

MICHIGAN WATER RESOURCES COMMISSION  
AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Indiana & Michigan Electric Company  
One Summit Square  
P.O. Box 60  
Fort Wayne, Indiana 46801

is authorized to discharge from a facility located at

Donald C. Cook Nuclear Plant  
Red Arrow Highway  
Bridgman, Michigan 49106

designated as IN & MI Electric-Cook Plant

to the receiving water named Lake Michigan in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested term shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight August 31, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated May 1979, as amended, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES permits previously adopted by the Michigan Water Resources Commission.

Issued this 19th day of September 1985, and modified this 2nd day of April 1987, by the Michigan Water Resources Commission superseding NPDES Permit No. MI0005827, expiring October 31, 1979.



ACTING

Paul D. Zugger  
Executive Secretary

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## PART I

## A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations - Outfalls 001, 002 & 003 (noncontact cooling water and low volume wastes)

During the period beginning on the effective date of this permit and lasting until permit expiration, the permittee is authorized to discharge a maximum of three billion two hundred ninety eight million five hundred eighty three thousand two hundred (3,298,583,200) gallons per day\* of noncontact cooling water consisting of condenser cooling water and low volume wastes consisting of steam generator blowdown, heating boiler blowdown and filter backwash through outfalls 001, 002 and 003 to Lake Michigan. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	lbs/day		Other Limitations		Measurement Frequency	Sample Type
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow (MGD)					Daily	Report Total Daily Flow
Temperature (°F)						
Intake					Daily	3 instantaneous readings equally spaced over a 24-hr period
Discharge**					Daily	
Heat Addition (BTU/hr)				$15.5 \times 10^9$	Daily	Calculation
Total Residual Chlorine (TRC)***				0.1 mg/l	5 x weekly	3 grab samples equally spaced during discharge of chlorine
Chlorine Discharge Time				30 min./day	5 x weekly	Report discharge time
Outfall Observation****					Daily	Visual

\* This flow is not to be considered as a limitation on either the quantity or rate over time of discharge.

\*\* The discharge, after mixing, shall not increase the temperature of Lake Michigan more than 3°F above the existing natural temperature or above the following monthly maximum temperatures:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
45	45	45	55	60	70	80	80	80	65	60	50

\*\*\*The permittee may use dechlorination techniques to achieve the applicable limitations using sodium thiosulfate or sodium sulfite or other dechlorinating agents approved by the Chief of the Surface Water Quality Division as dechlorination agents. The quantity of reagent used shall be limited to 1.5 times the stoichiometric amount needed for dechlorination of applied chlorine. The permittee shall report monthly the quantity of each dechlorination reagent used per day.

## Part I-A-1. (continued)

\*\*\*\*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

a. The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, waste product, or finished product.

b. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: weekly; grab sample.

c. The receiving water shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits in quantities which are or may become injurious to any designated use as a result of this discharge.

d. Samples, measurements and/or observations taken in compliance with the monitoring requirements above shall be taken as follows: intake - in the intake forebay; discharge - in Unit 1 and Unit 2 discharge bays for Outfalls 001 and 002, respectively. The monitoring requirements specified above do not apply for Outfall 003 since this discharge will be regulated by Outfalls 001 and 002.

e. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

## 2. Final Effluent Limitations - Outfalls 00A and 00B (steam generator blowdown)

During the period beginning on the effective date of this permit and lasting until permit expiration, the permittee is authorized to discharge a maximum of eight hundred sixty-four thousand (864,000) gallons per day\* of low volume wastes consisting of steam generator blowdown from each of the internal outfalls 00A and 00B through outfalls 001, 002 and 003 to Lake Michigan. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Limitations		Measurement	Sample
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Frequency	Type
Flow (MGD)					Per Occurrence	Report total daily flow
Total Suspended Solids (mg/l)			30	100	Weekly	Grab
Oil and Grease (mg/l)**				15	Monthly	Grab

\*This flow is not to be considered as a limitation on either the quantity or rate over time of discharge.

