

Permit No. WI-0003239-2

PERMIT TO DISCHARGE UNDER THE
WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of Chapter 147, Wisconsin Statutes,

DAIRYLAND POWER COOPERATIVE
(GENOA STEAM POWER STATION)

is permitted to discharge from a facility located at

Genoa, Wisconsin

to The Mississippi River

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

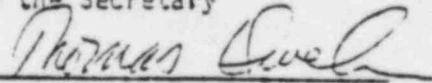
This permit shall become effective on October 1, 1979

This permit to discharge shall expire at midnight, September 30, 1980

Permittee shall not discharge after the date of expiration. If the permittee wishes to continue to discharge after this expiration date he shall file an application for reissuance of his permit in accordance with the requirements of Chapter NR 200, Wisconsin Administrative Code, at least 180 days prior to this expiration date.

State of Wisconsin Department of Natural Resources
For the Secretary

By



Thomas A. Kroehn
Administrator
Division of Environmental Standards

Dated this 28th day of September, 1979

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GENERAL CONDITIONS

1. Compliance

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.

2. Adverse Impact

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

3. Removed Substances

Solids, sludges, filter backwash or other pollutants removed from or resulting from treatment or control of wastewaters or intake waters shall be stored and disposed of in a manner such as to prevent any pollutant from such materials from entering the waters of the State. Land disposal of treatment plant solids and sludges shall be either at a site or operation licensed by the Department under Chapter NR 151, Wisconsin Administrative Code, or in accordance with a sludge disposal plan approved by the Department.

4. Right of Entry

The permittee shall allow authorized representatives of the Department of Natural Resources, and the Administrator of the United States Environmental Protection Agency or his authorized representatives, upon the presentation of credentials:

- 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 wastewaters.

5. Permit Modification

After notice and opportunity for a hearing as provided in Section 147.03, Wisconsin Statutes, 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 permitted discharge.

6. Toxic Pollutants

Nothing in this permit shall be construed to authorize the discharge of any toxic pollutant or combination of pollutants in amounts or concentrations which exceed any applicable toxic effluent standard or prohibition, including any schedule of compliance specified in any such effluent standard or prohibition, promulgated under Section 147.07(1), Wisconsin Statutes.

If a toxic effluent standard or prohibition, including any schedule of compliance specified in such effluent standard or prohibition, is promulgated under Section 147.07(1), Wisconsin Statutes, for a toxic pollutant or combination of pollutants 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.

7. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Part I,23) and "Power Failures" (Part I,24), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties under Section 147.21, Wisconsin Statutes, for noncompliance with the terms and conditions of this permit.

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 (33 U.S.C. Section 1321).

9. State Laws

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 established pursuant to any other applicable State law or regulation.

10. 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.

11. 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.

12. Schedule of Compliance Progress Reports

No later than 14 calendar days following a date identified in any schedule of compliance in Part II, 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 requirements.

13. Test Procedures

Test procedures used for the analysis of pollutants shall be those listed in Chapter NR 219, Wisconsin Administrative Code, or an alternate method authorized in Part II.

14. 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.

15. Additional Monitoring by Permittee

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 in Chapter NR 219, the results of such monitoring shall be included in the Discharge Monitoring Report Form 3200-28 or 3200-40. Such increased frequency shall also be indicated.

16. 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, or longer if requested by the Department of Natural Resources.

17. Construction of Onshore or Offshore Structures

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

18. Confidential Information

Except for data determined to be confidential under Section 147.02(2)(c), Wisconsin Statutes, all monitoring reports required by this permit shall be available for public inspection at the headquarters of U.S. EPA Region V and the Department of Natural Resources. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 147.21, Wisconsin Statutes.

19. Transfer of Control of Operation

In the event of a transfer of control of operation of the facility from which the permitted discharges emanate to a person not named on page one (1) of this permit, the permittee prior to such transfer shall notify his successor by letter that this permit is not transferable and that prior to any discharge after such transfer, a new NPDES permit must be obtained. A copy of this letter shall be forwarded to the Department of Natural Resources, NPDES Permit Section, Box 7921, Madison, Wisconsin 53707.

