DMB

American Electric Power System
INDIANA & MICHIGAN ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106
(616) 465-5901

PRIORITY ROUTING

Cover letter
Cover letter
ovg + 1

FILE

May 10, 1985

Mr. J. G. Keppler, Regional Administrator
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Operating License DPR-58/74
Docket Nos. 50-315/50-316

Dear Mr. Keppler:

Pursuant to the requirements of Appendix B, Part II - Nonradiological Environmental Protection Plan, Section 3.2, a copy of the application sent to the Michigan Water Resources Commission for renewal of National Pollutant Discharge Elimination System Permit No. MI0005827 is attached. This application is forwarded in accordance with Amendment No. 54 to Facility Operating License No. DPR-58 and Amendment No. 40 to Facility Operating License No. DPR-74 dated May 6, 1982.

Sincerely,

W. G. Smith, Jr.
Plant Manager

cc: John E. Dolan
M. P. Alexich
R. F. Kroeger
H. Brugger
NRC Resident Inspector
R. C. Callen, MPSC
G. Charnoff, Esq.
J. M. Hennigan
H. R. Denton, NRC
J. F. Stietzel
Dottie Sherman, ANI Library
INPO
PNSRC
All cc without attachments

IE24

bcc: T. A. Kriesel
J. E. Fryer
D. Fitzgerald-Stuart
T. P. Beilman

American Electric Power System
INDIANA & MICHIGAN ELECTRIC COMPANY
ONE SUMMIT SQUARE, P.O. BOX 60, FORT WAYNE, IN 46801
Telephone (219) 425-2111

April 26, 1985

Mr. Paul D. Zugger, Executive Secretary
Water Resources Commission
Department of Natural Resources
P. O. Box 30028
Lansing, MI 48909

Dear Mr. Zugger:

Re: Donald C. Cook Nuclear Plant
NPDES Permit No. MI0005827
Michigan Permit No. M00064

Enclosed is an updated Industrial and Commercial Wastewater Discharge Application, which you requested. Two complete copies are enclosed since the Donald C. Cook Nuclear Plant has both surface water and groundwater discharges. A hydrogeologic evaluation of the Cook Plant is being completed and will be forwarded as soon as it becomes available. Please forward one copy of the permit application to the Groundwater Quality Division.

You also requested the Company's determination of applicable categorical effluent limitations. Attached please find a table listing the proposed effluent limits and bases for limitations. During the past six years since the first permit renewal application was submitted to the Michigan WRC, three drafts of the new permit were proposed; negotiations between the Company and the Permit Writer have resulted in the deletion of several monitoring requirements. Also, U.S. EPA has revised the "Effluent Guidelines for the Steam Electric Generating Point Source Category" eliminating monitoring of some previously required parameters. Following is a summary of discussion relative to those past monitoring requirements which have not been included in the table of proposed effluent limitations.

OUTFALLS 00A, 00B, and 00C

Internal outfalls 00A, 00B, and 00C are the effluents of the Unit 1 steam generator blowdown, Unit 2 steam generator blowdown, and plant heating boiler blowdown, respectively. The Company proposes to delete monitoring requirements for iron and copper since the new Steam Electric Power Industry Effluent Limitations Guidelines now consider boiler blowdown a low-volume waste which has no iron and copper limitations.

U.S. EPA determined that the concentrations of iron and copper are below the level of treatability and in such small quantity that they will not cause toxic effects (45 FR 68339). Moreover, in March 1979 the Michigan Water Resources Commission approved a permit modification which would delete iron and copper effluent limits for these discharges.

An effluent limit for pH has not been included since the steam generator and boiler chemistry require that the blowdown pH be close to, or in excess of, 9.0. Also, the volume of blowdown is so small compared to the volume of cooling water into which it is discharged (see flow diagram attached), and since the cooling water pH naturally ranges between 6 and 9, little purpose is served by regulating the steam generator or boiler blowdown pH.

Also, an effluent limit for Oil and Grease (O&G) has not been included since the existence of O&G in the steam generator or boiler blowdown is highly unlikely. No O&G materials are allowed to be fed into the steam generators/boiler since such materials, if introduced, would deposit on heat transfer surfaces, be decomposed to leave a char deposit, thereby interfering with heat transfer causing a loss of efficiency and an increase in operating and maintenance costs. Furthermore, even if O&G materials were accidently introduced into the steam generator/boiler, their decomposition therein would prevent passage of any O&G into the blowdown.

OUTFALL 003

Outfall 003 is a deicing discharge and is used on a very limited basis. Furthermore, Outfall 003 effluent consists of either Outfalls 001 and 002 effluents which are regularly monitored. Therefore, monitoring requirements for Outfall 003 are redundant and an unnecessary operating expense and the Company proposes to delete Outfall 003 monitoring requirements.

ESSENTIAL SERVICE WATER

Essential service water is pumped from the intake forebay for the purpose of non-contact cooling of miscellaneous small equipment (as opposed to the main turbine condensers) and is discharged to the circulating water discharge bay. The maximum design temperature rise is 16°F. Since no water treatment additives are used in this system, heat is the only pollutant added to Lake Michigan.

The essential service water system maximum design flow is 28.8 MGD for each unit. Therefore, compared to the 1277 MGD discharge from Unit 1 and the 1718 MGD discharge from Unit 2, this additional heat load to Lake Michigan is insignificant. Furthermore, the D. C. Cook Plant 316(a) Demonstration approved by the Michigan Water Resources Commission on 5/27/77 shows that the total heat load from D. C. Cook Plant (including the heat discharged through the essential service water discharge) did not adversely affect the aquatic environment. Therefore,

no monitoring requirements have been proposed for the essential service water discharge.

PCBs

The Company proposes that the BAT effluent guideline be adopted, "There shall be no net discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid." However, it is very unlikely for a net discharge of PCBs to occur since all PCB equipment is contained within the main plant building, and within enclosures designed to contain oil spills. Moreover, an extensive PCB survey conducted by the Michgian DNR Hazardous Waste Division on September 7, 1983 found that the PCB "transformers and overall the facility, appeared to be in very good condition, clean, and orderly, more so than average." The Company proposes that monitoring for PCBs not be required unless a spill of PCBs to a waterway occurs.

COMPLIANCE RECORD

Two additional questions which you requested to be addressed are:

1) Is Donald C. Cook Nuclear Plant capable of complying with existing federal regulations without construction,

2) Indicate the Company's assessment of compliance with the existing permit.

Donald C. Cook Nuclear Plant has a good history of compliance with the existing NPDES permit and with existing federal regulations. Construction is not needed to comply with the existing regulations.

PLANNED EQUIPMENT MODIFICATION

Additional demineralization equipment is planned to be installed in 1985 as a part of the discharge treatment system. These demineralizers will be used in lieu of existing evaporators. The installation of the demineralizers will result in an increase in the amount of boron discharged to Lake Michigan. The total yearly maximum amount estimated to be discharged is 13,477 pounds of boron. On the basis of the total annual discharge of circulating water from Units 1 and 2, the concentration of boron in the discharge should increase to between 0.0015 ppm and 0.002 ppm.

Since this equipment is not yet in service, additional NPDES screening data for boron will be provided when a representative sample of the discharge can be taken.

I hope you find the attached information helpful in preparing the Donald C. Cook Nuclear Plant NPDES permit. Please call me if you require additional information or if you have any questions regarding the information enclosed. We believe that a meeting with the people responsible for drafting the permit would aid them in understanding our

facility. Therefore, we propose a meeting either at the D. C. Cook Plant or in your office at your convenience.

Very truly yours,

Jack A. Druckemiller
Manager of Environmental Affairs

JAD/CEH/cmk

Enclosures

c: W. G. Smith

bc: T. A. Miskimen/T. E. Webb/C. E. Hawk
R. E. Zahler
R. W. Reeves - w/o enclosures

DONALD C. COOK NUCLEAR PLANT NPDES PERMIT APPLICATION PROPOSED EFFLUENT LIMITS

Outfall	Description	Type of Discharge	Parameter and Effluent Limit	Measurement Frequency	Sample Type	Basis of Limitation
001	Unit 1 Condenser Non-Contact Cooling Water	Surface Water	pH: 6.0 to 9.0 PCBs: No net discharge **TRC: 0.2 mg/l Cl_2 Application Rate: 2 Hrs/Unit/Day	Weekly NA Daily	Grab NA Grab	40 CFR 423.12 & 423.13
			Flow (MGD): 1,406	Daily	Calculated	Design capacity (Unit 1 condenser non-contact cooling water, Unit 1 steam generator blowdown, heating boiler blowdown)
			Temperature (^{o}F) Intake: * Discharge: *	 Daily Daily	 Continuous Continuous	*The Company's 316(a) demonstration was approved on 5/27/77 and showed that the discharges of 001, 002, and 003 would not increase the temperature of Lake Michigan at the edge of a mixing zone, described as an area equivalent to 570 acres (a defined area equivalent to that of a circle of radius of 2811 feet) more than 3^{o}F above the existing natural temperature or above the following monthly maximum temperature: Jan 45 Feb 45 Mar 45 Apr 55 May 60 Jun 70 Jul 80 Aug 80 Sep 80 Oct 65 Nov 60 Dec 50
			Heat Addition (BTU/HR)	Daily	Calculation	
			**Applicable when	chlorinating		

DONALD C. COOK NUCLEAR PLANT NPDES PERMIT APPLICATION PROPOSED EFFLUENT LIMITS

Outfall	Description	Type of Discharge	Parameter and Effluent Limit	Measurement Frequency	Sample Type	Basis of Limitation
002	Unit 2 Condenser Non-Contact Cooling Water	Surface Water	pH: 6.0 to 9.0	Weekly	Grab	40 CFR 423.12 & 423.13
			PCBs: No net discharge	NA	NA	
			**TRC: 0.2 mg/l Cl_2 Application Rate: 2 Hrs/Unit/Day	Daily	Grab	
			Flow (MGD): 1,892	Daily	Calculation	Design Capacity (Unit 2 condenser non-contact cooling water, Unit 2 steam generator blowdown, heating boiler blowdown)
			Temperature (^{o}F)			
			Intake: *	Daily	Continuous	*The Company's 316(a) demonstration was approved on 5/27/77 and showed that the discharges of 001, 002, and 003 would not increase the temperature of Lake Michigan at the edge of a mixing zone, described as an area equivalent to 570 acres (a defined area equivalent to that of a circle of radius of 2811 feet) more than 3^{o}F above the existing natural temperature or above the following monthly maximum temperature:
			Discharge: *	Daily	Continuous	
						Jan 45 Feb 45 Mar 45 Apr 55 May 60 Jun 70 Jul 80 Aug 80 Sep 80 Oct 65 Nov 60 Dec 50
			Heat Addition (BTU/HR)	Daily	Calculation	
			**Applicable when	chlorinating		

DONALD C. COOK NUCLEAR PLANT NPDES PERMIT APPLICATION PROPOSED EFFLUENT LIMITS

Out-fall	Description	Type of Discharge	Parameter and Effluent Limit	Measurement Frequency	Sample Type	Basis of Limitation
003	De-icing Discharge	Surface Water	Flow (MGD): 1,892	Daily*	Calculation	Design Capacity
00A	Unit 1 Steam Generator Blowdown	Internal	PCBs: No net discharge TSS: 30 mg/l Avg. 100 mg/l Max.	Once/24 Hrs	Grab	40 CFR 423.12 & 423.13
			Flow (MGD): 0.864	Once/24 Hrs	Calculated	Unit Start-up, Design Capacity
00B	Unit 2 Steam Generator Blowdown	Internal	PCBs: No net discharge TSS: 30 mg/l Avg. 100 mg/l Max.	Once/24 Hrs	Grab	40 CFR 423.12 & 423.13
			Flow (MGD): 0.864	Once/24 Hrs	Calculated	Unit Start-up, Design Capacity
00C	Heating Boiler Blowdown	Internal	PCBs: No net discharge TSS: 30 mg/l Avg. 100 mg/l Max.	Once/24 Hrs	Grab	40 CFR 423.12 & 423.13
			Flow (MGD): 0.019	Once/24 Hrs	Calculated	Design Capacity

* During De-icing operations

DONALD C. COOK NUCLEAR PLANT NPDES PERMIT APPLICATION PROPOSED EFFLUENT LIMITS						
Out-fall	Description	Type of Discharge	Parameter and Effluent Limit	Measurement Frequency	Sample Type	Basis of Limitation
00D	Utility Wastewater Discharge	Ground-Water	Flow (MGD): 2.5 COD (mg/l) TDS (mg/l) Sulfate (mg/l) Chloride (mg/l) Phosphorous (mg/l) Cadmium (µg/l) O&G (mg/l) pH: 5.5 to 9.0 Lagoon Observation	Continuous Weekly Daily Daily Weekly Weekly * Weekly Daily Weekly	Measurement Composite Composite Composite Composite Composite Composite Grab Composite Visual	Michigan Permit No. M00064 and previous agreement between the Company and State authorities. Note: Sample to be taken prior to discharge to the on-site absorption pond.
00E	Sanitary Sewage	Ground-Water	Flow (MGD): 0.031 Seepage Area Used	Daily List date when areas are alternated	Measurement	Design Capacity

* During boiler cleaning

DONALD C. COOK NUCLEAR PLANT NPDES PERMIT APPLICATION PROPOSED EFFLUENT LIMITS

Out-fall	Description	Type of Discharge	Parameter and Effluent Limit	Measurement Frequency	Sample Type	Basis of Limitation
110400	Groundwater Monitoring Wells	N.A.	Static Elevation	Quarterly	Prior to Sampling	Michigan Permit M00064 and previous agreement between the Company and State authorities.
110401			pH	Quarterly	Grab	
110402			Chromium	Quarterly	Grab	
110403			Copper	Quarterly	Grab	
			Sulfate	Quarterly	Grab	
			Chloride	Quarterly	Grab	
			Hardness	Quarterly	Grab	
			Nitrate-Nitrogen	Quarterly	Grab	
			Sodium	Quarterly	Grab	
			PCBs	Quarterly	Grab	
			COD	Quarterly	Grab	
			Boron	Quarterly	Grab	
			Phosphorous	Quarterly	Grab	
			T. Dissolved Solids	Quarterly	Grab	
			Cadmium	Quarterly	Grab	
			Oil & Grease	Quarterly	Grab	

INDUSTRIAL AND COMMERCIAL WASTEWATER DISCHARGE APPLICATION

TABLE OF CONTENTS

SECTION I

EPA I.D. NUMBER: MID086476211

PERMIT NUMBER: MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

APPLICATION FOR DISCHARGE PERMIT IS:

MODIFICATION ☐ EXISTING ☐ NEW ☐ INCREASED USE ☐ REISSUANCE ☒

ITEM 1 — PHYSICAL LOCATION ADDRESS AND INFORMATION

A. PARENT COMPANY/DEPT./OWNER: INDIANA & MICHIGAN ELECTRIC CO

B. DIV./BUREAU: NA

C. PLANT OR FACILITY: D C COOK PLANT

D. TYPE OF FACILITY: STM ELECTRIC GEN

E. STANDARD INDUSTRIAL CLASSIFICATION (REFER TO TABLE II): 4911

F. STREET NUMBER: NA

G. STREET NAME: RED ARROW HIGHWAY

H. CITY NAME: BRIDGMAN

MI

I. ZIP CODE: 49106

J. TOWNSHIP: LAKE

K. COUNTY (REFER TO TABLE I) CO. NAME: BERRIEN CO. NUMBER: 11

L. NAME OF AUTHORIZED CONTACT PERSON: JACK A DRUCKEMILLER

M. TITLE: MGR ENV AFFAIRS

N. TELEPHONE NUMBER: 219 425 2118

O. ADDRESS (IF DIFFERENT FROM ABOVE): P O BOX 60

P. CITY NAME: FORT WAYNE

Q. STATE: IN

R. ZIP CODE: 46801

S. TYPE OF TREATMENT FACILITY (REFER TO TABLE II): 1L 5A 4G 5P

T. PROGRAM FOR EFFECTIVE RESIDUALS MANAGEMENT: ☐ YES ☐ NO ☒ N.A. DATE SUBMITTED ____ DATE IMPLEMENTED ____

U. BACK-UP POWER SOURCE: ☒ YES ☐ NO ☐ N.A.

V. POLLUTION INCIDENT PREVENTION PLAN: ☒ YES ☐ NO ☐ N.A. DATE SUBMITTED 6/12/80 DATE IMPLEMENTED 6/82

W. NUMBER OF EMPLOYEES: 566

X. TYPE OF DISCHARGE: GROUNDWATER ☐ BOTH ☒ SURFACE WATER ☐

Y. DO YOU HAVE A CERTIFIED OPERATOR? ☒ YES ☐ NO

OPERATOR'S NAME: T. A. KRIESEL S.S.# 312 46 1681

FACILITY # 11005 4 CERTIFICATION # W0008 41

ITEM 2 — MAILING ADDRESS OF APPLICANT

A. NAME: RICHARD C MENGE

B. NAME: INDIANA & MICHIGAN ELECTRIC CO

C. STREET ADDRESS OR POST OFFICE BOX: P O BOX 60

D. CITY NAME: FORT WAYNE

E. STATE: IN

F. ZIP CODE: 46801

REQUIRED SIGNATURE

I, the applicant, certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE OF APPLICANT

SIGNATURE: R. C. Menge DATE: 4/26/85

NAME: R. C. Menge TITLE: Vice President

SIGNATURE OF LOCAL GOVERNMENTAL REPRESENTATIVE (SEE NOTE ON REVERSE SIDE)

SIGNATURE: DATE:

NAME: TITLE:

SECTION I

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 3 — SOURCE OF WATER SUPPLY

A. MUNICIPAL	NAME	NA
	QUANTITY (MAX.)	GALLONS/DAY
B. SURFACE WATER INTAKE 1,277 1,718 2.4	NAME OF WATERWAY	LAKE MICHIGAN
	QUANTITY (MAX.)	29740000 GALLONS/DAY
C. PRIVATE WELL	QUANTITY (MAX.)	31000 GALLONS/DAY
D. OTHER	SPECIFY	NA
	QUANTITY (MAX.)	GALLONS/DAY

ITEM 4 — FACILITY WATER USAGE

A. PROCESS WATER (INCLUDING CONTACT COOLING WATER)	QUANTITY (MAX.) 2.4	2400000 GALLONS/DAY
B. NONCONTACT COOLING WATER	QUANTITY (MAX.) 1,277 1,718	29950000000 GALLONS/DAY
C. SANITARY WATER	QUANTITY (MAX.)	31000 GALLONS/DAY
D. OTHER	SPECIFY	NA
	QUANTITY (MAX.)	GALLONS/DAY

ITEM 5 — CRITICAL MATERIALS & PRIORITY POLLUTANTS USED • STORED • PRODUCED

REFER TO TABLES IV & V

UNITS CODE
1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS

MATERIAL 1	NAME OF SUBSTANCE	HYDRAZINE
	PARAMETER NUMBER	00302012
	QUANTITY	1000 UNITS 2 /YEAR
MATERIAL 2	NAME OF SUBSTANCE	CHLORINE
	PARAMETER NUMBER	07782505
	QUANTITY	450 UNITS 1 /YEAR
MATERIAL 3	NAME OF SUBSTANCE	MERCURY
	PARAMETER NUMBER	CLASS0211
	QUANTITY	26 UNITS 1 /YEAR
MATERIAL 4	NAME OF SUBSTANCE	POLYCHLORINATED BIPHENYLS
	PARAMETER NUMBER	CLASS0799
	QUANTITY	7473 UNITS 2 /YEAR
MATERIAL 5	NAME OF SUBSTANCE	TRIARYL PHOSPHATE ESTERS
	PARAMETER NUMBER	CLASS0844
	QUANTITY	6100 UNITS 2 /YEAR
MATERIAL 6	NAME OF SUBSTANCE	TOLUENE
	PARAMETER NUMBER	00108883
	QUANTITY	25 UNITS 1 /YEAR
MATERIAL 7	NAME OF SUBSTANCE	LITHIUM
	PARAMETER NUMBER	CLASS0200
	QUANTITY	150 UNITS 1 /YEAR

SECTION I

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI 0005827

ITEM 3 — SOURCE OF WATER SUPPLY

A. MUNICIPAL — NAME	
QUANTITY (MAX.)	GALLONS/DAY
B. SURFACE WATER INTAKE — NAME OF WATERWAY	
QUANTITY (MAX.)	GALLONS/DAY
C. PRIVATE WELL — QUANTITY (MAX.)	GALLONS/DAY
D. OTHER — SPECIFY	
QUANTITY (MAX.)	GALLONS/DAY

ITEM 4 — FACILITY WATER USAGE

A. PROCESS WATER (INCLUDING CONTACT COOLING WATER) — QUANTITY (MAX.)	
B. NONCONTACT COOLING WATER — QUANTITY (MAX.)	
C. SANITARY WATER — QUANTITY (MAX.)	
D. OTHER — SPECIFY	
QUANTITY (MAX.)	

ITEM 5 — CRITICAL MATERIALS & PRIORITY POLLUTANTS USED • STORED • PRODUCED

REFER TO TABLES IV & V

UNITS CODE
1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS

MATERIAL 1	NAME OF SUBSTANCE	Asbestos
	PARAMETER NUMBER	0 1 3 3 2 2 1 4
	QUANTITY	* UNITS /YEAR
MATERIAL 2	NAME OF SUBSTANCE	
	PARAMETER NUMBER	
	QUANTITY	UNITS /YEAR
MATERIAL 3	NAME OF SUBSTANCE	
	PARAMETER NUMBER	
	QUANTITY	UNITS /YEAR
MATERIAL 4	NAME OF SUBSTANCE	
	PARAMETER NUMBER	
	QUANTITY	UNITS /YEAR
MATERIAL 5	NAME OF SUBSTANCE	
	PARAMETER NUMBER	
	QUANTITY	UNITS /YEAR
MATERIAL 6	NAME OF SUBSTANCE	
	PARAMETER NUMBER	
	QUANTITY	UNITS /YEAR
MATERIAL 7	NAME OF SUBSTANCE	
	PARAMETER NUMBER	
	QUANTITY	UNITS /YEAR

* Indeterminate amount contained in plant insulation, believed not present in discharge.