\*\*After one year of monitoring for oil and grease, the permittee may attempt to demonstrate that further monitoring and limits for oil and grease for internal outfalls 00A and 00B are no longer necessary. Upon successful demonstration by the permittee, this monitoring may be deleted from this permit. Any submittals shall be to the Chief of the Surface Water Quality Division.

a. Samples, measurements and/or observations taken in compliance with the monitoring requirements above shall be taken on both outfalls 00A and 00B prior to mixing with noncontact cooling water in the intake forebay (see figure 1 on page 7 of 12).

b. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

## 3. Final Effluent Limitations - Outfall 00C (heating boiler blowdown)

During the period beginning on the effective date of this permit and lasting until permit expiration, the permittee is authorized to discharge a maximum of nineteen thousand (19,000) gallons per day\* of low volume wastes consisting of heating boiler blowdown from the internal outfall 00C through outfalls 001, 002 and 003 to Lake Michigan. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations		Other Limitations		Monitoring Requirements	
	kg/day (lbs/day)				Measurement	Sample
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Frequency	Type
Flow (MGD)					Per Occurrence	Report total daily flow
Total Suspended Solids (mg/l)			30	100	Per Occurrence**	Grab
Oil and Grease (mg/l)***				15	Monthly	Grab

\*This flow is not to be considered as a limitation on either the quantity or rate over time of discharge.

\*\*Total Suspended Solids are to be monitored once per occurrence or weekly if the heating boiler is operated continuously for periods greater than one week.

\*\*\*After one year of monitoring for oil and grease, the permittee may attempt to demonstrate that further monitoring and limits for oil and grease for internal outfall 00C is no longer necessary. Upon successful demonstration by the permittee, this monitoring may be deleted from this permit. Any submittals shall be to the Chief of the Surface Water Quality Division.

a. Samples, measurements and/or observations taken in compliance with the monitoring requirements above shall be taken after the heating boilers and prior to the intake forebay (see figure 1 on page 7 of 12).

b. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

## 4. Final Effluent Limitations - Outfall 00F (filter backwash)

During the period beginning on the effective date of this permit and lasting until permit expiration, the permittee is authorized to discharge a maximum of five hundred eighty-three thousand two hundred (583,200) gallons per day\* of low volume wastes consisting of filter backwash from internal outfall 00F through outfalls 001, 002, and 003 to Lake Michigan. Such discharge shall be limited and monitored by the permittee as specified below:

