daily Composite
Phenols	820	Monthly	Daily Composite
Total Suspended Solids	614	Monthly	Daily Composite
pH	609	Monthly	Range during composite
1,1,1 Trichloroethane	460	Monthly	Daily Composite
Toluene	881	Monthly	Daily Composite

C) Discharge Serial No. 008

<u>Parameter</u>	<u>Code</u>	<u>Minimum Frequency of Sampling</u>	<u>Sample Type</u>
Cadmium	107	Weekly	Daily Composite
Chromium, Total	109	Weekly	Daily Composite
Chromium, Hexavalent	108	Weekly	Daily Composite
Copper	111	Weekly	Daily Composite
Nickel	119	Weekly	Daily Composite
Iron	113	Weekly	Daily Composite
Zinc	127	Weekly	Daily Composite
Cyanide, Total	505	Weekly	Daily Composite
Total Suspended Solids	614	Weekly	Daily Composite
Total Toxic Organics	628	Weekly	Daily Composite
pH	609	Weekly	Range during composite

1. Record the total flow (code 626) and number of hours of discharge (code 629) for each day of sample collection.
2. The report shall include a detailed explanation of any violations of the limitations specified in paragraph 2 above.
- ✓3. In lieu of analyzing for total toxic organics, each monthly report may include a statement certifying compliance with a Solvent Management Plant in accordance with 40 CFR 433.12 Metal Finishing. Yes.

D) Discharge Serial No. 008A

<u>Parameter</u>	<u>Code</u>	<u>Minimum Frequency of Sampling</u>	<u>Sample Type</u>
Cyanide, Amenable	504	Weekly	Grab
Cyanide, Total	505	Weekly	Grab
pH	609	Weekly	Grab

1. Record the total flow (code 626) for each day of sample collection.
2. The report shall include a detailed explanation of any violations of the limitations specified in paragraph 2 above.

5) The treatment facilities or any part thereof shall not be bypassed at any time without the prior written approval of the Commissioner unless such bypass is unavoidable to prevent loss of life, personal injury or severe property damage. If any part of the waste treatment or collection facilities becomes inoperative at any time, the Water Compliance Unit shall be notified immediately during normal business hours (8:30 a.m. to 4:30 p.m. Monday through Friday), or on the next business day if the incident occurs outside these hours. A written report shall follow, giving the cause of the problem, duration and corrective measures taken.

6) The disposal of screenings, sludges and other solids or oils and other liquid chemical wastes shall be at locations approved in accordance with the provisions of Chapter 446k of the Connecticut General Statutes or to waste haulers licensed under Chapter 446k of the Connecticut General Statutes.

7) Process controls or such other means or facilities as approved by the Assistant Deputy Commissioner on May 31, 1984 shall be maintained to insure that no discharge of untreated or partially treated wastewaters will occur during a failure of the primary power source.

This permit shall be considered as the permit required by Section 402 of the Federal Water Pollution Control Act and Section 22a-430 of the Connecticut General Statutes and shall expire on

This permit shall be subject to all NPDES General Conditions dated April 27, 1979 which are hereby incorporated into this permit, except as superceded by the following definitions:

- A. "Average Monthly Concentration" means the average concentration of all Daily Composite samples taken in a particular month.
- B. "Maximum Daily Concentration" means the maximum concentration allowed in a Daily Composite sample.

- C. "Daily Composite" means a composite sample taken over a full operating day for as long as the discharge exists on that day.
- D. "Composite" means a mixture of aliquot samples collected at regular intervals over a time period, proportional to flow or the sampling interval (for constant volume samples), or a sample collected continuously, proportional to flow over the same time period.

The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance or other provisions which may be authorized under the Clean Water Act in order to bring all discharges not in compliance with the Clean Water Act.

Entered as a permit of the Commissioner on

Stanley J. Pac
COMMISSIONER

NPDES No. CT 0002984

State Application No. 85-037