Exhibit G

FORM APPROVED OMB NO. 49-R 0408 DEPARTMENT OF THE ARMY, CORPS OF ENGINEERS 子的 APPLICATION FOR PERMIT TO DISCHARGE OR WORK IN NAVIGABLE WATERS AND THEIR TRIBUTARIES IL DODA Application Number (to be assigned by Corps of Engineers) 0 7 2 0 Y E 2 0 0 0 4 6 5 1. State SECTION I. GENERAL INFORMATION <u>0 72 DYE</u> Dist. Div. Type Sequence No. 2. Name of applicant and title of signing official KM#2108-73 Electric Energy, Inc. Vice President 3. Mailing address of applicant Electric Energy, Inc. P. O. Box 165 Joppa, Illinois 62953 4 Name, address, telephone number and title of applicant's authorized agent for permit application coordination and correspondence. George A. Rice. Vice President P. O. Box 165 <u>Joppa, Illinois 62953</u> Ph. (618) 543-7531 NOTE TO APPLICANT: Refer to the pamphlet entitled "Permits for Work and Structures in and for Discharges or Deposits into Navigable Waters" before attempting to complete this form. Required Information a. All information contained in this application will, upon request, be made available to the public for inspection and copying. A separate sheet entified "Confidential Answers" must be used to set out information which is considered by the applicant to constitute trade secrets or commescial or financial information of a confidential nature. The information must clearly indicate the item number to which is applies. Confidential treatment can be considered only for that information for which a specific written request of confidentiality has been made on the attached sheet. However, in no event will identification of the contents and frequency of a discharge be recognized as confidential or privileged information. 5. The applicant shall furnish such supplementary information as is required by the District Engineer in order to evaluate fully an application. If additional space is needed for a complete response to any item on this form, attach a sheet entitled "Additional Information." Indicate on that sheet the item numbers to which answers apply. d. Drawings required by items 20 and 21 should be attached to this application. Other papers which must be attached to this application include. if applicable, copies of a water quality certification or a written communication which describes water quality impact (see Item 22 and Item 10 of Section II below), the additional information sheet(s) in "c" above, and the confidential information sheet described in "c" above. If any discharge or deposit is involved, an application fee of \$100 must be submitted with this application. An additional \$50 is required for each additional point of discharge or deposit. 3. If a discharge is involved, an application submitted by a corporation must be signed by the principal executive officer of that corporation or by an official of the rank of corporate vice president or above who reports directly to such principal executive officer and who has been designated by the prescipal executive officer to make such applications on behalf of the corporation. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor. Other signature requirements are discussed in the pamphlet. b. If no discharge is involved, an application may be signed by the applicant or his authorized agent. Application is hereby made for a permit or permits to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete, and accurate. Signature of Applicant 13 U.S.C. Section 1001 provides that: Whoever, in any matter within the jurisdiction of any department or agency of the United States knowingly and wilfully falsifies, donceals or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both. FOR CORPS OF ENGINEERS USE ONLY Are discharge structures

Acronym name of applicant Minor? Date received, form not complete Date received, form complete Date sent to EPA, form not complete but without certificate Date received, form complete Date sent to EPA, NOAA, D/I, AEC. Date of Cert./Ltr. FPC in complete form ma

Signature

Revised 6.30-72

5. Date	Electro	nic Filing: J	Received	, Clerk's O	ffice 11	/29/2024 ·	baly S 2	2021-05*	:*	
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11. Check to indic				•		•				
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sed 6-30-72 15 structures exist, or dr Edengiannic Filingio Reagen ved in Glerk'in Office 10102/202144* precise socation of the activity must be described. a. Name the corporate boundaries within which the structures exist or the activity will occur. City or Town llinois Massac b. Name of waterway at the location of the activity Ohic River 30. Mans and sketches which show the location and character of each structure or activity, including any and all autfall devices, dispersive devices. and con-structural points of discharge, must be attached to this application. 21. For construction or work in navigable waters for which a separate permit is sought under 33 U.S.C. 403, the character of each structure must be fully shown on detailed plans to be submitted with this application. Note on the drawings those structures for which separate discharge information [Section II of this form) has been submitted. 22. List all approvals or denials granted by Federal, interstate, State or local agencies for any structures, construction, discharges or deposits. described in this application. Type of document Id. No. Issuing Agency Permit 13 June 1951* U.S. Corps Engrs. None Louisville, Ky. Application for Permits Log 1373-1 22 Dec. 1971 Illinois E.P. Agency 72-15 12 April 1972 Permit U.S. Corps Engrs. Louisville, Ky. Revised 2 Feb. 1952 25 April 1955 Amended 23 Check if facility existed or was lawfully under construction prior to April 3, 1970. 24. If dredging or filling will occur: State the type of materials involved, their volume in cubic yards, and the proposed method of measurement. None 25. Describe the proposed method of instrumentation which will be used to measure the volume of any solids which may be deposited and to determine its effect upon the waterway.

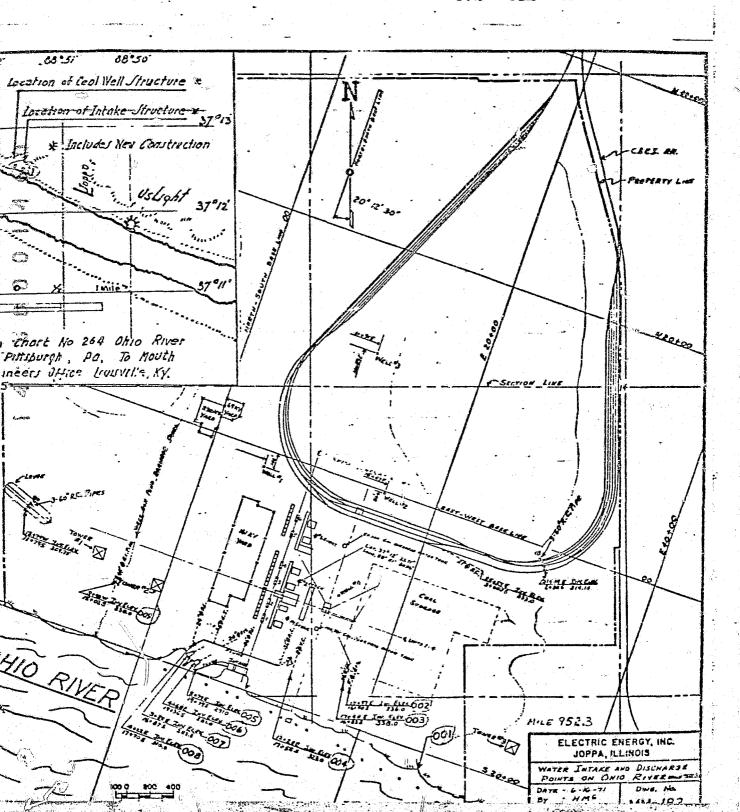
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N/A

26. State rates and periods of deposition described in Item 25.

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LOCATION	DIA.	MATL	TWY. ELEI
002	8"	STEEL	336
003	30"	R.C.	338
004	8"	VIT. CLAY	323
609	48"	R.C.	<i>330</i>

PIPE

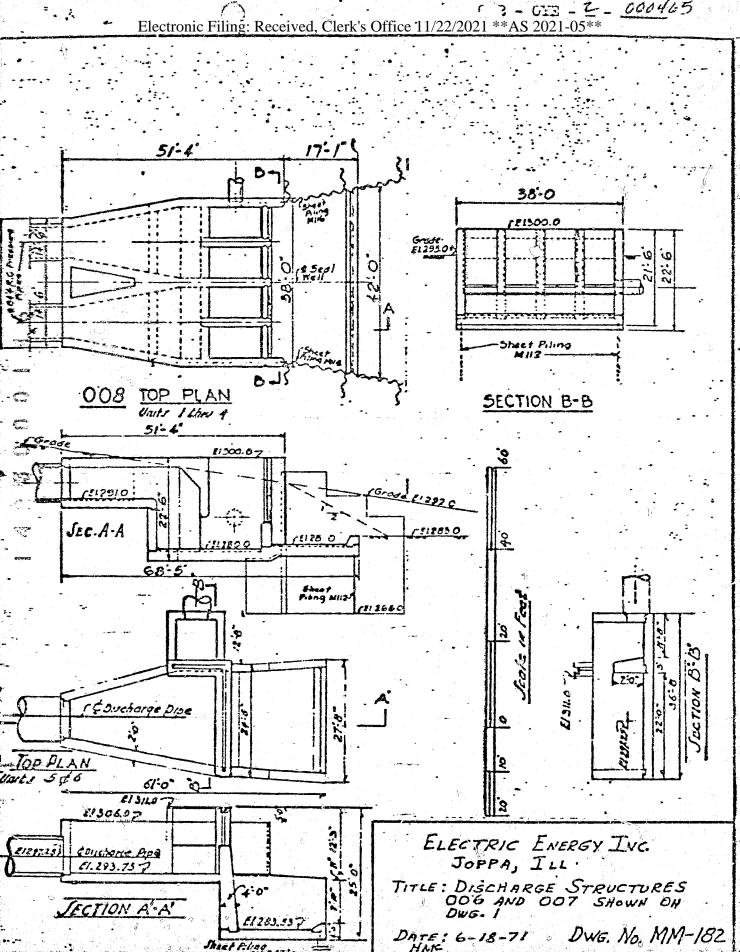
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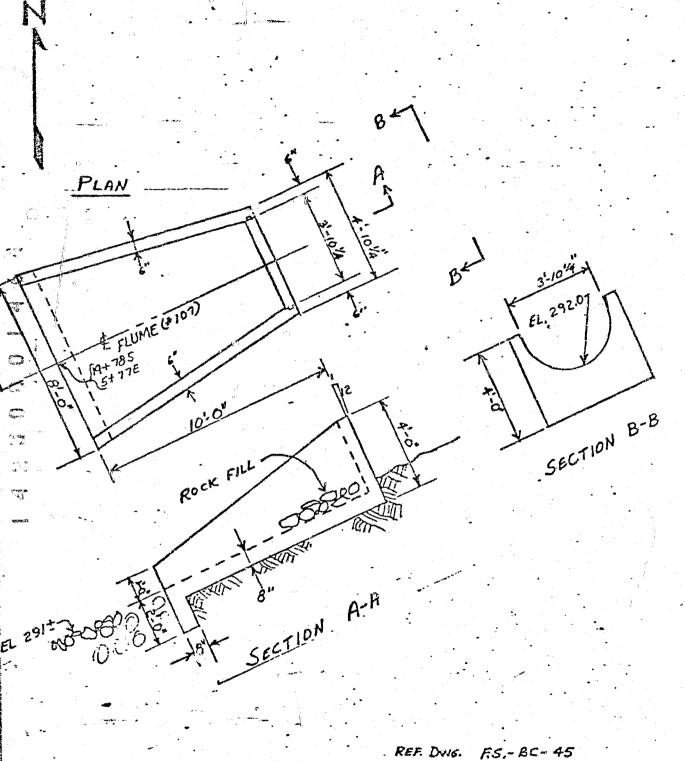
R.C. - REINFORCED CONCRETE

AT PIPE DISCHARGE No SCALE - SEE TABLE

ELECTRIC ENERGY INC. JOPPA, ILL.

TITLE: TYPICAL DETAIL OF PIPE. OUTFALLS Nos. 002,003; 004, & 009 . DWG. NO. MM-182 DATE : 6-21-71





ELECTRIC ENERGY INC. JOPPA, ILL

TITLE: TRAVELING SCREENS WASH WATER FLUME DISCHARGE-005

DATE: 6-21-71 Dwg. Na MM-182

SCALE IN FEET.