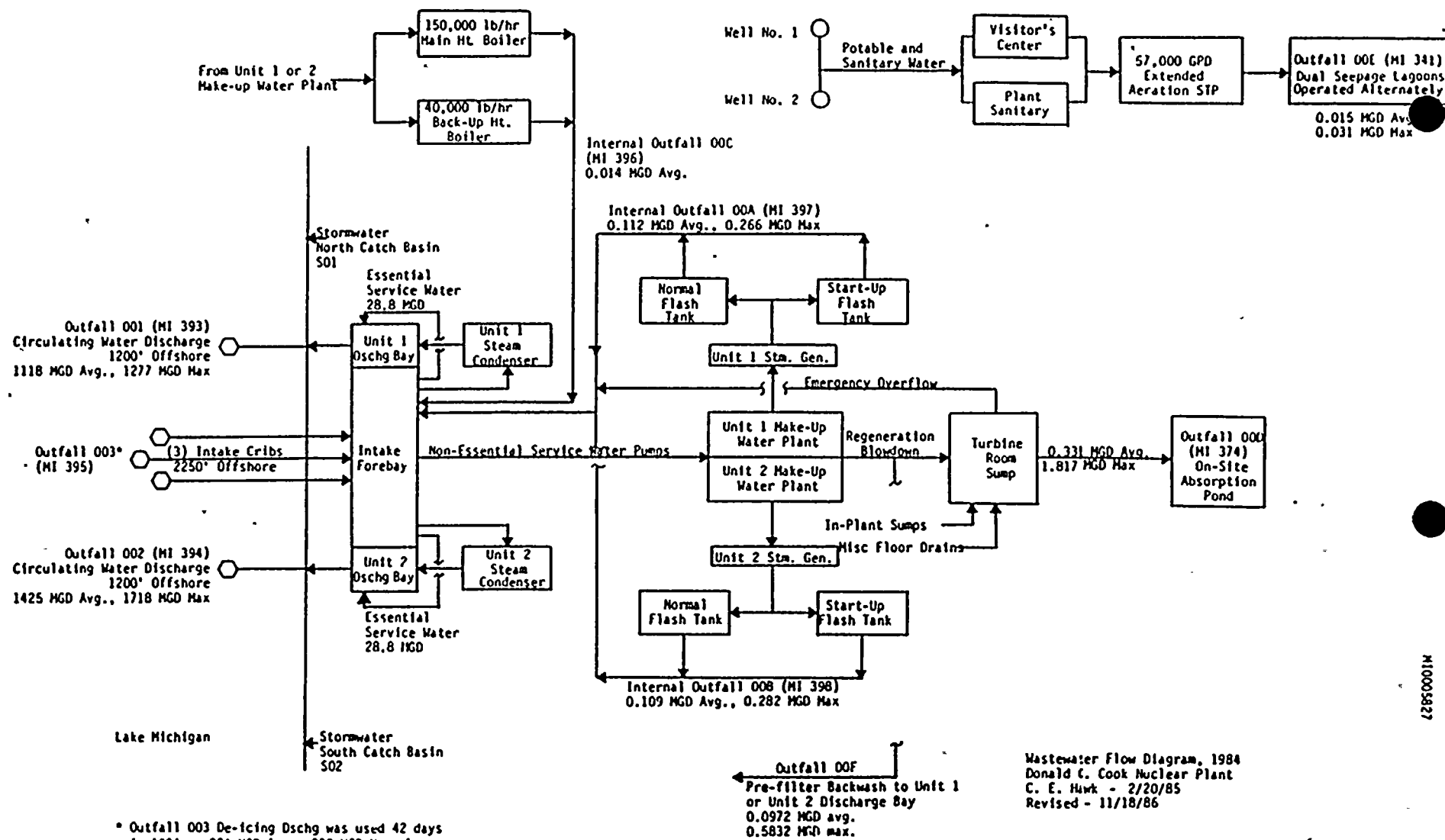
<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	<u>kg/day (lbs/day)</u>		<u>Other Limitations</u>		<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>		
Flow (MGD)					Daily	Report total daily flow
Total Suspended Solids (mg/l)			30	100	Weekly	Grab
Oil and Grease (mg/l)**				15	Monthly	Grab

\*This flow is not to be considered as a limitation on either quantity or rate over time of discharge.

\*\*After one year of monitoring for oil and grease, the permittee may attempt to demonstrate that further monitoring and limits for oil and grease for internal 00F is no longer necessary. Upon successful demonstration by the permittee, this monitoring may be deleted from the permit. Any submittals shall be to the Chief of the Surface Water Quality Division.

a. Samples, measurements and observations taken in compliance with the monitoring requirements above shall be taken prior to mixing with noncontact cooling water in intake forebay (see figure 1 on page 7 of 12).

b. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section 8-4 if a constituent of the additive or additives requires limiting.



\* Outfall 003 De-icing Dschg was used 42 days  
in 1984 -- 224 MGD Avg., 839 MGD Max



#### 5. Final Effluent Limitations - Intake Screen Backwash

During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge an unspecified amount of intake screen backwash to Lake Michigan. The Company shall collect and remove debris accumulated on the intake trash bars and dispose of such material on land in an appropriate manner.

