

ABB Hematite Plant  
Jefferson County  
MO-0000761

10-56

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES

McCamahan, Governor • David A. Shorr, Director

DIVISION OF ENVIRONMENTAL QUALITY  
P.O. Box 176 Jefferson City, MO 65102-0176

July 9, 1993

R

Combustion Engineering, Inc.  
900 Long Ridge Road  
Stamford, CT 06904

Dear Permittee:

State Operating Permit No. MO-0000761 issued on December 11, 1992, is hereby modified as per the attached pages 3 - 6. This modification is to correct a typographical error for the monitoring frequency from monthly to quarterly, and to revise the sludge requirements under the special conditions section of this permit and to add new standard conditions to address current federal regulations for the use and disposal of domestic wastewater treatment sludges. This letter and the revised pages 3 - 6 should be affixed to your permit as your official record and becomes a part thereof.

This modification does not affect any monitoring or analysis of the effluent that may be necessary to comply with other requirements of your permit or other state regulations and does not in any way relieve you of your obligations to achieve the final effluent limitations as provided in the permit.

This permit is both your federal discharge permit and your new state operating permit and replaces all previous state operating permits for this facility. In all future correspondence regarding this facility, please refer to your state operating permit number and facility name as shown on page one of the permit.

If you have any questions concerning this permit, please do not hesitate to call this office or our St. Louis Regional Office, 10805 Sunset Office Drive, Suite 100, St. Louis, Missouri 63127, phone: (314) 822-0101.

Sincerely,

WATER POLLUTION CONTROL PROGRAM



Daniel R. Schuette  
Chief of Permit Section

DRS/lf

Enclosure

cc: EPA - Permit Branch

L-81

NT04  
[Handwritten initials]

9401180042 930702  
PDR ADDON 07060634  
PDR



**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

PAGE NUMBER 3 of 6

PERMIT NUMBER MO-0000761

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001 - (Note 1)</u>						
Flow	MGD	*		*	once/month 24 hr. estimate	
Biochemical Oxygen Demand	mg/l		45	30	once/quarter**	***
Total Suspended Solids	mg/l		45	30	once/quarter**	***
pH - Units	SU	****		****	once/quarter**	grab
Fecal Coliform*****	#/100 ml	1000		400	once/quarter**	grab
Chlorine, Total***** Residual (Note 2)	mg/l	1.0			once/quarter**	grab
<u>Outfall #002</u>						
Flow	MGD	*		*	once/month 24 hr. estimate	
Fluoride	mg/l	2.2		1.2	once/quarter**	grab
Total Suspended Solids	mg/l		45	30	once/quarter**	grab
pH - Units	SU	****		****	once/quarter**	grab
Oil & Grease	mg/l	15		10	once/quarter**	grab
Radioactive Materials (See Special Condition #4)						
Note 1 - The first quarterly report due date for this reissued permit is based on a complete calendar quarter monitoring period. Monitoring shall be reported once per quarter for the entire life of the permit. The permittee is still responsible for reporting for the preceding calendar quarter under the previous permit.						

Note 1 - The first quarterly report due date for this reissued permit is based on a complete calendar quarter monitoring period. Monitoring shall be reported once per quarter for the entire life of the permit. The permittee is still responsible for reporting for the preceding calendar quarter under the previous permit.

MONITORING REPORTS SHALL BE SUBMITTED quarterly; THE FIRST REPORT IS DUE January 28, 1994  
THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

**B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I & III  
STANDARD CONDITIONS DATED October 1 19 80, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 4 of 6