\$			Let 6-30-72
	SECTION II.	PLANT PROCESS AND DISCHARGE Received, Clerk's Office 11/22/20	SE DESCRIPTION
1. Discharge desc	ribed below Strome Finning.	2. Implementation (Office	USB only)
L X		schedule /L	072 OYE 2 000465
Name of comman	te boundaries within which the po	oint of discharge is located.	6. Discharge Serial No.
	State	County	City or 001
	1 Illinois	4 Massac	5. N/A
State the precise I	ocation of the point of discharge	Q Name of water	
	3 7 Degrees; 1 2 Mi		at the point of discharge.
£ .	8 <u>8</u> Degrees; <u>5</u> <u>1</u> Mi	1 01110 111101	
10. Has applicatio	n for water quality certification (or description of impact been made? If so, gi	ive date:
	Date	Check if certificate	Name Issuing Agency
ar.	JUN 30 72	is attached to form	**************************************
	mo day yr		
11. Narrative descr	ription of activity (include terms	of general 4-digit Standard Industrial Classifi	ication, and specific manufacturing process
. 9	Receives surface	drainage from surrounding a	area plus surface drainage
,-	trom now discont	inued ash disposal pond plus	s surface drain from porth
	(east) of coal st	us coal car dumper drains p	lus drain from back side
with gadasiy	(cast) of cost si	torage pite.	Majoran de la companya de la company
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yearing forced			
22			
12. Standard indus	trial classification number.	13. Principal product.	14. Amount of principal product produced
	SIC 4911	Electric Power	per day. 20,047 MWH
			· (Gross)
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15. Principal raw m	aterial.	16. Amount of principal raw material	177 Atrial and Brand Mindragan has day
	N/A	. consumed per day.	17. Number of batch discharges per day.
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	And the second s		
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18. Average gallons	per batch discharge.	19. Date discharge began.	20. Date discharge will begin.
18. Average gallons	per batch discharge. 1 N/A	9. Date discharge began. AUG 01 5	
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18. Average gallons 21. Describe waste a	N/A statement practices. None	<u>AUG 01 5</u>	3 <u>N/A</u>
•	N/A statement practices. None	<u>AUG 01 5</u>	3 N/A
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00620 Vitrite		X		00916 Cobalt		レ	X		01092 Algicides			Х	
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00665 Sulfate		X		01034 Copper		/		X	00550 Phenois		ν		X
X0945 Sulfide	<u> </u>	X		01042 Iron			X		32730 Surfactants				X
00745 Sulfite		X		01045 Lead		· · · · · · · · · · · · · · · · · · ·	X		38260 Chlorinated H	ydrocarbons			X
X0740 Bromide		X	_	01051 Magnesium			Х		74052 Pesticides				X
71870 Chloride		-	X	00927 Manganese		W//	Х		74053 Fecal Strepton	cocci Bacteria			X
0940 Cyanide		Х	_	01055 Mercury			X		74054 Coliform Bact	eria		X	\dashv
00720 Iuoride			Х	71900 Molybdenum			X	-	74056			Х	H
YME*		·Y		INDIANGUADUAN.				X			1 200		

20	Hz va	ill known hazardous or potentially hazardous substances i	in your t	·lant been	inventoriady
	**************************************	X Yes Electronic Filing: Received, Clerk			
24b	if yes,	have steps been taken to insure that there exists no possi	ibility of	any such	known hazardous or potentially hazardous substance entering
	ង្វាដ បរ			-	
	;	X Yes No		• ———	
25.	Remarks.	(1) Estimated :	(5) San	uple from ash pond runoff requested by
		(2) Sampled 2 times		Fed	. FFA not available due to no tain an
		(3) Sampled 3 times		no	runoff past 30 days. Will sample
		(4) Sampled 4 times	. (6) Cal	en runs off. Culated maximum concentration times
==	* *			ave	erage flow.
The an an well,	Crissia minis	in above completes the basic reporting requirements while inded within any of the Standard Industrial Classification	ch are re a Code (\$	quired of a SIC Code)	all applicants. Those applicants whose discharge results from categories listed below must complete Part A of this form as
Fts		CRITICAL IN	1DUST1	RIAL GP	TOUPS
SIC	093	FISH HATCHERIES, FARMS, AND PRESERVES	SIC		
£	10-14	DIVISION B - MINING	4.0	Zou	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
SIC	201	MEAT PRODUCTS	SIC	2 871	FERTILIZERS
SIC	202	DAIRY PRODUCTS	SIC	2879	AGRICULTURAL PESTICIDES, AND OTHER AGRI- CULTURAL CHEMICALS, NOT ELSEWHERE
ŚĩĈ	203	CANNED PRESERVED FRUITS, VEGETABLES (EXCEPT SEAFOODS, SIC 2031 AND 2036)	SIC	2891	CLASSIFIED , ADHESIVES AND GELATIN
SIC	2031, •	CANNED AND CURED FISH AND SEAFOODS	SIC	2891	EXPLOSIVES
Second Second	2036	FRESH OR FROZEN PACKAGED FISH AND SEAFOODS	SIC	2392	PETROLEUM REFINING AND RELATED INDUSTRIES
SIC	204	GRAIN MILL PRODUCTS	SIC	3011.	TIRES AND INNER TUBES: FABRICATED RUBBER
SIC:	_	SUGAR	مترو رته	3069	PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC	267	CONFECTIONARY AND RELATED PRODUCTS	SIC	3079	MISCELLANEOUS PLASTICS PRODUCTS
SIC	208	BEVERAGES	SIC	311	LEATHER TANNING AND FINISHING
sic	209	MISCELLANEOUS FOOD PREPARATIONS AND	- SIC "	32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
S!	`22	KINDRED PRODUCTS YEXTILE MILL PRODUCTS	SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS
SIC	23	APPAREL AND OTHER FINISHED PRODUCTS	SIC	332	IRON AND STEEL FOUNDRIES
	.	MADE FROM FABRICS AND SIMILAR MATERIALS	SIC	333, 334	PRIMARY SMELTING AND REFINING OF NON- FERROUS METALS: SECONDARY SMELTING AND
SIC	242	SAWMILLS AND PLANING MILLS	***		REFINING OF NONFERROUS METALS
SIC .	2432	VENEER AND PLYWOOD	SIC	336	NONFERROUS FOUNDRIES
SIC	2491	WOOD PRESERVING			COATING, ENGRAVING, AND ALLIED SERVICES
SIC	26	CAPER AND ALLIED PRODUCTS	SIC	35	MACHINERY, EXCEPT ELECTRICAL
SIC	281	INCUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)	SIC	3 6	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
5.00	2818	INDUSTRIAL ORGANIC CHEMICALS	SIC	37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
SIC	282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC BUBBER, SYNTHETIC	SIC	3731	SHIP BUILDING AND REPAIRING
		AND OTHER MAN-MADE FIBERS, EXCEPT GLASS	SIC	491	ELECTRIC COMPANIES AND SYSTEMS
SIC.		DRUGS	SIC	493	COMBINATION COMPANIES AND SYSTEMS
)tC		SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS			
4.4.	report from		•		

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El	lectronic	Filing: 1	Received	l, Cle fk	Toffice .	11/22/20)21 **A\$	S 2021-0)5**		
(flote: Submission of Part A on page 3 above.)	is required	of all applie	ants whose	processes a	re listed	(Office u	se only)		•		
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intake					Dis	charge					
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AND CODE	111/4 01	(5)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
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00310						v V			OTHR		
		2.4	3.7	.0002	4	2.7	3.2	AVER	(2)	SM	ABS
CHEMICAL OXYGEN DEMAND (C.O.D.)			•		(6)				OTHR		
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TOTAL SOLIDS					(6)				OTHR		
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TOTAL DISSOLVED SOLIDS					(6)		_		OTHR		
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TOTAL SUSPENDED . SOLIDS		•			(6) .		-	•	OTHR		
0 3		124	104	.0061	124	77	92	AVER	(4)	SM	ABS
TOTAL VOLATILE					(6)		_	-	OTHR		
00505		42	51	.0030	61	32	38	AVER	(4)	SM	ABS
AMMONIA (as N)					(6)	•			OTHR		
00610	 -			۸۵۵۵	, ,	7.0	4.6	AVER	(3)	FWQA	ABS
		.21	.21	.00001	.3	.12	.14	AVEK		Tuça	21.
KJELDAHL NITROGEN		•			(6)				OTHR		•
00625		.83	.90	.00004	1	.63	.75	AVER	.(4)	FWQA	ABS
NITRATE (as N)					(6)				OTHR		
0 0620								4 775-10			A 70.00
		1.8	2.55	.00014	3.0	1.29	1.54	AVER	(4)	FWQA	ABS
PHOSPHORUS TOTAL (as P)					(6)		••		OTHR		
00665	No.	ሰባብ	052	ECCO	06	-025	.030	AVER	(4)	FWQ/	ABS

				())		
Electro	<u> </u>	· 7		e 11/22/2021 ESCRIPTION		1-()5**	U
(Note: Submission of Part B is also required to submit Part A. O indicated in the instructions are to	s required of all a	applicants who are	. 10	Office use only)		d)	
•	•	•				Discharge Serial No.	o.
B-1. PHYSICAL AI	ND BIOLOGIC	AL PARAMET	ERS OF INT	AKE WATER A	AND DISCHA	ARGE (See Table) B-1)
Intake				Discharge			· ·
	Wrake wareh	VERACE IDAIL VI	RATING SEARI	PERAYING YEARS	TO A SOLE PREQUENCE	TRIJOUS MONITORIA	k
PARAMETER NAND CODE	(1)	(2) .	(3)	(4)	(5)	(6)	(3)
COLOR 09080		W					
SPECIFIC CONDUCTANCE 00095				-			
ACURBIDITY CO070	- H • • •		er e e e e e e e e e e e e e e e e e e	X	and described an		
FECAL STREPTOCOCCI BACTERIA 74054		w					
FECAL COLIFORM BACTERIA 74055	•				pan		
TOTAL COLIFORM BACTERIA 74056		w	_				
	•						
	• • 			•			
	,t		•		•		

31	E	lectronic Fil	ing: Rece	ived, Clerl	«'s Office	11/22/202	1 **AS 20	21-05**	÷	-				
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				aka an	(0	ffice use only)	e garage				η			
		•			L_			Discharg 00		l No.	•	-		
	B-2.	CHEMICAL	PARAMET	ERS OF IN	TAKE WAT	ER AND D	ISCHARGE				:			
-	Intake	Discharge												
	UNITREATED INTAKE	A TEO IN TAKE WATER	Maxing CONCENTRATE	Maximo Process Unit	CAILY AND PERIODS PERIODS	AVERAL CONCENTRA	St. POUNDS PER L	Merido Constitution of the property of the constitution of the con	PHINOUS ANAL	S MONI	ORING			
tip.	PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
	ACIDITY (as CaCO ₃) 00435		W											
4.7 4.7	TOTAL ORGANIC CARBON (T.O.C.)						~							
# *	TOTAL HARDNESS	-	W				an en							
	T NITRITE (as N) 00615		W		-			***						
	ORGANIC NITROGEN 00605		W		_			•			i k			
*	PHOSPHORUS-ORTHO (as P) 70507		W			•								
	SULFATE		(4)		-	(6)	(3)	.*						
	00945		66	1.35	.008	161	99.6	119						
(189) ・ くり	SULFIDE 00745		W	-•	V/			•						
	SULFITE 00740		W				(005)	<.006) (1) (1)					
	BROMIDE 71870					15-5			e.	4				

	cuome i m	ing. Recei	P	's Office 1 PART B	1/22/2021	AS 202	1-03				
					fice use only)				 ;		
			•		•						
) 		•					Discharge		No.		
			TERR OF I	-219 A 12 F 1417	TEN AND	DICCUADE!	00:		2)		
B-2. (cont.)	CHEMILA	L PAHAME	IERS UF I		VIER AND Discharge	DISCHARGE	: (266 19n	16 D.V	<u>.) </u>	 _	
Intake					Abelletye	77.	77				
CNTREATEO INTAKEN	MAXIMU TEO INTAKE MAT	M CONCENTRATION TEA	NA SING POUNDS PERSONS PORTION	DAILS AL TOUNDS PER L	AVERACONCENTRA	SE POUNDS PER D.	METHOO OF PRECISE AS	MUOU ANAL	SAONI	TORING	
* *************************************	1:	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	T
AND CODE	(1)		(3)	141			107			,,,,	Ė
CHLORIDE 06940		(4)			(6)	(4)	.]				
00340		23	20.8	.0012	24.9	19.2	22.9	_	<u> </u>	<u> </u>	+
CYANIDE 00720				· · · · · · · · · · · · · · · · · · ·	-	To Arraph Gapes					
FLUORIDE 00951		W						10			-
ALUMINUM-TOTAL 01105		W				ii	•				-
ANTIMONY-T(でAL 01097		,	-								
ARSENIC-TOTAL .01002						.02 val	.02				
BARIUM-TOTAL 01007								and the			
BERYLLIUM-TOTAL 01012											
BORON-TOTAL 01022											-
CADMIUM-TOTAL 01027						(5) .038	.045				