20. Change in Discharge

Any anticipated facility expansions, production increases or process modifications which will result in new, different, or increased discharges of pollutants must be reported in accordance with Chapter NR 200, Wisconsin Administrative Code, by submission of a new WPDES application or, if such changes will not exceed the effluent limitations specified in this permit, by notice to the Department of Natural Resources of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

21. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, he shall provide the Department of Natural Resources in writing within five (5) days of becoming aware of such condition, with the following information.

- a. A description of the discharge and cause of noncompliance; and
- b. An identification of the period of noncompliance, including exact dates and times; or, if continuing, the anticipated time the noncompliance is expected to continue, and a description of the steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.

22. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

23. Bypassing

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) an inadvertent bypass lasting no longer than one hour and resulting from equipment damage or temporary power interruption, or (ii) an unavoidable bypass necessary to prevent loss of life or severe property damage, or (iii) a bypass of excessive storm drainage or runoff which would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. In the event of occurrence of a bypass described by (ii) or (iii) the permittee shall immediately notify the Department District Office by telephone of such occurrence. In addition, the permittee shall notify the Department of Natural Resources, WPDES Permit Section and the Administrator of the U.S. EPA - Region V in writing of each such diversion or bypass by letter within 72 hours.

24. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit in the event of the reduction, loss, or failure of one or more of the primary sources of power to the wastewater control facilities, the permittee shall either:

- a. Provide an alternative power source sufficient to operate the wastewater treatment or control facilities if required by the Schedule of Compliance contained in Part II, or,
- b. If there is no such requirement, halt, reduce or otherwise control production and/or all discharges from the facility.

SPECIAL CONDITIONS

A. Effluent Limitations and Monitoring Requirements

- (1) During the period beginning on October 1, 1979 and lasting until September 30, 1980 the permittee is authorized to discharge from outfall serial number 001 (units 2 & 3 condenser cooling water).
- (2) This discharge shall be limited and monitored by the permittee as specified below.
 - (a) There shall be no discharge of floating solids or visible foam in other than trace amounts.
 - (b) Samples taken in compliance with the monitoring requirements specified below shall be taken at the following location: at outfall 001 (units 2 & 3 condenser cooling water)

EFFLUENT CHARACTERISTIC	DAILY EFFLUENT LIMITATIONS					MONITORING REQUIREMENTS	
	Quantity-kg/day (lbs/day)		Other Limitations (Specify Units)			Sample Frequency	Sample Type
	Average	Maximum	Minimum	Average	Maximum		
Flow - M ³ /Day (MGD)	-	-	-	-	-	Daily	Continuous
Total Residual Chlorine(1)	-	-	-	-	0.2 mg/l	Daily	Grab(2)
Temperature	-	-	-	-	-	Daily	Continuous
Intake Temperature	-	-	-	-	-	Daily	Continuous

- (1) Neither free available chlorine nor total residual chlorine may be discharged from the station for more than two hours in any one day.
- (2) A minimum of four grab samples shall be taken at the outfall daily during periods of chlorine discharge, with a minimum of one grab sample representative of the peak chlorine discharge during each period of chlorine discharge.

"This permit may be modified, or, alternatively revoked and reissued, to comply with any applicable effluent limitation issued pursuant to the order of the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et. al. v. Russell E. Train, 8 ERC 2120 (D.D.C. 1976), if the effluent limitation so issued: (1) is different in conditions or more stringent than any effluent limitation in the permit; or (2) controls any pollutant not limited in the permit."

SPECIAL CONDITIONS

Part II, Page 2 of 8
Wisconsin Permit No. WI-0003239

B. Effluent Limitations and Monitoring Requirements

- (1) During the period beginning on October 1, 1979 and lasting until September 30, 1980 the permittee is authorized to discharge from outfall serial number 005 (unit 1 condenser cooling water).
- (2) This discharge shall be limited and monitored by the permittee as specified below.
 - (a) There shall be no discharge of floating solids or visible foam in other than trace amounts.
 - (b) Samples taken in compliance with the monitoring requirements specified below shall be taken at the following location: at outfall 005 (unit 1 condenser cooling water)