SECTION I

PERMIT NUMBER → MI 0005827

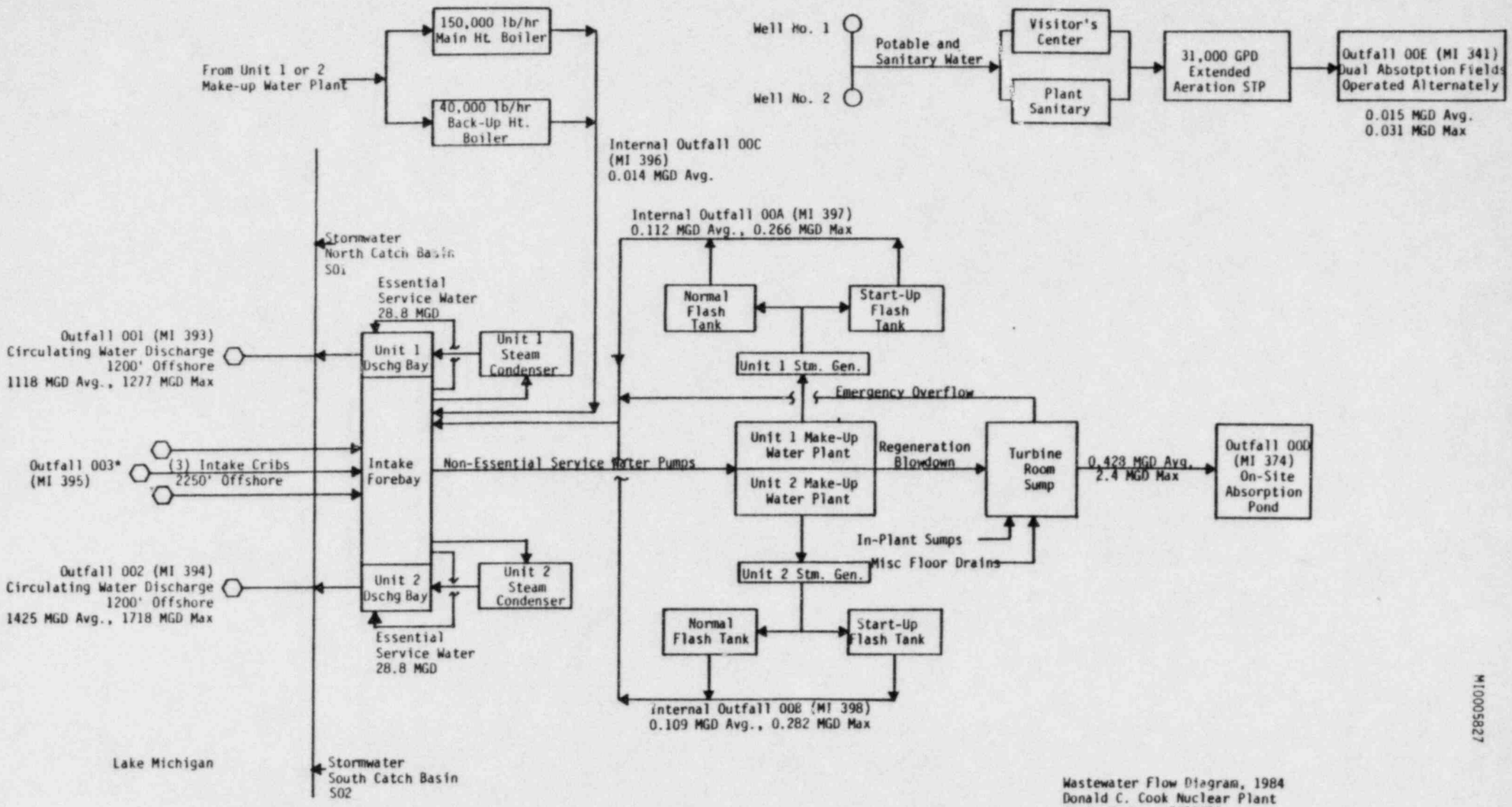
SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 6

DESCRIPTION AND DIAGRAM

A. PROVIDE A BRIEF DESCRIPTION AND LINE DIAGRAM SHOWING THE WATER FLOW THROUGH YOUR FACILITY FROM INTAKE TO DISCHARGE. SHOW ALL OPERATIONS CONTRIBUTING WASTEWATER, INCLUDING PROCESS AND PRODUCTION AREAS, SANITARY FLOWS, COOLING WATER, AND STORMWATER RUNOFF. YOU MAY GROUP SIMILAR OPERATIONS INTO A SINGLE UNIT. THE WATER BALANCE SHOULD SHOW AVERAGE FLOWS. SHOW ALL SIGNIFICANT LOSSES OF WATER TO PRODUCTS, ATMOSPHERE, AND DISCHARGE. YOU SHOULD USE ACTUAL MEASUREMENTS WHENEVER AVAILABLE; OTHERWISE USE YOUR BEST ESTIMATE.

SEE LINE DIAGRAM ON FOLLOWING PAGE



Wastewater Flow Diagram, 1984
Donald C. Cook Nuclear Plant
C. E. Hawk - 2/20/85

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

MI0005827

Section I, Item 6 cont'd.
OUTFALL DESCRIPTIONS

OUTFALL 001 - Unit 1 Circulating Water Discharge

Outfall 001 is a noncontact condenser cooling water discharge which is continuous during periods of Unit 1 operation. The Outfall also contains steam generator blowdown from Unit 1 (internal Outfall 00A described below) and sometimes plant heating boiler blowdown (internal Outfall 00C described below). Condenser cooling water is withdrawn from Lake Michigan, screened to remove trash, routed through the Unit 1 surface condensers to condense steam, and routed back to Lake Michigan at a slightly elevated temperature. No water treatment chemicals or biocides are added; therefore, the discharged cooling water quality is essentially the same as the intake water.

OUTFALL 002 - Unit 2 Circulating Water Discharge

Outfall 002 is a noncontact condenser cooling water discharge which is continuous during periods of Unit 2 operation. The Outfall also contains steam generator blowdown from Unit 2 (internal Outfall 00B described below) and sometimes plant heating boiler blowdown (internal Outfall 00C described below). Condenser cooling water is withdrawn from Lake Michigan, screened to remove trash, routed through the Unit 2 surface condensers to condense steam, and routed back to Lake Michigan at a slightly elevated temperature. No water treatment chemicals or biocides are added; therefore, the discharged cooling water quality is essentially the same as the intake water.

OUTFALL 003 - Deicing Discharge

Outfall 003 is a deicing discharge which is used on a very limited basis. A portion of the flow from Outfall 001 or Outfall 002 is directed through the middle one of the three intake structures to prevent ice buildup which would restrict intake flow. Use of this discharge is generally required only during the period from January 1 through April 5.

OUTFALL 00A - Unit 1 Steam Generator Blowdown

The steam generator requires ultra high purity water for its operation. Make-up water used in the steam generator is withdrawn from the intake forebay and essentially all of the natural impurities are removed in demineralizers. Blowdown from the steam generator is directed through a series of three demineralizers prior to discharge back into the intake forebay. Impurities contained in the steam generator blowdown consist primarily of insoluble iron and copper. Boiler treatment additives consist of ammonia for pH adjustment and hydrazine for oxygen scavenging. These additives are either consumed

during the steam generator operation or removed in demineralizers prior to discharge.

OUTFALL 00B - Unit 2 Steam Generator Blowdown

The steam generator requires ultra high purity water for its operation. Make-up water used in the steam generator is withdrawn from the intake forebay and essentially all of the natural impurities are removed in demineralizers. Blowdown from the steam generator is directed through a series of three demineralizers prior to discharge back into the intake forebay. Impurities contained in the steam generator blowdown consist primarily of insoluble iron and copper. Boiler treatment additives consist of ammonia for pH adjustment and hydrazine for oxygen scavenging. These additives are either consumed during the steam generator operation or removed in demineralizers prior to discharge.

OUTFALL 00C - Plant Heating Boiler

One main heating boiler (150,000 lb/hr capacity) and one back-up heating boiler (40,000 lb/hr capacity) operate to supply heating and miscellaneous steam only when Unit 1 and Unit 2 steam generators are out of service. Impurities from the boiler water, consisting primarily of insoluble iron and copper, are discharged to the intake forebay.

The boiler is fired once per month for testing purposes to insure its availability. Due to its infrequent use and the fact that the boiler seldom achieves steady-state operation, the plant heating boiler blowdown generally contains somewhat greater concentrations of iron and copper than the steam generator blowdowns.

OUTFALL 00D - Utility Wastewater Discharge

Utility wastewaters from within the plant are discharged to an on-site absorption pond. The ultimate disposition of these wastes is to the groundwater and then to Lake Michigan. These wastewaters include wastes from the boiler water treatment systems (water softeners, clarifiers, make-up demineralizers) and periodically "boiler lay up water" (water containing 200 ppm hydrazine and 6 ppm ammonia used to scavenge oxygen and protect equipment during long unit outages). Other chemicals present in the discharge include dilute sodium sulfate (the chemical product of neutralizing sulfuric acid and sodium hydroxide) and alum.

This discharge is monitored quarterly by a network of 4 groundwater monitoring wells.

OUTFALL 00E - Sanitary Waste Discharge

Sanitary wastes are segregated and routed to an activated sludge treatment plant. The treated wastewater is then directed to an on-site absorption pond for subsequent discharge to the groundwater.

SECTION I

PERMIT NUMBER → MI0005827

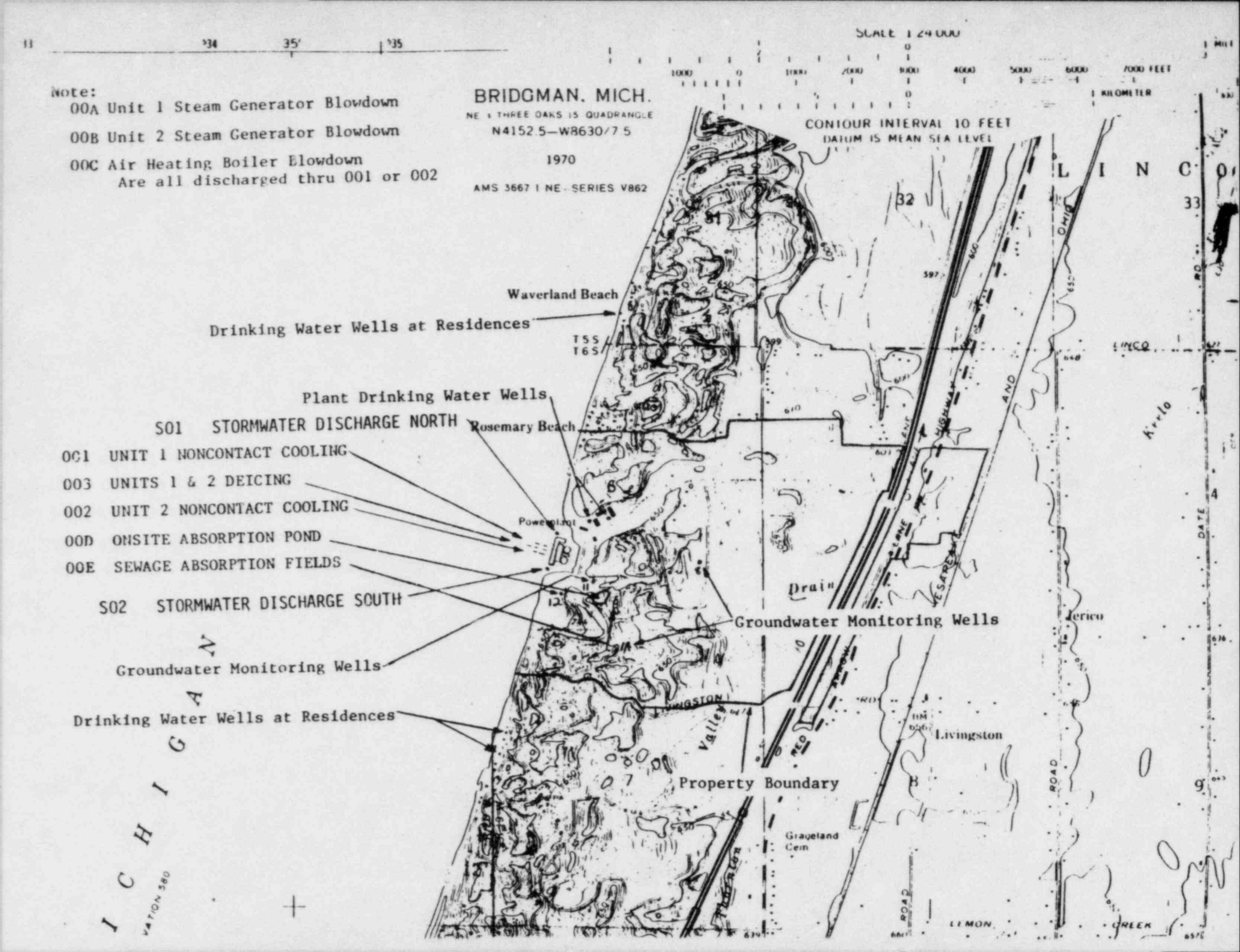
SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 7

LOCATION MAP

A. PROVIDE A MAP OF THE TREATMENT FACILITY LOCATION, SHOWING THE LOCATION OF THE DISCHARGE POINT(S) AND OTHER INFORMATION REQUESTED ON REVERSE SIDE OF PAGE.

SEE TOPO MAP ON FOLLOWING PAGE


Note:
00A Unit 1 Steam Generator Blowdown
00B Unit 2 Steam Generator Blowdown
00C Air Heating Boiler Blowdown
Are all discharged thru 001 or 002
BRIDGMAN, MICH.
NE ¼ THREE OAKS 15 QUADRANGLE
N4152.5—W8630/7.5
1970
AMS 3667 I NE-SERIES V862
SCALE 1:24 000
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL
Waverland Beach
Drinking Water Wells at Residences
Plant Drinking Water Wells
Rosemary Beach
S01 STORMWATER DISCHARGE NORTH
001 UNIT 1 NONCONTACT COOLING
003 UNITS 1 & 2 DEICING
002 UNIT 2 NONCONTACT COOLING
00D ONSITE ABSORPTION POND
00E SEWAGE ABSORPTION FIELDS
S02 STORMWATER DISCHARGE SOUTH
Groundwater Monitoring Wells
Drinking Water Wells at Residences
Groundwater Monitoring Wells
Property Boundary
Livingston
Jerico
Grageland Cem
LINCOLN
MICHIGAN

SECTION I

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 8 — CONCENTRATED ANIMAL FEEDING OPERATION

A. DO YOU OPERATE A CONCENTRATED ANIMAL FEEDING FACILITY? (IF NO CONTINUE TO ITEM 10)	☐ YES ☒ NO
B. NUMBER OF ACRES USED FOR CONFINEMENT FEEDING?	____ . ____ ACRES
C. IF THERE IS OPEN CONFINEMENT, HAS A RUNOFF DIVERSION AND CONTROL SYSTEM BEEN CONSTRUCTED? (IF NO, CONTINUE TO ITEM 9)	☐ YES ☐ NO
D. WHAT IS THE DESIGN BASIS FOR THE CONTROL SYSTEM? CHECK ONE OF THE FOLLOWING AND ENTER NUMBER OF INCHES OF RAIN?	☐ 10 YEAR, 24 HOUR STORM ____ . ____ INCHES ☐ 25 YEAR, 24 HOUR STORM ____ . ____ INCHES ☐ OTHER (SPECIFY) ____ . ____ INCHES
TYPE ____	
E. WHAT IS THE NUMBER OF ACRES OF CONTRIBUTING DRAINAGE?	____ . ____ ACRES
F. WHAT IS THE DESIGN SAFETY FACTOR FOR THIS CONTROL SYSTEM?	____ . ____

ITEM 9 — TYPE & NUMBER OF ANIMALS IN OPEN AND HOUSED CONFINEMENT

TYPE 1	A. LIST TYPE OF ANIMAL.	
	B. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN OPEN CONFINEMENT.	
	C. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN HOUSED CONFINEMENT.	
TYPE 2	A. LIST TYPE OF ANIMAL.	
	B. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN OPEN CONFINEMENT.	
	C. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN HOUSED CONFINEMENT.	
TYPE 3	A. LIST TYPE OF ANIMAL.	
	B. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN OPEN CONFINEMENT.	
	C. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN HOUSED CONFINEMENT.	
TYPE 4	A. LIST TYPE OF ANIMAL.	
	B. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN OPEN CONFINEMENT.	
	C. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN HOUSED CONFINEMENT.	
TYPE 5	A. LIST TYPE OF ANIMAL.	
	B. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN OPEN CONFINEMENT.	
	C. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN HOUSED CONFINEMENT.	
TYPE 6	A. LIST TYPE OF ANIMAL.	
	B. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN OPEN CONFINEMENT.	
	C. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN HOUSED CONFINEMENT.	
TYPE 7	A. LIST TYPE OF ANIMAL.	
	B. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN OPEN CONFINEMENT.	
	C. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN HOUSED CONFINEMENT.	
TYPE 8	A. LIST TYPE OF ANIMAL.	
	B. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN OPEN CONFINEMENT.	
	C. GIVE THE NUMBER OF THIS TYPE OF ANIMAL IN HOUSED CONFINEMENT.	

2. 200 mature dairy cattle (whether milked or dry cows).

3. 750 swine each weighing over 25 kilograms (approximately 55 pounds).

4. 150 horses.

5. 3,000 sheep or lambs.

6. 16,500 turkeys.

7. 30,000 laying hens or broilers (if the facility has continuous overflow watering).

8. 9,000 laying hens or broilers (if the facility has a liquid manure handling system).

9. 1,500 ducks.

10. 300 animal units.

AND

*Either one of the following conditions are met: pollutants are discharged into waters of the United States through a manmade ditch, flushing system or other similar manmade device ("manmade" means constructed by man and used for the purpose of transporting wastes); or pollutants are discharged directly into waters of the United States which originate outside of and pass over, across, or through the facility or otherwise come into direct contact with the animals confined in the operation.

Provided, however, that no animal feeding operation is a concentrated animal feeding operation as defined above if such animal feeding operation discharges only in the event of a 25 year, 24 hour storm event.

NOTE: The permittee shall continue with Section II and address items 1, 2, 4, and 5 on pages 31, 33, and 35.

SECTION I

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 10 — AQUATIC ANIMAL PRODUTION FACILITY

A.	DO YOU OPERATE AN AQUATIC ANIMAL PRODUCTION FACILITY? (IF NO, CONTINUE TO ITEM 12)	☐ YES ☒ NO
B.	INDICATE THE TOTAL NUMBER OF PONDS, RACEWAYS AND SIMILAR STRUCTURES AT YOUR FACILITY.	____ . PONDS
		____ . RACEWAYS
	SPECIFY ____	____ . OTHER
C.	INDICATE IN WHICH CALENDAR MONTH MAXIMUM FEEDING OCCURS.	____
D.	ENTER THE TOTAL NUMBER OF POUNDS OF FOOD FED DURING THIS MONTH?	____ POUNDS

ITEM 11 — SPECIES OF AQUATIC ANIMALS PRODUCED AT THIS FACILITY

SPECIES 1	A. IS THIS SPECIE A WARM OR COLD WATER SPECIE?	☐ WARM ☐ COLD
	B. GIVE THE NAME OF THIS SPECIE.	____
	C. ENTER THE TOTAL HARVESTABLE WEIGHT OF THIS SPECIE PRODUCED BY THIS FACILITY PER YEAR IN POUNDS.	____ POUNDS
	D. ENTER THE MAXIMUM WEIGHT PRESENT FOR THIS SPECIE WHICH WOULD REPRESENT YOUR NORMAL OPERATION.	____ POUNDS
SPECIES 2	A. IS THIS SPECIE A WARM OR COLD WATER SPECIE?	☐ WARM ☐ COLD
	B. GIVE THE NAME OF THIS SPECIE.	____
	C. ENTER THE TOTAL HARVESTABLE WEIGHT OF THIS SPECIE PRODUCED BY THIS FACILITY PER YEAR IN POUNDS.	____ POUNDS
	D. ENTER THE MAXIMUM WEIGHT PRESENT FOR THIS SPECIE WHICH WOULD REPRESENT YOUR NORMAL OPERATION.	____ POUNDS
SPECIES 3	A. IS THIS SPECIE A WARM OR COLD WATER SPECIE?	☐ WARM ☐ COLD
	B. GIVE THE NAME OF THIS SPECIE.	____
	C. ENTER THE TOTAL HARVESTABLE WEIGHT OF THIS SPECIE PRODUCED BY THIS FACILITY PER YEAR IN POUNDS.	____ POUNDS
	D. ENTER THE MAXIMUM WEIGHT PRESENT FOR THIS SPECIE WHICH WOULD REPRESENT YOUR NORMAL OPERATION.	____ POUNDS
SPECIES 4	A. IS THIS SPECIE A WARM OR COLD WATER SPECIE?	☐ WARM ☐ COLD
	B. GIVE THE NAME OF THIS SPECIE.	____
	C. ENTER THE TOTAL HARVESTABLE WEIGHT OF THIS SPECIE PRODUCED BY THIS FACILITY PER YEAR IN POUNDS.	____ POUNDS
	D. ENTER THE MAXIMUM WEIGHT PRESENT FOR THIS SPECIE WHICH WOULD REPRESENT YOUR NORMAL OPERATION.	____ POUNDS
SPECIES 5	A. IS THIS SPECIE A WARM OR COLD WATER SPECIE?	☐ WARM ☐ COLD
	B. GIVE THE NAME OF THIS SPECIE.	____
	C. ENTER THE TOTAL HARVESTABLE WEIGHT OF THIS SPECIE PRODUCED BY THIS FACILITY PER YEAR IN POUNDS.	____ POUNDS
	D. ENTER THE MAXIMUM WEIGHT PRESENT FOR THIS SPECIE WHICH WOULD REPRESENT YOUR NORMAL OPERATION.	____ POUNDS
SPECIES 6	A. IS THIS SPECIE A WARM OR COLD WATER SPECIE?	☐ WARM ☐ POUNDS
	B. GIVE THE NAME OF THIS SPECIE.	____
	C. ENTER THE TOTAL HARVESTABLE WEIGHT OF THIS SPECIE PRODUCED BY THIS FACILITY PER YEAR IN POUNDS.	____ POUNDS
	D. ENTER THE MAXIMUM WEIGHT PRESENT FOR THIS SPECIE WHICH WOULD REPRESENT YOUR NORMAL OPERATION.	____ POUNDS

ITEM 12

MAILING LIST OF ADJACENT PROPERTY OWNERS

LIST NAME AND MAILING ADDRESS OF ALL PROPERTY OWNERS ADJACENT TO THE TREATMENT FACILITY AND OR DISCHARGE/DISPOSAL AREA.

NORTH

EDWARD P. CAPARO
17650 JUDAY LAKE DR. NORTH
SOUTH BEND, IN. 46635

SOUTH

LAKE TOWNSHIP
C/O GERALD L. WASKO
TOWNSHIP SUPERVISOR
1410 SHAWNEE RD.
BRIDGEMAN, MI. 49106

WEST

LAKE MICHIGAN

EAST

RED ARROW HIGHWAY

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 1

DISCHARGE LOCATION • SCHEDULE • FLOW RATE • WASTEWATER TYPE CODE

1 CONTACT COOLING
2 NONCONTACT COOLING
3 PROCESS
4 SANITARY
5 STORMWATER

UNIT CODE
1 MGY
2 MGD
3 GPD

OUTFALL NUMBER	001
A. LOCATION OF DISCHARGE	NW ¼, SW ¼, SECTION 06, TOWN 06S, RANGE 19W
B. NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER)	LAKE MICHIGAN
C. DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E)	☐ YES ☒ NO
D. IF YES, LIST DISCHARGE PERIODS — NA	MO. / DAY ___ ___ THROUGH MO. / DAY ___ ___
	MO. / DAY ___ ___ THROUGH MO. / DAY ___ ___
	MO. / DAY ___ ___ THROUGH MO. / DAY ___ ___
E. LAND APPLICATION RATE — NA	IN./HR. ___.___ HR./DAY ___.___ IN./WK. ___.___ ☐ NA
F. TYPE OF WASTEWATER DISCHARGE	WASTEWATER TYPE CODE: 2 3 ___ ___ ___ ___
G. DISCHARGE SCHEDULE (YEARLY AVERAGE)	HOURS/DAY 24 DAY/YEAR 365
H. DISCHARGE FLOW RATE — BASIS: EXPECTED FLOW RATES	TOTAL YEARLY 4661054 UNIT CODE 1
	DAILY MINIMUM 0 UNIT CODE 2
	DAILY MAXIMUM 1277 UNIT CODE 2
I. THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT.	AUTHORIZED 1406 UNIT CODE 2
J. MAXIMUM DESIGN DISCHARGE FLOW RATE.	DESIGN 1406 UNIT CODE 2

ITEM 2

WATER TREATMENT ADDITIVES

UNITS CODE
1 Mg/l
2 Ug/l

A. DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3)	☐ YES ☒ NO
B. NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES. — NA	NAME / FUNCTION
C. NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES. — NA	
D. EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES. — NA	MINIMUM / UNITS CODE / AVERAGE / UNITS CODE / MAXIMUM / UNITS CODE
ADDITIVE NAME	___ ___ ; ___ ___ ; ___ ___
ADDITIVE NAME	___ ___ ; ___ ___ ; ___ ___
ADDITIVE NAME	___ ___ ; ___ ___ ; ___ ___
E. DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES? — NA	☐ YES ☐ NO
F. WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY? — NA	% REMOVAL / DISCHARGE FREQUENCY HRS./DAY / DAYS/WK.
ADDITIVE NAME	___ ___ ___
ADDITIVE NAME	___ ___ ___
ADDITIVE NAME	___ ___ ___
G. AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE. — NA	

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 3

PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 001

PROCESS 1

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: 011 COOK WATER 4911

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY 24 DAYS/YEAR 365

C. PROCESS VOLUME FLOW RATE (BASIS: 1984 FLOW DATA)

		UNIT CODE
TOTAL YEARLY	39587.1	5
DAILY MINIMUM	0	6
DAILY MAXIMUM	1274	6

D. PROCESS PRODUCTION RATE: NA — UNITS / TIME

PROCESS 2

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 3

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 4

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 5

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

UNITS CODE
1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME
1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI 0005827

ITEM 4 — GROUNDWATER DISCHARGE INFORMATION

	OUTFALL NUMBER	001
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☐ YES ☒ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT. NA	☐ YES ☐ NO
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 46) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF "YES" ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION. NA	☐ YES ☐ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES. NA	☐ YES ☐ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 6) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES. NA	☐ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5 — EXPECTED WASTEWATER CHARACTERISTICS

UNITS CODE: 1 Mg/l; 2 Ug/l; 3 COUNTS/100 ml; 4 S.U.; 5 °F; 6 LBS/DAY

SAMPLE TYPE: 1 GRAB; 2 24 HOUR COMPOSITE

A. DISCHARGE CHARACTERISTICS

	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TYPE CODE
*BOD5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)			1		
*COD (CHEMICAL OXYGEN DEMAND)			1		
*TOC (TOTAL ORGANIC CARBON)			1		
*AMMONIA NITROGEN (AS N)			1		
*TOTAL SUSPENDED SOLIDS			1		
TOTAL PHOSPHORUS (AS P)			1		
TOTAL RESIDUAL CHLORINE			1		
DISSOLVED OXYGEN	MIN		1		
*PH			4		
FECAL COLIFORM BACTERIA			3		
*TEMPERATURE (SUMMER)			5		
*TEMPERATURE (WINTER)			5		

B. OTHER WASTEWATER CHARACTERISTICS

OIL & GREASE					

See attached sheets for data.
Note: Results for triarylphosphate esters and hydrazine in Attachment I.