		ث ا					.					2			
	. Elec	etronic Fil	ing: Recei	ved, Clerl	ART B	11/22/202	1 **AS 20	21-05**							
ĺ	and the state of t			•,	(0	ffice use only					· · · · · · · · · · · · · · · · · · ·				
				•		ti	······································	·		·					
		W .				÷ .	Discharge Serial No. 001								
	B-2. (cont.)	CHEMICA	L PARAME	TERS OF I	D DISCHARGE (Coa Table 8-2)										
	Intaka	•				Discharge	***								
	CANTO TAKE	TREATE MAXIMUM MAXIMUM CONTROL SO SOLITO THE CONTROL													
TREATED INTAKE MAN CONCENTRAL STRUM POUNDS PER CONCENTRAL FOR COLORS STRUKE FOR COLO															
UNTREASED INTAKE MAYER AND CONCENTRACIONS PER DAY. AND CONCENTRACION SPER DAY. AND CONCENTRACION OF SPER DAY.															
	PARAMETER AND CODE	(1)	(2)	(3)	(4)	(a)	(8)	(7)	(8)	(9)	(10)	(11)			
	**************************************	(17	101	(0)	***	1	360				- 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
	CALCIUM-TOTAL 00916							· · · · · · · · · · · · · · · · · · ·							
		•	W			(6)	(5)	430							
	CHROMIUM-TOTAL 01034		(1)	e e		(6)	(1)					! !			
	PANA,	-	₹006	₹.006	₹000003	<u>∠.007</u>	∠.006	₹.007	A	0	W	A			
	COSALT-TOTAL			(8) grander som					•			 			
	01037					<u> </u>		· 							
	COPPER-TOTAL						0.19	•							
	01042		-			((5)	.23							
	·IRON-TOTAL						1525)			· _				
	01045						(5)	1823							
	1545 7574						.12	. 17 							
	LEAD-TOTAL 01051	•					(5)	.14							
								• = 7							
	-MAGNESIUM-TOTAL 00927			, A. W.	ua ter			· .							
			W									_			
	MANGANESE-TOTAL 01055						20.7	•							
							(5)	24.7				-			
	MERCURY-TOTAL			;			₹0005								
	Tibuu	١,١.	and the second second				(5)	∠.0006			ļ				
	MOLYEDENUM-TOTAL	A						•		, ()					
	01052				1						2 G2 1				
	ENG FORM			to the second	<u> </u>	₹				-	1				

Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05** PARTB (Office use only) Discharge Serial No. 001 CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2) B-2. (cont.) Discharge OAIL + AVG. CONCENTRATION CONTINUEUS MONITESING AVERAGE POUNDS PER DAY Intaka MAXIMUM POUNDS PER DAY MAXIMUM POLINDS PER DAY METHOD OF ANALYSIS MAXIMUM CONCENTRATION UNTREATED INTAKE WATER TREATED INTAKE WATER SAMPLE FREQUENCY EAMPLE TYPE (11) (8) (9) (10) (6) **(7)** PARAMETER (5) (3) (4) (2) (1) AND CODE 0.70 NICKEL-TOTAL 01067 (5) .84 POTASSIUM-TOTAL 00937 W **<.**01 SELENIUM-TOTAL **4.**01 01147 (5) SILVER-TOTAL 01077 SODIUM-TOTAL . 00929 W THALLIUM-TOTAL 01059 TIN-TOTAL 01102 TITANIUM-TOTAL 01152 (1)(6) ZINC-TOTAL W A 0 01092 .02 .02 .02 2000008 .01 .02 1.2 OIL AND GREASE 00550 (5) 1.4

					Indian					·	
	* *** ***				(Office use o	n!y)	i. P				
				Į			Diagram .				
P.2 ()							Discher 00	7		÷	
B-2. (cont.)	CHEMICA	AL PARAM	TERS OF	INTAKE		D DISCHAF	RGE (See Tab	le B-	2)		
					Discharge	·					
TATRE TRE	Matu.	No.	Max Max II	03/1	2 PLE		5 4 6		•		
PARAMETER TRES	TEO INTAKE WE	IUM CONCENTRA	MICH POUNDS PLONING	NUM POUNDS P.	AVE. CONCENT	RATION SA	SAMPLE PROCE	TRAUGE ANTICA			
NTAKE.	AKER	ACENT	JOCK OF D	LAGS .	ONCEA	OUNOS	16. 18.		(5 A.O.		•
	ALES TO	TEA PA	To. Chi	A CALL	ADA.	RAJE.	ADS JULIE	30,5	10.00	Post.	\
PARAMETER AND CODE	1		t		1	92	1	\angle		138	3,
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	1
PHENOLS 32730		(1)			(6)	(1)					
eti:		<. 004	<.004	(.0000002	<. 005	<. 004	<.005	Ā	0	W.	
SURFACTANTS 38260											-
ALGICIDES* 7,4051	·			·							
CHLORINATED HYDRO- CARBONS* (EXCEPT PESTICIDES) 74052											
		-									
PESTICIDES* 14053											
					•						•
								-	<u> </u>	\dashv	
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Electron	ic Filing: Re	eceived, Cle	PARTIE I	11/22/2021 **	"AS 2021-C	15***	
		.	(0	ffice use only)		(4 <u>11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	
· · · · · · · · · · · · · · · · · · ·							
				*		Dischard South	No.
							distribution of the second
B-3. RADIOAC	TIVE PARAN	ETERS OF I	NTAKE WAT	ER AND DISC	HARGE (See	Table B-37	
Intake				Discharge			
	\			\ ,	Co.	MUOUS MONITOR	
in Un. In	To AL	(Op.	c.M. O.	S. Har SAM	SV JAN	W.	
INTAREATED	TAEATED AL	ERACE IDAILY,	ERATING SEAR	SAM SAM SAM SEARI	CONT.	OUS MIC	
WATED	AFER	BILLY	FEAD	C PEAC	UENCY	WITO	
				1 3			No \
PARAMETER)		}	(7)
AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	100
ALPHA-TOTAL 01501				\times	i . 		- Department of the
				$\langle - \rangle$	- · · · · · · · · · · · · · · · · · · ·		
ALPHA COUNTING ERROR							
01502							<u> </u>
BETA-TOTAL					•		
03501							<u> </u>
BETA COUNTING ERROR		•					
03502				$\langle \cdot \rangle$			<u> </u>
GAMMA-TOTAL					•		
05501			·				
GAMMA COUNTING ERROR	4						
05502							
TRITIUM-TOTAL					:		
07000							
TRITIUM COUNTING ERROR							
07001						<u></u>	<u> </u>
							1
						•	<u> </u>
		e e					

- (2) Sampled 2 times
- (3) Sampled 3 times
- (4) Sampled 4 times
- analyzed by Environmental Analysis, June 22, 1972, copy attached.

 (6) Calculated, maximum concentration times average flow.

Electron	ic Filing: Received, Clerk's	Office 11/22/2021 Re	veal 6-30-72
	SECTION IL PLANT PROCES	S AND DISCHARGE DES	CRIPTION
	2. Implementation schedule	n (Office use only	72 OVE 2 0004165
Name of corporate boundaries with	hin which the point of discharge is loc County		City or 002
3. <u>Illi</u>	nois 4.	Massac	s. <u>N/A</u>
State the precise location of the po	oint of discharge. Grees: 1 2 Min; 3 0 Sec. Grees: 5 1 Min; 3 0 Sec.	9. Name of waterway at the po Ohio River	oint of discharge.
	ity certification or description of impa		*
D ₂ <u>J U N</u> <u>3</u> mo	Check if certification is attached to day yr	ficate Nan	ne Issuing Agency
<u>This dis</u>	ty (include terms of general 4-digit Sta scharge is on drawing This outfall has neve bability is small tha	s as sump pump di r been observed t	ischarge from coal reclai co discharge in past year
12. Standard industrial classificati	ion number. 13. Principal	product	14. Amount of principal product produced
SIC 4911		ectric Power	20,047 MWH (Gross
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		*1	
15. Principal raw material. N/A	16, Amount consumed N/		17. Number of batch discharges per day.
11/12			0
18. Average gallons per batch disc	charge. 19. Date discharge t	pegvin. 2	0. Date discharge will begin.
<u>100 (Est</u>	<u>A U</u>	G 01 53	_ mo N/A _ y
21. Describe waste abatement pra None	ectices.		
A A A	44		<u> </u>

Elec					Clerk's Offic					-05**		<i></i>	-
22.	PHYS	ICAL	DES	CEIPTIO	N OF INTAKE	WATER	AND	DIS	CHARGE				4
Intake		*,		Discharge		(Office	use	only)					
Illiano	\ -	· 							7	Discharge Serial 00:			
						6.			and the same				1
Wasta and the	Waxen	1	"L	ERACE DAILS.	OREANIMON SEAR	OR MAN	' 25.		CAROLENCY	MONITANDO PING			
**************************************	Cha	80		K DAL	No. Com	1 3	ST.	`	ENG.	Tongo,			
1 Ago		(Sp.		1	N. T. W.		`* `\	8)		/ &			
Parameter and (Code)	(1)		(2	25	(3)	(4)	_	\	(5)	(6)	(7)	· · ·	_
Flow (Gallons per day) 1895% 50050					Ü	0			0	OTHR (1)	A	BS	
желя 50050							-	-	7	OTHR (1)	A	ВS	
00400	·	<i>,</i>			7	7		+		, , , , , , , , , , , , , , , , , , ,			
Temperature (Winter) (°F) 74028	•	ng spaint ansaraban		- مهارسان اسطا دودانات داستون	60	60)		60	OTHR (1)	A	BS	
Temperature (Summer) (°F)					60	60	1		60	OTHR (1)	P	BS	
74027	, a partie - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		<u>l:</u>		SCHARGE CO						<u> </u>		
,23.	· · · · · · · · · · · · · · · · · · ·	·т	- T		30IIAIIGE 00			. 1				5	Ŀ
PARAMETER	•	PRESENT	ABSENT	F	ARAMETER		PRESENT	ABSENT	1	PARAMETER		PRESENT	ANSENT
Color	•	a		Aluminum	, 1 p.			χ	Nickel 01067)
00080		_	χ	01105 Antimony				χ	Selenium 01147				Ŀ
Turbidity 00070		ļ	Х	01097 Arsenic					Silver 01077				
Radioactivity 74050	···		X	01002 Beryllium				X	Potassium				1
Hardness 00900			χ	01012			_	X	00937 Sedium				T
Solids 00500		X		Barium 01007				X_	C0929			 	T
Ammonia 00610			χ	Boron 01022				X	01152 Tin			1	+
Organic Nitrogen 00605			χ	Cadmium 01027				X	01102 Zinc	·		-	+
Nitrate		1	x	Calcium 00916				Х	01092		,	+-	+
00620 Nitrite		1-	X	Cobals 01037	(7. ·		χ	Algicides 74051			+-	1
00615 Phosphorus		+	x	Chromiur	n		Γ	χ	Oil and Gr 00550	ease		1	1
00665 Sulfate		+	+	Copper			1	X.	Phenols 32730			1	_
00945 Sulfide		+-	X	01042 Iron			T	X	Surfactant 38260			1	
00745 Sulfite		+-	X. X	01045 Lead			\dagger	x	Chlorinate 74052	d Hydrocarbons			
00740 Bromide		+	-	Magnesiu	ım		+	$\frac{1}{x}$	Pesticides 74053				
71870	 	+	<u> X</u>	00927 Mangane		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	+	$\frac{1}{x}$	Fecal Stre	ptococci Bactera		<u> </u>	
Chtoride 00340		1	X	01055			+	$\frac{1}{x}$	Coliform	3acteria		=	0
Cyanida 00720			X	71900		<u> </u>	4	_ ^_	74056	<u> </u>		1	