#### 6. Final Effluent Limitations

During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee shall not discharge any polychlorinated biphenyls to receiving waters of the State of Michigan as a result of plant operations.

#### 7. Cooling Water Intakes

The permittee shall submit to the Chief of the Surface Water Quality Division a detailed study plan and time schedule for conducting environmental monitoring to determine the effects of the cooling water intake and obtain his approval thereof on or before NA--completed. The studies shall be adequate to demonstrate if the existing cooling water intake design, location, construction, and capacity reflects the best technology available for minimizing adverse environmental impact in accordance with Section 316(b), Public Law 92-500. The study shall be completed and the report thereon submitted on or before NA.

If, on the basis of the study report and applicable standards established pursuant to Section 316(b) of Public Law 92-500, the Commission determines that the intake structures do not reflect the best technology available for minimizing adverse environmental impact, it will so notify the company, specifying the reason(s) for its determination, and the company shall submit to the Chief of the Surface Water Quality Division, within 90 days of such notification, its plan and construction time schedule for minimizing the environmental impact of the intake structure.

#### 8. Special Condition

The Nuclear Regulatory Commission is responsible for regulating discharges of radioactive materials.



### 9. Special Condition

- This permit may be modified or, alternatively, revoked and reissued to comply with any applicable standard(s) or limitation(s) promulgated under Section 301(b)(2)(c)(d), 304(b)(2) and 307(a)(2) of the Act, if the effluent standard(s) or limitation(s) so promulgated:

- a. is(are) either different in condition or more stringent than any effluent limitation in the permit; or
- b. control(s) any pollutant not limited in the permit.

### 10. Special Condition - Notification Requirement

The discharger shall notify the Chief of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that a change in facility operation, maintenance, or construction has resulted or will result in the discharge of:

1. Detectable levels\* of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR Vol. 48, No. 64, April 1, 1983, Part 122.21, Appendix D, pp. 14176-14177 which were not acknowledged in the application\*\* or listed in the application at less than detectable levels.
2. Detectable levels\* of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information.
3. Any chemical at levels greater than five times the average level reported in the application\*\*.

Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the schedule of compliance.

\*The detectable level shall be defined as the Method Detection Limit (MDL) as given in Appendix B to Part 136, Federal Register, Vol. 49, No. 209, October 26, 1984, pp. 43430-31.

\*\*The application received May 4, 1979 and updated April 26, 1985.

## PART I

## B. 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: ☐A = applicable to your facility; ☐NA = not applicable to your facility.

☐A a. MOR Submittal Requirements - The permittee shall submit Monthly Operating Report (MOR) forms to the Data Center of the Michigan Department of Natural Resources for each calendar month of the authorized discharge period(s). The MOR's shall be postmarked no later than the 10th day of the month following each month of the authorized discharge period(s).

☐NA b. Retained Self-Monitoring Requirements - The permittee shall maintain a year-to-date log of retained self-monitoring results and provide such log for inspection to the staff of the

- ☐ (1.) Surface Water Quality Division of the Michigan Department of Natural Resources.
- ☐ (2.) Environmental Health Services Division, Michigan Department of Public Health
- ☐ (3.) Northern Peninsula Division, Michigan Department of Public Health
- ☐ (4.) Division of Health Facility Licensing & Certification, Michigan Department of Public Health

upon request.

The permittee shall certify, in writing, to the Chief of the Surface Water Quality Division of the Department of Natural Resources in accordance with the Schedule of Compliance Part I, C-NA, that;

- (1.) all retained self-monitoring requirements have been complied with and a year-to-date log has been maintained.
- (2.) the flow rate(s) (if part of retained self-monitoring results) from all outfalls have been substantially the same as the flow rate(s) authorized by this permit or if
- (3.) the flow rate(s) (if part of retained self-monitoring results) is (are) substantially different from the flow rate(s) authorized by this permit and the permittee shall provide reasons for the difference in flow rates.