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275
412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021684
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
I361	NPDES PART V-B		
M010	Aluminum (Al)	< 0.1	mg/l
I040	Barium (Ba)	< 0.1	mg/l
M150	Cobalt (Co)	< 0.01	mg/l
I190	Iron,total (Fe)	0.05	mg/l
M230	Magnesium (Mg)	12	mg/l
I240	Manganese (Mn)	< 0.01	mg/l
M260	Molybdenum (Mo)	< 0.03	mg/l
I340	Tin (Sn)	< 1	mg/l
M350	Titanium (Ti)	< 0.5	mg/l
I055	Boron (B)	< 0.2	mg/l
W060	Bromide (Br)	< 2	mg/l
I225	Color, True	110	Pt-Co
W310	* Fluoride, total (F)	~~.67~~ < 0.5	mg/l
I390	Nitrate (N)	0.5	mg/l
W410	Nitrite (N)	< 0.01	mg/l
I435	Nitrogen, Kjeldahl (N)	< 0.1	mg/l
W440	Nitrogen, Organic (N)	< 0.1	mg/l
I540	Phosphorus, total (P)	0.02	mg/l
W730	Sulfate, turbidimetric (SO4)	27	mg/l
I740	Sulfide (S)	< 0.1	mg/l
W760	Sulfite (SO3)	< 2	mg/l
I770	Surfactants (MBAS)	< 0.1	mg/l
M362	NPDES PART V-C TOXIC METALS		
M020	Antimony (Sb)	< 0.1	mg/l
M030	Arsenic (As)	< 0.001	mg/l
I050	Beryllium (Be)	< 0.002	mg/l
M090	Cadmium (Cd)	< 0.005	mg/l
I140	Chromium (Cr)	< 0.01	mg/l
M160	Copper (Cu)	< 0.01	mg/l
I200	Lead (Pb)	< 0.03	mg/l
M250	Mercury (Hg)	< 0.0002	mg/l

*A recheck of the same sample was made by NUS.
The first reported result was in error.

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VENDOR NO:
WORK ORDER NO: 55830
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SAMPLE IDENTIFICATION: UNIT 1 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
M270	Nickel (Ni)	< 0.03	mg/l
M290	Selenium (Se)	< 0.004	mg/l
M300	Silver (Ag)	< 0.01	mg/l
M330	Thallium (Tl)	< 0.1	mg/l
M390	Zinc (Zn)	< 0.01	mg/l
M270	Cyanide, total (CN)	< 0.005	mg/l
M500	Phenolics	< 0.02	mg/l
M220	Lithium (Li)	< 0.01	mg/l
M110	VOLATILES-PP IN WATER		
OV01	Acrolein	< 100	ug/l
MV02	Acrylonitrile	< 100	ug/l
OV03	Benzene	< 5	ug/l
MV05	Bromoform	< 5	ug/l
OV06	Carbon Tetrachloride	< 5	ug/l
MV07	Chlorobenzene	< 5	ug/l
OV08	Chlorodibromomethane	< 5	ug/l
MV09	Chloroethane	< 10	ug/l
OV10	2-Chloroethylvinyl Ether	< 10	ug/l
MV11	Chloroform	< 5	ug/l
OV12	Dichlorobromomethane	< 5	ug/l
MV14	1,1-Dichloroethane	< 5	ug/l
OV15	1,2-Dichloroethane	< 5	ug/l
MV16	1,1-Dichloroethylene	< 5	ug/l
OV17	1,2-Dichloropropane	< 5	ug/l
MV18	1,3-Dichloropropylene	< 5	ug/l
OV19	Ethylbenzene	< 5	ug/l
MV20	Methyl Bromide	< 10	ug/l
OV21	Methyl Chloride	< 10	ug/l
MV22	Methylene Chloride	< 5	ug/l
OV23	1,1,2,2-Tetrachloroethane	< 5	ug/l
MV24	Tetrachloroethylene(Perchloro)	< 5	ug/l
OV25	Toluene	< 5	ug/l

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NUS SAMPLE NO: 15021684
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
0V26	1,2-Trans-Dichloroethylene	< 5	ug/l
0V27	1,1,1-Trichloroethane	< 5	ug/l
‡V28	1,1,2-Trichloroethane	< 5	ug/l
0V29	Trichloroethylene	< 5	ug/l
‡V31	Vinyl chloride	< 5	ug/l
0120	ACIDS - PP IN WATER		
0A01	2-Chlorophenol	< 10	ug/l
0A02	2,4-Dichlorophenol	< 10	ug/l
‡A03	2,4-Diaethylphenol	< 10	ug/l
0A04	4,6-Dinitro-o-cresol	< 50	ug/l
‡A05	2,4-Dinitrophenol	< 50	ug/l
0A06	2-Nitrophenol	< 10	ug/l
‡A07	4-Nitrophenol	< 50	ug/l
0A09	p-Chloro-m-cresol	< 10	ug/l
‡A09	Pentachlorophenol	< 50	ug/l
0A10	Phenol	< 10	ug/l
‡A11	2,4,6-Trichlorophenol	< 10	ug/l
0E30	Acid Extraction-Water		
0130	BASE NEUTRALS - PP IN WATER		
0B01	Acenaphthene	< 10	ug/l
‡B02	Acenaphthylene	< 10	ug/l
0B03	Anthracene	< 10	ug/l
‡B04	Benzidine	< 50	ug/l
0B05	Benzo(a)Anthracene	< 10	ug/l
‡B06	Benzo(a)Pyrene	< 10	ug/l
0B07	3,4-Benzofluoranthene	< 10	ug/l
‡B08	Benzo(ghi)Perylene	< 10	ug/l
0B09	Benzo(k)Fluoranthene	< 10	ug/l
‡B10	Bis(2-Chloroethoxy)Methane	< 10	ug/l
0B11	Bis(2-Chloroethyl)Ether	< 10	ug/l
‡B12	Bis(2-Chloroisopropyl)Ether	< 10	ug/l
0B13	Bis(2-Ethylhexyl)Phthalate	< 10	ug/l

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SAMPLE IDENTIFICATION: UNIT 1 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB14	4-Bromophenyl Phenyl Ether	< 10	ug/l
OB15	Butyl Benzyl Phthalate	< 10	ug/l
#B16	2-Chloronaphthalene	< 10	ug/l
OB17	4-Chlorophenyl Phenyl Ether	< 10	ug/l
#B18	Chrysene	< 10	ug/l
OB19	Dibenzo(a,h)Anthracene	< 10	ug/l
#B20	1,2-Dichlorobenzene	< 10	ug/l
OB21	1,3-Dichlorobenzene	< 10	ug/l
#B22	1,4-Dichlorobenzene	< 10	ug/l
OB23	3,3'-Dichlorobenzidine	< 10	ug/l
#B24	Diethyl Phthalate	< 10	ug/l
OB25	Dimethyl Phthalate	< 10	ug/l
#B26	Di-N-Butyl Phthalate	< 10	ug/l
OB27	2,4-Dinitrotoluene	< 10	ug/l
#B28	2,6-Dinitrotoluene	< 10	ug/l
OB29	Di-N-Octyl Phthalate	< 10	ug/l
#B30	1,2-Diphenylhydrazine(Azobz)	< 20	ug/l
OB31	Fluoranthene	< 10	ug/l
#B32	Fluorene	< 10	ug/l
OB33	Hexachlorbenzene	< 10	ug/l
#B34	Hexachlorobutadiene	< 10	ug/l
OB35	Hexachloro-cyclopentadiene	< 10	ug/l
#B36	Hexachloroethane	< 10	ug/l
OB37	Indeno(1,2,3 cd)Pyrene	< 10	ug/l
#B38	Isophorone	< 10	ug/l
OB39	Naphthalene	< 10	ug/l
#B40	Nitrobenzene	< 10	ug/l
OB41	N-Nitrosodimethylamine	< 10	ug/l
#B42	N-Nitrosodi-N-Propylamine	< 10	ug/l
OB43	N-Nitrosodiphenylamine	< 10	ug/l
#B44	Phenanthrene	< 10	ug/l
OB45	Pyrene	< 10	ug/l

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412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021684
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB46	1,2,4-Trichlorobenzene	< 10	ug/l
OE25	Base Neutral Extraction-Water		
0141	PRIORITY POLLUTANT PCB'S		
OE11	PCB Extraction - Water		
OP19	PCB-1016	< 0.5	ug/l
OP20	PCB-1221	< 0.5	ug/l
OP21	PCB-1232	< 0.5	ug/l
OP22	PCB-1242	< 0.5	ug/l
OP23	PCB-1248	< 0.5	ug/l
OP24	PCB-1254	< 1.0	ug/l
OP25	PCB-1260	< 1.0	ug/l
R450	RADIUM 226 AND 228		
R804	Radium-226	< 0.4	pCi/l
R805	Radium-228	< 1	pCi/l
R800	Gross Alpha	< 4	pCi/l
R801	Gross Beta	5.0 +/-1.2	pCi/l
0032	Ammonia as N (distillation)	< 0.1	mg/l
W050	BOD, 5-day (02)	< 1	mg/l
0100	Carbon, organic (C)	24.6	mg/l
W120	COD (02)	< 5	mg/l
0610	Solids, suspended at 103 C	2	mg/l

COMMENTS:

Reviewed and Approved by: PM

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LAB ANALYSIS REPORT

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ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021685
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 DISCHARGE - GRAB #1 02/25 0825

TEST	DETERMINATION	RESULTS	UNITS
#A32	Fecal Colifora - MPN	15	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
#490	pH	8.1	
W680	Oil, extraction-gravimetric	1.0	mg/l

COMMENTS:

Reviewed and Approved by: JMC

A Halliburton Company

CLIENT ORIGINAL

NUS CORPORATION

Laboratory Services Division
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Pittsburgh, PA 15205

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LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021686
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 DISCHARGE - GRAB #2 02/25 1420

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
B490	pH	8.1	
W680	Oil, extraction-gravimetric	3.2	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021687
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 DISCHARGE - GRAB #3 02/25 2021

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	4	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	8.1	
W680	Oil, extraction-gravimetric	1.8	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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Laboratory Services Division
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LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021688
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 DISCHARGE - GRAB #4 02/26 0225

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	8.1	
W680	Oil, extraction-gravimetric	1.8	mg/l

COMMENTS:

Reviewed and Approved by: JMC

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	0 0 1
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	☒ YES ☐ NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	S T M E L E C P W R
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	☒ YES ☐ NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42. IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 43). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW)	☒ VOLATILE ☐ BASE/NEUTRAL ☒ ACID ☐ PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-43 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☐ NOT APPLICABLE/BELIEVED ABSENT ☒ PRESENT/DATA IS ATTACHED
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 45 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); 0, 0-DIMETHYL 0-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE. MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANALYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	☐ NOT APPLICABLE ☒ APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE 0 AND IIA THROUGH VA PAGES 42-43. IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE FINAL EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER: 001

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

- ☐ 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 35)
- ☒ 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 37)
- ☒ 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 39)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- ☐ NOT APPLICABLE
- ☒ APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR. COMP

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED. ☒ YES ☐ NO

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 1 — DISCHARGE LOCATION • SCHEDULE • FLOW RATE

OUTFALL NUMBER: 002

A. LOCATION OF DISCHARGE: NW ¼, SW ¼, SECTION 06, TOWN 06S, RANGE 19W

B. NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER): LAKE MICHIGAN

C. DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E) ☐ YES ☒ NO

D. IF YES, LIST DISCHARGE PERIODS: NA

	MO. / DAY			MO. / DAY
		THROUGH		
		THROUGH		
		THROUGH		

E. LAND APPLICATION RATE: NA — IN./HR. ____ HR./DAY ____ IN./WK. ____ ☐ NA

F. TYPE OF WASTEWATER DISCHARGE: WASTEWATER TYPE CODE 2 3

G. DISCHARGE SCHEDULE (YEARLY AVERAGE): HOURS/DAY 24 DAY/YEAR 365

H. DISCHARGE FLOW RATE — BASIS: EXPECTED FLOW RATE

		UNIT CODE
TOTAL YEARLY	6270710	1
DAILY MINIMUM	0	2
DAILY MAXIMUM	1718	2

I. THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT: AUTHORIZED 1892 UNIT CODE 2

J. MAXIMUM DESIGN DISCHARGE FLOW RATE: DESIGN 1892 UNIT CODE 2

WASTEWATER TYPE CODE
1 CONTACT COOLING
2 NONCONTACT COOLING
3 PROCESS
4 SANITARY
5 STORMWATER

UNIT CODE
1 MGY
2 MGD
3 GPD

ITEM 2 — WATER TREATMENT ADDITIVES

A. DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3) ☐ YES ☒ NO

B. NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES: NA

NAME	FUNCTION

C. NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES: NA

D. EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES: NA

	MINIMUM	UNITS CODE	AVERAGE	UNITS CODE	MAXIMUM	UNITS CODE
ADDITIVE NAME						
ADDITIVE NAME						
ADDITIVE NAME						

E. DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES? NA ☐ YES ☐ NO

F. WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY? NA

	% REMOVAL	DISCHARGE FREQUENCY HRS./DAY	DISCHARGE FREQUENCY DAYS/WK.
ADDITIVE NAME			
ADDITIVE NAME			
ADDITIVE NAME			

G. AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE. NA

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 3

PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 002

PROCESS 1

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: U2 COOL WATER 4911

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY 24 DAYS/YEAR 365

C. PROCESS VOLUME FLOW RATE — BASIS: 1984 FLOW DATA

		UNIT CODE
TOTAL YEARLY	3547117	5
DAILY MINIMUM	0	6
DAILY MAXIMUM	1682	6

D. PROCESS PRODUCTION RATE: NA — UNITS / TIME

PROCESS 2

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE: ____ UNITS / TIME

PROCESS 3

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE: ____ UNITS / TIME

PROCESS 4

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE: ____ UNITS / TIME

PROCESS 5

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE: ____ UNITS / TIME

UNITS CODE
1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME
1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI 0005827

ITEM 4 — GROUNDWATER DISCHARGE INFORMATION

	OUTFALL NUMBER	002
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☐ YES ☒ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT. NA	☐ YES ☐ NO
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 46) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF "YES" ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION. NA	☐ YES ☐ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES. NA	☐ YES ☐ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 6) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES. NA	☐ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5 — EXPECTED WASTEWATER CHARACTERISTICS

UNITS CODE: 1 Mg/l; 2 Ug/l; 3 COUNTS/100 ml; 4 S.U.; 5 °F; 6 LBS/DAY

SAMPLE TYPE: 1 GRAB; 2 24 HOUR COMPOSITE

A. DISCHARGE CHARACTERISTICS

	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TYPE CODE
*BOD5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)			1		
*COD (CHEMICAL OXYGEN DEMAND)			1		
*TOC (TOTAL ORGANIC CARBON)			1		
*AMMONIA NITROGEN (AS N)			1		
*TOTAL SUSPENDED SOLIDS			1		
TOTAL PHOSPHORUS (AS P)			1		
TOTAL RESIDUAL CHLORINE			1		
DISSOLVED OXYGEN	MIN		1		
*PH			4		
FECAL COLIFORM BACTERIA			3		
*TEMPERATURE (SUMMER)			5		
*TEMPERATURE (WINTER)			5		

B. OTHER WASTEWATER CHARACTERISTICS

OIL & GREASE					

See attached sheets for data.
Note: Results for triarylphosphate esters and hydrazine in Attachment I.

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LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
REPORT DATE: 03/26/85
ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021704
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
W361	NPDES PART V-B		
M010	Aluminum (Al)	< 0.1	mg/l
W040	Barium (Ba)	< 0.1	mg/l
M150	Cobalt (Co)	< 0.01	mg/l
W190	Iron,total (Fe)	0.06	mg/l
M230	Magnesium (Mg)	12	mg/l
W240	Manganese (Mn)	0.01	mg/l
M260	Molybdenum (Mo)	< 0.03	mg/l
W340	Tin (Sn)	< 1	mg/l
M350	Titanium (Ti)	< 0.5	mg/l
W055	Boron (B)	< 0.2	mg/l
W060	Bromide (Br)	< 2	mg/l
W225	Color, True	30	Pt-Co
W310	Fluoride, total (F)	< 0.5	mg/l
W390	Nitrate (N)	0.6	mg/l
W410	Nitrite (N)	< 0.01	mg/l
W435	Nitrogen, Kjeldahl (N)	< 0.1	mg/l
W440	Nitrogen, Organic (N)	< 0.1	mg/l
W540	Phosphorus, total (P)	0.03	mg/l
W730	Sulfate, turbidimetric (SO4)	28	mg/l
W740	Sulfide (S)	< 0.1	mg/l
W760	Sulfite (SO3)	< 2	mg/l
W770	Surfactants (MBAS)	< 0.1	mg/l
M362	NPDES PART V-C TOXIC METALS		
M020	Antimony (Sb)	< 0.1	mg/l
M030	Arsenic (As)	< 0.001	mg/l
W050	Beryllium (Be)	< 0.002	mg/l
M090	Cadmium (Cd)	< 0.005	mg/l
W140	Chromium (Cr)	< 0.01	mg/l
M160	Copper (Cu)	< 0.01	mg/l
W200	Lead (Pb)	< 0.03	mg/l
M250	Mercury (Hg)	< 0.0002	mg/l

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Pittsburgh, PA 15205

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Cliff Mine Road
Pittsburgh, PA 15275
412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
REPORT DATE: 03/26/85
ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021704
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
M270	Nickel (Ni)	< 0.03	mg/l
M290	Selenium (Se)	< 0.004	mg/l
M300	Silver (Ag)	< 0.01	mg/l
M330	Thallium (Tl)	< 0.1	mg/l
M390	Zinc (Zn)	< 0.01	mg/l
W270	Cyanide, total (CN)	< 0.005	mg/l
M500	Phenolics	0.03	mg/l
M220	Lithium (Li)	< 0.01	mg/l
M110	VOLATILES-PP IN WATER		
OV01	Acrolein	< 100	ug/l
MV02	Acrylonitrile	< 100	ug/l
OV03	Benzene	< 5	ug/l
MV05	Bromoform	< 5	ug/l
OV06	Carbon Tetrachloride	< 5	ug/l
MV07	Chlorobenzene	< 5	ug/l
OV08	Chlorodibromoethane	< 5	ug/l
MV09	Chloroethane	< 10	ug/l
OV10	2-Chloroethylvinyl Ether	< 10	ug/l
MV11	Chloroform	< 5	ug/l
OV12	Dichlorobromoethane	< 5	ug/l
MV14	1,1-Dichloroethane	< 5	ug/l
OV15	1,2-Dichloroethane	< 5	ug/l
MV16	1,1-Dichloroethylene	< 5	ug/l
OV17	1,2-Dichloropropane	< 5	ug/l
MV18	1,3-Dichloropropylene	< 5	ug/l
OV19	Ethylbenzene	< 5	ug/l
MV20	Methyl Bromide	< 10	ug/l
OV21	Methyl Chloride	< 10	ug/l
MV22	Methylene Chloride	< 5	ug/l
OV23	1,1,2,2-Tetrachloroethane	< 5	ug/l
MV24	Tetrachloroethylene(Perchloro)	< 5	ug/l
OV25	Toluene	< 5	ug/l

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DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
OV26	1,2-Trans-Dichloroethylene	< 5	ug/l
OV27	1,1,1-Trichloroethane	< 5	ug/l
#V28	1,1,2-Trichloroethane	< 5	ug/l
OV29	Trichloroethylene	< 5	ug/l
#V31	Vinyl chloride	< 5	ug/l
0120	ACIDS - PP IN WATER		
OA01	2-Chlorophenol	< 10	ug/l
OA02	2,4-Dichlorophenol	< 10	ug/l
#A03	2,4-Dimethylphenol	< 10	ug/l
OA04	4,6-Dinitro-o-cresol	< 50	ug/l
#A05	2,4-Dinitrophenol	< 50	ug/l
OA06	2-Nitrophenol	< 10	ug/l
#A07	4-Nitrophenol	< 50	ug/l
OA08	p-Chloro-m-cresol	< 10	ug/l
#A09	Pentachlorophenol	< 50	ug/l
OA10	Phenol	< 10	ug/l
#A11	2,4,6-Trichlorophenol	< 10	ug/l
OE30	Acid Extraction-Water		
0130	BASE NEUTRALS - PP IN WATER		
OB01	Acenaphthene	< 10	ug/l
#B02	Acenaphthylene	< 10	ug/l
OB03	Anthracene	< 10	ug/l
#B04	Benzidine	< 50	ug/l
OB05	Benzo(a)Anthracene	< 10	ug/l
#B06	Benzo(a)Pyrene	< 10	ug/l
OB07	3,4-Benzofluoranthene	< 10	ug/l
#B08	Benzo(ghi)Perylene	< 10	ug/l
OB09	Benzo(k)Fluoranthene	< 10	ug/l
#B10	Bis(2-Chloroethoxy)Methane	< 10	ug/l
OB11	Bis(2-Chloroethyl)Ether	< 10	ug/l
#B12	Bis(2-Chloroisopropyl)Ether	< 10	ug/l
OB13	bis(2-Ethylhexyl)Phthalate	< 10	ug/l

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VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB14	4-Bromophenyl Phenyl Ether	< 10	ug/l
OB15	Butyl Benzyl Phthalate	< 10	ug/l
†B16	2-Chloronaphthalene	< 10	ug/l
OB17	4-Chlorophenyl Phenyl Ether	< 10	ug/l
†B18	Chrysene	< 10	ug/l
OB19	Dibenzo(a,h)Anthracene	< 10	ug/l
†B20	1,2-Dichlorobenzene	< 10	ug/l
OB21	1,3-Dichlorobenzene	< 10	ug/l
†B22	1,4-Dichlorobenzene	< 10	ug/l
OB23	3,3'-Dichlorobenzidine	< 10	ug/l
†B24	Diethyl Phthalate	< 10	ug/l
OB25	Dimethyl Phthalate	< 10	ug/l
†B26	Di-N-Butyl Phthalate	< 10	ug/l
OB27	2,4-Dinitrotoluene	< 10	ug/l
†B28	2,6-Dinitrotoluene	< 10	ug/l
OB29	Di-N-Octyl Phthalate	< 10	ug/l
†B30	1,2-Diphenylhydrazine(Azobz)	< 20	ug/l
OB31	Fluoranthene	< 10	ug/l
†B32	Fluorene	< 10	ug/l
OB33	Hexachlorbenzene	< 10	ug/l
†B34	Hexachlorobutadiene	< 10	ug/l
OB35	Hexachloro-cyclopentadiene	< 10	ug/l
†B36	Hexachloroethane	< 10	ug/l
OB37	Indeno(1,2,3 cd)Pyrene	< 10	ug/l
†B38	Isophorone	< 10	ug/l
OB39	Naphthalene	< 10	ug/l
†B40	Nitrobenzene	< 10	ug/l
OB41	N-Nitrosodimethylamine	< 10	ug/l
†B42	N-Nitrosodi-N-Propylamine	< 10	ug/l
OB43	N-Nitrosodiphenylamine	< 10	ug/l
†B44	Phenanthrene	< 10	ug/l
OB45	Pyrene	< 10	ug/l

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REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021704
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 DISCHARGE 02/26

TEST	DETERMINATION	RESULTS	UNITS
CB46	1,2,4-Trichlorobenzene	< 10	ug/l
OE25	Base Neutral Extraction-Water		
O141	PRIORITY POLLUTANT PCB'S		
OE11	PCB Extraction - Water		
OP19	PCB-1016	< 0.5	ug/l
OP20	PCB-1221	< 0.5	ug/l
OP21	PCB-1232	< 0.5	ug/l
OP22	PCB-1242	< 0.5	ug/l
OP23	PCB-1248	< 0.5	ug/l
OP24	PCB-1254	< 1.0	ug/l
OP25	PCB-1260	< 1.0	ug/l
R450	RADIUM 226 AND 228		
R804	Radium-226	< 0.5	pCi/l
R805	Radium-228	< 2	pCi/l
R800	Gross Alpha	< 2	pCi/l
R801	Gross Beta	< 4	pCi/l
N032	Ammonia as N (distillation)	< 0.1	mg/l
W050	BOD, 5-day (02)	< 1	mg/l
N100	Carbon, organic (C)	23.2	mg/l
W120	COD (02)	< 5	mg/l
N610	Solids, suspended at 103 C	< 1	mg/l

COMMENTS:

Reviewed and Approved by: PM

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FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021705
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 DISCHARGE - GRAB #1 02/25 0845

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	15	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	7.9	
E580	Oil, extraction-gravimetric	1.3	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021706
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 DISCHARGE - GRAB #2 02/25 1500

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	9	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	8.1	
W680	Oil, extraction-gravimetric	< 1.0	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021707
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 DISCHARGE - GRAB #3 02/25 2100

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Colifora - MPN	4	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
B490	pH	8.1	
W680	Oil, extraction-gravimetric	2.3	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021708
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 DISCHARGE - GRAB #4 02/26 0303

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	21	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
8490	pH	8.1	
W680	Oil, extraction-gravimetric	2.8	mg/l

COMMENTS:

Reviewed and Approved by: JMC

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	002
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	☒ YES ☐ NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	STM EL EC PWR
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	☒ YES ☐ NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42, IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 43). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW)	☒ VOLATILE ☐ BASE/NEUTRAL ☒ ACID ☐ PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-43 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☐ NOT APPLICABLE/BELIEVED ABSENT ☒ PRESENT/DATA IS ATTACHED
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 43 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); 0, 0-DIMETHYL 0-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE. MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANALYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	☐ NOT APPLICABLE ☒ APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE 6 AND IIA THROUGH VA PAGES 42-43. IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE FINAL EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI 000 5827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER: 0 0 1 2

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

- ☐ 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 55)
- ☒ 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 37)
- ☒ 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 39)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- ☐ NOT APPLICABLE
- ☒ APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR.COMP.