		Electronic Filing. Received, Cler	المحد	11/	22/2021-** A.C. 2021-05**
24a.	Have all	known hazardous or potentially hazardous substances i	n your pl	ant been i	nventoried?
	. !	X Yes No			
24b.	If yes, h		bility of a	ny such k	nown hazardous or potentially hazardous substance entering
	1115 013				
·	[A) Yes No			
25. F	lemarks.				o occur and no samples have been will be taken and supplemental .
		information submitted.		in in	
7			J.	•	
an ac	nformatio tivity incl	on above completes the basic reporting requirements who uded within any of the Standard Industrial Classification	ich are rac n Code (S	uired of a	all applicants. Those applicants whose discharge results from categories listed below must complete Part A of this form as
well.					
		CRITICAL IN	IDUSTR	IAL GR	OUPS
SIC	098	FISH HATCHERIES, FARMS, AND PRESERVES	SIC	285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND
SIC	- 10-14	DIVISION B - MINING			ALLIED PRODUCTS
Šic	201	MEAT PRODUCTS	SIC	2871	FERTILIZERS
Sic	202	DAIRY PRODUCTS	SIC	2879	AGRICULTURAL PESTICIDES, AND OTHER AGRI- CULTURAL CHEMICALS, NOT ELSEWHERE
Sic	203	CANNED PRESERVED FRUITS, VEGETABLES			CLASSIFIED
Mar	5554	(EXCEPT SEAFOODS, SIC 2031 AND 2036)	SIC	2891	ADHESIVES AND GELATIN
ŞIC	2031. 2036	CANNED AND CURED FISH AND SEAFOODS; FRESH OR FROZEN PACKAGED FISH AND	SIC	2892	EXPLOSIVES
eic.	204	SEAFOODS	SIC	29	PETROLEUM REFINING AND RELATED INDUSTRIES
SIC		GRAIN MILL PRODUCTS	SIC	3011, 3069	TIRES AND INNER TUBES; FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC	206 207	SUGAR CONFECTIONARY AND SELATED PRODUCTS	SIC	3079	MISCELLANEOUS PLASTICS PRODUCTS
SIC :	208	CONFECTIONARY AND RELATED PRODUCTS BEVERAGES	SIC	311	LEATHER TANNING AND FINISHING
SIC	209	MISCELLANEOUS FOOD PREPARATIONS AND	SIC	32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
. تحدود		KINDRED PRODUCTS	SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS
	22	TEXTILE MILL PRODUCTS	SIC	332	IRON AND STEEL FOUNDRIES
SIC	23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	SIC	333, 334	PRIMARY SMELTING AND REFINING OF NON- FERROUS METALS: SECONDARY SMELTING AND REFINING OF NONFERROUS METALS
SIC	242	SAWMILLS AND PLANING MILLS	SIC	3 36	NONFERROUS FOUNDRIES
SIC	2432	VENEER AND PLYWOOD	SIC	347	COATING, ENGRAVING, AND ALLIED SERVICES
SIC	2491	WOOD PRESERVING	SIC	35	MACHINERY, EXCEPT ELECTRICAL
SIC	26	PAPER AND ALLIED PRODUCTS	SIC	36	ELECTRICAL MACHINERY, EQUIPMENT, AND
SIC	281	INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818,			SUPPLIES TRANSPORTATION EQUIPMENT (EXCEPT SHIP
SIC	2818	INDUSTRIAL ORGANIC CHEMICALS	SIC	37	BUILDING AND REPAIRING, SIC 3731)
SIC	282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC	SIC	3731	SHIP BUILDING AND REPAIRING
		AND OTHER MAN-MADE FIBERS, EXCEPT GLASS	SIC	491	ELECTRIC COMPANIES AND SYSTEMS
SIC	283	DRUGS	SIC	493	COMBINATION COMPANIES AND SYSTEMS
SIC	284	SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS			

Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05**

				PAR	T A	•			Marian Marian Services		
(Note: Submission of Part A	is required o	f all appli	cants whose	processes ar	e listed	(Office use	only)				
on page 3 above.)		-					<u>. 4</u>		Discharge Set	rial No.	
	<u> </u>	UE O CEN	ATION RE	UHIDED	ne speci	FIED INT	USTRIES	1	002		- 8
		NEURIN	ATTUNKE	HOINED		harge					
Intake			-				<u> </u>	<u> </u>		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
PARAMETER AND CODE ALKALINITY (as Ca CO ₃)	TO INTAKE WA	MA +INSUN	Maximos PER CESS UNIT ON (3)	CONCAR	AVERS	SAME	SAMPLEFRIE	Or ME	MONITOR MONITOR		
CONCENT ARE	CENTAKEN	CENTRA	CESS UNEA	CONCENTR UNS POUNDS DAY	A FION TER	SAMPL SEPOUNDS	ETSPE TR	EQUENCY	THOO SISTER	ings	
PARAMETER AND CODE	WATER TON	78.5	ON (3)	(4)	(5)	(6)	(7)	(8)	(9)	10)	(11)
ALKALINITY (as Ca CO ₃)						(1)		-	OTHR		ABS
B.O.D. 5-DAY			.,			(-)					
00310	C-manyormore					(1)			OTHR (1)	~ ~ ~	ABS
CHEMICAL DXYGEN DEMAND (C.O.D.)								: :	OTHR		ABS
00340 TOTAL SOLIDS						(1)			(1)		Gan
00500						(1)			OTHR (1)		ABS
TOTAL DISSOLVED SOLIDS						(7)			CTHR (1)		ABS
70300 TOTAL SUSPENDED						(1)					
SOLIDS 00530					•	(1)			OTHR (1)	-	ABS
TOTAL VOLATILE SOLIDS						(1)			OTHR (1)		ABS
00505 AMMONIA (as N)				-		1 (1)			-/-		
00610				-		(1)	-		OTHR (1)		ABS
KJELDAHL NITROGEN	- X					(1)	•		OTHR		ABS
NITRATE (as N)						1 (1)			OTHR		
00620						(1)			(1)		ABS
PHOSPHORUS TOTAL (as P)		9				A3.	n.		OTHR		ABS

		ARTB DIS			*		· · · · · · · · · · · · · · · · · · ·
(Note: Submission of Part B also required to submit Part A, indicated in the instructions are	Only those parem	eters specifically		ffice use only)	•	•	
•	•			*	1	Discharge Serial I	Yo.
B-1. PHYSICAL A	AND BIOLOGIC	'AL PARAME'	TERS OF INT	YE WATED	אום חופרטא	002	- D 41
Intake	1115 01020 010	/ACTAINAILE	LIIOOI IIII	Discharge	KILD DISCIPA	UPE (See 19h	ie B-1)
				Discharge			
				, s	CON	NUOS MONTOR	
WINTALAR	WIARE	VERA O	EAMIN.	EA TALL	PACE.	NUOL	~ .
WYNTREATED NATER	WYTHEATED A	CK ON	A PINGUA	TINGUA	FREQUE	MON	
'EA	EA	VERAGE IDAILY)	MANNON TRAPING SEARS	ENA TING YEAR)	MOLE FREQUENCY	TOA	n
							.0
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7).
COLOR				abla			
00000							
SPECIFIC						1	
CONDUCTANCE 10095							
A second						<u> </u>	<u> </u>
TURBIDITY 00070							
FECAL STREPTOCOCCI BACTERIA							
74054					•		
FECAL COLIFORM							
BACTERIA 74055					٠,		
TOTAL COLIFORM		, , , , , , , , , , , , , , , , , , , ,		$\langle \ \ \rangle$	·		
BACTERIA 74056				\times	Ť		
	-						
							N 0=
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		()					
		***************************************			•		
·			<u> </u>			<u> </u>	<u> </u>
	•				*		

				's Office PART B		·	*			·		
					(Office use or	nly)		-				
					•						•	
					•			Discha	rge Ser	ial No.	,	
B-2.	CHEMICA	L PARAME	TERS OF I	TAKE W	ATER AND	DISCHAR	GE /9	00 00 T ab)2	<u> </u>		<u> </u>
Intake					Discharge		ar 19	ee 120	18 R-Z	<u>'</u>	•	<u> </u>
Change To	143.	149	Mg.	O.A.	74		7	7		<u>. :</u>		
TATES	TEO TA	Lung Pi	MUN TAN	Chy.	ALC C	Pack S	S. 7.75	AEJI-		// C		
PARAMETER	Maxin Steo Mrake W.	MAX, CONCENTRA	MUMA OUNDS ARIAN A PROCESS UNIT	CAIL CARDS P.	AVE. CONCENT.	east Pounds Parlow	Sano MOLET	METHOD SOL	WILLION WAY	SA		
	ALEO TO	TEA TAR	TO SUNIT	Pos.	ACA. N.	PAR	AO.	J. 1.	E CO	15/0	OA	
PARAMETER AND CIDDE	(1)		1	i	1	ON /	71		<u>/</u>	/	138	6/
	 ''' -	(2)	(3)	(4)	(5)	(6)	-	(7)	(8)	(9)	(10)	(11)
ACIDITY (as CaCO ₃) CO435						-						
TOTAL ORGANIC CARBON (T.O.C.) 500680	W4							-				
TOTAL HARDNESS					1						<u> </u>	
NITRITE (as N) 00615	•							*				
ORGANIC NITROGEN					*			N.				
PHOSPHORUS-ORTHO (as P) 70507												-
SULFATE 00945												
SULFIDE 00745						•				-	1	
SULFITE 00740				*		•						
BROMIDE /1870	***			er Torque de la Torque de la companya								

	ctronic Filin	g. Receive	u, Cicik	PART B	1/22/2021	**AS 202	1 -05** ·		
	(1 		• .	(0	Office use only	/)	**************************************	**************************************	-
				L				ge Serial f	Vo.
B-2. (cont.)	CHEMICA	L PARAME	TERS OF	INTAKE W	ATER AND	DISCHAR	OD2 GE (See Tal		· · · · · · · · · · · · · · · · · · ·
Intake	-				Discharge		· · · · · · · · · · · · · · · · · · ·	···	
CANTREATED INTAKE	MAXIMUR SATED INTAKE WATE	MAXIMO SER	Maximo PROCESS UNIT	OAILY SOAY	AVERA CONCENTRA	SCF POUNDS PER	Sannot FAROUTE	TRIVOUS N. ENCY S.	ONITORIA
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	1 1	(9) (10)
CHLORIDE 00:040						0	(₂ :		
CYANIDE 00720					-	-			
FLUORIDE 00951									
ALUMINUM-TOTAL 01105				er er e					•
ANTIMONY-TOTAL 01097			*						-
ARSENIC-TOTAL 01007									
BARIUM-TOTAL 11007					•				
BERYLLIUM-TOTAL 01012		y			•				
BORON-TOTAL 01022						θ	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
CADMIUM-TOTAL 01027	0								

•			· F	PARTB							
		 		(0	ffice use ordy)		~ ~~~				
			•								
	•			·	·		Discharg	e Serial	No.	,	
-	0)1044104				******	DIOGUADOS	002	1 D 2			
B-2. (cont.)	CHEMICA	L PAHAME	IERS UF		Discharge	DISCHARGE	(286 190	16 p.7			
Intake								j 1i			
UNTREATED IN AKE MA	MAXIMU EDINIARE WAS	M CONCENTRAT	MAXIMO PACES UNIT	Dall V SARA	A VERAL CONCENTRA	St POUNCS PER D.	METRICO CONTRACTOR	RUOUS ANAL	54011	OAIN O	
PARAMETER AND CODE	m	(2)	(3)	(4)	(6)	(6)	(7) 🖂	(8)	(9)	(10)	(11
CALCIUM-TOTAL 00916	•		-								
CHROMIUM-TOTAL 01034	•						****				
COBALT-TOTAL		***							-		
COPPER-TOTAL 01042											
IRON-TOTAL 01045							•				
LEAD-TOTAL 01051	•										
MAGNESIUM-TOTAL 00927										(((((((((((((((((((
MANGANESE-TOTAL 01055				Francis =			•				
MERCURY-TOTAL 71900))	201							
			(· · · · · · · · · · · · · · · · · · ·)				

	ctronic Filir			ART B	•					
	 		. <u> </u>	100	Office use only)				,
		•	• *				·			
				, , ,	•		Discharg	e Serial A	lo.	Å
B-2. (cont.)	CHEMICA	L PARAME	TERS OF I	NTAKE V	ATER AND	DISCHARG				
Intake			, , , , , , , , , , , , , , , , , , , 		Discharge		·			
UNTREATED INTAKE	ATEO INTAKE MAT	Maxin Concentral	MAXIMU PACESS UNIT	DAILY. WACUNOS PER	AVERA AVG. CONCENTRA OAV	GE POUNDS PER D	METHOD CON METHOD CE TYPE OUR	PINIOUS AND ACX	ONITOSIN.	
. Chickwise								1 1		. 1
AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	9) (10)	(11
NICKEL-TOTAL 01067					<i>y</i>					70.00
POTASSIUM-TOTAL 00937				:	-					6
SELENIUM-TOTAL . 01147										
SILVER-TOTAL 01077							•			
SODIUM-TOTAL 00929										
THALLIUM-TOTAL 01059				•						
TIN-TOTAL 01102										
TITANIUM-TOTAL 01152			-							
ZINC-TOTAL 01092		S. S.				C				(
OIL AND GREASE 00550			4							

