

# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - FINAL

During the period beginning December 12, 1975 and lasting through December 11, 1980 the permittee is authorized to discharge from outfall(s) serial number(s) - Pipe 001--Cooling water

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS	
	kg/day (lbs/day) Daily Avg.	Daily Max.	Other Units (Specify) Daily Avg.	Measurement Frequency	Sample Type
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	Continuous	recorder or pump records
Temperature	-	-	103°F	Continuous	recorder

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The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored monthly, grab samples.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Sample taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at point of discharge to the Missouri River.

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# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning December 12, 1975 and lasting through December 11, 1980 the permittee is authorized to discharge from outfall(s) serial number(s) Pipe 002--Roof drain runoff

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS	
	kg/day (lbs/day) Daily Avg.	Daily Max.	Other Units (Specify) Daily	Measurement Frequency	Sample Type
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	Monthly*	Grab
Total Suspended Solids	see formula below	30 mg/l	100 mg/l	Monthly*	Composite**
Oil and Grease	see formula below	15 mg/l	20 mg/l	Monthly*	Composite**
Iron, Total	see formula below	1.0 mg/l	1.0 mg/l	Monthly*	Composite**
Copper, Total	see formula below	1.0 mg/l	1.0 mg/l	Monthly*	Composite**

Total Daily Quantity = lbs/day = 9.34 x total flow in MGD during rainfall period x concentration

\* Discharge to be sampled on a monthly basis, not to exceed six (6) samples per year.

\*\* A composite sample for this discharge is defined as a series of four (4) representative grab samples taken during a runoff event.

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored on a monthly basis, not to exceed six (6) samples a year, using a series of four (4) grab samples taken during a runoff event. There shall be no discharge of floating solids or visible foam in other than trace amounts.

Sample taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at point of discharge to the Missouri River.

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# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - FINAL

During the period beginning December 12, 1975 and lasting through December 11, 1980 the permittee is authorized to discharge from outfall(s) serial number(s) - Pipe 003--Screen wash water, floor drain.

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.		
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	-	Monthly	pump records

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored monthly, grab samples.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Sample taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at point of discharge to the Missouri River.

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# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning December 12, 1975 and lasting through December 11, 1980 the permittee is authorized to discharge from outfall(s) serial number(s) 004--Water Treatment Sludge Basin

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.		
Flow-m <sup>3</sup> /day (MGD)	-	-	-	-	Quarterly	Grab
Total Suspended Solids	-	-	30mg/l	100mg/l	Quarterly	Grab

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored quarterly, grab samples.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Sample taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at point of discharge to the discharge canal.

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# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning December 12, 1975 and lasting through December 11, 1980 the permittee is authorized to discharge from outfall(s) serial number(s) 005--Sewage Treatment Plant

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS		
	kg/day (lbs/day)	Daily Avg.	Daily Max.	Other Units (Specify)	Measurement Frequency	Sample Type
Flow-m <sup>3</sup> /day (MGD)	-	-	-	-	Monthly	-
Biochemical Oxygen Demand	0.45 (1.0)	0.68 (1.50)	30mg/l	45mg/l	Monthly	24 hour composite
Total Suspended Solids	0.45 (1.0)	0.68 (1.50)	30mg/l	45mg/l	Monthly	24 hour composite
Fecal Coliforms	-	-	200/100ml	400/100ml	Monthly	grab

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The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored monthly, grab samples.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Sample taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at point of discharge to the discharge canal.

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B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

N/A

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

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C. MONITORING AND REPORTING

1. REPRESENTATIVE SAMPLING

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. REPORTING

Monitoring results obtained during the previous 3 months shall be summarized for each month and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the month following the completed reporting period.

The first report will be submitted for the period ending March 31, 1976-

Subsequent reports will be for the periods ending June 30, September 30, December 31 and March 31.

Properly filled in and signed Monitoring Reports will be mailed to the following address:

Nebraska Department of Environmental Control  
WPC-Permits and Enforcements Section  
P.O. Box 94653 State House Station  
Lincoln, Nebraska 68509

3. TEST PROCEDURES

Test procedures for the analysis of pollutants shall conform to Guidelines for Test Procedures For The Analysis of Pollutants Under the National Pollutant Discharge Elimination System (40 CFR 136). If those Guidelines do not specify test procedures for any pollutant required to be monitored by this permit and until such guidelines are promulgated, sampling and analytical methods used to meet the monitoring requirements specified in this permit shall, unless otherwise specified by the Director conform to the latest edition of the following references:

Standard Methods for the Examination of Water and Wastewaters, 13th Edition, 1971, American Public Health Association, New York, New York 10019.