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED. ☒ YES ☐ NO

SECTION II

PERMIT NUMBER → MI 0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 1 — DISCHARGE LOCATION • SCHEDULE • FLOW RATE

	OUTFALL NUMBER	003
A.	LOCATION OF DISCHARGE	NW ¼, SW ¼, SECTION 06, TOWN 06S, RANGE 19W
B.	NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER)	LAKE MICHIGAN
C.	DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E)	☒ YES ☐ NO
D.	IF YES, LIST DISCHARGE PERIODS	MO. / DAY — MO. / DAY 01 / 01 THROUGH 04 / 05 __ / __ THROUGH __ / __ __ / __ THROUGH __ / __
E.	LAND APPLICATION RATE — NA	IN./HR. __.__ HR./DAY __.__ IN./WK. __.__ ☐ NA
F.	TYPE OF WASTEWATER DISCHARGE	WASTEWATER TYPE CODE: 23
G.	DISCHARGE SCHEDULE (YEARLY AVERAGE)	HOURS/DAY 24 DAY/YEAR 96
H.	DISCHARGE FLOW RATE — BASIS: EXPECTED FLOW RATE	TOTAL YEARLY 50340 UNIT CODE 1 DAILY MINIMUM 0 UNIT CODE 2 DAILY MAXIMUM 839 UNIT CODE 2
I.	THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT.	AUTHORIZED 1892 UNIT CODE 2
J.	MAXIMUM DESIGN DISCHARGE FLOW RATE.	DESIGN 1892 UNIT CODE 2

WASTEWATER TYPE CODE
1 CONTACT COOLING
2 NONCONTACT COOLING
3 PROCESS
4 SANITARY
5 STORMWATER

UNIT CODE
1 MGY
2 MGD
3 GPD

ITEM 2 — WATER TREATMENT ADDITIVES

A.	DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3)	☐ YES ☒ NO
B.	NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES. — NA	NAME / FUNCTION
C.	NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES. — NA	
D.	EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES. — NA	MINIMUM / UNITS CODE ; AVERAGE / UNITS CODE ; MAXIMUM / UNITS CODE
	ADDITIVE NAME	
	ADDITIVE NAME	
	ADDITIVE NAME	
E.	DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES? — NA	☐ YES ☐ NO
F.	WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY? — NA	% REMOVAL / DISCHARGE FREQUENCY HRS./DAY / DAYS/WK.
	ADDITIVE NAME	
	ADDITIVE NAME	
	ADDITIVE NAME	
G.	AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE. — NA	

UNITS CODE
1 Mg/l
2 Ug/l

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI 000 5827

ITEM 3

PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 003

PROCESS 1

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: DE-ICING

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY 24 DAYS/YEAR 42

C. PROCESS VOLUME FLOW RATE — BASIS: 1984 FLOW DATA

		UNIT CODE
TOTAL YEARLY	9387	5
DAILY MINIMUM	0	6
DAILY MAXIMUM	839	6

D. PROCESS PRODUCTION RATE: NA — UNITS / TIME

PROCESS 2

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 3

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 4

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 5

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

UNITS CODE

1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME

1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 4 — GROUNDWATER DISCHARGE INFORMATION

	OUTFALL NUMBER	003
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☐ YES ☒ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT. NA	☐ YES ☐ NO
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 45) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF "YES" ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION. NA	☐ YES ☐ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES. NA	☐ YES ☐ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 5) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES. NA	☐ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5 — EXPECTED WASTEWATER CHARACTERISTICS

UNITS CODE: 1 Mg/l; 2 Ug/l; 3 COUNTS/100 ml; 4 S.U.; 5 °F; 6 LBS/DAY

SAMPLE TYPE: 1 GRAB; 2 24 HOUR COMPOSITE

A. DISCHARGE CHARACTERISTICS

	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TYPE CODE
*BOD5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)			1		
*COD (CHEMICAL OXYGEN DEMAND)			1		
*TOC (TOTAL ORGANIC CARBON)			1		
*AMMONIA NITROGEN (AS N)			1		
*TOTAL SUSPENDED SOLIDS			1		
TOTAL PHOSPHORUS (AS P)			1		
TOTAL RESIDUAL CHLORINE			1		
DISSOLVED OXYGEN	MIN		1		
*PH			4		
FECAL COLIFORM BACTERIA			3		
*TEMPERATURE (SUMMER)			5		
*TEMPERATURE (WINTER)			5		

B. OTHER WASTEWATER CHARACTERISTICS

OIL & GREASE					

* SEE NOTE ON PAGE 9, OUTFALL 003

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → . MI0005827

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	003
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	☒ YES ☐ NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	STM ELEC PWR
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	☒ YES ☐ NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42). IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 43). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW)	☒ VOLATILE ☐ BASE/NEUTRAL ☒ ACID ☐ PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-43 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☐ NOT APPLICABLE/BELIEVED ABSENT ☒ PRESENT/DATA IS ATTACHED *
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 43 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); 0, 0-DIMETHYL 0-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE. MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANALYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	☐ NOT APPLICABLE ☒ APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE 0 AND IIA THROUGH VA PAGES 42-43. IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE FINAL EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED

* WATER DISCHARGED FOR DE-ICING IS THE SAME AS OUTFALLS 001 AND 002, THEREFORE, INDIANA & MICHIGAN ELECTRIC COMPANY REQUESTS PERMISSION TO USE THE SCREENING DATA FROM OUTFALL 001 OR OUTFALL 002 TO CHARACTERIZE THIS DISCHARGE.

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI 000 5827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER: 003

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

- ☐ 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 35)
- ☒ 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 37)
- ☒ 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 39)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- ☐ NOT APPLICABLE
- ☒ APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ___ SAMPLE TYPE ___ # OF ANALYSES ___
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ___ UNIT CODE ___
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ___ SAMPLE TYPE ___ # OF ANALYSES ___
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ___ UNIT CODE ___
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ___ SAMPLE TYPE ___ # OF ANALYSES ___
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ___ UNIT CODE ___
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ___ SAMPLE TYPE ___ # OF ANALYSES ___
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ___ UNIT CODE ___
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ___ SAMPLE TYPE ___ # OF ANALYSES ___
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ___ UNIT CODE ___
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ___ SAMPLE TYPE ___ # OF ANALYSES ___
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ___ UNIT CODE ___
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ___ SAMPLE TYPE ___ # OF ANALYSES ___
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ___ UNIT CODE ___
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ___ SAMPLE TYPE ___ # OF ANALYSES ___
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ___ UNIT CODE ___

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR. COMP.

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED. ☒ YES ☐ NO

* SEE NOTE ON PAGE 9, OUTFALL 003

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 1 — DISCHARGE LOCATION • SCHEDULE • FLOW RATE • WASTEWATER TYPE CODE

	OUTFALL NUMBER	004
A.	LOCATION OF DISCHARGE	NW ¼, SW ¼, SECTION 06, TOWN 06S, RANGE 19W
B.	NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER)	LAKE MICHIGAN
C.	DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E)	☐ YES ☒ NO
D.	IF YES, LIST DISCHARGE PERIODS	NA — MO. / DAY ___ ___ THROUGH MO. / DAY ___ ___ (3 rows)
E.	LAND APPLICATION RATE	NA — IN./HR. ___ HR./DAY ___ IN./WK. ___ ☐ NA
F.	TYPE OF WASTEWATER DISCHARGE	3 — WASTEWATER TYPE CODE
G.	DISCHARGE SCHEDULE (YEARLY AVERAGE)	HOURS/DAY 24 DAY/YEAR 365
H.	DISCHARGE FLOW RATE BASIS: EXPECTED FLOW RATE	TOTAL YEARLY 97.09 UNIT CODE 1; DAILY MINIMUM 0 UNIT CODE 2; DAILY MAXIMUM 0.266 UNIT CODE 2
I.	THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT.	AUTHORIZED 0.864 UNIT CODE 2
J.	MAXIMUM DESIGN DISCHARGE FLOW RATE.	DESIGN 0.864 UNIT CODE 2

WASTEWATER TYPE CODE
1 CONTACT COOLING
2 NONCONTACT COOLING
3 PROCESS
4 SANITARY
5 STORMWATER

UNIT CODE
1 MGY
2 MGD
3 GPD

ITEM 2 — WATER TREATMENT ADDITIVES

A.	DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3)	☐ YES ☒ NO
B.	NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES. NA	NAME / FUNCTION
C.	NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES. NA	
D.	EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES. NA	MINIMUM / UNITS CODE / AVERAGE / UNITS CODE / MAXIMUM / UNITS CODE — ADDITIVE NAME (3 rows)
E.	DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES? NA	☐ YES ☐ NO
F.	WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY? NA	% REMOVAL / DISCHARGE FREQUENCY HRS./DAY / DAYS/WK. — ADDITIVE NAME (3 rows)
G.	AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE. NA	

UNITS CODE
1 Mg/l
2 Ug/l

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 3

PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 0 0 A

PROCESS 1

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: 1 STM GEN BLDN 4911

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY 24 DAYS/YEAR 365

C. PROCESS VOLUME FLOW RATE — BASIS: 1984 FLOW DATA

		UNIT CODE
TOTAL YEARLY	38.163	5
DAILY MINIMUM	0	6
DAILY MAXIMUM	0.2666	6

D. PROCESS PRODUCTION RATE: NA — UNITS / TIME

PROCESS 2

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ___ DAYS/YEAR ___

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 3

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ___ DAYS/YEAR ___

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 4

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ___ DAYS/YEAR ___

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 5

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ___ DAYS/YEAR ___

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

UNITS CODE

1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME

1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 4 — GROUNDWATER DISCHARGE INFORMATION

	OUTFALL NUMBER	004
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☐ YES ☒ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT. NA	☐ YES ☐ NO
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 46) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF "YES" ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION. NA	☐ YES ☐ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES. NA	☐ YES ☐ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 6) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES. NA	☐ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5 — EXPECTED WASTEWATER CHARACTERISTICS

UNITS CODE: 1 Mg/l; 2 Ug/l; 3 COUNTS/100 ml; 4 S.U.; 5 °F; 6 LBS/DAY

SAMPLE TYPE: 1 GRAB; 2 24 HOUR COMPOSITE

A. DISCHARGE CHARACTERISTICS

	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TYPE CODE
*BOD5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)			1		
*COD (CHEMICAL OXYGEN DEMAND)			1		
*TOC (TOTAL ORGANIC CARBON)			1		
*AMMONIA NITROGEN (AS N)			1		
*TOTAL SUSPENDED SOLIDS			1		
TOTAL PHOSPHORUS (AS P)			1		
TOTAL RESIDUAL CHLORINE			1		
DISSOLVED OXYGEN	MIN.		1		
*PH			4		
FECAL COLIFORM BACTERIA			3		
*TEMPERATURE (SUMMER)			5		
*TEMPERATURE (WINTER)			5		

B. OTHER WASTEWATER CHARACTERISTICS

OIL & GREASE					

See attached sheets for data.
Note: Results for triarylphosphate esters and hydrazine in Attachment I.

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275
412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021689
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
1361	NPDES PART V-B		
M010	Aluminum (Al)	< 0.1	mg/l
1040	Barium (Ba)	< 0.1	mg/l
M150	Cobalt (Co)	< 0.01	mg/l
1190	Iron,total (Fe)	< 0.01	mg/l
M230	Magnesium (Mg)	< 0.001	mg/l
1240	Manganese (Mn)	< 0.01	mg/l
M260	Molybdenum (Mo)	< 0.03	mg/l
1340	Tin (Sn)	< 1	mg/l
M350	Titanium (Ti)	< 0.5	mg/l
1055	Boron (B)	< 0.2	mg/l
W060	Bromide (Br)	< 2	mg/l
1225	Color, True	120	Pt-Co
W310	Fluoride, total (F)	< 0.1	mg/l
1390	Nitrate (N)	< 0.1	mg/l
W410	Nitrite (N)	< 0.01	mg/l
1435	Nitrogen, Kjeldahl (N)	0.2	mg/l
W440	Nitrogen, Organic (N)	0.2	mg/l
1540	Phosphorus, total (P)	< 0.01	mg/l
W730	Sulfate, turbidimetric (SO4)	< 1	mg/l
1740	Sulfide (S)	< 0.1	mg/l
W760	Sulfite (SO3)	< 2	mg/l
1770	Surfactants (MBAS)	< 0.1	mg/l
M362	NPDES PART V-C TOXIC METALS		
M020	Antimony (Sb)	< 0.1	mg/l
M030	Arsenic (As)	< 0.001	mg/l
1050	Beryllium (Be)	< 0.002	mg/l
M090	Cadmium (Cd)	< 0.005	mg/l
1140	Chromium (Cr)	< 0.01	mg/l
M160	Copper (Cu)	< 0.01	mg/l
1200	Lead (Pb)	< 0.03	mg/l
M250	Mercury (Hg)	< 0.0002	mg/l

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
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Cliff Mine Road
Pittsburgh, PA 15275
412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021689
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
M270	Nickel (Ni)	< 0.03	mg/l
M290	Selenium (Se)	< 0.004	mg/l
I300	Silver (Ag)	< 0.01	mg/l
M330	Thallium (Tl)	< 0.1	mg/l
I390	Zinc (Zn)	< 0.01	mg/l
W270	Cyanide, total (CN)	< 0.005	mg/l
I500	Phenolics	< 0.02	mg/l
M220	Lithium (Li)	< 0.01	mg/l
I110	VOLATILES-PP IN WATER		
OV01	Acrolein	< 100	ug/l
IV02	Acrylonitrile	< 100	ug/l
OV03	Benzene	< 5	ug/l
IV05	Bromoform	< 5	ug/l
OV06	Carbon Tetrachloride	< 5	ug/l
IV07	Chlorobenzene	< 5	ug/l
OV08	Chlorodibromomethane	< 5	ug/l
IV09	Chloroethane	< 10	ug/l
OV10	2-Chloroethylvinyl Ether	< 10	ug/l
IV11	Chloroform	< 5	ug/l
OV12	Dichlorobromomethane	< 5	ug/l
IV14	1,1-Dichloroethane	< 5	ug/l
OV15	1,2-Dichloroethane	< 5	ug/l
IV16	1,1-Dichloroethylene	< 5	ug/l
OV17	1,2-Dichloropropane	< 5	ug/l
IV18	1,3-Dichloropropylene	< 5	ug/l
OV19	Ethylbenzene	< 5	ug/l
IV20	Methyl Bromide	< 10	ug/l
OV21	Methyl Chloride	< 10	ug/l
IV22	Methylene Chloride	< 5	ug/l
OV23	1,1,2,2-Tetrachloroethane	< 5	ug/l
IV24	Tetrachloroethylene(Perchloro)	< 5	ug/l
OV25	Toluene	< 5	ug/l

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412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021689
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
0V26	1,2-Trans-Dichloroethylene	< 5	ug/l
0V27	1,1,1-Trichloroethane	< 5	ug/l
‡V28	1,1,2-Trichloroethane	< 5	ug/l
0V29	Trichloroethylene	< 5	ug/l
‡V31	Vinyl chloride	< 5	ug/l
0120	ACIDS - PP IN WATER		
0A01	2-Chlorophenol	< 10	ug/l
0A02	2,4-Dichlorophenol	< 10	ug/l
‡A03	2,4-Dimethylphenol	< 10	ug/l
0A04	4,6-Dinitro-o-cresol	< 50	ug/l
‡A05	2,4-Dinitrophenol	< 50	ug/l
0A06	2-Nitrophenol	< 10	ug/l
‡A07	4-Nitrophenol	< 50	ug/l
0A08	p-Chloro-m-cresol	< 10	ug/l
‡A09	Pentachlorophenol	< 50	ug/l
0A10	Phenol	< 10	ug/l
‡A11	2,4,6-Trichlorophenol	< 10	ug/l
0E30	Acid Extraction-Water		
0130	BASE NEUTRALS - PP IN WATER		
0B01	Acenaphthene	< 10	ug/l
‡B02	Acenaphthylene	< 10	ug/l
0B03	Anthracene	< 10	ug/l
‡B04	Benzidine	< 50	ug/l
0B05	Benzo(a)Anthracene	< 10	ug/l
‡B06	Benzo(a)Pyrene	< 10	ug/l
0B07	3,4-Benzofluoranthene	< 10	ug/l
‡B08	Benzo(ghi)Perylene	< 10	ug/l
0B09	Benzo(k)Fluoranthene	< 10	ug/l
‡B10	Bis(2-Chloroethoxy)Methane	< 10	ug/l
0B11	Bis(2-Chloroethyl)Ether	< 10	ug/l
‡B12	Bis(2-Chloroisopropyl)Ether	< 10	ug/l
0B13	Bis(2-Ethylhexyl)Phthalate	< 10	ug/l

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SAMPLE IDENTIFICATION: UNIT 1 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB14	4-Bromophenyl Phenyl Ether	< 10	ug/l
OB15	Butyl Benzyl Phthalate	< 10	ug/l
OB16	2-Chloronaphthalene	< 10	ug/l
OB17	4-Chlorophenyl Phenyl Ether	< 10	ug/l
OB18	Chrysene	< 10	ug/l
OB19	Dibenzo(a,h)Anthracene	< 10	ug/l
OB20	1,2-Dichlorobenzene	< 10	ug/l
OB21	1,3-Dichlorobenzene	< 10	ug/l
OB22	1,4-Dichlorobenzene	< 10	ug/l
OB23	3,3'-Dichlorobenzidine	< 10	ug/l
OB24	Diethyl Phthalate	< 10	ug/l
OB25	Dimethyl Phthalate	< 10	ug/l
OB26	Di-N-Butyl Phthalate	< 10	ug/l
OB27	2,4-Dinitrotoluene	< 10	ug/l
OB28	2,6-Dinitrotoluene	< 10	ug/l
OB29	Di-N-Octyl Phthalate	< 10	ug/l
OB30	1,2-Diphenylhydrazine(Azobz)	< 20	ug/l
OB31	Fluoranthene	< 10	ug/l
OB32	Fluorene	< 10	ug/l
OB33	Hexachlorbenzene	< 10	ug/l
OB34	Hexachlorobutadiene	< 10	ug/l
OB35	Hexachloro-cyclopentadiene	< 10	ug/l
OB36	Hexachloroethane	< 10	ug/l
OB37	Indeno(1,2,3 cd)Pyrene	< 10	ug/l
OB38	Isophorone	< 10	ug/l
OB39	Naphthalene	< 10	ug/l
OB40	Nitrobenzene	< 10	ug/l
OB41	N-Nitrosodimethylamine	< 10	ug/l
OB42	N-Nitrosodi-N-Propylamine	< 10	ug/l
OB43	N-Nitrosodiphenylamine	< 10	ug/l
OB44	Phenanthrene	< 10	ug/l
OB45	Pyrene	< 10	ug/l

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NUS SAMPLE NO: 15021689
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB46	1,2,4-Trichlorobenzene	< 10	ug/l
OE25	Base Neutral Extraction-Water		
O141	PRIORITY POLLUTANT PCB'S		
OE11	PCB Extraction - Water		
OP19	PCB-1016	< 0.5	ug/l
OP20	PCB-1221	< 0.5	ug/l
OP21	PCB-1232	< 0.5	ug/l
OP22	PCB-1242	< 0.5	ug/l
OP23	PCB-1248	< 0.5	ug/l
OP24	PCB-1254	< 1.0	ug/l
OP25	PCB-1260	< 1.0	ug/l
R450	RADIUM 226 AND 228		
R804	Radium-226	< 0.4	pCi/l
R805	Radium-228	< 2	pCi/l
R800	Gross Alpha	< 1	pCi/l
R801	Gross Beta	2.8 +/-1.1	pCi/l
W032	Ammonia as N (distillation)	< 0.1	mg/l
W050	BOD, 5-day (02)	< 1	mg/l
W100	Carbon, organic (C)	< 1.0	mg/l
W120	COD (02)	< 5	mg/l
W610	Solids, suspended at 103 C	2	mg/l

COMMENTS:

Reviewed and Approved by: PM

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REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021690
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 SG BLOWDOWN - GRAB #1 02/25 0720

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	7.8	
W680	Oil, extraction-gravimetric	2.3	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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ADDRESS: P. O. BOX 60
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ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021691
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 SG BLOWDOWN - GRAB #2 02/25 1320

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
8490	pH	7.9	
W680	Oil, extraction-gravimetric	2.2	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021692
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 SG BLOWDOWN - GRAB #3 02/25 1926

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Colifom - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
1490	pH	8.2	
W680	Oil, extraction-gravimetric	2.0	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021693
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 1 SG BLOWDOWN - GRAB #4 02/26 0123

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
B490	pH	8.1	
W680	Oil, extraction-gravimetric	< 1.0	mg/l

COMMENTS:

Reviewed and Approved by: JMC

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → .MI0005827

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	0 0 A
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	☒ YES ☐ NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	S T M E L E C P W R
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	☒ YES ☐ NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42). IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 43). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW)	☒ VOLATILE ☒ BASE/NEUTRAL ☒ ACID ☐ PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-43 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☐ NOT APPLICABLE/BELIEVED ABSENT ☒ PRESENT/DATA IS ATTACHED
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 43 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); 0, 0-DIMETHYL 0-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE. MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANALYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	☐ NOT APPLICABLE ☒ APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE 0 AND IIA THROUGH VA PAGES 42-43. IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE FINAL EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI 0005827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER: 0 0 1 A