EFFLUENT CHARACTERISTIC	DAILY EFFLUENT LIMITATIONS					MONITORING REQUIREMENTS	
	Quantity-kg/day (lbs/day)		Other Limitations (Specify Units)			Sample Frequency	Sample Type
	Average	Maximum	Minimum	Average	Maximum		
Flow - M ³ /Day (MGD)	-	-	-	-	-	Daily When Discharging	Estimated
Total Residual Chlorine (1)	-	-	-	-	0.2 mg/l	Daily When Discharging	Grab (2)
Temperature	-	-	-	-	-	Daily When Discharging	Grab
Intake Temperature	-	-	-	-	-	Daily When Discharging	Grab

- (1) Neither free available chlorine nor total residual chlorine may be discharged from the station for more than two hours in any one day.
- (2) A minimum of four grab samples shall be taken at the outfall daily during periods of chlorine discharge, with a minimum of one grab sample representative of the peak chlorine discharge during each period of chlorine discharge.

"This permit may be modified, or, alternatively revoked and reissued, to comply with any applicable effluent limitation issued pursuant to the order of the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et. al. v. Russell E. Train, 8 ERC 2120 (D.D.C. 1976), if the effluent limitation so issued: (1) is different in conditions or more stringent than any effluent limitation in the permit; or (2) controls any pollutant not limited in the permit."

SPECIAL CONDITIONS

Part II, Page 3 of 8
Wisconsin Permit No. WI-0003239

C. Effluent Limitations and Monitoring Requirements

- (1) During the period beginning on October 1, 1979 and lasting until September 30, 1980 the permittee is authorized to discharge from outfall serial number 002 and 007 (units 3 & 2 intake de-ice water)
- (2) Each of these discharges shall be individually limited and monitored by the permittee as specified below, and individually reported in accordance with Part II, G, except a limitation under "Quantity" applies to the total for each characteristic of the individual discharges.
 - (a) There shall be no discharge of floating solids or visible foam in other than trace amounts.
 - (b) Samples taken in compliance with the monitoring requirements specified below shall be taken at the following location: at outfalls 002 and 007 (units 3 & 2 intake de-ice water, respectively)

EFFLUENT CHARACTERISTIC	DAILY EFFLUENT LIMITATIONS					MONITORING REQUIREMENTS	
	Quantity-kg/day (lbs/day)		Other Limitations (Specify Units)			Sample	Sample
	Average	Maximum	Minimum	Average	Maximum	Frequency	Type
Flow - M ³ /Day (MGD)	-	-	-	-	-	Monthly When Discharging	Estimated

"This permit may be modified, or, alternatively revoked and reissued, to comply with any applicable effluent limitation issued pursuant to the order of the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et. al. v. Russell E. Train, 8 ERC 2120 (D.D.C. 1976), if the effluent limitation so issued: (1) is different in conditions or more stringent than any effluent limitation in the permit; or (2) controls any pollutant not limited in the permit."

SPECIAL CONDITIONS

Part II, Page 4 of 8
Wisconsin Permit No. WI-0003239

D. Effluent Limitations and Monitoring Requirements

- (1) During the period beginning on October 1, 1979 and lasting until September 30, 1980 the permittee is authorized to discharge from outfall serial number 003 (Ash pond effluent).
- (2) This discharge shall be limited and monitored by the permittee as specified below.
 - (a) There shall be no discharge of floating solids or visible foam in other than trace amounts.
 - (b) Samples taken in compliance with the monitoring requirements specified below shall be taken at the following location: at outfall 003 (Ash pond effluent).

EFFLUENT CHARACTERISTIC	DAILY EFFLUENT LIMITATIONS				MONITORING REQUIREMENTS		
	Quantity-kg/day (lbs/day)		Other Limitations (Specify Units)		Sample Frequency	Sample Type	
	Average	Maximum	Minimum	Average			Maximum
Flow - M ³ /Day (MGD)	-	-	-	-	-	Daily	Total Daily
Total Suspended Solids	204 (450)	2118 (4670)	-	30 mg/l	100 mg/l	Daily	24 hr. Composite
Oil & Grease	102 (225)	424 (934)	-	15 mg/l	20 mg/l	Daily	Grab
pH	-	-	6.0	-	9.0	Daily	Grab

"This permit may be modified, or, alternatively revoked and reissued, to comply with any applicable effluent limitation issued pursuant to the order of the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et. al. v. Russell E. Train, 8 ERC 2120 (D.D.C. 1976), if the effluent limitation so issued: (1) is different in conditions or more stringent than any effluent limitation in the permit; or (2) controls any pollutant not limited in the permit."

