



Department of Energy

Fermi Site Office
Post Office Box 2000
Batavia, Illinois 60510

SEP 23 2009

Dr. Nancy Grossman, Director
Environment, Safety and Health
Fermilab
P.O. Box 500
Batavia, IL 60510

Dear Dr. Grossman:

SUBJECT: JOINT CONSTRUCTION AND OPERATING PERMIT FOR INDUSTRIAL
WASTEWATER PRETREATMENT, INTEGRATED CAVITY PROCESSING
APPARATUS (ICPA) FACILITY AT FERMILAB

Reference: Permit No. 2009-EE-2646: "U.S. Department of Energy-Fermi National
Accelerator Laboratory – Pretreatment System for Metal Finishing Rinsewaters –
Tributary to the City of Batavia Wastewater Treatment Plant," dated
September 18, 2009, enclosed

Enclosed please find a copy of the subject water pollution control permit issued by the Illinois
Environmental Protection Agency for the proposed ICPA. The operational portion of this permit
expires August 31, 2014.

Please adhere to both standard and special conditions identified in the permit, including
semiannual monitoring and annual reporting identified on pages 2 and 3. If you have any
questions, please contact Sally Arnold on extension 2239.

Sincerely,

Dr. Joanna M. Livengood
Site Manager

Enclosure:
As Stated

cc: P. Oddone, w/o encl.
Y. – K. Kim, w/o encl.
B. Chrisman, w/encl.
G. Apollinari, w/encl.
R. Ortgiesen, w/encl.

RECEIVED

SEP 25 2009

Environment,
Safety & Health Section

cc - K. Kosirog ✓

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 2646-08

PERMIT NO.: 2009-EE-2646

FINAL PLANS, SPECIFICATIONS, APPLICATION
AND SUPPORTING DOCUMENTS
PREPARED BY: AECOM Environment

DATE ISSUED: SEP 18 2009

SUBJECT: U.S. DEPARTMENT OF ENERGY - FERMI NATIONAL ACCELERATOR LABORATORY -- Pretreatment System for Metal Finishing Rinsewaters - Tributary to the City of Batavia WWTP

PERMITTEE TO CONSTRUCT, OWN AND OPERATE

U.S. Department of Energy
Fermi National Accelerator Laboratory
P.O. Box 2000
Batavia, Illinois 60510

Permit is hereby granted to the above designated permittee(s) to construct and/or operate water pollution control facilities described as follows:

An new pretreatment system consisting of a 300-gallon equalization tank, a 400-gallon pH neutralization tank, and all pumps, piping, and appurtenances necessary to treat 200 GPD DAF (2 P.E.) of metal finishing rinsewaters with discharge tributary to the City of Batavia Wastewater Treatment Plant.

The operational portion of this permit expires on August 31, 2014.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1: The operation of the pretreatment facilities must be under the direct and active field supervision of a certified industrial treatment plant operator in accordance with the State of Illinois Rules and Regulations, Title 35, Subtitle C, Chapter 1, Part 312.

SPECIAL CONDITION 2: The issuance of this permit does not relieve the permittee of the responsibility of complying with any limitations and provisions imposed by the City of Batavia.

Page 1 of 3

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

SAK:MEL:264609.wpd

DIVISION OF WATER POLLUTION CONTROL

cc: EPA - Des Plaines FOS
AECOM Environment
City of Batavia
Records - Industrial
Binds


Alan Keller, P.E.
Manager, Permit Section

**READ ALL CONDITIONS CAREFULLY:
STANDARD CONDITIONS**

The Illinois Environmental Protection Act (Illinois Revised Statutes Chapter 111-12. Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

1. Unless the construction for which this permit is issued has been completed, this permit will expire (1) two years after the date of issuance for permits to construct sewers or wastewater sources or (2) three years after the date of issuance for permits to construct treatment works or pretreatment works.
2. The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted by the Illinois Pollution Control Board.
3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
4. The permittee shall allow any agent duly authorized by the Agency upon the presentations of credentials:
 - a. to enter at reasonable times, the permittee's premises where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit;
 - b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit;
 - c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit;
 - d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants;
 - e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
5. The issuance of this permit:
 - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;
 - b. 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 proposed facilities;
 - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;
 - d. does not take into consideration or attest to the structural stability of any units or parts of the project;
 - e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
6. Unless a joint construction/operation permit has been issued, a permit for operating shall be obtained from the agency before the facility or equipment covered by this permit is placed into operation.
7. These standard conditions shall prevail unless modified by special conditions.
8. The Agency may file a complaint with the Board for suspension or revocation of a permit:
 - a. upon discovery that the permit application contained misrepresentations, misinformation or false statement or that all relevant facts were not disclosed; or
 - b. upon finding that any standard or special conditions have been violated; or
 - c. upon any violation of the Environmental Protection Act or any Rules or Regulation effective thereunder as a result of the construction or development authorized by this permit.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 2646-08