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

- ☐ 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 35)
- ☒ 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 37)
- ☒ 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 39)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- ☐ NOT APPLICABLE
- ☒ APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ____ UNIT CODE ____
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ____ UNIT CODE ____
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ____ UNIT CODE ____
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ____ UNIT CODE ____
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ____ UNIT CODE ____
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ____ UNIT CODE ____
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ____ UNIT CODE ____
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE ____ UNIT CODE ____

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR. COMP

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED. ☒ YES ☐ NO

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 1

DISCHARGE LOCATION • SCHEDULE • FLOW RATE • WASTEWATER TYPE CODE

OUTFALL NUMBER	008
A. LOCATION OF DISCHARGE	NW ¼, SW ¼, SECTION 06, TOWN 06S, RANGE 19W
B. NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER)	LAKE MICHIGAN
C. DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E)	☐ YES ☒ NO
D. IF YES, LIST DISCHARGE PERIODS NA	MO. / DAY THROUGH MO. / DAY
E. LAND APPLICATION RATE NA	IN./HR. HR./DAY IN./WK. ☐ NA
F. TYPE OF WASTEWATER DISCHARGE	3 (WASTEWATER TYPE CODE)
G. DISCHARGE SCHEDULE (YEARLY AVERAGE)	HOURS/DAY 24 DAY/YEAR 365
H. DISCHARGE FLOW RATE BASIS: EXPECTED FLOW RATE	TOTAL YEARLY 102.93 UNIT CODE 1 DAILY MINIMUM 0 UNIT CODE 2 DAILY MAXIMUM 0.282 UNIT CODE 2
I. THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT.	AUTHORIZED 0.864 UNIT CODE 2
J. MAXIMUM DESIGN DISCHARGE FLOW RATE.	DESIGN 0.864 UNIT CODE 2

1 CONTACT COOLING
2 NONCONTACT COOLING
3 PROCESS
4 SANITARY
5 STORMWATER

UNIT CODE: 1 MGY, 2 MGD, 3 GPD

ITEM 2

WATER TREATMENT ADDITIVES

A. DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3)	☐ YES ☒ NO
B. NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES. NA	NAME / FUNCTION
C. NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES. NA	
D. EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES. NA	MINIMUM UNITS CODE; AVERAGE UNITS CODE; MAXIMUM UNITS CODE
ADDITIVE NAME	
ADDITIVE NAME	
ADDITIVE NAME	
E. DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES? NA	☐ YES ☐ NO
F. WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY? NA	% REMOVAL / DISCHARGE FREQUENCY HRS./DAY DAYS/WK.
ADDITIVE NAME	
ADDITIVE NAME	
ADDITIVE NAME	
G. AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE. NA	

UNITS CODE: 1 Mg/l, 2 Ug/l

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI 0005827

ITEM 3 — PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 008

PROCESS 1	A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE	2 STM GEN BLDN 4911
	B. PROCESS SCHEDULE (YEARLY AVERAGE)	HOURS/DAY 24 DAYS/YEAR 365
	C. PROCESS VOLUME FLOW RATE — BASIS: 1984 FLOW DATA	TOTAL YEARLY 24.44 UNIT CODE 5 DAILY MINIMUM 0 6 DAILY MAXIMUM 0.282 6
	D. PROCESS PRODUCTION RATE NA	UNITS / TIME
PROCESS 2	A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE NA	
	B. PROCESS SCHEDULE (YEARLY AVERAGE)	HOURS/DAY DAYS/YEAR
	C. PROCESS VOLUME FLOW RATE	UNIT CODE TOTAL YEARLY DAILY MINIMUM DAILY MAXIMUM
	D. PROCESS PRODUCTION RATE	UNITS / TIME
PROCESS 3	A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE NA	
	B. PROCESS SCHEDULE (YEARLY AVERAGE)	HOURS/DAY DAYS/YEAR
	C. PROCESS VOLUME FLOW RATE	UNIT CODE TOTAL YEARLY DAILY MINIMUM DAILY MAXIMUM
	D. PROCESS PRODUCTION RATE	UNITS / TIME
PROCESS 4	A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE NA	
	B. PROCESS SCHEDULE (YEARLY AVERAGE)	HOURS/DAY DAYS/YEAR
	C. PROCESS VOLUME FLOW RATE	UNIT CODE TOTAL YEARLY DAILY MINIMUM DAILY MAXIMUM
	D. PROCESS PRODUCTION RATE	UNITS / TIME
PROCESS 5	A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE NA	
	B. PROCESS SCHEDULE (YEARLY AVERAGE)	HOURS/DAY DAYS/YEAR
	C. PROCESS VOLUME FLOW RATE	UNIT CODE TOTAL YEARLY DAILY MINIMUM DAILY MAXIMUM
	D. PROCESS PRODUCTION RATE	UNITS / TIME

UNITS CODE
1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME
1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 4 — GROUNDWATER DISCHARGE INFORMATION

	OUTFALL NUMBER	008
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☐ YES ☒ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT. NA	☐ YES ☐ NO
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 46) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF "YES" ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION. NA	☐ YES ☐ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES. NA	☐ YES ☐ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 6) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES. NA	☐ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5 — EXPECTED WASTEWATER CHARACTERISTICS

UNITS CODE: 1 Mg/l; 2 Ug/l; 3 COUNTS/100 ml; 4 S.U.; 5 °F; 6 LBS/DAY

SAMPLE TYPE: 1 GRAB; 2 24 HOUR COMPOSITE

A. DISCHARGE CHARACTERISTICS

	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TYPE CODE
*BOD5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)	.	.	1		
*COD (CHEMICAL OXYGEN DEMAND)	.	.	1		
*TOC (TOTAL ORGANIC CARBON)	.	.	1		
*AMMONIA NITROGEN (AS N)	.	.	1		
*TOTAL SUSPENDED SOLIDS	.	.	1		
TOTAL PHOSPHORUS (AS P)	.	.	1		
TOTAL RESIDUAL CHLORINE	.	.	1		
DISSOLVED OXYGEN MIN	.	.	1		
*PH	MIN .	.	4		
FECAL COLIFORM BACTERIA			3		
*TEMPERATURE (SUMMER)	.	.	5		
*TEMPERATURE (WINTER)	.	.	5		

B. OTHER WASTEWATER CHARACTERISTICS

OIL & GREASE	.	.			
	.	.			
	.	.			
	.	.			
	.	.			
	.	.			
	.	.			

See attached sheets for data.

Note: Results for triarylphosphate esters and hydrazine in Attachment I.

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Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
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412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021699
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
I361	NPDES PART V-B		
M010	Aluminum (Al)	< 0.1	mg/l
I040	Barium (Ba)	< 0.1	mg/l
M150	Cobalt (Co)	< 0.01	mg/l
I190	Iron,total (Fe)	0.02	mg/l
M230	Magnesium (Mg)	< 0.001	mg/l
I240	Manganese (Mn)	< 0.01	mg/l
M260	Molybdenum (Mo)	< 0.03	mg/l
I340	Tin (Sn)	< 1	mg/l
M350	Titanium (Ti)	< 0.5	mg/l
I055	Boron (B)	0.7	mg/l
W060	Bromide (Br)	< 2	mg/l
I225	Color, True	20	Pt-Co
W310	Fluoride, total (F)	< 0.1	mg/l
I390	Nitrate (N)	< 0.1	mg/l
W410	Nitrite (N)	< 0.01	mg/l
I435	Nitrogen, Kjeldahl (N)	1.1	mg/l
W440	Nitrogen, Organic (N)	1.1	mg/l
I540	Phosphorus, total (P)	< 0.01	mg/l
W730	Sulfate, turbidimetric (SO4)	< 1	mg/l
I740	Sulfide (S)	< 0.1	mg/l
W760	Sulfite (SO3)	< 2	mg/l
I770	Surfactants (MBAS)	< 0.1	mg/l
M362	NPDES PART V-C TOXIC METALS		
M020	Antimony (Sb)	< 0.1	mg/l
M030	Arsenic (As)	< 0.001	mg/l
I050	Beryllium (Be)	< 0.002	mg/l
M090	Cadmium (Cd)	< 0.005	mg/l
I140	Chromium (Cr)	< 0.01	mg/l
M160	Copper (Cu)	< 0.01	mg/l
I200	Lead (Pb)	< 0.03	mg/l
M250	Mercury (Hg)	< 0.0002	mg/l

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DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
M270	Nickel (Ni)	< 0.03	mg/l
M290	Selenium (Se)	< 0.004	mg/l
M300	Silver (Ag)	< 0.01	mg/l
M330	Thallium (Tl)	< 0.1	mg/l
M390	Zinc (Zn)	< 0.01	mg/l
M270	Cyanide, total (CN)	< 0.005	mg/l
M500	Phenolics	< 0.02	mg/l
M220	Lithium (Li)	< 0.01	mg/l
M110	VOLATILES-PP IN WATER		
OV01	Acrolein	< 100	ug/l
MV02	Acrylonitrile	< 100	ug/l
OV03	Benzene	< 5	ug/l
MV05	Bromoform	< 5	ug/l
OV06	Carbon Tetrachloride	< 5	ug/l
MV07	Chlorobenzene	< 5	ug/l
OV08	Chlorodibromomethane	< 5	ug/l
MV09	Chloroethane	< 10	ug/l
OV10	2-Chloroethylvinyl Ether	< 10	ug/l
MV11	Chloroform	< 5	ug/l
OV12	Dichlorobromomethane	< 5	ug/l
MV14	1,1-Dichloroethane	< 5	ug/l
OV15	1,2-Dichloroethane	< 5	ug/l
MV16	1,1-Dichloroethylene	< 5	ug/l
OV17	1,2-Dichloropropane	< 5	ug/l
MV18	1,3-Dichloropropylene	< 5	ug/l
OV19	Ethylbenzene	< 5	ug/l
MV20	Methyl Bromide	< 10	ug/l
OV21	Methyl Chloride	< 10	ug/l
MV22	Methylene Chloride	< 5	ug/l
OV23	1,1,2,2-Tetrachloroethane	< 5	ug/l
MV24	Tetrachloroethylene(Perchloro)	< 5	ug/l
OV25	Toluene	< 5	ug/l

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NUS SAMPLE NO: 15021699
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DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
0V26	1,2-Trans-Dichloroethylene	< 5	ug/l
0V27	1,1,1-Trichloroethane	< 5	ug/l
1V28	1,1,2-Trichloroethane	< 5	ug/l
0V29	Trichloroethylene	< 5	ug/l
1V31	Vinyl chloride	< 5	ug/l
0120	ACIDS - PP IN WATER		
0A01	2-Chlorophenol	< 10	ug/l
0A02	2,4-Dichlorophenol	< 10	ug/l
1A03	2,4-Dimethylphenol	< 10	ug/l
0A04	4,6-Dinitro-o-cresol	< 50	ug/l
1A05	2,4-Dinitrophenol	< 50	ug/l
0A06	2-Nitrophenol	< 10	ug/l
1A07	4-Nitrophenol	< 50	ug/l
0A08	p-Chloro-m-cresol	< 10	ug/l
1A09	Pentachlorophenol	< 50	ug/l
0A10	Phenol	< 10	ug/l
1A11	2,4,6-Trichlorophenol	< 10	ug/l
0E30	Acid Extraction-Water		
0130	BASE NEUTRALS - PP IN WATER		
0B01	Acenaphthene	< 10	ug/l
1B02	Acenaphthylene	< 10	ug/l
0B03	Anthracene	< 10	ug/l
1B04	Benzidine	< 50	ug/l
0B05	Benzo(a)Anthracene	< 10	ug/l
1B06	Benzo(a)Pyrene	< 10	ug/l
0B07	3,4-Benzofluoranthene	< 10	ug/l
1B08	Benzo(ghi)Perylene	< 10	ug/l
0B09	Benzo(k)Fluoranthene	< 10	ug/l
1B10	Bis(2-Chloroethoxy)Methane	< 10	ug/l
0B11	Bis(2-Chloroethyl)Ether	< 10	ug/l
1B12	Bis(2-Chloroisopropyl)Ether	< 10	ug/l
0B13	Bis(2-Ethylhexyl)Phthalate	< 10	ug/l

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NUS SAMPLE NO: 15021699
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB14	4-Bromophenyl Phenyl Ether	< 10	ug/l
OB15	Butyl Benzyl Phthalate	< 10	ug/l
OB16	2-Chloronaphthalene	< 10	ug/l
OB17	4-Chlorophenyl Phenyl Ether	< 10	ug/l
OB18	Chrysene	< 10	ug/l
OB19	Dibenzo(a,h)Anthracene	< 10	ug/l
OB20	1,2-Dichlorobenzene	< 10	ug/l
OB21	1,3-Dichlorobenzene	< 10	ug/l
OB22	1,4-Dichlorobenzene	< 10	ug/l
OB23	3,3'-Dichlorobenzidine	< 10	ug/l
OB24	Diethyl Phthalate	< 10	ug/l
OB25	Dimethyl Phthalate	< 10	ug/l
OB26	Di-N-Butyl Phthalate	< 10	ug/l
OB27	2,4-Dinitrotoluene	< 10	ug/l
OB28	2,6-Dinitrotoluene	< 10	ug/l
OB29	Di-N-Octyl Phthalate	< 10	ug/l
OB30	1,2-Diphenylhydrazine(Azobz)	< 20	ug/l
OB31	Fluoranthene	< 10	ug/l
OB32	Fluorene	< 10	ug/l
OB33	Hexachlorbenzene	< 10	ug/l
OB34	Hexachlorobutadiene	< 10	ug/l
OB35	Hexachloro-cyclopentadiene	< 10	ug/l
OB36	Hexachloroethane	< 10	ug/l
OB37	Indeno(1,2,3-cd)Pyrene	< 10	ug/l
OB38	Isophorone	< 10	ug/l
OB39	Naphthalene	< 10	ug/l
OB40	Nitrobenzene	< 10	ug/l
OB41	N-Nitrosodimethylamine	< 10	ug/l
OB42	N-Nitrosodi-N-Propylamine	< 10	ug/l
OB43	N-Nitrosodiphenylamine	< 10	ug/l
OB44	Phenanthrene	< 10	ug/l
OB45	Pyrene	< 10	ug/l

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REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021699
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 SG BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB46	1,2,4-Trichlorobenzene	< 10	ug/l
OE25	Base Neutral Extraction-Water		
O141	PRIORITY POLLUTANT PCB'S		
OE11	PCB Extraction - Water		
OP19	PCB-1016	< 0.5	ug/l
OP20	PCB-1221	< 0.5	ug/l
OP21	PCB-1232	< 0.5	ug/l
OP22	PCB-1242	< 0.5	ug/l
OP23	PCB-1248	< 0.5	ug/l
OP24	PCB-1254	< 1.0	ug/l
OP25	PCB-1260	< 1.0	ug/l
R450	RADIUM 226 AND 228		
R804	Radium-226	< 0.4	pCi/l
R805	Radium-228	< 2	pCi/l
R800	Gross Alpha	2.5 +/-0.9	pCi/l
R801	Gross Beta	3.7 +/-1.6	pCi/l
N032	Ammonia as N (distillation)	< 0.1	mg/l
W050	BOD, 5-day (02)	< 1	mg/l
N100	Carbon, organic (C)	< 1.0	mg/l
W120	COD (02)	< 5	mg/l
N610	Solids, suspended at 103 C	< 1	mg/l

COMMENTS:

Reviewed and Approved by: PM

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ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021700
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 SG BLOWDOWN - GRAB #1 02/25 1040

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
8490	pH	8.0	
W680	Oil, extraction-gravimetric	2.1	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021701
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 SG BLOWDOWN - GRAB #2 02/25 1340

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
B490	pH	7.5	
W680	Oil, extraction-gravimetric	2.4	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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ADDRESS: P. O. BOX 60
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ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021702
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 SG BLOWDOWN - GRAB #3 02/25 1938

TEST	DETERMINATION	RESULTS	UNITS
9A32	Fecal Colifora - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
9490	pH	8.4	
W680	Oil, extraction-gravimetric	1.7	mg/l

COMMENTS:

Reviewed and Approved by: JMC

A Halliburton Company

CLIENT ORIGINAL

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ADDRESS: P. O. BOX 60
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REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021703
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: UNIT 2 SG BLOWDOWN - GRAB #4 02/26 0135

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Colifom - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
B490	pH	8.0	
W680	Oil, extraction-gravimetric	1.1	mg/l

COMMENTS:

Reviewed and Approved by: JMC

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI 000 5827

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	0 0 B
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	☒ YES ☐ NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	S T M E L E C P W B
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	☒ YES ☐ NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42). IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 43). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW)	☒ VOLATILE ☒ BASE/NEUTRAL ☒ ACID ☐ PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-43 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☐ NOT APPLICABLE/BELIEVED ABSENT ☒ PRESENT/DATA IS ATTACHED
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 43 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); 0, 0-DIMETHYL 0-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE, MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANALYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	☐ NOT APPLICABLE ☒ APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE 0 AND IIA THROUGH VA - [illegible] PAGES 42-43). IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE [illegible] L EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER: 0 0 B

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

- ☐ 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 35)
- ☒ 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 37)
- ☒ 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 39)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- ☐ NOT APPLICABLE
- ☒ APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR COMP

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED. ☒ YES ☐ NO

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 1 — DISCHARGE LOCATION • SCHEDULE • FLOW RATE

OUTFALL NUMBER: 00C

A. LOCATION OF DISCHARGE: NW ¼, SW ¼, SECTION 06, TOWN 06S, RANGE 19W

B. NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER): LAKE MICHIGAN

C. DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E) ☐ YES ☒ NO

D. IF YES, LIST DISCHARGE PERIODS: NA

	MO. / DAY			MO. / DAY
			THROUGH	
			THROUGH	
			THROUGH	

E. LAND APPLICATION RATE: NA — IN./HR. | HR./DAY | IN./WK. ☐ NA

F. TYPE OF WASTEWATER DISCHARGE — WASTEWATER TYPE CODE: 3

G. DISCHARGE SCHEDULE (YEARLY AVERAGE): HOURS/DAY 24 — DAY/YEAR 365

H. DISCHARGE FLOW RATE — BASIS: EXPECTED FLOW RATE

		UNIT CODE
TOTAL YEARLY	5.11	1
DAILY MINIMUM	0	2
DAILY MAXIMUM	0.014	2

I. THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT.

		UNIT CODE
AUTHORIZED	0.019	2

J. MAXIMUM DESIGN DISCHARGE FLOW RATE.

		UNIT CODE
DESIGN	0.019	2

WASTEWATER TYPE CODE
1 CONTACT COOLING
2 NONCONTACT COOLING
3 PROCESS
4 SANITARY
5 STORMWATER

UNIT CODE
1 MGY
2 MGD
3 GPD

ITEM 2 — WATER TREATMENT ADDITIVES

A. DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3) ☐ YES ☒ NO

B. NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES: NA

NAME	FUNCTION

C. NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES: NA

D. EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES: NA

	MINIMUM	UNITS CODE	AVERAGE	UNITS CODE	MAXIMUM	UNITS CODE
ADDITIVE NAME						
ADDITIVE NAME						
ADDITIVE NAME						

UNITS CODE
1 Mg/l
2 Ug/l

E. DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES? NA ☐ YES ☐ NO

F. WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY? NA

	% REMOVAL	DISCHARGE FREQUENCY HRS./DAY	DISCHARGE FREQUENCY DAYS/WK.
ADDITIVE NAME			
ADDITIVE NAME			
ADDITIVE NAME			

G. AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE. NA

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 3

PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 0 0 C

PROCESS 1

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: H T B O I L E R B L D N 4 9 1 1

B. PROCESS SCHEDULE (YEARLY AVERAGE) 1984
HOURS/DAY: 2 4 DAYS/YEAR: 1 2 3

C. PROCESS VOLUME FLOW RATE
BASIS: 1984 FLOW DATA

		UNIT CODE
TOTAL YEARLY	0.322	5
DAILY MINIMUM	0	6
DAILY MAXIMUM	0.014	6

D. PROCESS PRODUCTION RATE: NA
UNITS / TIME

PROCESS 2

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE)
HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE
UNITS / TIME

PROCESS 3

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE)
HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE
UNITS / TIME

PROCESS 4

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE)
HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE
UNITS / TIME

PROCESS 5

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE)
HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE
UNITS / TIME

UNITS CODE
1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME
1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 4

GROUNDWATER DISCHARGE INFORMATION

OUTFALL NUMBER		0 0 C
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☐ YES ☒ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT. NA	☐ YES ☐ NO
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 46) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF "YES" ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION. NA	☐ YES ☐ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES. NA	☐ YES ☐ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 6) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES. NA	☐ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5

EXPECTED WASTEWATER CHARACTERISTICS

UNITS CODE
1 Mg/l
2 Ug/l
3 COUNTS/100 ml
4 S.U.
5 °F
6 LBS/DAY

SAMPLE TYPE
1 GRAB
2 24 HOUR COMPOSITE

A. DISCHARGE CHARACTERISTICS	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TYP CODE
*BOD_5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)	____.____	____.____	1	____	____
*COD (CHEMICAL OXYGEN DEMAND)	____.____	____.____	1	____	____
*TOC (TOTAL ORGANIC CARBON)	____.____	____.____	1	____	____
*AMMONIA NITROGEN (AS N)	____.____	____.____	1	____	____
*TOTAL SUSPENDED SOLIDS	____.____	____.____	1	____	____
TOTAL PHOSPHORUS (AS P)	____.____	____.____	1	____	____
TOTAL RESIDUAL CHLORINE	____.____	____.____	1	____	____
DISSOLVED OXYGEN (MIN)	____.____	____.____	1	____	____
*PH (MIN ____.__)		____.__	4	____	____
FECAL COLIFORM BACTERIA	____.____	____.____	3	____	____
*TEMPERATURE (SUMMER)	____.__	____.__	5	____	____
*TEMPERATURE (WINTER)	____.__	____.__	5	____	____

B. OTHER WASTEWATER CHARACTERISTICS

OIL & GREASE	____.____	____.____	____	____	____
____	____.____	____.____	____	____	____
____	____.____	____.____	____	____	____
____	____.____	____.____	____	____	____
____	____.____	____.____	____	____	____
____	____.____	____.____	____	____	____
____	____.____	____.____	____	____	____

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275
412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021727
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: AUX. HEATING BOILER BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
W361	NPDES PART V-B		
M010	Aluminum (Al)	< 0.1	mg/l
W040	Barium (Ba)	< 0.1	mg/l
M150	Cobalt (Co)	< 0.01	mg/l
W190	Iron,total (Fe)	33	mg/l
M230	Magnesium (Mg)	0.46	mg/l
W240	Manganese (Mn)	0.31	mg/l
M260	Molybdenum (Mo)	< 0.03	mg/l
W340	Tin (Sn)	< 1	mg/l
M350	Titanium (Ti)	< 0.5	mg/l
W055	Boron (B)	< 0.2	mg/l
W060	Bromide (Br)	< 2	mg/l
W225	Color, True	240	Pt-Co
W310	Fluoride, total (F)	< 0.5	mg/l
W410	Nitrite (N)	< 0.01	mg/l
W435	Nitrogen, Kjeldahl (N)	0.8	mg/l
W440	Nitrogen, Organic (N)	0.1	mg/l
W540	Phosphorus, total (P)	4.3	mg/l
W730	Sulfate, turbidimetric (SO4)	7	mg/l
W740	Sulfide (S)	< 0.1	mg/l
W760	Sulfite (SO3)	< 2	mg/l
W770	Surfactants (MBAS)	< 0.1	mg/l
M362	NPDES PART V-C TOXIC METALS		
M020	Antimony (Sb)	< 0.1	mg/l
W030	Arsenic (As)	0.005	mg/l
M050	Beryllium (Be)	< 0.002	mg/l
W090	Cadmium (Cd)	< 0.005	mg/l
M140	Chromium (Cr)	0.01	mg/l
W160	Copper (Cu)	7.9	mg/l
M200	Lead (Pb)	< 0.03	mg/l
W250	Mercury (Hg)	< 0.0002	mg/l
M270	Nickel (Ni)	< 0.03	mg/l