☐A c. Groundwater Monitoring - The permittee shall submit Monthly Operating Report (MOR) forms to the Data Center of the Michigan Department of Natural Resources in accordance with the monitoring requirements set forth in Part III. The MOR's shall be postmarked no later than the 10th day of the month following each completed report period.

☐NA d. First Permit - Existing or Proposed Facility - Upon issuance of the first permit for an existing or proposed facility the permittee is exempt from submitting MOR's for a period of ninety (90) days from the date the permit is issued.

☐A e. Permit Reissuance or Modification - For any parameter added to the monitoring requirements as a result of permit reissuance or modification of the current permit, the permittee will be exempt from submitting MOR data for that parameter for a period of ninety (90) days from the date the permit is issued.

### 3. Definitions

a. The monthly average discharge is defined as the total discharge by weight, or concentration if specified, during the reporting month divided by the number of days in the reporting month that the discharge from the production or commercial facility occurred. When less than daily sampling occurs, the monthly average discharge shall be determined by the summation of the measured daily discharges by weight, or concentration if specified, divided by the number of days during the reporting month when the samples were collected, analyzed and reported.

b. The daily maximum discharge means the total discharge by weight, or concentration if specified, during any calendar day.

c. The Regional Administrator is defined as the Region V Administrator, U.S. EPA, located at 230 South Dearborn, 13th Floor, Chicago, Illinois 60606.

d. The Michigan Water Resources Commission is located in the Stevens T. Mason Building. The mailing address is Box 30028, Lansing, Michigan 48909.

### 4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(h) of the Act, under which such procedures may be required.

### 5. Recording 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.



#### 6. 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 above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Operating Report. Such increased frequency shall also be indicated.

#### 7. 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 Regional Administrator or the Michigan Water Resources Commission.

#### C. SCHEDULE OF COMPLIANCE

1. The permittee shall continue to operate the installed facilities to achieve the effluent limitations specified for outfalls 001, 002.

2. The permittee shall comply with the requirements of Section 10, Part II-A in accordance with the following:

a. Submit plans for approval to the Chief of the Surface Water Quality Division necessary to comply with the primary power provision of Section 10 in Part II on or before NA.

b. The permittee shall comply with the requirements of items 10a or 10b contained in Part II on or before NA. Notwithstanding the preceding sentence, the permittee shall at all times halt, reduce or otherwise control production in order to protect the waters of the State of Michigan upon reduction or loss of the primary source of power.

3. 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 statement of compliance or noncompliance. In the latter case, the statement shall include the cause of noncompliance, any remedial actions taken and the probability of meeting the next scheduled requirement. Failure to submit the written statement is just cause to pursue enforcement action pursuant to the Commission Act and the Part 21 Rules.

## PART II

## A. MANAGEMENT REQUIREMENTS

## 1. Duty to Comply

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.

It is the duty of the permittee to comply with all the terms and conditions of this permit. Any noncompliance with the Effluent Limitations, Special Conditions, or terms of this permit constitutes a violation of Public Acts 245 of 1929, as amended, and/or PL 92-500, as amended, and constitutes grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of an application for permit renewal.

## 2. Change of Conditions

Any anticipated facility expansion, production increases, or process modification which will result in new, different, or increased discharges of pollutants must be reported by submission of a new 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 pollutant not previously limited.

## 3. Containment Facilities

The permittee shall provide facilities for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials in accordance with the requirements of the Michigan Water Resources Commission Rules, Part 5. This requirement is included pursuant to Section 5 of the Michigan Water Resources Commission Act, 1929 PA 245, as amended, and the Part 5 rules of the General Rules of the Commission.

## 4. Operator Certification

The permittee shall have the waste treatment facilities under direct supervision of an operator certified by the Michigan Water Resources Commission, as required by Section 6a of the Michigan Act.