SPECIAL CONDITIONS

Effluent Limitations and Monitoring Requirements

- (1) During the period beginning on October 1, 1979 and lasting until September 30, 1980 the permittee is authorized to discharge from outfall serial number 003 (Ash pond effluent).
- (2) This discharge shall be limited and monitored by the permittee as specified below.

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

(b) Samples taken in compliance with the monitoring requirements specified below shall be taken at the following location: Sample point 301 prior to discharge of metal cleaning wastewater into the ash pond.

provide we are only desalting nitric clean's water into pipe before combining with ash.

EFFLUENT CHARACTERISTIC	DAILY EFFLUENT LIMITATIONS					MONITORING REQUIREMENTS	
	Quantity-kg/day (lbs/day)		Other Limitations (Specify Units)			Sample Frequency	Sample Type
	Average	Maximum	Minimum	Average	Maximum		
Flow - (GPD)	-	-	-	-	-	Yearly	Estimate
Total Suspended Solids (mg/l)	-	-	-	30	100	Yearly	Grab
Oil & Grease (mg/l)	-	-	-	15	20	Yearly	Grab
Total Iron (mg/l)	-	-	-	1.0	1.0	Yearly	Grab
Total Copper (mg/l)	-	-	-	1.0	1.0	Yearly	Grab
(S.U.)	-	-	6.0	-	9.0	Yearly	Grab

This permit may be modified, or, alternatively revoked and reissued, to comply with any applicable effluent limitation issued pursuant to the order of the United States District Court for the District of Columbia issued on June 8, 1976, in *Natural Resources Defense Council, Inc. et. al. v. Russell E. Train*, 8 ERC 2120 (D.D.C. 1976), the effluent limitation so issued: (1) is different in conditions or more stringent than any effluent limitation in the permit; or (2) controls any pollutant not limited in the permit."

SPECIAL CONDITIONS

Part II, Page 6 of 8
Wisconsin Permit No. WI-0003239

F. Effluent Limitations and Monitoring Requirements

- (1) During the period beginning on October 1, 1979 and lasting until September 30, 1980 the permittee is authorized to discharge from outfall serial numbers 004 and 008 (unit 3 & 2 screen wash).
- (2) Each of these discharges shall be individually limited and monitored by the permittee as specified below, and individually reported in accordance with Part II, J, except a limitation under "Quantity" applies to the total for each characteristic of the individual discharges.
 - (a) There shall be no discharge of floating solids or visible foam in other than trace amounts.
 - (b) Samples taken in compliance with the monitoring requirements specified below shall be taken at the following location: at outfalls 004 and 008 (unit 3 & 2 screen wash, respectively).

EFFLUENT CHARACTERISTIC	DAILY EFFLUENT LIMITATIONS					MONITORING REQUIREMENTS	
	Quantity-kg/day (lbs/day)		Other Limitations (Specify Units)			Sample	Sample
	Average	Maximum	Minimum	Average	Maximum	Frequency	Type
Flow - M ³ /Day (MGD)	-	-	-	-	-	Monthly	Estimated

This permit may be modified, or, alternatively revoked and reissued, to comply with any applicable effluent limitation issued pursuant to the order of the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et. al. v. Russell E. Train, 8 ERC 2120 (D.D.C. 1976), if the effluent limitation so issued: (1) is different in conditions or more stringent than any effluent limitation in the permit; or (2) controls any pollutant not limited in the permit."

G. OTHER SPECIAL CONDITIONS

1. Transformer Fluids

There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.