			•				Disch	arge Ser	iai No		·
B-2. (cont.)	CHEMIC	AL PARAM	ETERS OF	INTAKE V	VATER ANI	D DICCUA	0	02	.; 		
ntake		•			Discheroe		UGE (265 15	oble B-	27		-
CANTE TAKE	Mar	149.	149.	ON	7/1			· · · · · · · · · · · · · · · · · · ·			
CNITRE ATED INTAKE	A TEO INTAKE N	MUM CONCESSION	MANUA POUNDS PLON	POAL POUNTS PE	ANG. CONCENT.	RACK POUNDS P.	SAME PROPERTY OF THE PROPERTY	Or Aviate	SMON	TORIN	
ARAMETER ND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	ŧ	1	
ENOLS 1730					3)			(6)	(9)	(10)	+
RFACTANTS 260											1
GICIDES* 51			·	•	•						_
LORINATED HYDRO- RBONS* (EXCEPT TICIDES) 52				-						-	
TICIDES*						•					·
							-				-

				(Office use only)			
•	•	•					
	# · .			•		Discharge Seria	No.
B-3. RADIO	CTIVE PARA	METERS OF	INTAKE WA	TER AND DIS	CHARGE (Se		
Intako				Discharge			
					\ a		•
went	WATER	VED TO	PE MI	OPE MA SAM	N. O.	Me	
AKENTEN	AKE NEO	ACEIDA	TATING UN	RATINGUA .	PEOL	OUSMO	ing diagram (in the second diagram of the s
WINTAGATED	Wrake waren	VERACE IDAILY,	PERATING SEAR	OPERATING YEAR!	PIE REQUENCY	TANOUS MONITOR	
PARAMETER							"C
AND CODE	. (1)	(2)	(3)	(4)	(5)	(6)	(7)
ALPHA-TOTAL 01501							
ALPHA COUNTING ERROR 01502					-		
BETA-TOTAL 03501							
BETA COUNTING EPROR 03502							
AMMA-TOTAL 05501							
GAMMA COUNTING ERROR 05502							
TRITIUM-TOTAL							
FRITIUM COUNTING FRROR 17001							
	•				· · · · · · · · · · · · · · · · · · ·		
*						<u> </u>	
					•		N
. sample r	scharge ha has been o	btainable	. When	ed to occur	in past	year and	no and

ENG FORM 4345-1

	Things the second		Toward 6=30-72
	Electronic Filing: Re SECTION II.	PLANT PROCESS AND DISCHARGE DE	SCHIPTION -05**
1. Discharge descri	Address of the second s	2. Implementation [Office use on	
a. Present	b. Proposed new or changed	schedule \(\begin{array}{ c c c c c c c c c c c c c c c c c c c	12 OVE 2 000465
Name of corporate	boundaries within which the poi	nt of discharge is located. County -	6. Discharge Serial No.
3.	Illinois	4. Massac	5. N/A
	cation of the point of discharge. $\frac{7}{2}$ Degrees; $\frac{1}{2}$ Min	9. Name of waterway at the p	ont of discharge.
	<u>8</u> <u>8</u> Degrees; <u>5</u> <u>1</u> Min		
10. Has application	H	r description of impact been made? If so, give dat	
	Date	Check if certificate Na	me Issuing Agen
	$\underbrace{\mathbf{JU} \mathbf{N}}_{\mathbf{mo}} \underbrace{3 0}_{\mathbf{day}} \underbrace{7 2}_{\mathbf{yr}}$		
11. Narrative descr		of general 4-digit Standard Industrial Classification	, and specific manufacturing phocess).
•	Surface drains fi	rom west side of coal stora	
•	from crusher house	Se.	
y y			and the second s
e ezer yez			
į			and the second s
g menangan	<u> </u>		
,	<u> </u>		
·			
12, Standard indus	strial classification number.	13. Principal product.	14. Amount of principal product produced per day.
p a.	SIC 4911	Electric Power	20047 MWH (gross)
15. Principal raw n	naterial.	16. Amount of principal raw material consumed per day.	17. Number of batch discharges per day.
	N/A	N/A	
18. Average gallon	s per batch discharge.	19. Date discharge began.	O. Date discharge will begin.
	0	7 H C O 7 5 3	N/A
		$\frac{A \ U \ G}{mo} \frac{O \ 1}{day} \frac{5 \ 3}{yr}$	mo day yr
21. Describe waste	abatement practices.	بالمورد والمراكب والمراكب والمراكب والمراكب والمراكب والمراكب والمراكب والمراكب والمراكب والمركب والمركب والمر المراكب والمركب والمرك	
•	Crusher house fla	oor drains settle in small	basin near edge of coal
		ore water drains into storm	
	PSEDIM		and the second s
		· · · · · · · · · · · · · · · · · · ·	
17			
. W	- li	A Company of the Comp	
M in the second			
			<u> </u>

T:	22. PH'	YSICA	L D	ESCRIPTIO	N OF INTAKE	WATER	AN	ום ם	SCHARGE			Jî.	1
-	Intake	·····		Discharge		(Offic	C8 N.2	enly)			. // .	
K		\					\			Discharge Serial N	io.		
-	MAN THE WAYER	57.50		ALERACE DAILY	CORPARAMINATION OF RAFE	(ORKAN)	tine,		TRECUENCY	ACALIATOR NO.			
	Parameter	ANES			X		1	NA,	•	ORING!	ي (7)		
Ľ	and (Code) (1)		\	(2)	(3)	(4)		}	(5)		,,	,	\rightarrow
ा ।	Flow (Gallons per day) 2005 50050			.096	.095	.096	5		.200 (6)	OTHR (2)	A	BS	
	pH 00400			7.8	7.8	7.5			8.0	OTHR (5)	A	BS_	
	Temperature (Winter) (°F) 74028			36	40 (6)	38 (6	5)	4:	2 (6)	OTHR (2)	A	BS	
1	Temperature (Summer) (°F) 74027			87	78 (6)	70 (6	5)	- 8:	9 (6)	OTHR (2)	A	BS	-
	23.		. 	DI	SCHARGE CO	NTENTS						 	
1		 					٢	-				둗	<u>_</u>
	PARAMETER	PRESENT	ABSENT	P.	ARAMETER	·	PRESENT	ABSENT	P	ARAMETER		PRESENT	ABSENT
-	Color 09080 \h	X		Aluminum 01105		vV	χ		Nickel 01067				χ
	Turbidity .	X		Antimony 01097			•	х	Selenium - 01147	1			χ_
t	Radioactivity	1	χ	Arsenic 01002			- paper -	χ	Silver 01077		•	-	χ
Ì	74050 Hardness	/ x	^_	Beryllium 01012				χ	Potassium 00937		لمريا	χ	
ł	00900 k Solids 00500			Barium 01007	<u> </u>		-	χ	Sodium 00929	*	ربا	X	
	Ammonia (<u> </u>	Boron 01022		· · · · · · · · · · · · · · · · · · ·		χ	Titanium 01152				χ
ł	Organic Nitrogen			Cadmium 01027				χ	Tin 01102				χ
ŀ	00505 Nitrate 00620	71		Calcium 00916		W	χ		Zinc 01092	- 14	√.√	χ	
ł	Nitrite 1.	 ^	 	Cobalt 01037	 			x	Algicides 74051				χ
- 1	Phosphorus			Chromium 01034	<u> </u>	J		χ	Oil and Great 00550	IS O			<u>χ</u>
	00665 Sulfate 00945	V x	I^-	Copper 01042				χ.	Phenois 32730	1.1		<u> </u>	x
	\$ulfide 00745	 ^	χ	170n 01045		W	χ		Surfactants 38260		•	<u> </u>	χ
	Sulfite 00740	1	χ	Lead 01051	j. i v. √			χ	74052	Hydrocarbons	0		χ
	8romide 71870	1,	χ	Magnesium 00927	<u></u>	W	χ		Pesticides 74053				X
	Chlada	V ₀ x	1	Manganese 01055				χ	74054	lococci Bacteria	b .	χ	_
	Cyanide 00720		χ	Mercury 71900				χ [©]	Coliform Ba	cteria ((1/1	x_	<u> </u>
	Fluoride	I v		Molybdeni	nim	Q.	Γ	X	<u></u>	ing special section in the section i			

		E	lectro	nic Fi	ling: Re	eceived Cle	rk's Off	ice 11	/22/2021 **AS 2021-05**
24s.	Начев	ll known haza	rdous	or paten	tially hazai	dous substance	s in your pl	ant been	inventoried?
		130							
		X Yes			No				
245	If war	baua atana ba					-7-706		
245.	this di	nave steps her	en take	n to insi	ire that the	ere exists no pos	isibility of a	iny such	known hazardous or potentially hazardous substance entering
		(v)				•			
		X Yes		لــا	No				
25. F	Remarks.		********			*	***		
ade ,-p.2460-	(1)	Sampled	1	Time	grab	sample.		(6)	Estimated.
	(2)	Sampled				sample.		(7)	Calculated maximum concentration
	(3)	Sampled				sample.		(.,	times average flow.
		Sampled				sample.			The state of the s
	(5)	Sampled				sample.			
The	aformat	on above com	oletes	the basic	reporting	requirements w	hich are re	quired of	all applicants. Those applicants whose discharge results from
an ac	thity in	luded within	any of	the Star	dard Indu:	strial Classificati	ion Code (S	IC Code)	categories listed below must complete Part A of this form as
well.									
		· · · · · · · · · · · · · · · · · · ·				CRITICAL	MANCTO	IAI CE	noune
o est						GNITICAL	134110211	HAL GI	iuurs
SIC	820	FISH HAT	CHER	IES, FA	RMS, AND	PRESERVES	SIC	285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND
SIC	10-14	DIVISION	B M	IINING					ALLIED PRODUCTS
1300 0						34 1	SIC	2871	FERTILIZERS
SIC	201	MEAT PR	ODUC.	rs			SIC	2879	AGRICULTURAL PESTICIDES, AND OTHER AGRI-
SIC	202	DAIRY PE	RODUC	TS			0.0		CULTURAL CHEMICALS, NOT ELSEWHERE
SIC	203	CANNED	PRESE	RVED	RUITS. V	EGETABLES			CLASSIFIED
u,		(EXCEPT					SIC	2891	ADHESIVES AND GELATIN
Sic	2031,	CANNED	AND C	URED I	ISH AND	SEAFOODS;	SIC	2892	EXPLOSIVES
e e e e e e e e e e e e e e e e e e e	2036	FRESH OF		ZEN PA	CKAGED	FISH AND	CIO	20	PETROLEUM REFINING AND RELATED INDUSTRIES
	200						SIC	29	PETROLEOM REPINING AND RELATED INDUSTRIES
SIC	204	GRAIN MI	ILL PR	ODUCT	S		SIC	3011, 3069	TIRES AND INNER TUBES; FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC	206	SUGAR							
Sic	207	CONFECT	IONAL	RY AND	RELATE	D PRODUCTS	SIC	3079	MISCELLANEOUS PLASTICS PRODUCTS
SIC	203	BEVERAG	FS				SIC	311	LEATHER TANNING AND FINISHING
SIC				10 500i	i ĝ		SIC	32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
SIC	209	KINDRED			PREPAR	ATIONS AND	SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING
SIC	22	TEXTILE	A811 2 C	BODIN	are.		, 5.1.5		AND FINISHING MILLS
							SIC	332	IRON AND STEEL FOUNDRIES
SIC	23	MADE FR	AND (OM FA	DTHER	FINISHEL	PRODUCTS	SIC	333.	PRIMARY SMELTING AND REFINING OF NON-
į		MATERIA		.011103	HIAD SHALL	LAN	SIC	334	FERROUS METALS: SECONDARY SMELTING AND
SIC	242	SAMMILL	SAND	PI ANII	ig Milli S		**		REFINING OF NONFERRAUS METALS
		**					SIC	336	NONFERROUS FOUNDMINE
SIC	2432	VENEER A	וא נומג	LYWOO			SIC	347	COATING, ENGRAVING, 4900 ALLIED SERVICES
SIC	2491	WOOD PRI	ESERV	ING				00	
SIC	26	PAPER AN	D ALL	IED PR	ODUCTS		SIC	35	MACHINERY, EXCEPT ELECTRICAL
SIC	281	INDUSTRI	ΔLIN	ORGAN	יר אאם ס	RGANIC	SIC	36	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
		CHEMICA				ii GARRIO		•	
SIC	2818	INDUSTRI	AL OF	GANIC	CHEMICA	ı S	SIC	37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
	* * *				f				
SIC	282	PLASTICS RESINS, S	NATE	HIALS I	AND SYN JBBER SY	THETIC NTHETIC	SIC	3731	SHIP BUILDING AND REPAIRING
		AND OTH	AM.RE	N-MAD	E FIBERS	, EXCEPT	SIC	491	ELECTRIC COMPANIES AND SYSTEMS
		GLASS	<u> </u>		12.2 2.3		SIC	493	COMBINATION COMPANIES AND SYSTEMS
SIC	283	DRUGS				***	J.U		
SIC	284	SOAP, DET ARATIONS OTHER TO	S, PER	FUMES,	COSMETI	NING PREP-	· ·		