## 5. 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, the permittee shall provide the Chief of the Surface Water Quality Division with the following information, in writing, within five (5) days of becoming aware of such condition:

- 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 the steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

#### 6. Spill Notification

The permittee shall immediately report any spill or loss of any product, by-product, intermediate product, oils, solvents, waste material, or any other polluting substance which occurs to the surface waters or groundwaters of the state by calling the Department of Natural Resources 24-hour Emergency Response telephone number 1-800-292-4706; and the permittee shall within ten (10) days of the spill or loss, provide the state with a full written explanation as to the cause and discovery of the spill or loss, cleanup and recovery measures taken, preventative measures to be taken, and schedule of implementation. This requirement is included pursuant to Section 5 of the Michigan Water Resources Commission Act, 1929 PA 245, as amended.

#### 7. Facility Operation

The permittee shall at all times properly operate and maintain all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

#### 8. Adverse Impact.

The permittee shall take all reasonable steps to minimize any adverse impact to the surface or groundwaters of the state resulting from noncompliance with any effluent limitation specified in this permit including, but not limited to, such accelerated or additional monitoring as necessary to determine the nature and impact of the discharge in noncompliance.

#### 9. By-Passing

Any diversion from or by-pass 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, personal injury, 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 Michigan Water Resources Commission and the Regional Administrator, in writing, of such diversion or by-pass.

#### 10. Power Failures

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

- a. Provide an alternative power source sufficient to operate facilities utilized by permittee to maintain compliance with the effluent limitations and conditions of this permit which provision shall be indicated in this permit by inclusion of a specific compliance date in each appropriate "Schedule of Compliance for Effluent Limitations".

- b. Upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, the permittee shall halt, reduce or otherwise control production and/or all discharge in order to maintain compliance with the effluent limitations and conditions of this permit.

#### 11. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters, or the entry of toxic or harmful contaminants thereof onto the groundwaters in concentrations or amounts detrimental to the groundwater resource.

#### 12. Upset Noncompliance Notification

If a process "upset" (defined as an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee) has occurred, the permittee who wishes to establish the affirmative defense of upset shall notify the Chief of the Surface Water Quality Division by telephone within 24 hours of becoming aware of such conditions and within five (5) days, provide in writing, the following information:

- a. That an upset occurred and that the permittee can identify the specific cause(s) of the upset;
- b. That the permitted wastewater treatment facility was, at the time, being properly operated;
- c. That the permittee has specified and taken action on all responsible steps to minimize or correct any adverse impact in the environment resulting from noncompliance with his permit.

In any enforcement proceedings, the permittee seeking to establish the occurrence of an upset, has the burden of proof.

13. Any requirement of this permit which is included under the unique terms of Michigan, the Water Resources Commission, Act 245, P.A.1929, as amended, and rules promulgated thereunder, is not enforceable under the Federal Clean Water Act regulations.

**B. RESPONSIBILITIES****1. Right of Entry**

The permittee shall allow the Executive Secretary of the Michigan Water Resources Commission, the Regional Administrator and/or their authorized representatives, upon the presentation of the 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 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 discharge 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 Michigan Water Resources Commission and the Regional Administrator.

**3. Availability of Reports**

Except for data determined to be confidential under Section 308 of the Act and Rule 2128 of the Water Resources Commission Rules, Part 21, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the State Water Pollution Control Agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act and Sections 7 and 10 of the Michigan Act.

**4. 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.

## 5. Toxic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the 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.

## 6. Civil and Criminal Liability

Except as provided in permit conditions on "By-Passing" (Part II, A-9) and "Power Failures" (Part II, A-10), 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 accidents, equipment breakdowns, or labor disputes.

## 7. 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 may be subject under Section 311 of the Act except as are exempted by federal regulations.

## 8. 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 applicable State law or regulation under authority preserved by Section 310 of the Act.

## 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 violation of any Federal, State or local laws or regulations, nor does it obviate the necessity of obtaining such permits or approvals from other units of government as may be required by law.