PERMIT NUMBER MO-0000761

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #003</u>						
Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demands	mg/l		45	30	once/month	grab
Total Suspended Solids	mg/l		45	30	once/month	grab
pH - Units	SU	****		****	once/month	grab
Oil and Grease	mg/l	15		10	once/month	grab
Temperature	°F	*****		*****	once/month	grab
Fluoride	mg/l	2.2		1.2	once/month	grab
* Monitoring requirement only.						
** Once per quarter during the months of February, May, August, and November.						
*** A composite sample made up from a minimum of four grab samples collected within a 24 hour period with a minimum of two hours between each grab sample.						
**** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.						
***** Final limitations and monitoring requirements for Fecal Coliform and Total Residual Chlorine are applicable only during the recreational season from April 1 through October 31. Fecal Coliform and Total Residual Chlorine must be measured during May, August and October of each calendar year.						
***** Effluent shall not elevate or depress the temperature of the receiving stream beyond the mixing zone more than five (5°)F. The stream temperature beyond the mixing zone shall not exceed ninety (90°)F due to the effluent.. Temperature shall be monitored at Outfall #002 and upstream of Outfall #003 for comparison purposes.						
Note 2 - When chlorine is used as a disinfectant, the effluent shall be dechlorinated and there shall be no detectable chlorine in the effluent. Samples shall be taken during the months of May, August, and October.						

MONITORING REPORTS SHALL BE SUBMITTED quarterly; THE FIRST REPORT IS DUE January 28, 1994

THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

## B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I & III

STANDARD CONDITIONS DATED October 1 19 80, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

C. SPECIAL CONDITIONS

1. Report as no-discharge when a discharge does not occur during the report period.
2. Permittee is to abandon the treatment facilities described herein and shall connect the tributary waste load to trunk sewers within 90 days of notice of availability if trunk sewers operated by one of the authorities outlined in Section (3)(B) 1 or 2 of Clean Water Commission Regulation 10 CSR 20-6.010 are made available to the site during the time a valid discharge permit exists.
3. This permit may be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2) (C), and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
  - (a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
  - (b) Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

4. The permittee shall monitor for gross alpha and gross beta radiation at the following locations in accordance with the Nuclear Regulatory Commission License #SNM-33:

<u>Location</u>	<u>Frequency</u>	<u>Sample Type</u>
Effluent discharge at the dam (Outfall #002)	weekly	24 hr. composite
Joachim Creek upstream and downstream from the site creek	monthly	grab
Confluence of Joachim Creek and the site creek	quarterly	grab
On-site water supply well	monthly	grab
Hematite water supply well	quarterly	grab

A summary of all radiological monitoring data during January through June, shall be submitted to the Department by August 28 and data collected during July through December shall be submitted by February 28 of each year. Maximum values recorded at each sampling site shall also be submitted.

5. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities - (Outfall #001)
  - (a) This special condition applies only to sludge or biosolids from domestic wastewater treatment facilities.

(continued on next page)

C. SPECIAL CONDITIONS (continued)

5. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities - (Outfall #001)  
(continued)

- (b) Sludge and biosolids shall be removed from the facility on a routine schedule based on operational testing and design capacity.
- (c) Sludge or biosolids use or disposal shall be handled only by the method specified in the permit Facility Description or other sections of this permit.
- (d) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions, Part III dated June 22, 1993.
- (e) Site-Specific conditions applicable to this facility are as follows: N/A

6. Industrial Sludge Disposal - (Outfalls #001, #002, and #003)

- (a) Disposal of industrial sludge is not authorized by this permit. Industrial sludge shall be disposed at a permitted solid waste disposal facility in accordance with 10 CSR 80; or if the sludge is determined to be hazardous waste, shall be disposed at a permitted hazardous waste disposal facility pursuant to 10 CSR 25.
- (b) Non-hazardous sludge that is disposed on site or that is exempted under 10 CSR 80 must obtain applicable permits under 10 CSR 20-6.015 and 10 CSR 20-6.200.
- (c) Each effluent monitoring report shall also specify the date any sludge is removed from the facility, who removed the sludge and the number of gallons or quantity of sludge removed. The final disposal location shall be reported, including the name of the disposal facility, the solid waste or hazardous waste disposal permit number, and date of permit issuance.
- (d) This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act.