AA.,

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Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05**

Elec	etronic I	Filing: R	Received		_	11/22/20	21 **A	S 2021-0	5**		
				P/	ART A				·		
(Note: Submission of Part A on page 3 above.)	l is require	d of all app	licents who	so processe:	are listed	(Office	use only)	•			
•							•	**************************************	Discharg	Serial No.	
		INFORM	ATION P	EQUIRE	OF SPE	CIFIED I	VDUSTRI	ES	1 00.	<u>)</u>	V
Intake		-			D	ischarge	· · · · · · · · · · · · · · · · · · ·				
PARAMETER AND CODE ALKALINITY (as Ca CO3)	MA + IMUM CO CENTRALIO WATER WATER	By.	MA LIPOUNOS PER CONTROL (3)		$\overline{}$						
AL REAL ALCAN	MUM	PERUN	N TON	CONON	AVE	S.	SAMO	0.4	3.	<u> </u>	
Conforton	Olar	SACK SA	OCANA PE	ALINO CEN	A L SE	ACK WA	36. 16	FAR AN	40, 00	A SANCE	
ENTRAKE	MAXIMUM CO INTAKE WATER WATER WATER	YA AA	Care S	CONCENTRA ON SOUNOS	AVERALION TO A TION	AGE POUNOS	OLE TYPE	FREQUENCY	THOO NE	TINUOUS ROPING	
PARAMETER AND CODE	47E470	(S)	ON (3)	OA 1 (7) (5)	(6)	(7)	(8)	(9)		1111
PARAMETER AND CODE ALKALINITY (as Ca CO3)	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \)	 	15/) · · · ·	1	101	131	(10)	(11)
00410					(7)				OTHR	17.	
	ļ	67	86	,0035	71.	82	65	AVER	(3)	S.M.	ABS
-B.O.D. 5-DAY				1	(3)						1
.00310		2.4	4.8	00019	(7) 3.8	3.5	2.8	AVER	OTHR (2)	S.M.	ABS
CHEMICAL OXYGEN								111111	(2)	0,11,	ADO
DEMAND (C.O.D.)			1		(7)		-		OTHR		
		12.0	1625	.0646	1295	1099	876	AVER	(3)	S.M.	ABS
TOTAL SOLIDS				ľ.							
(Tr		324	7461	.2966	(7) 5945	3549	2828	AVER	OTHR (5)	S.M.	ABS
TOTAL DISSOLVED				2200	3373	7777	2020	WATT	(3)	J.M.	ADO
SOLIDS					(7)				OTHR.		5
70300	<u> </u>	200	3509	.1395	2796	247	197	AVER	(5)	S.M.	ABS
TOTAL SUSPENDED SOLIDS							. •		. -	,	
00530	:	124	3952	.1621	(7) 3149	3302	neza '	רורונאו	OTHR	CM	700
TOTAL VOLATILE		75.4	∠درد	• TOST	2143	3302	_ ⊼02T	AVER	(5)	S.M.	ABS
SOLIDS					(7)	J.			OTHR		
00505		42	1941	.0772	1547	4425	3526	AVER	(5)	S.M.	ABS
AMMONIA (as N)		•									
00610		.21	0.49	000019	(7) .39	0.35	20	AVER	OTHR	E4101	ABS
KJELDAHL NITROGEN		• «	J • T J		وده	0,33	. 20	TAVAT.	(4)	FWQA	ADO
00625					(7)	e. Talah sa		1750	OTHR		
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் PHOSPHORUS TOTAL		7.0	2.33	.00010	2.03	2,25	1.79	AVEK	(4)	FWQA	ABS
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(Note: Submission of Par elso required to submit Part A indicated in the instructions a	A. Only those parame	ters specifically		ffice use only)			
						ischarge Sorial No 003	
B-1. PHYSICAL	L AND BIOLOGIC	AL PARAMET	ERS OF INTA	KE WATER A	ND DISCHAR	GE (See Table	ı B-1)
Intake				Discharge			
NINTRESTES TEN	INTAREATED NATER	TERAGE IDAILY	RATING YEAR)	SAMA TINON SAM	CONTINCY CONTINCY	NUOUS MONITORIA	
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TOTAL COLIFORM BACTERIA 74056		W					
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ري () د او د					•		Dischar		al No.		
B-2.	CUERRICAL	DADAMET	EDC OF I	TARE MA	TED AND	DICCUA DO		0.3	· · · · · ·	·	
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Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05** PART B (Office use only) Discharge Serial No. 003 CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2) B-2. (cont.) Discharge Intake DAILY ANG. CONCENTRATION Masimum Polinds PER PROCESS UNIT DAY AVERAGE POUNDS PER DAY CONTINUOUS MONITORING MAXIMIM POUNDS PER DAY UNTREATED INTAKE WATER MAXIMUM CONCENTRATION METHOD OF AWAI SE'S TAEA TEO INTAKE WATER Sample enecutarcy SAMPLE TYPE PARAMETER (11) (7) (8) (9) (10) (6) (4) (5) (3) (1) (2) AND CODE CHLORIDE A 0 W A 23.2 18.5 22.9 .00114 00940 23.0 28.8 CYUNIDE C0720 FLUORIDE 00951 W ALUMINUM-TOTAL 01105 W ANTIMONY-TOTAL 01097 ARSENIC-TOTAL 01002 BARIUM-TOTAL 01007 BERYLLIUM-TOTAL 01012 BORON-TOTAL 01022 CADMIUM FOTAL 01027

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B-2. (cont.)	CHEMIC	AL PARAM	ETERS OF	INTAKE	WATER ANI	D DISCHAR	GE (See Ta	ble B	-2)		
Intake	•				Discharge						
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B-2. (cont.)	CHEMIC	AL PARAM	ETERS OF	INTAKE V	NATER AN	D DISCHAR			2).			
Intake	CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2) Discharge											
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	4 :						00	irge Seri 13			-
B-2. (cont.)	CHEMICA	L PARAME	TERS OF	INTAKE W	ATER AND	DISCHAR	GE (See Ta	ble B-	2}		
Intaks					Discharge						
CANTREATED INTAKEN	MAXIMO INTAKE WA	UN CONCENTRAL	MUNAOURIS STATE	UM POUNIOS PER	AVER OAL	A CE POUNDS PER	SANGTHO MILETRO MILETRO MOSS	OK ANAL	is now,	TORING	G
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	- 1
PHENOLS 32730		<.004	<. 004	NIL	<. 003	<.004	<. 003	A	0	W	
SURFACTANTS 38260	•										
ALGICIDES* 74051											
CHLORINATED HYDRO- CARBONS* (EXCEPT PESTICIDES) 14052						•				# T	
PESTICIDES! 74053	ķ.										
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			•	, \$1			ing Dis tribution to the sec age.
			- b	•		Discharge Serial	No.
D.O. DADIO	ACTIVE PARAM	TERO DE IN	ITAVE WAT	ED AND DISC	HARGE (Se	<u> </u>	
	AGIIVE PANAISI	tiens or a	FIARL HAT	Discharge	manue (o	.0 102/0 0 07	
Intake							
	4.		ANNING YEARS	SAMI SAMI SEARI	CON PLE FREQUENCY	TINUOUS MONITOR	
WATER TER	MTAKENATER	RAGE IDAILY	RANNIN	ERATURE THE	CE FR.	NUOUS	
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EA	CA .	1,2	ARI	(AR)	.63	OR	No
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		and the second s			an and an an	344. \$	
6-4. REMARKS	1.				<u> </u>		
Code 32730) 01092) 01034)	Sampled i	time.	. с	ode 00945) 00940)	Sampl	ed 4 times	•

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	SECTION IL PI	ANT PROCESS AN	U UISCH VBCE	DECEDIATION	
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7. Discharge described below is a Present	roposed new	2 Implementation	(Office us	e only)	
3 1-7 f	changed	chedule	1. 1/	072 OVE 2 a	المستر يمريده
Name of corporate boundaries v		<u> </u>	10		
State	within which the point o	The state of the s		6. Discharge S	erral No.
7		County	•	City of 004	•
3. Illin	nois	4. Massac			
-		a. Itassat,		5. N/A	
State the precise location of the			· · ·		
· 7. Latitude 3 7 D		O 9. Nam	is of waterway at t	he point of discharge.	
					* * *
E. Longitude 8 8 D	legrees; 5 1 Min; 3	O Sec. Ohi	o River		•
In Harastinaia 4			<u> </u>		
10. Has application for water qu			made? If so, give	date:	0
	Date	Check if certificate		Name Essuing Agency	
: JUN	3 0 7 2	is attached to form	لتا		
mo	day yr				· · · · · · · · · · · · · · · · · · ·
11. Narrative description of activ		goral & dials Ch. A. L.			
Wasta	from recenerati	on of hydrocon	noustrial Classificat	tion, and specific manufacturing protects softeners plus	ocass).
floor	drains from uni	t 7 /	ZEULILE WA	ter softeners plus	
11001 8	drains from uni	L 1-4 Water tr	earment bui	Lding.	
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The state of the s					
				•	d ·
12, Standard industrial classificati	on number.	13. Principal product.		14. Amount of principal prod	duct produced
SIC 491	1	Electri	c Power	per day. 20,047 MWI	r
14		I DACCELL	C IOWEI		1
And the state of t		-	·	(Gross)	
15. Principal raw material.		16 A=====			
		 Amount of princip Opposite of princip 	al raw material	17. Number of batch discharge	ges per day.
<u> </u>		N/A			
				3	
		-			
		-			
B. Average gallons per batch disci	harge. 19. Da	te discharge began.		20. Date discharge will begin.	
25,000		AUG O	1 5 3	NT /A	- ¥
				N/A	
1. Describe waste al atement prac		mo d	ay yr	mo day	» ye
The state of the s	itices.				
_None at	present. Are	now preparing	to re-route	regeneration waste	
	isposal pond d	ischarge.		- Borrotton Made	
<u> </u>			 		
					
