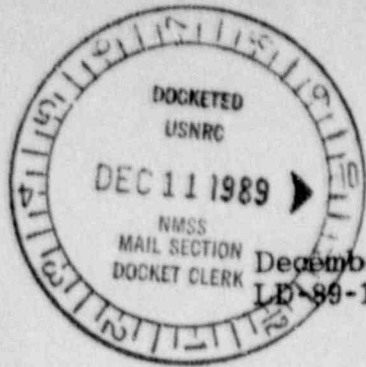


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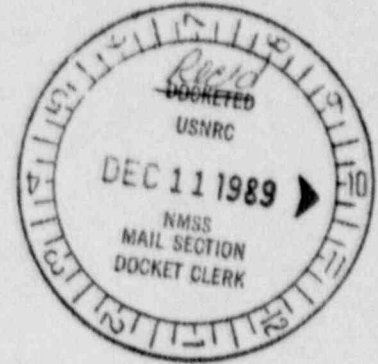
70-36

COMBUSTION ENGINEERING



December 8, 1989
LD-89-137

Docket No. 70-36
License No. SNM-33



Mr. Leland C. Rouse
Fuel Cycle Safety Branch
Division of Industrial and
Medical Nuclear Material
Office of Nuclear Material
Safety and Safeguards
U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Subject: Clarification of Content of Application for Renewal of
License No. SNM-33

- Reference: (A) Letter, C. R. Waterman (C-E) to L. C. Rouse (NRC),
dated November 22, 1989
- (B) Letter LD-89-032, A. E. Scherer (C-E) to
L. C. Rouse (NRC), dated March 29, 1989
- (C) Letter G. L. Sjoblom (NRC) to J. A. Rode (C-E),
dated November 24, 1989

Dear Mr. Rouse:

This letter provides clarification to the Hematite license (SNM-33) renewal application, Reference (A), regarding submittal of environmental information pursuant to 10CFR51.60(a). The Hematite renewal application incorporates facility changes that were described previously in license amendment requests and accompanied by supplemental environmental information submitted by Reference (B). Approval of these facility changes was provided by the NRC in Reference (C).

It was our intent that the NRC consider the supplemental environmental information of Reference (B), along with the prior environmental submittals referenced therein, and Chapter 13, "Environmental Safety-Radiological", of the renewal application Reference (A), to satisfy the requirements of 10CFR51.60. Satisfaction is pursuant to 10CFR51.60 (a) and 10CFR70.21 (a)(3), concerning incorporation of information by reference.

DF03

8912200116 891208
PDR ADDCK 07000036
PDC

Power Systems
Combustion Engineering, Inc.

1000 Prospect Hill Road
Post Office Box 500
Windsor, Connecticut 06095-0500

(203) 688-1911
Telex: 99297

addit info 26/53

Mr. L. C. Rouse
December 8, 1989

LD-89-137
Page 2

Additionally, pursuant in part to 10CFR51.45(d), regarding environmental information, please find enclosed a copy of the State of Missouri "Authorization to Discharge" permit that was recently received by Combustion Engineering.

If I can be of any assistance in this matter, please contact me or Mr. J. F. Conant of my staff at (203) 285-5002.

Very truly yours,

COMBUSTION ENGINEERING, INC.



A. E. Scherer
Director
Nuclear Licensing

AES:jeb

Enclosure: As Stated

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



AUTHORIZATION TO DISCHARGE
UNDER THE NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM

In compliance with the Federal Water Pollution Control Act, Public Law 92-500, 92nd Congress, (hereinafter, the Act) as amended, and the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the law),

Permit No. MO-0000761

Applicant No. MO-0000761

Owner: Combustion Engineering, Inc.

Owner's Address: 900 Long Ridge Road, Stamford, Connecticut 06904

Facility Name: Combustion Engineering, Inc. - Hematite Plant

Facility Address: Highway P, Hematite, Missouri 63047

Legal Description: U.S. Survey 423, (NW 1/4, SE 1/4, SW 1/4, Sec. 19 projected), T40N,
R5E, Jefferson County

Receiving Stream & Basin: Unnamed tributary to Joachim Creek
(07140101-19-01) (Mississippi River and Central Tributaries Basin)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

- Industry

FACILITY DESCRIPTION

Outfall #001 - An extended aeration treatment plant with chlorination and sludge holding tank. Sludge disposal is by contract hauler. Design population equivalent is 47. Actual flow is 1,820 gallons per day. Design flow is 3,000 gallons per day. Design sludge production is .75 dry ton/year.