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NUS SAMPLE NO: 15021727
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: AUX. HEATING BOILER BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
M290	Selenium (Se)	< 0.004	mg/l
M300	Silver (Ag)	< 0.01	mg/l
M330	Thallium (Tl)	< 0.1	mg/l
M390	Zinc (Zn)	0.04	mg/l
M270	Cyanide, total (CN)	< 0.01	mg/l
W500	Phenolics	< 0.02	mg/l
M220	Lithium (Li)	< 0.01	mg/l
0110	VOLATILES-PP IN WATER		
0V01	Acrolein	< 100	ug/l
0V02	Acrylonitrile	< 100	ug/l
0V03	Benzene	< 5	ug/l
0V05	Bromoform	< 5	ug/l
0V06	Carbon Tetrachloride	< 5	ug/l
0V07	Chlorobenzene	< 5	ug/l
0V08	Chlorodibromomethane	< 5	ug/l
0V09	Chloroethane	< 10	ug/l
0V10	2-Chloroethylvinyl Ether	< 10	ug/l
0V11	Chloroform	< 5	ug/l
0V12	Dichlorobromomethane	< 5	ug/l
0V14	1,1-Dichloroethane	< 5	ug/l
0V15	1,2-Dichloroethane	< 5	ug/l
0V16	1,1-Dichloroethylene	< 5	ug/l
0V17	1,2-Dichloropropane	< 5	ug/l
0V18	1,3-Dichloropropylene	< 5	ug/l
0V19	Ethylbenzene	< 5	ug/l
0V20	Methyl Bromide	< 10	ug/l
0V21	Methyl Chloride	< 10	ug/l
0V22	Methylene Chloride	< 5	ug/l
0V23	1,1,2,2-Tetrachloroethane	< 5	ug/l
0V24	Tetrachloroethylene(Perchloro)	< 5	ug/l
0V25	Toluene	< 5	ug/l
0V26	1,2-Trans-Dichloroethylene	< 5	ug/l

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REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021727
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: AUX. HEATING BOILER BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
0V27	1,1,1-Trichloroethane	< 5	ug/l
0V28	1,1,2-Trichloroethane	< 5	ug/l
0V29	Trichloroethylene	< 5	ug/l
0V31	Vinyl chloride	< 5	ug/l
0120	ACIDS - PP IN WATER		
0A01	2-Chlorophenol	< 10	ug/l
0A02	2,4-Dichlorophenol	< 10	ug/l
0A03	2,4-Dimethylphenol	< 10	ug/l
0A04	4,6-Dinitro-o-cresol	< 50	ug/l
0A05	2,4-Dinitrophenol	< 50	ug/l
0A06	2-Nitrophenol	< 10	ug/l
0A07	4-Nitrophenol	< 50	ug/l
0A08	p-Chloro-m-cresol	< 10	ug/l
0A09	Pentachlorophenol	< 50	ug/l
0A10	Phenol	< 10	ug/l
0A11	2,4,6-Trichlorophenol	< 10	ug/l
0E30	Acid Extraction-Water		
0130	BASE NEUTRALS - PP IN WATER		
0B01	Acenaphthene	< 10	ug/l
0B02	Acenaphthylene	< 10	ug/l
0B03	Anthracene	< 10	ug/l
0B04	Benzidine	< 50	ug/l
0B05	Benzo(a)Anthracene	< 10	ug/l
0B06	Benzo(a)Pyrene	< 10	ug/l
0B07	3,4-Benzofluoranthene	< 10	ug/l
0B08	Benzo(ghi)Perylene	< 10	ug/l
0B09	Benzo(k)Fluoranthene	< 10	ug/l
0B10	Bis(2-Chloroethoxy)Methane	< 10	ug/l
0B11	Bis(2-Chloroethyl)Ether	< 10	ug/l
0B12	Bis(2-Chloroisopropyl)Ether	< 10	ug/l
0B13	Bis(2-Ethylhexyl)Phthalate	< 10	ug/l
0B14	4-Bromophenyl Phenyl Ether	< 10	ug/l

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ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15[illegible]727
VENDOR NO:
WORK ORDER NO: 55[illegible]30
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: AUX. HEATING BOILER BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB15	Butyl Benzyl Phthalate	< 10	ug/l
OB16	2-Chloronaphthalene	< 10	ug/l
#B17	4-Chlorophenyl Phenyl Ether	< 10	ug/l
OB18	Chrysene	< 10	ug/l
#B19	Dibenzo(a,h)Anthracene	< 10	ug/l
OB20	1,2-Dichlorobenzene	< 10	ug/l
#B21	1,3-Dichlorobenzene	< 10	ug/l
OB22	1,4-Dichlorobenzene	< 10	ug/l
#B23	3,3'-Dichlorobenzidine	< 10	ug/l
OB24	Diethyl Phthalate	< 10	ug/l
#B25	Dimethyl Phthalate	< 10	ug/l
OB26	Di-N-Butyl Phthalate	< 10	ug/l
#B27	2,4-Dinitrotoluene	< 10	ug/l
OB28	2,6-Dinitrotoluene	< 10	ug/l
#B29	Di-N-Octyl Phthalate	< 10	ug/l
OB30	1,2-Diphenylhydrazine(Azobz)	< 20	ug/l
#B31	Fluoranthene	< 10	ug/l
OB32	Fluorene	< 10	ug/l
#B33	Hexachlorbenzene	< 10	ug/l
OB34	Hexachlorobutadiene	< 10	ug/l
#B35	Hexachloro-cyclopentadiene	< 10	ug/l
OB36	Hexachloroethane	< 10	ug/l
#B37	Indeno(1,2,3 cd)Pyrene	< 10	ug/l
OB38	Isophorone	< 10	ug/l
#B39	Naphthalene	< 10	ug/l
OB40	Nitrobenzene	< 10	ug/l
#B41	N-Nitrosodimethylamine	< 10	ug/l
OB42	N-Nitrosodi-N-Propylamine	< 10	ug/l
#B43	N-Nitrosodiphenylamine	< 10	ug/l
OB44	Phenanthrene	< 10	ug/l
#B45	Pyrene	< 10	ug/l
OB46	1,2,4-Trichlorobenzene	< 10	ug/l

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FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021727
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: AUX. HEATING BOILER BLOWDOWN 02/26

TEST	DETERMINATION	RESULTS	UNITS
OE25	Base Neutral Extraction-Water		
0141	PRIORITY POLLUTANT PCB'S		
OE11	PCB Extraction - Water		
OP19	PCB-1016	< 0.5	ug/l
#P20	PCB-1221	< 0.5	ug/l
OP21	PCB-1232	< 0.5	ug/l
#P22	PCB-1242	< 0.5	ug/l
OP23	PCB-1248	< 0.5	ug/l
#P24	PCB-1254	< 1.0	ug/l
OP25	PCB-1260	< 1.0	ug/l
R450	RADIUM 226 AND 228		
R804	Radium-226	< 0.4	pCi/l
#805	Radium-228	< 3	pCi/l
R800	Gross Alpha	< 1	pCi/l
#801	Gross Beta	2.4 +/-1.1	pCi/l
W032	Ammonia as N (distillation)	0.7	mg/l
#050	BOD, 5-day (02)	< 1	mg/l
W100	Carbon, organic (C)	< 1	mg/l
#120	COD (02)	11	mg/l
W390	Nitrate (N)		
#610	Solids, suspended at 103 C	98	mg/l

COMMENTS:

Reviewed and Approved by: JMC

NUS CORPORATION

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5350 Campbells Run Road
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LAB ANALYSIS REPORT

CLIENT NAME: INDIAN & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021728
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: AUX.HEATING BOILER BLOWDOWN-GRAB #1 02/26 1230

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	9.2	
W680	Oil, extraction-gravimetric	1.3	mg/l

COMMENTS:

Reviewed and Approved by: JNC

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275
412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021729
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: AUX.HEATING BOILER BLOWDOWN 02/26 1530

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
B490	pH	8.6	
W680	Oil, extraction-gravimetric	3.0	mg/l

COMMENTS:

Reviewed and Approved by: JMC

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

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Cliff Mine Road
Pittsburgh, PA 15275

412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021730
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: AUX.HEATING BOILER BLOWDOWN-GRAB #3 02/26 1830

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
B490	pH	8.3	
W680	Oil, extraction-gravimetric	2.1	mg/l

COMMENTS:

Reviewed and Approved by: JMC

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

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Cliff Mine Road
Pittsburgh, PA 15275

412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021731
VENDOR NO:
WORK ORDER NO: 55870
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: AUX.HEATING BOILER BLOWDOWN-GRAB #4 02/26 2130

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	7.9	
W680	Oil, extraction-gravimetric	< 1.0	mg/l

COMMENTS:

Reviewed and Approved by: JMC

A Halliburton Company

CLIENT ORIGINAL

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	0 0 C
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	☒ YES ☐ NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	S T M E L E C D W R
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	☒ YES ☐ NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42, IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 43). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW)	☒ VOLATILE ☒ BASE/NEUTRAL ☒ ACID ☐ PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-43 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☐ NOT APPLICABLE/BELIEVED ABSENT ☒ PRESENT/DATA IS ATTACHED
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 43 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); O, O-DIMETHYL O-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE. MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANALYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	☐ NOT APPLICABLE ☒ APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE 0 AND IIA THROUGH VA PAGES 42-43. IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE FINAL EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI 000 5827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER: 0 0 C

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

- ☐ 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 55)
- ☒ 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 37)
- ☒ 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 39)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- ☐ NOT APPLICABLE
- ☒ APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR COMP.

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED. ☒ YES ☐ NO

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 1 — DISCHARGE LOCATION • SCHEDULE • FLOW RATE

WASTEWATER TYPE CODE: 1 CONTACT COOLING; 2 NONCONTACT COOLING; 3 PROCESS; 4 SANITARY; 5 STORMWATER

UNIT CODE: 1 MGY; 2 MGD; 3 GPD

OUTFALL NUMBER	00D
A. LOCATION OF DISCHARGE	NW ¼ SE ¼ SECTION 06, TOWN 06S, RANGE 19W
B. NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER)	ABSORPTION POND
C. DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E)	☐ YES ☒ NO
D. IF YES, LIST DISCHARGE PERIODS	NA — MO. / DAY THROUGH MO. / DAY (3 lines)
E. LAND APPLICATION RATE	NA — IN./HR. • HR./DAY • IN./WK. • ☐ NA
F. TYPE OF WASTEWATER DISCHARGE	3 — WASTEWATER TYPE CODE
G. DISCHARGE SCHEDULE (YEARLY AVERAGE)	HOURS/DAY 24 — DAY/YEAR 365
H. DISCHARGE FLOW RATE BASIS: EXPECTED FLOW RATE	TOTAL YEARLY 876 UNIT CODE 1; DAILY MINIMUM 0 UNIT CODE 2; DAILY MAXIMUM 2.4 UNIT CODE 2
I. THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT.	AUTHORIZED 2.5 UNIT CODE 2
J. MAXIMUM DESIGN DISCHARGE FLOW RATE.	DESIGN 115.2 UNIT CODE 2

ITEM 2 — WATER TREATMENT ADDITIVES

UNITS CODE: 1 Mg/l; 2 Ug/l

A. DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3)	☒ YES ☐ NO
B. NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES.	NAME: SULFURIC ACID (SODIUM HYDROXIDE) — FUNCTION: UTILITY WASTEWATER DISCHARGE pH NEUTRALIZATION
C. NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES.	SULFURIC ACID: E.I. De Nemours, Inc., Suite 255, 6100 Rockside Woods Blvd, Independence, Ohio 44131 SODIUM HYDROXIDE: PB&S Chemicals, Inc., 1100 N. Adams St., Henderson, KY 42420

D. EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES.

ADDITIVE NAME	MINIMUM	UNITS CODE	AVERAGE	UNITS CODE	MAXIMUM	UNITS CODE
SODIUM SULFATE	10	1	30.0	1	1000	1

E. DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES?	☐ YES ☒ NO
F. WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY?	NA

ADDITIVE NAME	% REMOVAL	DISCHARGE FREQUENCY HRS./DAY	DISCHARGE FREQUENCY DAYS/WK.

G. AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE.

APPROXIMATELY INSTANTANEOUS NEUTRALIZATION UPON MIXING

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 3

PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 001

PROCESS 1

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: UTIL WASTE WTR 4911

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY 24 DAYS/YEAR 365

C. PROCESS VOLUME FLOW RATE

BASIS: 1984 FLOW DATA

		UNIT CODE
TOTAL YEARLY	1,561,677	5
DAILY MINIMUM	0	6
DAILY MAXIMUM	2.4	6

D. PROCESS PRODUCTION RATE: NA — UNITS / TIME

PROCESS 2

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ___ DAYS/YEAR ___

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 3

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ___ DAYS/YEAR ___

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 4

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ___ DAYS/YEAR ___

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 5

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ___ DAYS/YEAR ___

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

UNITS CODE
1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME
1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 4 — GROUNDWATER DISCHARGE INFORMATION

	OUTFALL NUMBER	001D
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☒ YES ☐ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT.	☒ YES ☐ NO REPORT ATTACHED
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 46) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF "YES" ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION.	☐ YES ☒ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES.	☐ YES ☒ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 6) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES.	☐ NOT APPLICABLE/BELIEVED ABSENT ☒ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5 — EXPECTED WASTEWATER CHARACTERISTICS

UNITS CODE: 1 Mg/l; 2 Ug/l; 3 COUNTS/100 ml; 4 S.U.; 5 °F; 6 LBS/DAY

SAMPLE TYPE: 1 GRAB; 2 24 HOUR COMPOSITE

A. DISCHARGE CHARACTERISTICS

	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TY CODE
*BOD5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)			1		
*COD (CHEMICAL OXYGEN DEMAND)			1		
*TOC (TOTAL ORGANIC CARBON)			1		
*AMMONIA NITROGEN (AS N)			1		
*TOTAL SUSPENDED SOLIDS			1		
TOTAL PHOSPHORUS (AS P)			1		
TOTAL RESIDUAL CHLORINE			1		
DISSOLVED OXYGEN	MIN		1		
*PH	MIN		4		
FECAL COLIFORM BACTERIA			3		
*TEMPERATURE (SUMMER)			5		
*TEMPERATURE (WINTER)			5		

B. OTHER WASTEWATER CHARACTERISTICS

OIL & GREASE					

See attached sheets for data.
Note: Results for triarylphosphate esters and hydrazine in Attachment I.

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LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021694
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: TURBINE ROOM SUMP 02/26

TEST	DETERMINATION	RESULTS	UNITS
I361	NPDES PART V-B		
M010	Aluminum (Al)	0.4	mg/l
I040	Barium (Ba)	< 0.1	mg/l
M150	Cobalt (Co)	< 0.01	mg/l
I190	Iron,total (Fe)	0.21	mg/l
M230	Magnesium (Mg)	17	mg/l
I240	Manganese (Mn)	0.01	mg/l
M260	Molybdenum (Mo)	< 0.03	mg/l
I340	Tin (Sn)	< 1	mg/l
M350	Titanium (Ti)	< 0.5	mg/l
I055	Boron (B)	< 0.2	mg/l
W060	Bromide (Br)	< 2	mg/l
I225	Color, True	70	Pt-Co
W310	*Fluoride, total (F)	~~30~~ < 0.5	mg/l
I390	Nitrate (N)	0.7	mg/l
W410	Nitrite (N)	< 0.01	mg/l
I435	Nitrogen, Kjeldahl (N)	0.1	mg/l
W440	Nitrogen, Organic (N)	0.1	mg/l
I540	Phosphorus, total (P)	< 0.01	mg/l
W730	Sulfate, turbidimetric (SO4)	450	mg/l
I740	Sulfide (S)	< 0.1	mg/l
W760	Sulfite (SO3)	< 2	mg/l
I770	Surfactants (MBAS)	< 0.1	mg/l
M362	NPDES PART V-C TOXIC METALS		
M020	Antimony (Sb)	0.2	mg/l
M030	Arsenic (As)	0.001	mg/l
I050	Beryllium (Be)	< 0.002	mg/l
M090	Cadmium (Cd)	< 0.005	mg/l
I140	Chromium (Cr)	< 0.01	mg/l
M160	Copper (Cu)	< 0.01	mg/l
I200	Lead (Pb)	< 0.03	mg/l
M250	Mercury (Hg)	< 0.0002	mg/l

*A recheck of the same sample was made by NUS.
The first reported result was in error.

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REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021694
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: TURBINE ROOM SUMP 02/26

TEST	DETERMINATION	RESULTS	UNITS
M270	Nickel (Ni)	< 0.03	mg/l
M290	Selenium (Se)	< 0.004	mg/l
M300	Silver (Ag)	< 0.01	mg/l
M330	Thallium (Tl)	< 0.1	mg/l
M390	Zinc (Zn)	< 0.01	mg/l
W270	Cyanide, total (CN)	< 0.005	mg/l
M500	Phenolics	< 0.02	mg/l
M220	Lithium (Li)	< 0.01	mg/l
M110	VOLATILES-PP IN WATER		
OV01	Acrolein	< 100	ug/l
MV02	Acrylonitrile	< 100	ug/l
OV03	Benzene	< 5	ug/l
MV05	Bromoform	< 5	ug/l
OV06	Carbon Tetrachloride	< 5	ug/l
MV07	Chlorobenzene	< 5	ug/l
OV08	Chlorodibromomethane	< 5	ug/l
MV09	Chloroethane	< 10	ug/l
OV10	2-Chloroethylvinyl Ether	< 10	ug/l
MV11	Chloroform	< 5	ug/l
OV12	Dichlorobromomethane	< 5	ug/l
MV14	1,1-Dichloroethane	< 5	ug/l
OV15	1,2-Dichloroethane	< 5	ug/l
MV16	1,1-Dichloroethylene	< 5	ug/l
OV17	1,2-Dichloropropane	< 5	ug/l
MV18	1,3-Dichloropropylene	< 5	ug/l
OV19	Ethylbenzene	< 5	ug/l
MV20	Methyl Bromide	< 10	ug/l
OV21	Methyl Chloride	< 10	ug/l
MV22	Methylene Chloride	< 5	ug/l
OV23	1,1,2,2-Tetrachloroethane	< 5	ug/l
MV24	Tetrachloroethylene(Perchloro)	< 5	ug/l
OV25	Toluene	< 5	ug/l

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Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275
412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801
ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021694
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: TURBINE ROOM SUMP 02/26

TEST	DETERMINATION	RESULTS	UNITS
0V26	1,2-Trans-Dichloroethylene	< 5	ug/l
0V27	1,1,1-Trichloroethane	< 5	ug/l
0V28	1,1,2-Trichloroethane	< 5	ug/l
0V29	Trichloroethylene	< 5	ug/l
0V31	Vinyl chloride	< 5	ug/l
0120	ACIDS - PP IN WATER		
0A01	2-Chlorophenol	< 10	ug/l
0A02	2,4-Dichlorophenol	< 10	ug/l
0A03	2,4-Dimethylphenol	< 10	ug/l
0A04	4,6-Dinitro-o-cresol	< 50	ug/l
0A05	2,4-Dinitrophenol	< 50	ug/l
0A06	2-Nitrophenol	< 10	ug/l
0A07	4-Nitrophenol	< 50	ug/l
0A08	p-Chloro-m-cresol	< 10	ug/l
0A09	Pentachlorophenol	< 50	ug/l
0A10	Phenol	< 10	ug/l
0A11	2,4,6-Trichlorophenol	< 10	ug/l
0E30	Acid Extraction-Water		
0130	BASE NEUTRALS - PP IN WATER		
0B01	Acenaphthene	< 10	ug/l
0B02	Acenaphthylene	< 10	ug/l
0B03	Anthracene	< 10	ug/l
0B04	Benzidine	< 50	ug/l
0B05	Benzo(a)Anthracene	< 10	ug/l
0B06	Benzo(a)Pyrene	< 10	ug/l
0B07	3,4-Benzofluoranthene	< 10	ug/l
0B08	Benzo(ghi)Perylene	< 10	ug/l
0B09	Benzo(k)Fluoranthene	< 10	ug/l
0B10	Bis(2-Chloroethoxy)Methane	< 10	ug/l
0B11	Bis(2-Chloroethyl)Ether	< 10	ug/l
0B12	Bis(2-Chloroisopropyl)Ether	< 10	ug/l
0B13	Bis(2-Ethylhexyl)Phthalate	< 10	ug/l

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NUS SAMPLE NO: 15021694
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: TURBINE ROOM SUMP 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB14	4-Bromophenyl Phenyl Ether	< 10	ug/l
OB15	Butyl Benzyl Phthalate	< 10	ug/l
OB16	2-Chloronaphthalene	< 10	ug/l
OB17	4-Chlorophenyl Phenyl Ether	< 10	ug/l
OB18	Chrysene	< 10	ug/l
OB19	Dibenzo(a,h)Anthracene	< 10	ug/l
OB20	1,2-Dichlorobenzene	< 10	ug/l
OB21	1,3-Dichlorobenzene	< 10	ug/l
OB22	1,4-Dichlorobenzene	< 10	ug/l
OB23	3,3'-Dichlorobenzidine	< 10	ug/l
OB24	Diethyl Phthalate	< 10	ug/l
OB25	Dimethyl Phthalate	< 10	ug/l
OB26	Di-N-Butyl Phthalate	< 10	ug/l
OB27	2,4-Dinitrotoluene	< 10	ug/l
OB28	2,6-Dinitrotoluene	< 10	ug/l
OB29	Di-N-Octyl Phthalate	< 10	ug/l
OB30	1,2-Diphenylhydrazine(Azobz)	< 20	ug/l
OB31	Fluoranthene	< 10	ug/l
OB32	Fluorene	< 10	ug/l
OB33	Hexachlorbenzene	< 10	ug/l
OB34	Hexachlorobutadiene	< 10	ug/l
OB35	Hexachloro-cyclopentadiene	< 10	ug/l
OB36	Hexachloroethane	< 10	ug/l
OB37	Indeno(1,2,3 cd)Pyrene	< 10	ug/l
OB38	Isophorone	< 10	ug/l
OB39	Naphthalene	< 10	ug/l
OB40	Nitrobenzene	< 10	ug/l
OB41	N-Nitrosodimethylamine	< 10	ug/l
OB42	N-Nitrosodi-N-Propylamine	< 10	ug/l
OB43	N-Nitrosodiphenylamine	< 10	ug/l
OB44	Phenanthrene	< 10	ug/l
OB45	Pyrene	< 10	ug/l

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ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021694
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: TURBINE ROOM SUMP 02/26

TEST	DETERMINATION	RESULTS	UNITS
0B46	1,2,4-Trichlorobenzene	< 10	ug/l
0E25	Base Neutral Extraction-Water		
0141	PRIORITY POLLUTANT PCB'S		
0E11	PCB Extraction - Water		
0P19	PCB-1016	< 0.5	ug/l
0P20	PCB-1221	< 0.5	ug/l
0P21	PCB-1232	< 0.5	ug/l
0P22	PCB-1242	< 0.5	ug/l
0P23	PCB-1248	< 0.5	ug/l
0P24	PCB-1254	< 1.0	ug/l
0P25	PCB-1260	< 1.0	ug/l
R450	RADIUM 226 AND 228		
R804	Radium-226	< 0.4	pCi/l
R805	Radium-228	< 2	pCi/l
R800	Gross Alpha	7.4 +/-2.8	pCi/l
R801	Gross Beta	5.8 +/-1.3	pCi/l
0032	Ammonia as N (distillation)	< 0.1	mg/l
W050	BOD, 5-day (02)	< 1	mg/l
0100	Carbon, organic (C)	19.5	mg/l
W120	COD (02)	9	mg/l
0610	Solids, suspended at 103 C	7	mg/l

COMMENTS:

Reviewed and Approved by: PM

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REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021695
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: TURBINE ROOM SUMP - GRAB #1 02/25 0835

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	21	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	7.8	
W680	Oil, extraction-gravimetric	3.3	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHISAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021696
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: TURBINE ROOM SUMP - GRAB #2 02/25 1440

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	9	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	8.1	
W680	Oil, extraction-gravimetric	2.1	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021697
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: TURBINE ROOM SUMP - GRAB #3 02/25 2030

TEST	DETERMINATION	RESULTS	UNITS
9A32	Fecal Colifora - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
9490	pH	7.9	
W680	Oil, extraction-gravimetric	2.7	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021698
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: TURBINE ROOM SUMP - GRAB #4 02/26 0235

TEST	DETERMINATION	RESULTS	UNITS
MA32	Fecal Coliform - MPN	9	col/100ml
M150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
M490	pH	7.0	
M680	Oil, extraction-gravimetric	3.0	mg/l

COMMENTS:

Reviewed and Approved by: JNC

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005877

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	0 0 D
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	[X] YES [ ] NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	S T M E L E C P W R
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	[X] YES [ ] NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42). IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 45). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW)	[X] VOLATILE [X] BASE/NEUTRAL [X] ACID [ ] PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-43 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	[ ] NOT APPLICABLE/BELIEVED ABSENT [X] PRESENT/DATA IS ATTACHED
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 43 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	[X] NOT APPLICABLE/BELIEVED ABSENT [ ] PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); 0, 0-DIMETHYL 0-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE. MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	[X] NOT APPLICABLE/BELIEVED ABSENT [ ] PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	[X] NOT APPLICABLE [ ] APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANALYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	[ ] NOT APPLICABLE [X] APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE D AND IIA THROUGH VA PAGES 42-43. IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE FINAL EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	[X] NOT APPLICABLE [ ] APPLICABLE/SEE ATTACHED

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER ____

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

- [X] 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 35)
- [X] 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 37)
- [X] 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 39)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- [ ] NOT APPLICABLE
- [X] APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	____ . ____ UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	____ . ____ UNIT CODE ____ ____ . ____ UNIT CODE ____
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	____ . ____ UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	____ . ____ UNIT CODE ____ ____ . ____ UNIT CODE ____
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	____ . ____ UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	____ . ____ UNIT CODE ____ ____ . ____ UNIT CODE ____
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	____ . ____ UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	____ . ____ UNIT CODE ____ ____ . ____ UNIT CODE ____
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	____ . ____ UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	____ . ____ UNIT CODE ____ ____ . ____ UNIT CODE ____
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	____ . ____ UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	____ . ____ UNIT CODE ____ ____ . ____ UNIT CODE ____
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	____ . ____ UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	____ . ____ UNIT CODE ____ ____ . ____ UNIT CODE ____
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	____ . ____ UNIT CODE ____ SAMPLE TYPE ____ # OF ANALYSES ____
	C. MAXIMUM CONCENTRATION AND MASS	____ . ____ UNIT CODE ____ ____ . ____ UNIT CODE ____

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR. COMP

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED.