## 10. 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 circumstances, if held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

## 11. Notice to Public Utilities (Miss Dig)

The issuance of this permit does not exempt the permittee from giving notice to public utilities and complying with each of the requirements of Act 53 of the Public Acts of 1974, being sections 460.701 to 460.718 of the Michigan Compiled Laws, when constructing facilities to meet the terms of this permit.

## PERMIT CONDITIONS

## PART III

## A. GROUNDWATER DISCHARGE AUTHORIZATION

The permittee is authorized to discharge from its wastewater treatment facility to the groundwaters of the state in accordance with the conditions below. This authorization shall continue until the Michigan Water Resources Commission makes its final determination on a state groundwater discharge permit.

## B. GROUNDWATER DISCHARGE REQUIREMENTS

During the period beginning on the date of issuance of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge process wastes and sanitary wastes to the groundwater. Such discharges shall be monitored by the permittee as specified below:

Process wastes shall be disposed of into the ground in such a manner and by means of such facilities and at such location that they shall not injuriously affect public health, welfare, or commercial, industrial, domestic, agricultural, recreational, or other uses of the underground waters.

Monitoring requirements for boiler water treatment systems process water (water softener, clarifiers, make-up demineralizers) and boiler cleaning water prior to discharge into the ground.

<u>PARAMETER TO BE MEASURED</u>	<u>FREQUENCY</u>	<u>TYPE OF SAMPLE</u>
Flow	Continuous	
pH	Continuous	Daily maximum, minimum
Cadmium	At times of boiler cleaning water discharge	Grab
Oil & Grease	Weekly	Grab
Sulfate (SO <sub>4</sub> )	At all times when regeneration of ion exchange resins occurs	24-Hr. Composite
Chloride (CL)	Weekly	24-Hr. Composite
Total Phosphorus	Weekly	24-Hr. Composite
Chemical Oxygen Demand	Weekly	24-Hr. Composite
Total Dissolved Solids	At all times when regeneration of ion exchange resins occurs	24-Hr. Composite

Monitoring requirements for sanitary wastewaters prior to discharge into the ground:

<u>PARAMETER TO BE MEASURED</u>	<u>FREQUENCY</u>	<u>REPORT</u>
Flow	Continuous	
State which seepage area is being utilized	List when seepage areas are alternated	List beginning and ending date and time of use of each seepage area

## Part III-B (continued)

Monitoring requirements for groundwater collected in monitoring wells:

<u>PARAMETER TO BE MEASURED</u>	<u>FREQUENCY</u>	<u>TYPE OF SAMPLE</u>
Record static water elevation	Quarterly	Reading at time of sampling
pH	Quarterly	Grab
Total Chromium (Cr)	Quarterly	Grab
Copper (Cu)	Quarterly	Grab
Sulfate(SO <sub>4</sub> )	Quarterly	Grab
Chloride (Cl)	Quarterly	Grab
Hardness	Quarterly	Grab
Nitrate-Nitrogen as N	Quarterly	Grab
Sodium (Na)	Quarterly	Grab
Polychlorinated Biphenyls	Quarterly	Grab
Chemical Oxygen Demand	Quarterly	Grab
Boron (B)	Quarterly	Grab
Total Phosphorus (P)	Quarterly	Grab
Total Dissolved Solids	Quarterly	Grab
Cadmium	Quarterly	Grab
Oil & Grease	Quarterly	Grab

Permit No. MI 0005827

MIXING ZONE

Facility: Indiana & Michigan Electric Company

<u>Outfall Number</u>	<u>Receiving Water</u>	<u>Discharge Location</u>
001, 002, 003	Lake Michigan	Berrien County, Lake Township (Town 6S, Range 19W) Sections 5, 6, 7 & 8

The mixing zone for purposes of evaluating compliance with the State Water Quality Standards is defined as an area of Lake Michigan equivalent to that of a circle with a radius of 2811 feet (570 acres) centered at the point of discharge.