2. Ash Transport Wastewater Investigation

No later than December 1, 1979, the permittee shall initiate a 1 year monitoring program, after approval by the Department, of the ash transport water. The study shall include monitoring of the following parameters in the appropriate waste streams:

Part I - Volumes

<u>Waste Stream</u>	<u>Parameter</u>	<u>Frequency</u>	<u>Sample Type</u>
1. Effluent from the ash transport wastewater treatment system	Flow	Daily	Total Daily
2. Bottom ash transport water (a)	Flow	Daily	Total Daily
3. Fly ash transport water (a)	Flow	Daily	Total Daily

(a) If the permittee has a facility with more than one unit and each unit has separate fly and bottom ash transport waste streams, then flow shall be monitored in each individual waste stream. If bottom ash transport wastewaters from different units are combined, then the combined flow may be measured. If fly ash transport wastewaters from different unit are combined, then the combined flow may be measured.

Part II - Heavy Metal Constituents

a. Effluent from the ash transport wastewater treatment system

Parameter	Frequency	Sample Type
1. Arsenic, total	Weekly	24 hr. composite
2. Arsenic, dissolved	Monthly*	24 hr. composite
3. Selenium, total	Weekly	24 hr. composite
4. Selenium, dissolved	Monthly*	24 hr. composite
5. Copper, total	Weekly	24 hr. composite
6. Copper, dissolved	Monthly*	24 hr. composite
7. Zinc, total	Weekly	24 hr. composite
8. Zinc, dissolved	Monthly*	24 hr. composite
9. Chromium, total	Weekly	24 hr. composite
10. Chromium, dissolved	Monthly*	24 hr. composite
11. Nickel, total	Weekly	24 hr. composite
12. Nickel, dissolved	Monthly*	24 hr. composite
13. Cadmium, total	Weekly	24 hr. composite
14. Cadmium, dissolved	Monthly*	24 hr. composite

b. Bottom ash transport waters - The permittee shall choose one or more representative bottom ash transport waste stream(s) and conduct the following study:

Parameter	Frequency	Sample Type
1. Copper, dissolved	Monthly*	24 hr. Composite
2. Zinc, dissolved	Monthly*	24 hr. Composite
3. Chromium, dissolved	Monthly*	24 hr. Composite
4. Nickel, dissolved	Monthly*	24 hr. Composite
5. Cadmium, dissolved	Monthly*	24 hr. Composite

The following information for each unit with hydraulic bottom ash transport, shall be provided to the Department as justification for choosing the representative waste stream:

1. Type of coal or coal blend burned.
2. Type of furnace and coal feed.

c. Fly ash transport waters - The permittee shall choose one or more representative fly ash transport waste stream(s) and conduct the following study:

Parameter	Frequency	Sample Type
1. Copper, dissolved	Monthly*	24 hr. Composite
2. Zinc, dissolved	Monthly*	24 hr. Composite
3. Chromium, dissolved	Monthly*	24 hr. Composite
4. Nickel, dissolved	Monthly*	24 hr. Composite
5. Cadmium, dissolved	Monthly*	24 hr. Composite
6. Arsenic, dissolved	Monthly*	24 hr. Composite
7. Selenium, dissolved	Monthly*	24 hr. Composite

The following information for each unit with hydraulic fly ash transport, shall be provided to the Department as justification for choosing the representative waste stream: .

1. Type of coal or coal blend burned.
2. Type of furnace and coal feed.

NOTE:

*Monthly - All monthly samples shall be collected on the same day

No later than February 1, 1981, the permittee shall submit a report to the Department summarizing the results of this 1 year study.

H . OTHER SPECIAL CONDITIONS

1. Reporting

a. Monitoring reports and reports required by Sections 12, 20, 21 and 23 of Part I of this permit shall be signed;

(1) for a corporation by a principal executive officer of at least the level of Vice President or his duly authorized representative having overall responsibility for the operation of the facility for which this permit is issued,

(2) for a partnership by a general partner, and

(3) for a sole proprietorship by the proprietor, except that

(4) in the case of reports required by Sections 21 and 23, the individual required to sign in accordance with this subsection may authorize another individual to sign such reports in his absence.

b. Monitoring results obtained during the previous month shall be summarized and reported on Discharge Monitoring Report Forms postmarked no later than the 15th day of the month following the completed reporting period. The first report is due on November 15, 1979. Duplicate signed copies of these reports shall be submitted to the:

Wisconsin Department of Natural Resources
West Central District
1300 West Clairemont Avenue
Eau Claire, Wisconsin 54701