- [X] YES
- [ ] NO

Section 2, Item 2(g)
MATERIAL SAFETY DATA SHEET

Material: Sodium Hydroxide, 50% solution

Description: Viscous water white liquid

Formula: NaOH

Physical Data

Mol. Wt.: 40.01 d: 1.52
mp: 53°F (approx.) vap. press: 1.5 mmHg at 20°C
bp: 293°F (approx.)

Toxic Rating

a. Acute Local
Irritant: Severe toxicity
Ingestion: Severe toxicity
Inhalation: Moderate toxicity

b. Chronic Local
Irritant: Moderate toxicity

Severe toxicity means that a single exposure lasting seconds or minutes causes injury to skin or mucous membranes of sufficient severity to threaten life or to cause permanent physical impairment or disfigurement.

Moderate toxicity means that a single exposure lasting seconds or minutes or hours can cause moderate effects on the skin or mucous membranes.

D. C. Cook Plant use: to neutralize sulfuric acid, demineralizer resin regenerant solution, prior to discharge. Chemical reaction upon mixing produces a pH neutral, dilute solution of sodium sulfate, which is discharged to the absorption pond.

Ref: Sax, N. Irving. 1968. Dangerous Properties of Industrial Materials. Van Nostrand Reinhold Company.

Section 2, Item 2(g)
MATERIAL SAFETY DATA SHEET

Material: Sulfuric Acid, 92-96% solution

Description: Colorless, oily liquid

Formula: H_2SO_4

Physical Data

Mol. Wt.: 98.08	d: 1.834
mp: 10.49°C	vap. press: 1 mm at 145.8°C
bp: 330°C	

Toxic Rating

a. Acute Local
Irritant: Severe toxicity
Ingestion: Severe toxicity
Inhalation: Severe toxicity

Severe toxicity means that a single exposure lasting seconds or minutes causes injury to skin or mucous membranes of sufficient severity to threaten life or to cause permanent physical impairment or disfigurement.

b. Chronic Local
Irritant: Moderate toxicity
Inhalation: Moderate toxicity

Moderate toxicity means that a single exposure lasting seconds or minutes or hours can cause moderate effects on the skin or mucous membranes.

D. C. Cook Plant use: to neutralize sodium hydroxide, demineralizer resin regenerant solution, prior to discharge. Chemical reaction upon mixing produces a pH neutral, dilute solution of sodium sulfate, which is discharged to the absorption pond.

Ref: Sax, N. Irving. 1968. Dangerous Properties of Industrial Materials. Van Nostrand Reinhold Company.

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 1 — DISCHARGE LOCATION • SCHEDULE • FLOW RATE

OUTFALL NUMBER: 0 0 E

A. LOCATION OF DISCHARGE: N W ¼ & S E ¼, SECTION 0 6, TOWN 0 6 S, RANGE 1 9 W

B. NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER): SANITARY ABSOR POND

C. DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E) ☐ YES ☒ NO

D. IF YES, LIST DISCHARGE PERIODS: NA

	MO. / DAY			MO. / DAY
			THROUGH	
			THROUGH	
			THROUGH	

WASTEWATER TYPE CODE

1 CONTACT COOLING
2 NONCONTACT COOLING
3 PROCESS
4 SANITARY
5 STORMWATER

E. LAND APPLICATION RATE: NA — IN./HR. ____ HR./DAY ____ IN./WK. ____ ☐ NA

F. TYPE OF WASTEWATER DISCHARGE: WASTEWATER TYPE CODE 4

G. DISCHARGE SCHEDULE (YEARLY AVERAGE): HOURS/DAY 24 DAY/YEAR 365

H. DISCHARGE FLOW RATE BASIS: EXPECTED FLOW RATE

		UNIT CODE
TOTAL YEARLY	1 1 . 3 1 5	1
DAILY MINIMUM	0 . 0 0 3	2
DAILY MAXIMUM	0 . 0 3 1	2

UNIT CODE: 1 MGY, 2 MGD, 3 GPD

I. THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT. AUTHORIZED 0 . 0 3 1 UNIT CODE 2

J. MAXIMUM DESIGN DISCHARGE FLOW RATE. DESIGN 0 . 0 3 1 UNIT CODE 2

ITEM 2 — WATER TREATMENT ADDITIVES

A. DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3) ☐ YES ☒ NO

B. NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES. NA

NAME	FUNCTION

C. NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES. NA

UNITS CODE: 1 Mg/l, 2 Ug/l

D. EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES. NA

	MINIMUM	UNITS CODE	AVERAGE	UNITS CODE	MAXIMUM	UNITS CODE
ADDITIVE NAME						
ADDITIVE NAME						
ADDITIVE NAME						

E. DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES? NA ☐ YES ☐ NO

F. WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY? NA

	% REMOVAL	DISCHARGE FREQUENCY HRS./DAY	DAYS/WK.
ADDITIVE NAME			
ADDITIVE NAME			
ADDITIVE NAME			

G. AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE. NA

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 3

PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 0,0,E

PROCESS 1

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: SANITARY WATER 4911

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY 24 DAYS/YEAR 365

C. PROCESS VOLUME FLOW RATE — BASIS: 1984 FLOW DATA

		UNIT CODE
TOTAL YEARLY	5.279	5
DAILY MINIMUM	0.003	6
DAILY MAXIMUM	0.028	6

D. PROCESS PRODUCTION RATE: NA — UNITS / TIME

PROCESS 2

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 3

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 4

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

PROCESS 5

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NA

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY ____ DAYS/YEAR ____

C. PROCESS VOLUME FLOW RATE

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE — UNITS / TIME

UNITS CODE
1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME
1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI 0005827

ITEM 4 — GROUNDWATER DISCHARGE INFORMATION

	OUTFALL NUMBER	0 0 E
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☒ YES ☐ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT.	☒ YES ☐ NO REPORT ATTACHED
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 45) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF "YES" ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION.	☐ YES ☒ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES.	☐ YES ☒ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 5) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5 — EXPECTED WASTEWATER CHARACTERISTICS

A. DISCHARGE CHARACTERISTICS

	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TYP CODE
*BOD5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)	.	.	1		
*COD (CHEMICAL OXYGEN DEMAND)	.	.	1		
*TOC (TOTAL ORGANIC CARBON)	.	.	1		
*AMMONIA NITROGEN (AS N)	.	.	1		
*TOTAL SUSPENDED SOLIDS	.	.	1		
TOTAL PHOSPHORUS (AS P)	.	.	1		
TOTAL RESIDUAL CHLORINE	.	.	1		
DISSOLVED OXYGEN	MIN .	.	1		
*PH	MIN .	.	4		
FECAL COLIFORM BACTERIA			3		
*TEMPERATURE (SUMMER)	.	.	5		
*TEMPERATURE (WINTER)	.	.	5		

UNITS CODE: 1 Mg/l; 2 Ug/l; 3 COUNTS/100 ml; 4 S.U.; 5 °F; 6 LBS/DAY

B. OTHER WASTEWATER CHARACTERISTICS

OIL & GREASE	.	.			
	.	.			
	.	.			
	.	.			
	.	.			
	.	.			
	.	.			

SAMPLE TYPE: 1 GRAB; 2 24 HOUR COMPOSITE

See attached sheets for data.

4/4/85

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275
412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

NUS CLIENT NO: 010904
VENDOR NO:
REPORT DATE: 03/13/85
WORK ORDER NO: 55830
ATTENTION: MR. JOHN HUGHEY
DATE RECEIVED: 03/07/85

SAMPLE IDENTIFICATION			NUS SAMPLE NO	RESULTS	UNITS
SEWAGE PLANT	03/06	#40846N	15030305		
W030 Ammonia (N)				74	mg/l
W050 BOD, 5-day (O2)				36	mg/l
W100 Carbon, organic (C)				107	mg/l
W120 COD (O2)				160	mg/l
W610 Solids, suspended at 103 C				11	mg/l
SEWAGE PLANT - GRAB	03/05	#1-1100	15030306		
BA32 Fecal Coliform - MPN				1100	col/100ml
SEWAGE PLANT - GRAB	03/05	#2-1700	15030307		
BA32 Fecal Coliform - MPN				> /= 2400	col/100ml
SEWAGE PLANT - GRAB	03/05	#3-2300	15030308		
BA32 Fecal Coliform - MPN				> /= 2400	col/100ml
SEWAGE PLANT - GRAB	03/06	#4-0500	15030309		
BA32 Fecal Coliform - MPN				> /= 2400	col/100ml

COMMENTS:

Reviewed and Approved by: JMC

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI 000 5827

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	0 0 E
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	☒ YES ☐ NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	S T M , E L E C , P W R
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	☐ YES ☒ NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42). IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 43). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW) NA	☐ VOLATILE ☐ BASE/NEUTRAL ☐ ACID ☐ PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-45 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 42 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); 0, 0-DIMETHYL 0-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE. MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANALYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE 0 AND IIA THROUGH VA PAGES 42-45. IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE FINAL EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER: 0,0,E

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

NA

- ☐ 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 55)
- ☐ 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 57)
- ☐ 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 59)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- ☒ NOT APPLICABLE
- ☐ APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR.COMP

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED. ☐ YES ☒ NO

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 1 — DISCHARGE LOCATION • SCHEDULE • FLOW RATE

OUTFALL NUMBER: 501

A. LOCATION OF DISCHARGE: NW ¼ SW ¼ SECTION 06, TOWN 06S, RANGE 19W

B. NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER): LAKE MICHIGAN

C. DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E) ☐ YES ☒ NO

D. IF YES, LIST DISCHARGE PERIODS: NA

	MO. / DAY			MO. / DAY
			THROUGH	
			THROUGH	
			THROUGH	

E. LAND APPLICATION RATE: NA — IN./HR. | HR./DAY | IN./WK. ☐ NA

F. TYPE OF WASTEWATER DISCHARGE: 5 — WASTEWATER TYPE CODE

G. DISCHARGE SCHEDULE (YEARLY AVERAGE): HOURS/DAY N/A — DAY/YEAR N/A

H. DISCHARGE FLOW RATE

BASIS: AVERAGE ANNUAL RAINFALL FOR T. YEARLY
1 IN 10 YR, 24 HR STORM FOR DAILY MAX

		UNIT CODE
TOTAL YEARLY	7.62	1
DAILY MINIMUM	0	2
DAILY MAXIMUM	0.812	2

I. THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT.

		UNIT CODE
AUTHORIZED	0.812	2

J. MAXIMUM DESIGN DISCHARGE FLOW RATE: NA

		UNIT CODE
DESIGN		

UNIT CODE: 1 MGY; 2 MGD; 3 GPD

WASTEWATER TYPE CODE: 1 CONTACT COOLING; 2 NONCONTACT COOLING; 3 PROCESS; 4 SANITARY; 5 STORMWATER

ITEM 2 — WATER TREATMENT ADDITIVES

A. DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3) ☐ YES ☒ NO

B. NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES.

NAME	FUNCTION

NA

C. NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES.

NA

D. EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES: NA

	MINIMUM	UNITS CODE	AVERAGE	UNITS CODE	MAXIMUM	UNITS CODE
ADDITIVE NAME						
ADDITIVE NAME						
ADDITIVE NAME						

E. DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES? NA ☐ YES ☐ NO

F. WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY? NA

	% REMOVAL	DISCHARGE FREQUENCY HRS./DAY	DISCHARGE FREQUENCY DAYS/WK.
ADDITIVE NAME			
ADDITIVE NAME			
ADDITIVE NAME			

UNITS CODE: 1 Mg/l; 2 Ug/l

G. AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE. NA

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 3

PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 501

PROCESS 1

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: NICATCH BASIN 4911

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY NA DAYS/YEAR NA

C. PROCESS VOLUME FLOW RATE:

		UNIT CODE
TOTAL YEARLY	7.62	5
DAILY MINIMUM	0	6
DAILY MAXIMUM	0.812	6

D. PROCESS PRODUCTION RATE: NA UNITS/TIME

PROCESS 2

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE:

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE: UNITS/TIME

PROCESS 3

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE:

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE: UNITS/TIME

PROCESS 4

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE:

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE: UNITS/TIME

PROCESS 5

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE:

	UNIT CODE
TOTAL YEARLY	
DAILY MINIMUM	
DAILY MAXIMUM	

D. PROCESS PRODUCTION RATE: UNITS/TIME

UNITS CODE

1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME

1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 4 — GROUNDWATER DISCHARGE INFORMATION

	OUTFALL NUMBER	501
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☐ YES ☒ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT. NA	☐ YES ☐ NO
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 46) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF "YES" ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION. NA	☐ YES ☐ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES. NA	☐ YES ☐ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 6) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES. NA	☐ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5 — EXPECTED WASTEWATER CHARACTERISTICS

UNITS CODE: 1 Mg/l; 2 Ug/l; 3 COUNTS/100 ml; 4 S.U.; 5 °F; 6 LBS/DAY

SAMPLE TYPE: 1 GRAB; 2 24 HOUR COMPOSITE

A. DISCHARGE CHARACTERISTICS	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TYPE CODE
*BOD_5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)			1		
*COD (CHEMICAL OXYGEN DEMAND)			1		
*TOC (TOTAL ORGANIC CARBON)			1		
*AMMONIA NITROGEN (AS N)			1		
*TOTAL SUSPENDED SOLIDS			1		
TOTAL PHOSPHORUS (AS P)			1		
TOTAL RESIDUAL CHLORINE			1		
DISSOLVED OXYGEN	MIN		1		
*PH			4		
FECAL COLIFORM BACTERIA			3		
*TEMPERATURE (SUMMER)			5		
*TEMPERATURE (WINTER)			5		
B. OTHER WASTEWATER CHARACTERISTICS					
OIL & GREASE					

See attached sheets for data.

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275
412-788-1080

152851

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 04/03/85

NUS CLIENT NO: 010904
VENDOR NO: 05411000
WORK ORDER NO: 55830
DATE RECEIVED: 03/13/85

SAMPLE IDENTIFICATION			NUS SAMPLE NO	RESULTS	UNITS
STORMWATER RUNOFF		03/11	15030712		
M140	Chromium (Cr)			< 0.01	mg/l
M160	Copper (Cu)			0.01	mg/l
M190	Iron, total (Fe)			2.4	mg/l
M390	Zinc (Zn)			0.27	mg/l
M032	Ammonia as N (distillation)			9.9	mg/l
M050	BOD, 5-day (02)			< 1.0	mg/l
M100	Carbon, organic (C)			26.5	mg/l
M120	COD (02)			21	mg/l
M610	Solids, suspended at 103 C			39	mg/l

MENTS:

Reviewed and Approved by: JMC

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	001
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	☒ YES ☐ NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	STM ELEC PWR
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	☐ YES ☒ NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42). IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 43). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW)	☐ VOLATILE ☐ BASE/NEUTRAL NA ☐ ACID ☐ PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-43 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 43 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); 0, 0-DIMETHYL 0-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE. MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANALYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE D AND IIA THROUGH VA PAGES 42-43. IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE FINAL EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI0005827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER	501

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

NA

- ☐ 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 55)
- ☐ 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 37)
- ☐ 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 39)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- ☒ NOT APPLICABLE
- ☐ APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	UNIT CODE / SAMPLE TYPE / # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	UNIT CODE / UNIT CODE

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR.COMP.

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED. ☐ YES ☒ NO

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005827

ITEM 1

DISCHARGE LOCATION • SCHEDULE • FLOW RATE

WASTEWATER TYPE CODE
1 CONTACT COOLING
2 NONCONTACT COOLING
3 PROCESS
4 SANITARY
5 STORMWATER

UNIT CODE
1 MGY
2 MGD
3 GPD

OUTFALL NUMBER	502
A. LOCATION OF DISCHARGE	NW ¼, SW ¼, SECTION 06, TOWN 06S, RANGE 19W
B. NAME OF RECEIVING WATER (IE. GROUNDWATER OR NAME OF SURFACE WATER)	LAKE MICHIGAN
C. DO YOU DISCHARGE SEASONALLY? (IF NO, CONTINUE TO E)	☐ YES ☒ NO
D. IF YES, LIST DISCHARGE PERIODS — NA	MO. / DAY THROUGH MO. / DAY
E. LAND APPLICATION RATE — NA	IN./HR. HR./DAY IN./WK. ☐ NA
F. TYPE OF WASTEWATER DISCHARGE	WASTEWATER TYPE CODE: 5
G. DISCHARGE SCHEDULE (YEARLY AVERAGE)	HOURS/DAY NA DAY/YEAR NA
H. DISCHARGE FLOW RATE	TOTAL YEARLY 4.11 UNIT CODE 1
BASIS: AVG ANNUAL RAINFALL FOR T. YEARLY	DAILY MINIMUM 0 2
1 IN 10 YR, 24 HR STORM FOR DAILY MAX	DAILY MAXIMUM 0.438 2
I. THE MAXIMUM DISCHARGE FLOW RATE TO BE AUTHORIZED IN PERMIT.	AUTHORIZED 0.438 UNIT CODE 2
J. MAXIMUM DESIGN DISCHARGE FLOW RATE. NA	DESIGN UNIT CODE

ITEM 2

WATER TREATMENT ADDITIVES

UNITS CODE
1 Mg/l
2 Ug/l

A. DO YOU USE WATER TREATMENT ADDITIVES TO TREAT YOUR DISCHARGE? (IF NO, CONTINUE TO ITEM 3)	☐ YES ☒ NO
B. NAME, FUNCTION, AND CHEMICAL COMPOSITION OF THESE ADDITIVES. NA	NAME / FUNCTION
C. NAME AND ADDRESS OF MANUFACTURERS OF THESE ADDITIVES. NA	
D. EXPECTED DISCHARGE CONCENTRATION OF ADDITIVES. NA	MINIMUM / UNITS CODE; AVERAGE / UNITS CODE; MAXIMUM / UNITS CODE
ADDITIVE NAME	
ADDITIVE NAME	
ADDITIVE NAME	
E. DO YOU TREAT THE DISCHARGE TO REMOVE ADDITIVES? NA	☐ YES ☐ NO
F. WHAT IS THE REMOVAL EFFICIENCY AND DISCHARGE FREQUENCY? NA	% REMOVAL; DISCHARGE FREQUENCY HRS./DAY, DAYS/WK.
ADDITIVE NAME	
ADDITIVE NAME	
ADDITIVE NAME	
G. AS AN ATTACHMENT TO THIS APPLICATION PROVIDE SPECIFIC MAMMALIAN OR AQUATIC TOXICOLOGICAL DATA OR REFERENCE WHICH ARE AVAILABLE AND INFORMATION ON THE RATE OF DEGRADATION OF THE PRODUCTS FOR EACH ADDITIVE. NA	

SECTION II

PERMIT NUMBER → MI0005827

SEE INSTRUCTIONS ON REVERSE SIDE

ITEM 3

PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE

OUTFALL NUMBER: 502

PROCESS 1

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE: SCATCH BASIN

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY NA DAYS/YEAR NA

C. PROCESS VOLUME FLOW RATE:
- TOTAL YEARLY: 4.11 UNIT CODE 1
- DAILY MINIMUM: 0 UNIT CODE 2
- DAILY MAXIMUM: 0.438 UNIT CODE 2

D. PROCESS PRODUCTION RATE: NA UNITS / TIME

PROCESS 2

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE:
- TOTAL YEARLY UNIT CODE
- DAILY MINIMUM
- DAILY MAXIMUM

D. PROCESS PRODUCTION RATE: UNITS / TIME

PROCESS 3

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE:
- TOTAL YEARLY UNIT CODE
- DAILY MINIMUM
- DAILY MAXIMUM

D. PROCESS PRODUCTION RATE: UNITS / TIME

PROCESS 4

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE:
- TOTAL YEARLY UNIT CODE
- DAILY MINIMUM
- DAILY MAXIMUM

D. PROCESS PRODUCTION RATE: UNITS / TIME

PROCESS 5

A. NAME OF PROCESS CONTRIBUTING TO THE DISCHARGE THROUGH THIS OUTFALL AND SIC CODE

B. PROCESS SCHEDULE (YEARLY AVERAGE): HOURS/DAY DAYS/YEAR

C. PROCESS VOLUME FLOW RATE:
- TOTAL YEARLY UNIT CODE
- DAILY MINIMUM
- DAILY MAXIMUM

D. PROCESS PRODUCTION RATE: UNITS / TIME

UNITS CODE
1 POUNDS
2 GALLONS
3 CUBIC YARDS
4 TONS
5 MGY
6 MGD
7 GPD

TIME
1 HOUR
2 DAY
3 WEEK
4 MONTH
5 YEAR

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI0005728

ITEM 4 — GROUNDWATER DISCHARGE INFORMATION

	OUTFALL NUMBER	S02
A.	IS THE DISCHARGE FROM THIS OUTFALL DIRECTED TO THE GROUND OR GROUNDWATERS? (IF NO, CONTINUE TO ITEM 5)	☐ YES ☒ NO
B.	HAS A HYDROGEOLOGICAL STUDY OR ITS EQUIVALENT BEEN PERFORMED OR IS THERE SUFFICIENT CURRENT HYDROGEOLOGICAL INFORMATION AVAILABLE AS REQUIRED BY THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES OF AUGUST 14, 1980 R.323.2207 (PAGE 45) FOR THIS EXISTING OR PROPOSED DISCHARGE? IF YES ATTACH A COPY OF THE REPORT. NA	☐ YES ☐ NO
C.	ARE YOU REQUESTING AN EXEMPTION FROM SUBMITTING A HYDROGEOLOGICAL REPORT UNDER RULE R.323.2207 (10) (PAGE 46) OR FROM GROUNDWATER MONITORING REQUIREMENTS UNDER RULE R.323.2208 (5) (PAGE 47) OF THE PART 22 RULES. IF YES ATTACH DOCUMENTS AND EXPLANATION TO DEMONSTRATE THAT YOUR DISCHARGE WOULD QUALIFY FOR AN EXEMPTION. NA	☐ YES ☐ NO
D.	ARE YOU REQUESTING A VARIANCE FROM RULE 323.2205 (PAGE 45) (NONDEGRADATION) OF THE WATER RESOURCES COMMISSION PART 22 GROUNDWATER RULES? IF YES, ATTACH SUCH DOCUMENTS AS NECESSARY TO DEMONSTRATE THE NEED FOR A VARIANCE IN TERMS OF THE CRITERIA SPECIFIED IN RULE 323.2210 (PAGE 47) OF THE PART 22 RULES. NA	☐ YES ☐ NO
E.	LIST ALL CHEMICAL SUBSTANCES WHICH ARE IN MICHIGAN'S CRITICAL MATERIALS REGISTER TABLE IV (PAGE 6) AND/OR U.S. EPA'S PRIORITY POLLUTANT LIST TABLE V (PAGE 7) OR ANY OTHER SUBSTANCES WHICH ARE OR MAY BECOME INJURIOUS TO THE DESIGNATED USES OF THE GROUNDWATER OR TO THE PUBLIC HEALTH THAT ARE DISCHARGED OR EXPECTED TO BE DISCHARGED TO THE GROUNDWATER BY THIS FACILITY. ESTIMATE THE FINAL EFFLUENT CONCENTRATION AND RECORD ALL DATA IN ITEM 7 OF SECTION II IN THIS BOOKLET. THE APPLICANT MAY BE REQUIRED TO DO ADDITIONAL WASTE ANALYSES. NA	☐ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT, DATA PROVIDED IN ITEM 7