PERMIT NO.: 2009-EE-2646

FINAL PLANS, SPECIFICATIONS, APPLICATION
AND SUPPORTING DOCUMENTS
PREPARED BY: AECOM Environment

DATE ISSUED: SEP 18 2009

SUBJECT: U.S. DEPARTMENT OF ENERGY - FERMI NATIONAL ACCELERATOR LABORATORY -- Pretreatment System for Metal Finishing Rinsewaters - Tributary to the City of Batavia WWTP

SPECIAL CONDITION 3: The issuance of this permit does not relieve the permittee of the responsibility of complying with 35 Ill. Adm. Code, Part 307 and/or the General Pretreatment Regulations (40 CFR 403) and any guidelines developed pursuant to Section 301, 306, or 307 of the Federal Clean Water Act of 1977. The guidelines developed for the Metal Finishing Point Source Category (40 CFR 433 Subpart A - Metal Finishing Subcategory) limit the pollutants from facilities as follows:

Pollutant	1-Day Max. (Mg/l)	Monthly Avg. (Mg/l)
Cyanide (total)	1.2	0.65
Copper	3.38	2.07
Nickel	3.98	2.38
Chromium (total)	2.77	1.71
Zinc	2.61	1.48
Lead	0.69	0.43
Cadmium	0.11	0.07
Silver	0.43	0.24
TTO	2.13	-----

(A) The compliance date for the metals was February 15, 1986.

(B) These numbers do not reflect a reduction in the numerical limitation due to the contributing flow of sanitary wastes, non-contact cooling water, and other dilutional wastewater not regulated by the limitations.

(C) Cyanide monitoring must take place after cyanide treatment and before dilution with other waste streams unless an adjustment is made to account for the dilution ratio of the cyanide waste stream flow to the effluent flow.

(D) TTO is the total toxic organics in the regulation. Compliance with TTO limitations was required on July 15, 1986.

SPECIAL CONDITION 4: Monitoring Requirements

(A) The permittee shall monitor semi-annually the pollutants listed in Special Condition 3.

(B) Sampling shall be done after the wastewater treatment system prior to entry into the sewer system.

(C) Sampling shall be conducted during a normal working day during normal working hours.

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3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
4. The permittee shall allow any agent duly authorized by the Agency upon the presentations of credentials:
 - a. to enter at reasonable times, the permittee's premises where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit;
 - b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit;
 - c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit;
 - d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants;
 - e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
5. The issuance of this permit:
 - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;
 - b. 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 proposed facilities;
 - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;
 - d. does not take into consideration or attest to the structural stability of any units or parts of the project;
 - e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
6. Unless a joint construction/operation permit has been issued, a permit for operating shall be obtained from the agency before the facility or equipment covered by this permit is placed into operation.
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8. The Agency may file a complaint with the Board for suspension or revocation of a permit:
 - a. upon discovery that the permit application contained misrepresentations, misinformation or false statement or that all relevant facts were not disclosed; or
 - b. upon finding that any standard or special conditions have been violated; or
 - c. upon any violation of the Environmental Protection Act or any Rules or Regulation effective thereunder as a result of the construction or development authorized by this permit.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 2646-08

PERMIT NO.: 2009-EE-2646

FINAL PLANS, SPECIFICATIONS, APPLICATION
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(D) Test results shall be submitted to annually to:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
1021 North Grand Avenue East
P. O. Box 19276
Springfield, Illinois 62794-9276

Illinois Environmental Protection Agency
Bureau of Water - Field Operations
9511 W. Harrison
Des Plaines, Illinois 60016

U.S. Environmental Protection Agency - Region 5
Water Enforcement and Compliance Assurance Branch
Attention: James Coleman
WUC-15J
77 West Jackson Boulevard
Chicago, Illinois 60604

All correspondence shall include the permit number.

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 - c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit;
 - d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants;
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 - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;
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