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22. E	Electroi	PHY	SIG	g: Reserved	IJONeok'snora	ice W	W22#	202	b #186812924	-05**			274
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	/	/					1			Discharge Seri	al No	-,, ,	
49	4	. \	/	PL.	6,	· 6	· \			004			
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Parameter and (Code)	(1)	3/		(2)	(3)		(4)		(5)		Ç, W		1
Flow (Gallons per day)			1		107	} 			131	(6)	 	(7)	
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(\\er) (°F) 74028	-			58	58	58.			58				
Temperature (Summer) (°F).						30.			36	OTHR (1)	A1	3 <u>S</u>	
74 027		gann.		58	53	58			58	OTHR (1)	ΑI	3 S	English Co.
		т-	-	DIS	CHARGE COM	VTEN	TS						
PARAMETER	and sections of the section of the s	PRESENT	ABSENT	PA	RAMETER	•	PRESENT	ABSENT	P	RAMETER	•	RESENT	ABSENT
Color 00080		\vdash	X	Aluminum 01105					Nickel			12	٧
Turbidity 00070	. (X	Antimony 01097		W	X	-	01067 Selenium	· · · · · · · · · · · · · · · · · · ·		_	X
Radioactivity 74050			X	Arsenic 01002			+	X	Silver			-	X
H. ≤s no⇒/ Solids	W	х		Beryllium 01012		•	 	х	Potassium 20937	•	W	x	
D0500 Ammonia	V	Х	- 1/2	Barium 01007				Х	Sodium 00929		₩	_	
00610 Organic Nitrogen			Х	Boron 01022 Cadmium				х	Titanium 01152				х
00-35 Nitrata 00-20			Х	01027 Calcium				X	Tin 01102 Zinc			/	X
Nitrito 90615		X	v	00916 Cobalt		· VV	X		01092 Algicides		_/	.У.	
Phosphorus 00665	<u> </u>	x	Х	01037 Chromium		•		Х	74051 Oil and Grease				X
Sulfate XX945		X		O1034 Copper	••			X	00550 Phenois		-	_	X
Sulfide 20745			X	01042 Iron 01045		W	X	X	32730 Surfactants	——————————————————————————————————————		_	X
ulfite 0740			х	Lead 01051				\mathbf{x}	Chlorinated Hy	drocarbons			X
Bromide 1870			x	Magnesium 100927		W	X		74052 Pesticides 74053			0	X
hlorida 0940 'Yanida	7	v		Manganese 01055		W	X	30	Fecal Streptoco 74054	cci Bacteria	7	i	$\frac{X}{X}$
yande 0720 luoride	0			Mercury 71900 -	Ş		1	+	Coliform Bacter 74056	ia	\sqcap		$\frac{x}{x}$
lvoride 0951	V.	Y		Molybdonium			<u> </u>			e & e			$= \pm 1$

20 Hz vall known hazar	dous or potentially hazardous subfricted, Clean	rik'8°01	iice bi	1/22/2024**AS 2021-05**
X Yes	□ No 🦽			
24b. If yes, have steps been this discharge?	n taken to insure that there exists no pos	sibility of	any suc	ch known hazardous or potentially hazardous substance enterin
67 27			•	
X Y//s	. No		. •	
(2) Sampled 1 t	imes making composite same making composite same maximum concentration times	ole of	equa	ial increments throughout process. il increments throughout process. e flow.
		•		
The information above comp an activity included within ar well.	eletes the basic depocyling reminerers who of the Standard High stale. Classification	hich are re on Code (equired SIC Coc	of all applicants. Those applicants whose discharge results from de) categories listed below must complete Part A of this form as
	AMITICAL I	NDUST	RIAL	GROUPS
4 64	HERIES, FARES AND PRESERVES	SIC	285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
\$ ' 10-14 DIVISION B		SIC	2871	
SIC 201 MEAT PROI		SIC	2879	
SIC 203 CANNED PE	RESERVED FRUITS VEGETABLES		•	CULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED
(EXCEPT SE	AFOODS, \$10 20 4 AND 2036)	SIC	2891	ADHESIVES AND GELATIN
SIC 2031, - CANNED AN 2036 FRESH OR I	ND CURED FISH AND SEAFGODS; FROZEN PACKAGED FISH AND	SIC	2392	EXPLOSIVES
SEAFDODS	TO THE TACKAGED FISH MAD	SIC	23	PETROLEUM REFINING AND RELATED INDUSTRIES
LEX.	L PRODUCTS	SiC	3011, 3069	
SIC 206 SUGAR		SIC	3079	PRODUCTS, NOT FASEWHERE CLASSIFIED MISCELLANEOUS PLASTICS PRODUCTS
	NARY AND RELATED PRODUCTS	SIC	311	LEATHER TANNING AND FINISHING
SIC 208 BEVERAGES SIC 209 MISCELLAN		SIC	32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
KINDRED PE	EOUS FOOD PREPARATIONS AND RODUCTS	SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING
S 22 TEXTILE MI	LL PRODUCTS			AND FINISHING MILLS
SIC 23 APPAREL AN	NO OTHER FINISHED PRODUCTS	SIC	332	IRON AND STEEL FOUNDRIES
MATERIALS		SIC	333, 334	PRIMARY SMELTING AND REFINING OF NON- FERROUS METALS; SECONDARY SMELTING AND REFINING OF NONFERROUS METALS
to the second se	ND PLANING MILLS	SIC	335	NONFERROUS FOUNDRIES
		SIC .		COATING, ENGRAVING, AND ALLIED SERVICES
		SIC	35	MACHINERY, EXCEPT ELECTRICAL
IC 281 INDUSTRIAL	ALLIED PRODUCTS INORGANIC AND ORGANIC	SIC	36	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
	(EXCEPT SIC 2818) ORGANIC CHEMICALS	SIC	37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
IC 282 PLASTICS MA	ATERIALS AND SYNTHETIC	SIC	3731	SHIP BUILDING AND REPAIRING
AND OTHER	THETIC RUBBER, SYNTHETIC MAN-MADE FIBERS, EXCEPT	ŞIC	491	ELECTRIC COMPANIES AND SYSTEMS
" GLASS		SIC	493	COMBINATION COMPANIES AND SYSTEMS
IC 283 DRUGS			i ji	
ARAHONS P	GENTS, AND CLEANING PREP- ERFUMES, COSMETICS, AND ET PREPARATIONS		Section 1	
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(Note: Submission of Part / on page 3 above.)		U				1	use only)		•	*	# # # # # # # # # # # # # # # # # # #
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		1.8	0	0	735	0	0	COMP	(2)	SM	ABS
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TOTAL DISSOLVED		413	4900	.1002	(3)	2988	2009	COMP	(1) OTHR	SM	ABS
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AMMONIA (as N)				.0008		24	16	COMP	(<u>1</u>)	SM	ABS
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(Note: Submission of Pert B also required to submit Part A, Indicated in the instructions ere	Only those parami	ters specifically		Office use, only)			
				÷ .		Discharge Serial N 004	
B-1. PHYSICAL A	ND BIOLOGIC	AL PARAMET	TERS OF IN	TAKE WATER	AND DISCHA	RGE (See Table	e B-1)
Intake				Discharge			×
WINTER TEN ATER	INT TREATED	VERACE IDAILY)	EAATING SEAA	OPERATANANA SEARI	CON MARIE FREQUENCY	TAUOUS MONITORI	vc \
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PARAMETER AND CODE	(5)	(2)	(3)	(4)	(5).	(6)	(2)
COLOR 60080						A.	
SPECIFIC CONDUCTANCE CO095	-						
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			• .	L	·						
							Dischar	ge Seri 004	al No.		
B-2.	CHEMICAL	PARAMET	TERS OF I	NTAKE WA	TER AND	DISCHARG	E (See Tabl	e B-2)		
Intake					Discharge			·			
UNITAL TRE	14.9.4.	194	Mata	DAILL	ALEA		S. Mr. Co.				
CATREATED INTAKE IN	TEO INTAXE INA	M CONCENTRA!	Maxing Collings of Process Collins of Process Colli	CAN POUNDS PER	AVE CONCERTY	SCE POUR SON	SAMOLE THOO SAMOLE TO SAMO	100		TORNO	
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CARBON (T.O.C.) 00580											
TOTAL HARRIES											
TOTAL HARDNESS 00900		W									
<u> </u>							•				
NITRITE (as N) 00615											
ORGANIC NITROGEN											
PHOSPHORUS-ORTHO (as P)				·	•						
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	•			L		·	Dischar	ge Seri			
B-2. (cont.)	CHEMICA	L PARAM	ETERS OF	INTAKE W	ATER AND	DISCHAR	GE (See Ta	ble B-	2)	·	
Irnake					Discharge						
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	ctronic Fil			PART E					-	-	
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B-2. (cont.)	CHEMICA	AL PARAM	ETERS OF	INTAKE W	ATER AN	D DISCHAR	GE (See Ta				- 7
Inteke	†⊌b e n		energy promoting in equipment		Discharge	-ية بورينشيد					
PARAMETER TRE	A TEO INTAKE WA	Maxi Na CONCENTRA	Maxing Process of the Control of the	Oally a Cay A Cay	AVER LO CONCENTA	A TION SPEC	Salatic Property of the Proper	TRICOL SWALL	S. HONE	ronnie	
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MAGNESIUM-TOTAL 00927		w									
MANGANESE-TOTAL 01055		w		. i		•	-				
MERCURY-TOTAL 71900			***								
MOLYBDENUM-TOTAL 01032											\

Other Discharge Serial No. OUA						11/22/202	· · · · · · · · · · · · · · · · · · ·	*				
B-2. (cont.) CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B.2) Intake Discharge Discharge		**************************************		•		(Office use or	'' '	•			,s.	-
B-2. (cont.) CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B.2) Intake Discharge Discharge				•			*					. '
B-2. (cont.) CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2) Intake Discharge Obscharge AND COLOR TO THE TO THE						•		Disch				
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(8-2, (cont.)	CHEMICA	L PARAME	TERS OF !	NTAKE WA	ATER AND	DISCHARG	E (See Tab		1		
Intaks	and a special or the transfer the part.		t dina managen	***	Discharge	Committee of the commit	-		<u></u>		
PARAMETER AND COOP	TEO INTAKE WAS	M CONCENTRAT	MAXING PROCESS UNIT	OAIL V.	VG CONCENTRA	GE POUNGS PER	SAN CON PROCESS OF THE PROCESS OF TH	PINUOU R SNAIL	SUNNI	TORING	
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^{&#}x27;Name specific compound(s) and fill in the required data for each. Use extra blanks at the end of the form and the "Remarks" space as necessary.

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B-3. RADIOAC	TIVE PARAN	METERS OF I	NTAKE WAT	TER AND DISC	HARGE (Se	e Table B-3)	
Intake				Discharge	i		
	TREATED HATER	ERACE IDAILY)	RAINING SEARS	PERATING SEARS	CON CONTRACT	TINUOUS MONITORIN	6
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)
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B-4. REMARKS		<u></u>	<u> </u>		L		

Code 01034, 01092, 32730 and 00940 sampled 1 time. Code 00945 sampled 2 times.