ITEM 5 — EXPECTED WASTEWATER CHARACTERISTICS

UNITS CODE: 1 Mg/l; 2 Ug/l; 3 COUNTS/100 ml; 4 S.U.; 5 °F; 6 LBS/DAY

SAMPLE TYPE: 1 GRAB; 2 24 HOUR COMPOSITE

A. DISCHARGE CHARACTERISTICS

	CONCENTRATION AVE	CONCENTRATION MAX	UNITS CODE	# ANALYSES	SAMPLE TYPE CODE
*BOD5 (FIVE DAY BIOLOGICAL OXYGEN DEMAND)	____.____	____.____	1	____	____
*COD (CHEMICAL OXYGEN DEMAND)	____.____	____.____	1	____	____
*TOC (TOTAL ORGANIC CARBON)	____.____	____.____	1	____	____
*AMMONIA NITROGEN (AS N)	____.____	____.____	1	____	____
*TOTAL SUSPENDED SOLIDS	____.____	____.____	1	____	____
TOTAL PHOSPHORUS (AS P)	____.____	____.____	1	____	____
TOTAL RESIDUAL CHLORINE	____.____	____.____	1	____	____
DISSOLVED OXYGEN (MIN)	____.____	____.____	1	____	____
*PH (MIN) ____.__		____.__	4	____	____
FECAL COLIFORM BACTERIA	____.____	____.____	3	____	____
*TEMPERATURE (SUMMER)	____.__	____.__	5	____	____
*TEMPERATURE (WINTER)	____.__	____.__	5	____	____

B. OTHER WASTEWATER CHARACTERISTICS

OIL & GREASE	____.____	____.____		____	____
_____	____.____	____.____		____	____
_____	____.____	____.____		____	____
_____	____.____	____.____		____	____
_____	____.____	____.____		____	____
_____	____.____	____.____		____	____
_____	____.____	____.____		____	____

* STORM WATER DISCHARGED THROUGH OUTFALL S02 IS SIMILAR TO STORMWATER DISCHARGED THROUGH OUTFALL S01. THEREFORE, INDIANA & MICHIGAN ELECTRIC COMPANY REQUESTS PERMISSION TO USE THE SCREENING DATA FROM OUTFALL S01 TO CHARACTERIZE THIS DISCHARGE.

SEE INSTRUCTIONS ON REVERSE SIDE

SECTION II

PERMIT NUMBER → MI 0005827

ITEM 6

PRIORITY POLLUTANTS AND ADDITIONAL INFORMATION FOR SURFACE WATER DISCHARGE ONLY

OUTFALL NUMBER	002
THE FOLLOWING REQUESTED INFORMATION SHALL BE ADDRESSED BY ALL SURFACE WATER DISCHARGERS. NOTE! NEW USE DISCHARGERS SHALL PROVIDE EXPECTED VALUES FOR THE QUANTITATIVE AND QUALITATIVE INFORMATION REQUESTED BELOW.	
A. IS THIS FACILITY A PRIMARY INDUSTRY? (REFER TO TABLE IA PAGE 41) (IF NO, GO TO E) (IF YES, GO TO B)	☒ YES ☐ NO
B. INDICATE TYPE OF PRIMARY INDUSTRY AS LISTED IN TABLE IA PAGE 41. (CONTINUE WITH C.)	STIMI EILIEIC IPIWIR
C. DOES THIS OUTFALL DISCHARGE CONTAIN ANY PROCESS WASTEWATER? (IF NO, GO TO E) (IF YES, GO TO D)	☐ YES ☒ NO
D. INDICATE WHICH GC/MS FRACTIONS MUST BE TESTED FOR. (REFER TO TABLE IA PAGE 41) NOTE! FOR EACH GC/MS FRACTION CHECKED, EACH SPECIFIC ORGANIC TOXIC POLLUTANT WITHIN EACH FRACTION MUST BE ANALYZED FOR (SEE TABLE IIA PAGE 42. IN ADDITION, ALL PRIMARY INDUSTRY APPLICANTS WITH A PROCESS WASTEWATER DISCHARGE MUST PROVIDE QUANTITATIVE DATA FOR EACH TOXIC POLLUTANT IN TABLE IIIA PAGE 43). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET. (CONTINUE WITH E-K BELOW)	☐ VOLATILE ☐ BASE/NEUTRAL ☐ ACID NA ☐ PESTICIDE
E. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF THE TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE THAT ANY POLLUTANT LISTED IN TABLE IIA AND IVA PAGES 42-43 IS DISCHARGED FROM ANY OUTFALL, THE QUANTITATIVE MUST BE PROVIDED. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
F. IF ANY SURFACE WATER DISCHARGE APPLICANT (PRIMARY OR SECONDARY INDUSTRY), REGARDLESS OF TYPE OF DISCHARGE, KNOWS OR HAS REASON TO BELIEVE ANY POLLUTANTS LISTED IN TABLE VA PAGE 43 ARE DISCHARGED FROM ANY OUTFALL THE APPLICANT MUST DESCRIBE REASONS FOR THE POLLUTANT BEING PRESENT AND PROVIDE ANY AVAILABLE QUANTITATIVE DATA. RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
G. ALL SURFACE WATER DISCHARGE APPLICANTS (PRIMARY AND SECONDARY INDUSTRIES) WHO: USES OR MANUFACTURES 2, 4, 5 - TRICHLOROPHENOXY ACETIC ACID (2, 4, 5-T); 2-(2, 4, 5-TRICHLOROPHENOXY) PROPANOIC ACID (SILVEX, 2, 4, 5, TP); 2-(2, 4, 5-TRICHLOROPHENOXY) ETHYL 2, 2-DICHLOROPROPIONATE (ERBON); O, O-DIMETHYL O-(2, 4, 5-TRICHLOROPHENYL) PHOSPHOROTHIOATE (RONNEL); 2, 4, 5-TRICHLOROPHENOL (TCP); OR HEXACHLOROPHENE (HCP); (ALL DATA FOR THE ABOVE MUST BE GENERATED USING STANDARD ANALYTICAL CALIBRATION PROCEDURES) OR KNOWS OR HAS REASON TO BELIEVE THAT TCDD IS OR MAY BE PRESENT IN THEIR DISCHARGE. MUST REPORT QUALITATIVE DATA, GENERATED WHICH USED A SCREENING PROCEDURE NOT CALIBRATED WITH ANALYTICAL STANDARDS, FOR 2, 3, 7, 8, - TETRACHLORODIBENZO-P-DIOXIN (TCDD). RECORD ALL DATA ON FORMS PROVIDED (ITEM 7) IN THIS BOOKLET.	☒ NOT APPLICABLE/BELIEVED ABSENT ☐ PRESENT/DATA IS ATTACHED
J. IF THE SURFACE WATER DISCHARGE APPLICANT KNOWS OR HAS REASON TO BELIEVE THAT BIOLOGICAL TOXICITY TESTS WERE MADE IN THE LAST THREE (3) YEARS ON ANY OF THE APPLICANT'S DISCHARGES OR ON A RECEIVING WATER IN RELATION TO A DISCHARGE, PROVIDE THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
K. IF A CONTRACT LABORATORY OR CONSULTING FIRM PERFORMED ANY OF THE ANLAYSES REQUIRED BY THIS APPLICATION, PROVIDE THE NAME AND ADDRESS OF EACH LABORATORY OR FIRM AND THE ANALYSES PERFORMED AS AN ATTACHMENT OF THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED
L. DO YOU DISCHARGE ANY OTHER TOXIC OR INJURIOUS CHEMICAL SUBSTANCES NOT LISTED IN TABLES IV PAGE D AND IIA THROUGH VA PAGES 42-43. IF YES, THEN IDENTIFY THE CHEMICAL SUBSTANCES AND ESTIMATE THE FINAL EFFLUENT CONCENTRATIONS. SUBMIT THIS INFORMATION AS AN ATTACHMENT TO THIS APPLICATION.	☒ NOT APPLICABLE ☐ APPLICABLE/SEE ATTACHED

SECTION II

SEE INSTRUCTIONS ON REVERSE SIDE

PERMIT NUMBER → MI 000 5827

ITEM 7

CRITICAL MATERIALS • TOXIC POLLUTANTS • HAZARDOUS SUBSTANCES IN DISCHARGE

OUTFALL NUMBER: 5,0,2

A. USE THIS DATA SHEET TO RECORD INFORMATION AS REQUIRED IN: (CHECK APPROPRIATE BOX FOR WHICH INFORMATION THIS DATA SHEET REPRESENTS.)

NA

- ☐ 1. SECTION II, ITEM 4-E. GROUNDWATER DISCHARGE INFORMATION (PAGE 35)
- ☐ 2. SECTION II, ITEM 6. PRIORITY POLLUTANTS IN SURFACE WATER DISCHARGE (PAGE 37)
- ☐ 3. B. BELOW: CRITICAL MATERIALS (TABLE IV) IN SURFACE WATER DISCHARGE (PAGE 39)

B. LIST ANY CRITICAL MATERIAL (TABLE IV PAGE 6) NOT ADDRESSED IN SECTION II ITEM 6 PRIORITY POLLUTANTS WHICH YOU KNOW OR HAVE REASON TO BELIEVE TO BE PRESENT IN THE DISCHARGE. SEE REVERSE SIDE OF THIS PAGE FOR FURTHER DIRECTIONS.

- ☒ NOT APPLICABLE
- ☐ APPLICABLE (SEE BELOW)

MATERIAL 1	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 2	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 3	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 4	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 5	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 6	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 7	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE
MATERIAL 8	A. NAME OF CRITICAL MATERIAL OR PRIORITY POLLUTANT	
	B. AVERAGE CONCENTRATION; SAMPLE TYPE; # OF ANALYSES	. UNIT CODE SAMPLE TYPE # OF ANALYSES
	C. MAXIMUM CONCENTRATION AND MASS	. UNIT CODE . UNIT CODE

UNITS CODE
1 Mg/l
2 Ug/l
3 LBS/DAY
4 KG/DAY

SAMPLE TYPE
1 GRAB
2 24 HR COMP

ADDITIONAL PAGES OF THIS ITEM 7 ARE ATTACHED FOR THE REST OF THE CRITICAL MATERIALS AND/OR PRIORITY POLLUTANTS REQUIRED TO BE REPORTED. ☐ YES ☒ NO

ATTACHMENT I

Rcvd 4-17-85

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275

412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 04/12/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
VENDOR NO: 05411000
WORK ORDER NO: 55830
DATE RECEIVED: 03/20/85

SAMPLE IDENTIFICATION			NUS SAMPLE NO	RESULTS	UNITS
LAKE MICHIGAN INTAKE		02/26	15031141		
OD26	Triarylphosphate esters			< 50	ug/l
W340	Hydrazine			< 0.04	mg/l
UNIT 1 DISCHARGE		02/26	15031142		
OD26	Triarylphosphate esters			< 50	ug/l
W340	Hydrazine			< 0.04	mg/l
UNITE 1 SG BLOWDOWN		02/26	15031143		
OD26	Triarylphosphate esters			< 50	ug/l
W340	Hydrazine			0.20	mg/l
TURBINE ROOM SUMP		02/26	15031144		
OD26	Triarylphosphate esters			< 50	ug/l
W340	Hydrazine			< 0.04	mg/l
AUX. HEATING BOILER BLOWDOWN		02/26	15031145		
OD26	Triarylphosphate esters			< 50	ug/l
W340	Hydrazine			< 0.04	mg/l
UNIT 2 SG BLOWDOWN		02/26	15031547		
OD26	Triarylphosphate esters			< 50	ug/l
W340	Hydrazine			0.40	mg/l
UNIT 2 DISCHARGE		02/26	15031548		
OD26	Triarylphosphate esters			< 50	ug/l
W340	Hydrazine			< 0.04	mg/l

MMENTS:

Reviewed and Approved by: JMC

4/3/85

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275

412-788-1080

LAB ANALYSIS REPORT

CLIENT NAME: INDIANA & MICHIGAN ELECTRIC CO.
ADDRESS: P. O. BOX 60
FORT WAYNE, IN 46801

REPORT DATE: 03/26/85

ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021679
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: LAKE MICHIGAN INTAKE 02/26

TEST	DETERMINATION	RESULTS	UNITS
1361	NPDES PART V-B		
M010	Aluminum (Al)	< 0.1	mg/l
1040	Barium (Ba)	< 0.1	mg/l
M150	Cobalt (Co)	< 0.01	mg/l
1190	Iron,total (Fe)	0.06	mg/l
M230	Magnesium (Mg)	12	mg/l
1240	Manganese (Mn)	< 0.01	mg/l
M260	Molybdenum (Mo)	< 0.03	mg/l
1340	Tin (Sn)	< 1	mg/l
M350	Titanium (Ti)	< 0.5	mg/l
1055	Boron (B)	< 0.2	mg/l
W060	Bromide (Br)	< 2	mg/l
1225	Color, True	120	Pt-Co
W310	Fluoride, total (F)	0.6	mg/l
1390	Nitrate (N)	0.4	mg/l
W410	Nitrite (N)	< 0.01	mg/l
1435	Nitrogen, Kjeldahl (N)	0.3	mg/l
W440	Nitrogen, Organic (N)	0.3	mg/l
1540	Phosphorus, total (P)	0.47	mg/l
W730	Sulfate, turbidimetric (SO4)	26	mg/l
1740	Sulfide (S)	< 0.1	mg/l
W760	Sulfite (SO3)	< 2	mg/l
1770	Surfactants (MBAS)	< 0.1	mg/l
M362	NPDES PART V-C TOXIC METALS		
M020	Antimony (Sb)	< 0.1	mg/l
M030	Arsenic (As)	< 0.001	mg/l
4050	Beryllium (Be)	< 0.002	mg/l
M090	Cadmium (Cd)	< 0.005	mg/l
1140	Chromium (Cr)	0.01	mg/l
M160	Copper (Cu)	< 0.01	mg/l
1200	Lead (Pb)	< 0.03	mg/l
M250	Mercury (Hg)	< 0.0002	mg/l

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TEST	DETERMINATION	RESULTS	UNITS
M270	Nickel (Ni)	< 0.03	mg/l
M290	Selenium (Se)	< 0.004	mg/l
M300	Silver (Ag)	0.01	mg/l
M330	Thallium (Tl)	< 0.1	mg/l
M390	Zinc (Zn)	0.01	mg/l
W270	Cyanide, total (CN)	< 0.005	mg/l
M500	Phenolics	< 0.02	mg/l
M220	Lithium (Li)	< 0.01	mg/l
M110	VOLATILES-PP IN WATER		
OV01	Acrolein	< 100	ug/l
MV02	Acrylonitrile	< 100	ug/l
OV03	Benzene	< 5	ug/l
MV05	Bromoform	< 5	ug/l
OV06	Carbon Tetrachloride	< 5	ug/l
MV07	Chlorobenzene	< 5	ug/l
OV08	Chlorodibromomethane	< 5	ug/l
MV09	Chloroethane	< 10	ug/l
OV10	2-Chloroethylvinyl Ether	< 10	ug/l
MV11	Chloroform	< 5	ug/l
OV12	Dichlorobromomethane	< 5	ug/l
MV14	1,1-Dichloroethane	< 5	ug/l
OV15	1,2-Dichloroethane	< 5	ug/l
MV16	1,1-Dichloroethylene	< 5	ug/l
OV17	1,2-Dichloropropane	< 5	ug/l
MV18	1,3-Dichloropropylene	< 5	ug/l
OV19	Ethylbenzene	< 5	ug/l
MV20	Methyl Bromide	< 10	ug/l
OV21	Methyl Chloride	< 10	ug/l
MV22	Methylene Chloride	< 5	ug/l
OV23	1,1,2,2-Tetrachloroethane	< 5	ug/l
MV24	Tetrachloroethylene(Perchloro)	< 5	ug/l
OV25	Toluene	< 5	ug/l

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SAMPLE IDENTIFICATION: LAKE MICHIGAN INTAKE 02/26

TEST	DETERMINATION	RESULTS	UNITS
0V26	1,2-Trans-Dichloroethylene	< 5	ug/l
0V27	1,1,1-Trichloroethane	< 5	ug/l
#V28	1,1,2-Trichloroethane	< 5	ug/l
0V29	Trichloroethylene	< 5	ug/l
#V31	Vinyl chloride	< 5	ug/l
0120	ACIDS - PP IN WATER		
0A01	2-Chlorophenol	< 10	ug/l
0A02	2,4-Dichlorophenol	< 10	ug/l
#A03	2,4-Dimethylphenol	< 10	ug/l
0A04	4,6-Dinitro-o-cresol	< 50	ug/l
#A05	2,4-Dinitrophenol	< 50	ug/l
0A06	2-Nitrophenol	< 10	ug/l
#A07	4-Nitrophenol	< 50	ug/l
0A08	p-Chloro-m-cresol	< 10	ug/l
#A09	Pentachlorophenol	< 50	ug/l
0A10	Phenol	< 10	ug/l
#A11	2,4,6-Trichlorophenol	< 10	ug/l
0E30	Acid Extraction-Water		
0130	BASE NEUTRALS - PP IN WATER		
0B01	Acenaphthene	< 10	ug/l
#B02	Acenaphthylene	< 10	ug/l
0B03	Anthracene	< 10	ug/l
#B04	Benzidine	< 50	ug/l
0B05	Benzo(a)Anthracene	< 10	ug/l
#B06	Benzo(a)Pyrene	< 10	ug/l
0B07	3,4-Benzofluoranthene	< 10	ug/l
#B08	Benzo(ghi)Perylene	< 10	ug/l
0B09	Benzo(k)Fluoranthene	< 10	ug/l
#B10	Bis(2-Chloroethoxy)Methane	< 10	ug/l
0B11	Bis(2-Chloroethyl)Ether	< 10	ug/l
#B12	Bis(2-Chloroisopropyl)Ether	< 10	ug/l
0B13	Bis(2-Ethylhexyl)Phthalate	< 10	ug/l

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SAMPLE IDENTIFICATION: LAKE MICHIGAN INTAKE 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB14	4-Broaophenyl Phenyl Ether	< 10	ug/l
OB15	Butyl Benzyl Phthalate	< 10	ug/l
*B16	2-Chloronaphthalene	< 10	ug/l
OB17	4-Chlorophenyl Phenyl Ether	< 10	ug/l
*B18	Chrysene	< 10	ug/l
OB19	Dibenzo(a,h)Anthracene	< 10	ug/l
*B20	1,2-Dichlorobenzene	< 10	ug/l
OB21	1,3-Dichlorobenzene	< 10	ug/l
*B22	1,4-Dichlorobenzene	< 10	ug/l
OB23	3,3'-Dichlorobenzidine	< 10	ug/l
*B24	Diethyl Phthalate	< 10	ug/l
OB25	Dimethyl Phthalate	< 10	ug/l
*B26	Di-N-Butyl Phthalate	< 10	ug/l
OB27	2,4-Dinitrotoluene	< 10	ug/l
*B28	2,6-Dinitrotoluene	< 10	ug/l
OB29	Di-N-Octyl Phthalate	< 10	ug/l
*B30	1,2-Diphenylhydrazine(Azobz)	< 20	ug/l
OB31	Fluoranthene	< 10	ug/l
*B32	Fluorene	< 10	ug/l
OB33	Hexachlorbenzene	< 10	ug/l
*B34	Hexachlorobutadiene	< 10	ug/l
OB35	Hexachloro-cyclopentadiene	< 10	ug/l
*B36	Hexachloroethane	< 10	ug/l
OB37	Indeno(1,2,3 cd)Pyrene	< 10	ug/l
*B38	Isophorone	< 10	ug/l
OB39	Naphthalene	< 10	ug/l
*B40	Nitrobenzene	< 10	ug/l
OB41	N-Nitrosodimethylamine	< 10	ug/l
*B42	N-Nitrosodi-N-Propylamine	< 10	ug/l
OB43	N-Nitrosodiphenylamine	< 10	ug/l
*B44	Phenanthrene	< 10	ug/l
OB45	Pyrene	< 10	ug/l

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SAMPLE IDENTIFICATION: LAKE MICHIGAN INTAKE 02/26

TEST	DETERMINATION	RESULTS	UNITS
OB46	1,2,4-Trichlorobenzene	< 10	ug/l
OE25	Base Neutral Extraction-Water		
O141	PRIORITY POLLUTANT PCB'S		
OE11	PCB Extraction - Water		
OP19	PCB-1016	< 0.5	ug/l
OP20	PCB-1221	< 0.5	ug/l
OP21	PCB-1232	< 0.5	ug/l
OP22	PCB-1242	< 0.5	ug/l
OP23	PCB-1248	< 0.5	ug/l
OP24	PCB-1254	< 1.0	ug/l
OP25	PCB-1260	< 1.0	ug/l
R450	RADIUM 226 AND 228		
R804	Radium-226	< 0.4	pCi/l
R805	Radium-228	< 2	pCi/l
R800	Gross Alpha	< 2	pCi/l
R801	Gross Beta	< 2	pCi/l
W032	Ammonia as N (distillation)	< 0.1	mg/l
W050	BOD, 5-day (02)	< 1	mg/l
W100	Carbon, organic (C)	19.5	mg/l
W120	COD (02)	< 5	mg/l
W610	Solids, suspended at 103 C	< 1	mg/l

COMMENTS:

Reviewed and Approved by: PM

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ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021680
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: LAKE MICHIGAN INTAKE - GRAB #1 02/25 0855

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	4	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	8.1	
W680	Oil, extraction-gravimetric	2.1	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021682
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: LAKE MICHIGAN INTAKE - GRAB #3 02/25 2110

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	< 3	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
1490	pH	8.0	
W680	Oil, extraction-gravimetric	1.1	mg/l

COMMENTS:

Reviewed and Approved by: JMC

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ATTENTION: MR. JOHN HUGHEY

REPORT DATE: 03/26/85

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021683
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: LAKE MICHIGAN INTAKE - GRAB #4 02/26 0310

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	9	col/100ml
W150	Chlorine, residual DPD (C12)	< 0.1	mg/l
B490	pH	8.1	
W680	Oil, extraction-gravimetric	1.5	mg/l

COMMENTS:

Reviewed and Approved by: JMC

A Halliburton Company

CLIENT ORIGINAL

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ATTENTION: MR. JOHN HUGHEY

NUS CLIENT NO: 010904
NUS SAMPLE NO: 15021681
VENDOR NO:
WORK ORDER NO: 55830
DATE RECEIVED: 02/27/85

SAMPLE IDENTIFICATION: LAKE MICHIGAN INTAKE - GRAB #2 02/25 1510

TEST	DETERMINATION	RESULTS	UNITS
BA32	Fecal Coliform - MPN	7	col/100ml
W150	Chlorine, residual DPD (Cl2)	< 0.1	mg/l
B490	pH	8.0	
W680	Oil, extraction-gravimetric	1.5	mg/l

COMMENTS:

Reviewed and Approved by: JMC