Outfall #002 - No treatment/storm water runoff/spring water. Actual flow is dependent upon rainfall.

Outfall #003 - No treatment/storm water runoff/non-contact cooling water/steam condensate/boiler blowdown. Actual flow is dependent upon rainfall.

This permit only authorizes wastewater discharges under the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

November 17, 1989

Effective Date

September 21, 1992

Expiration Date

G. Tracy McMan III
G. Tracy McMan III
Director, Department of Natural Resources

Charles A. Johnson
Permit Administrator for Missouri Clean Water Commission

A. -EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 2 of 4
 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</u>						
Flow-m ³ /Day	MGD	*		*	once/month 24 hr. estimate	
Biochemical Oxygen Demand ₅	mg/l		45	30	once/3 months	**
Non-Filterable Residue (Total Suspended Solids)	mg/l		45	30	once/3 months	**
pH - Units	SU	***		***	once/3 months	grab
Fecal Coliform**** (Colonies/100 ml)	#/100 ml	1000		400	once/3 months	grab
Chlorine, Total Residual****(Note 1)	mg/l	1.0			once/3 months	grab
<u>Outfall #002</u>						
Flow-m ³ /Day	MGD	*		*	once/month 24 hr. estimate	
Fluoride	mg/l	2.2		1.2	once/3 months	grab
Non-Filterable Residue (Total Suspended Solids)	mg/l		45	30	once/3 months	grab
pH - Units	SU	***		***	once/3 months	grab
Radioactive Materials (See Special Condition #3)						
<u>Outfall #003</u>						
Flow-m ³ /Day	MGD	*		*	once/month 24 hr. estimate	
Biochemical Oxygen Demand ₅	mg/l		45	30	once/month	grab
Non-Filterable Residue (Total Suspended Solids)	mg/l		45	30	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED quarterly; THE FIRST REPORT IS DUE 1-28-90

THERE SHALL BE NO DISCHARGE OR 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 Part I STANDARD CONDITIONS DATED October 1 19 80, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

PAGE NUMBER 3 of 4
 PERMIT NUMBER MO-0000761

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #003 (cont.)						
pH - Units	SU	***		***	once/month	grab
Oil and Grease	mg/l	15		10	once/month	grab
Temperature	°F	*****		*****	once/month	grab
Fluoride	mg/l	2.0		1.2	once/month	grab
<p>* Monitoring requirement only.</p> <p>** 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.</p> <p>*** 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.</p> <p>**** Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31. Fecal Coliform must be measured during May, August and October of each calendar year. Total Residual Chlorine will be monitored at the same time.</p> <p>***** The effluent shall not elevate or depress the receiving stream temperature by more than 5°F. The effluent shall not cause the temperature of the receiving stream to exceed 90°F. Temperature shall be monitored at Outfall #002 and upstream of Outfall #003 for comparison purposes.</p> <p>Note 1 - Effluent limitations for Total Residual Chlorine (TRC) are applicable whenever Chlorine is used as a disinfectant. If TRC limits are not met the facility must be upgraded to include dechlorination.</p>						

C. SPECIAL CONDITIONS

1. 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.
2. 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.

3. 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.

4. Industrial Sludge Disposal - Outfall #002

When sludge is removed from an industrial wastewater treatment facility or when closing the treatment facility, the permittee shall obtain prior approval from the Department on final disposition of the industrial sludge. This condition applies to sludge accumulation in the pond area behind the dam.

5. Sludge Removal and Disposal

- (a) Sludge shall be removed from the facility on a routine schedule based on operational testing and/or sludge holding capacity and handled in accordance with the permit application.
- (b) 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. When sludge disposal is by the permittee, the final disposal location shall be reported.
- (c) This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation so issued or approved under Section 405(d) of the Clean Water Act.

70-36
CONTROL NO. 26153
DATE OF DOC. Dec. 8, 1989
DATE RCVD. Dec. 11, 1989
FCUF PDR
FCAF _____ LPDR _____
I & E REF.
SAFEGUARDS
FCTC _____ OTHER _____
DATE 12/14/89 INITIALS SHF