A.S.T.M. Standards, Part 23, Water; Atmospheric Analysis, 1972, American Society for Testing and Materials, Philadelphia, Pennsylvania 19103.

Methods for Chemical Analysis of Water and Wastes, April 1972, Environmental Protection Agency Water Quality Office, Analytical Quality Control Laboratory, NERC, Cincinnati, Ohio 45268.

#### 4. RECORDING OF RESULTS

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

#### 5. ADDITIONAL MONITORING BY PERMITEE

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the Discharge Monitoring Report Form (EPA No. 3320-1). Such increased frequency shall also be indicated.

#### 6. RECORDS RETENTION

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, with such period of retention being extended during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or when requested by the Director.



## A. MANAGEMENT REQUIREMENTS

## 1. CHANGE IN DISCHARGE

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by the permittee 60 days prior to the expansion, increases, or modifications, by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

## 2. NONCOMPLIANCE NOTIFICATION

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum or weekly average effluent limitation specified in this permit, the permittee shall provide the Department of Environmental Control with the following information, in writing, within five (5) days of becoming aware of such conditions:

- a. A description of the discharge and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance discharge.

## 3. FACILITY OPERATION AND QUALITY CONTROL

All waste collection, control, treatment and disposal facilities shall be operated in a manner consistent with the following:

- a. At all times, all facilities shall be operated as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants.
- b. The permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance and testing functions required to insure compliance with the conditions of this permit.
- c. Maintenance of treatment facilities that results in degradation of effluent quality shall be scheduled during non-critical water quality periods and shall be carried out in a manner approved by the permitting authority.

## 4. ADVERSE IMPACT

The permittee shall take all reasonable steps to minimize any adverse impact to waters of the State resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

## 5. BYPASSING

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall promptly notify the Department of Environmental Control in writing of each such diversion or bypass.

## 6. REMOVED SUBSTANCES

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering any waters of the State.

## 7. POWER FAILURES

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. In accordance with the Schedule of Compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities;

or, if such alternative power source is not in existence, and no date for its implementation appears in Part I,

- b. Halt, reduce or otherwise control production and/or all discharges upon the reduction, loss or failure of the primary source of power to the wastewater control facilities.

## B. RESPONSIBILITIES

## 1. RIGHT OF ENTRY

The permittee shall allow the Director of the Department of Environmental Control or his authorized representatives, upon the presentation of credentials:

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- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. TRANSFER OF OWNERSHIP OR CONTROL

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Department of Environmental Control no later than 30 days after transfer of control or ownership.

3. AVAILABILITY OF REPORTS

All NPDES forms and any public comment upon those forms shall be available to the public for inspection and copying, except any NPDES form information (except effluent data) or comment which is classified as confidential pursuant with the Nebraska Rules and Regulations Pertaining to the Issuance of Permits under the National Pollutant Discharge Elimination System.

4. SIGNATURES

All NPDES Forms, applications or correspondence submitted to the Department as well as each submitted Discharge Monitoring Report shall be signed as follows:

- a. If submitted by a corporation, by a principal executive officer or at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the Discharge Monitoring Report originates;
- b. If submitted by a partnership, by a general partner;
- c. If submitted by a sole proprietor, by the proprietor;
- d. If submitted by a municipality, State agency, or other public entity, by a principal executive officer, ranking elected official, commanding officer, or other duly authorized employee.

Any change in signatories after submission of any NPDES form, application, correspondence or discharge monitoring report, and any transfer of a permit after issuance, shall be brought to the attention of the Department in writing within 30 days after the change of transfer.

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5. PERMIT MODIFICATION

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- d. Upon request by the permittee, provided such request does not create a violation of any existing applicable requirements, standards, laws, or rules and regulations.

6. TOXIC POLLUTANTS

Notwithstanding Part II, B-5 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established and adopted by the Council under Section 81-1505(6) of the State Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

7. CIVIL AND CRIMINAL LIABILITY

Except as provided in permit conditions on "Bypassing" (Part II, A-5) and "Power Failures" (Part II, A-7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Whether or not such noncompliance is due to factors beyond his control, such as equipment breakdown, electric power failure, accident, or natural disaster.

8. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Federal Water Pollution Control Act Amendments of 1972 (P.L. 92-500).

9. PROPERTY RIGHTS

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

10. OTHER RULES AND REGULATIONS LIABILITY

The issuance of this permit in no way relieves the obligation of the permittee to comply with any and all other Departmental Rules and Regulations.

11. ONSHORE - OFFSHORE CONSTRUCTION

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

12. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

## PART III

## OTHER REQUIREMENTS

## -Discharge 001-

Thermal plume monitoring shall be conducted by the permittee during 100% power production periods which are realized in conjunction with summer low river flow and winter low river flow conditions. The permittee shall determine the 2.8 C (5 F) contour line above ambient stream temperature and isotherms at 1.1 C intervals within this contour line. The area within the contours shall be determined, the percentage of cross-sectional area and volume of flow that the discharge comprises with respect to the receiving stream shall also be determined. These plume studies shall be conducted when possible during the most critical temperature conditions in the stream, i.e., maximum summer ambient river temperature during low river flow conditions.

Intake monitoring data shall be submitted on a quarterly basis, the first monitoring report will be for the period ending March 31, 1976.

## DEFINITIONS

Daily Average - Discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.

Daily Maximum - Discharge means the total discharge by weight during any calendar day.

Maximum Concentration - The maximum concentration is the concentration in any single grab sample.

Grab Sample - A single sample collected in less than 15 minutes.

Composite Sample - A combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling frequency (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite.

Cooling Water - Uncontaminated: Water used for cooling purposes only which has no direct contact with any raw material, intermediate, or final product and which does not contain a level of contaminants detectably higher than that of the intake water.

Contaminated: Water used for cooling purposes only which may become contaminated either through the use of water treatment chemicals used for corrosion inhibitors or biocides, or by direct contact with process materials and/or wastewater;

Monthly Average - Other than for fecal coliform bacteria, is the arithmetic mean of the values for effluent samples collected in a period of 30 consecutive days. The monthly average for fecal coliform bacteria is the geometric mean of the value of the effluent samples collected in a period of 30 consecutive days.

Weekly Average - Other than for fecal coliform bacteria, is the arithmetic mean of the values for effluent samples collected in a period of seven consecutive days. The weekly average for fecal coliform bacteria is the geometric mean of the values for effluent samples collected in a period of seven consecutive days.

Bi - Weekly - Once every other week.

Bi - Monthly - Once every other month.

Compatible Pollutants - Are biochemical oxygen demand, suspended solids, pH and fecal coliform bacteria, plus additional pollutants identified in the NPDES permit if the publicly owned treatment works was designed to treat such pollutants, and in fact does remove such pollutants to a substantial degree, e.g., nitrogen and phosphorus.

Incompatible Pollutant - Is any pollutant which is not a compatible pollutant as defined above.

Major Contributing Industry - Is a wastewater source that:

- (a) has a flow of 50,000 gallons or more per average workday;
- (b) has a flow greater than five percent of the flow carried by the municipal system receiving the waste;
- (c) has in its waste a toxic pollutant in toxic amounts or
- (d) has significant impact, either singly or in combination with other contributing industries on the treatment works or the quality of its effluent.



DEPARTMENT OF ENVIRONMENTAL CONTROL

BOX 94653, STATE HOUSE STATION  
LINCOLN, NEBRASKA 68509  
(402) 471-2186

April 16, 1973

Nebraska Public Power District  
P.O. Box 499  
Columbus, Nebraska 68601

Attention Eric N. Sloth, Ph. D.  
Environmental Manager

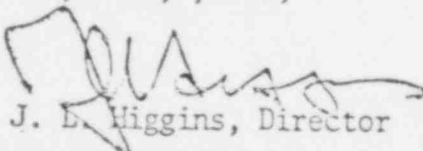
Dear Dr. Sloth:

Reference is made to your letter of April 6, 1973, requesting State Certification as required by Section 401 of The Federal Water Pollution Control Act Amendments of 1972, (P.L. 92-500), in regard to Cooper Nuclear Station.

As provided in Section 401, certification is required relating to compliance with the applicable provisions of Sections 301, 302, 306, and 307 of P.L. 92-500.

Pursuant to Section 401(a) of the Act, we certify that at the present time, there is not an applicable effluent limitation or other limitation under Sections 301(b) and 302, and there is not an applicable standard under Sections 306 and 307 of the Act.

Very truly yours,

  
J. L. Higgins, Director

RB/gdm