SECTION II. PLANT PROCESS AND DISC.::ARGE DESCRIPTION L. 1)-change described below is 2. Present		Electronic Filing:	Receive	ed, Clerk's Office 11	122/2027 300	829/21-65*70-72
2. Present				•		
State the precise location of the point of discharge. 7. Latitude 3 7 Degrees: 1 2 Min; 3 0 Sec. 8. Longitude 8 8 Degrees: 2 Min; 3 0 Sec. 10. Has application for water quality certification of description of licrosect been made? If so, give date: Date	1	b. Proposed new p	2.		1	The state of the s
State the precise location of the point of discharge. 7. Latitude 3 7 Degrees, 1.2 Min; 3 0 Sec. 8. Longitude 8 8 Degrees, 5.1 Min; 3 0 Sec. 10. Has application for water quality certification or description of limbact been made? If so, give date: Date	Name of corpora		he point of		•	City or 005
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Date Check if certificate Name issuing Agency Statished to form Name issuing Agency 11. Narrative description of activity (include terms of general 4-digit Standard Industrial Classification, and specific monufacturing process). Intake Screen wash - removes debris from travelling intake screen and returns to river.	7. Latitude	3 7 Degrees; 1 2	Min; 3	O Sec.		oint of discharge.
Intake screen wash - removes debris from travelling intake screen and returns to river. 12. Standard industrial classification number. SIC 4921 15. Principal raw material. 16. Amount of principal raw material. 17. Number of batch discharges per day. N/A 18. Average gallons per batch discharge. 19. Date discharge began. 3,720,000 AUG OL STANDARD Consumed per day. 20. Date discharge will begin. 3,720,000 AUG OL STANDARD Consumed per day. 21. Describe waste abatement practices. None	10. Has application	Date J U N 3 0 7		Check if certificate	_	
and returns to river. 12. Standard industrial elessification number. SIC 4911 15. Principal raw material. N/A 16. Amount of principal raw material. N/A 17. Number of batch discharges per day. N/A 18. Average gallons per batch discharge. 3,720,000 AUG 01 53 mo N/A 21. Describe waste abatement practices. None	11. Narrative des					
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3,720,000 AUGOT STATE TO STAT					-	
21. Describe waste abatement practices. None	18. Average gallor	·-	19. D		·	
	21. Describe wast	e abatement practices.	1	mo day	yr	mo day y
		None		· · · · · · · · · · · · · · · · · · ·	- Tarjahan jaya sasa sa 	
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22. El	lectron	HY	Hing	l reservet	I Chedif s i Offai	ke ww	rep	ant	TISCH ARGE	-05**	······································		
Intake		-		Di		10	Offic	e use	only)				
	$\overline{}$	· · · · · ·	·	Dischar	la.					•	Art.		
	1 1 1	1								Discharge Seri	al No.		
144	The state of	,	(72	6	6	• }			005			
TAGE TO THE	A. A.	687 687	, \	ALERACE DAIL	ORENALIMIA SER	ORE!	20 to	2.	THE CHARLE	MONTANIO AND			
Tay of	· /	4	, c	· OA	16.43			Can	CENTER.	Miline			
Parameter			- F	1.		3		NA S		1	or .	/	J.
and (Code)	(1)	Tribulo e		(2)	(3)	(4			(5)	(6)	(7) }	1.
Flow (Gallons per day)				(5)	(5)	(5)		(5)				
78205E 50050				3.72	3.72	3.			3.72	OTHR	АВ	S	
pH -00400)THR	3/		
Temperature			\bot	7.8	7.7	7	.5		7.9	(3)	АВ	3	
(Winter) (°F) -74028				70	(6)	(6			(6)	OTHR	X .		
Timperature	-		+	36	36		36	_	42.	OTHR (3)	ABS	3	
(Summer) (°F) 74027				87	(6) 87	(6) 85		(6) 89.	OTHR (3)	ABS	7	
23.										11.50		\neg	
		Ę	-				E					_	
PARAMETER	٠٠,	PRESENT	ABSENT	P/	RAMETER	•	PRESENT	ABSENT	P,	ARAMETER		PRESENT	ABSENT
Color 00080		x		Aluminum 01105			x		Nickel 01067			+	\dashv
Turbidity 00070		X		Antimony 01097		·	 	χ	Selenium			\dashv	<u>X</u>
Radioactivity 74050			χ	Arsenic 01002				X	01147 Silver 01077	•		+	X X
Hardness 00900		χ		Beryllium 01012		· ·		X	Potassium 00937			x	
Solids 00500		χ		Barium 01007			<u> </u>	χ	Sodium 00929			x	\dashv
Ammonia 00510		χ		Boron 01022				χ	Titanium 01152	• .		+	χ
Organic Nitrogen 00605 Nitrate		χ		Cadmium 01027				χ	Tin 01102		- 	+	χ
00S20 Nitrite		χ		Calcium .00916			χ		Zinc 01092			x	
00615 Phosphorus		χ		Cobalt 01037				χ	Algicides 74051	4		1	\mathbf{x}
00665 Sulfate		χ		Chromium 01034	•			χ	Oil and Grease 00550				х
00945 Sulfide		χ		Copper 01042			χ		Phenols 32730				x
00745 Sulfite		-	χ	1ron 01045			χ		Surfactants 38260	\(\)			χ
00740 Bromida			χ	Lead 01051				χ	Chlorinated Hy 74052	drecarbons			χ
71870 Chloride			X	Magnesium 00927			χ	В	Pesticides 74053				χ.
00940 Cyanide		χ		01033	o 1	, a	χ		Fecal Streptoco 74054		, χ	1	
C0720			X	Mercury 71900				х	Coliform Bacte 74056	ria	` }		
00351		Χ		Molybdenum 01062			90	х	1	/ 1			

	* 2				***	
244.	Heves	all known hazardous or potentially hazardous substances in	a ye	our pla	ant been in	ventoried?
		X Yes No			44	
24b.	If yes, this di	have steps been taken to insure that there exists no possib scharge?	oilit	ty of a	iny such ki	nown hazardous or potentially hazardous substance entering
·		X Yes No			•	William Communication of the C
	Remarks.	Li .				
		Sampled 1 Time grab sample.				mated.
		Sampled 2 Times grab sample.	1	(7)		ulated maximum concentration
		Sampled 3 Times grab sample.			time	s average flow.
		Sampled 4 Times grab sample.				[™] The second of the second
	(5)	Calculated flow.				
The an ac	riant inc	on above completes the basic reporting requirements which illuded within any of the Standard Industrial Classification	zh a ı Cc	are recorde (S	າມired of al IC Code) c	ell applicants. Those applicants whose discharge results from categories listed below must complete Part A of this forth as
***		CRITICAL IN	DU	JSTR	IAL GR	OUPS
SIC	098	FISH HATCHERIES, FARMS, AND PRESERVES		SIC	285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
SIC	10-14	DIVISION B - MINING	E¥15° -	SIC	2871	FERTILIZERS
SIC	201	MEAT PRODUCTS		SIC	2879	AGRICULTURAL PESTICIDES, AND OTHER AGRI-
SIC SIC	202	DAIRY PRODUCTS CANNED PRESERVED EDUITS MEGETARIES		0	20,0	CULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED
1		CANNED PRESERVED FRUITS, VEGETABLES (EXCEPT SEAFOODS, SIC 2031 AND 2036)		SIC	2891	ADHESIVES AND GELATIN
ŠIÇ	, 2031, 2036	CANNED AND CURED FISH AND SEAFOODS: FRESH OR FROZEN PACKAGED FISH AND		SIC	2892	EXPLOSIVES
th.	400.	SEAFOODS		SIC	29	PETROLEUM REFINING AND RELATED INDUSTRIES
SIC	204	GRAIN MILL PRODUCTS	1	SIC	3011, 3069	TIRES AND INNER TUBES; FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC	206	SUGAR		SIC	3079	MISCELLANEOUS PLASTICS PRODUCTS
SIC	207	CONFECTIONARY AND RELATED PRODUCTS		SIC	311	LEATHER TANNING AND FINISHING
SIC	208	BEVERAGES		SIC	32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
SIC	209	MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS		SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING
SIC	22	TEXTILE MILL PRODUCTS	4.1			AND FINISHING MILLS
SIC	23	APPAREL AND OTHER FINISHED PRODUCTS			332	IRON AND STEEL FOUNDRIES
		MADE FROM FABRICS AND SIMILAR MATERIALS		SIC	333, 334	PRIMARY SMELTING AND REFINING OF NON- FERROUS METALS; SECONDARY SMELTING AND REFINING OF NONFERROUS METALS
SIC	242	SAWMILLS AND PLANING MILLS	;	SIC	336	NONFERROUS FOUNDRIES
SIC	2432	VENEER AND PLYWOOD	•		347	COATING, ENGRAVING, AND ALLIED SERVICES
SIC	2491	WOOD PRESERVING				MACHINERY, EXCEPT ELECTRICAL
SIC	26	PAPER AND ALLIED PRODUCTS				ELECTRICAL MACHINERY, EQUIPMENT, AND
SIC	281	INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)			•	SUPPLIES
SIC	2818	INDUSTRIAL ORGANIC CHEMICALS	. 5	SIC		TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
SIC	282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC	Ş	SIC	3731	SHIP BUILDING AND REPAIRING
	ė.	AND OTHER MAN-MADE FIBERS, EXCEPT GLASS	. 8	SIC	491	ELECTRIC COMPANIES AND SYSTEMS
ic	283		# S	SIC	493 ⁽⁾	COMBINATION COMPANIES AND SYSTEMS
iic	284	SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOLLET PREPARATIONS				

	PA	RT B DISC	HARGE DE	SCRIPTION			
(Note: Submission of Part B i also required to submit Part A. C indicated in the instructions are t	inly those paramet	ers specifically		fice use only)			
Bullearer			<u></u>		Dis	scharge Serial No 005).
B-1. PHYSICAL A	ND BIOLOGICA	AL PARAMET	ERS OF INTA	KE WATER A	ND DISCHAR	GE (See Table	B-1)
Intake				Discharge			
MINTALEA TED	WTREATED AL	ERAGE IDAIL Y	PATRIMON (OF PATRICO VEAR)	ERATING VEAR	CONTINUE FREQUENCY	UOUS MONITORIA	\$ C
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)
COLOR 00080		W					
SPECIFIC CONDUCTANCE 00095				-	•	•	
TURBIDITY 00070		W					
FECAL STREPTOCOCCI BACTERIA 74054	0	W		X			
FECAL COLIFORM BACTERIA 74055	-			\times			
TOTAL COLIFORM BACTERIA 74056		W					
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	i e	augusta dem e e e e e e e e e e e e e e e e e e	gad _e (page) society "							*	
				· L	#		Dischar		al No.	سسره مناج	
B-2.	CHEMICA	L PARAMET	TERS OF I	NTAKE WA	TER AND	DISCHARG		05 - R-2			
Intake,	-fe-chys-reca	and green and the second	To planting the state of		Discharge	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		. 4"		-	
UNTREATED INTAKE	Maxing Maxing Maxing Market Ma	I'M CONCENTRA	MUMPOLITIES ON I	COMPOUNDS PER	AVERA SAVE CONCENTRA	SCE POUNDS PER	Sample From	WTHUOL ANAL	S NOW SEE	TORING	•
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	111
ACIDITY (as CaCO ₃) 06435		-							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
TOTAL ORGANIC CARBON (T.O.C.) -00680											
TOTAL HARDNESS		W					****			•	
NITRITE (as N) ************************************	_	W					•	-	••	•	
ORGANIC NITROGEN 00695		W								•	
PHOSPHORUS-ORTHO (2s P) 70507											
SULFATE 00945		56	100	.1540	(1) 3088	77	2377	A	0	W	A
SULFIDE 00745	4					•	•				
SULFITE 00740				и п			•				
BROMIDE 71870						*					

		5.	PARTE					·		-
	Andrew Consensus Services	- Markanda - Company		Office use on	iy)		·			
			L	· · · · · · · · · · · · · · · · · · ·		Discha	rge Seri	ai No		
	i di			· · · · · · · · · · · · · · · · · · ·		0	05			
		ENS OF	JUTAKE V		D DISCHAI	RGE (See Ta	ble 6-	2)		
				Discharge					-	
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		100	UME	Arc.	ACK SP	State Ho.	TALL			**************************************
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D 0 ()	CHEMICAL	PARAME	TERS OF I	NTAKE WA	TER AND	DISCHARG)		
B-2. (cont.)	UITERRUAL	· IAIIAIIL			ischarge					 	
,		16	11-10-	04.	74	111	12				
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UNTREATED INTAKE	NEO INTAKE MATE	MAXIM SEA	MAXIMO PROCESS UNIT	DAIL NA POUNDS PER L	G. CONCENTRA	S.E. POUNDS PER L	METHOD E PRECUE				
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PARAMETER AND CODE	(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)	(9)	(10)	(
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CAESIUM-TOTAL 00916		W	·	-							
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CHEOMIUM-TOTAL 01034					(1)			_		T.7	
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COBALT-TOTAL						Ny -	* * * * * * * * * * * * * * * * * * *				
01037											1
COPPER-TOTAL					ļ		•				
01042		W			1		•	:			-
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IRON-TOTAL 01045		W					-				
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EAD-TOTAL				1							
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MAGNESIUM-TOTAL			1 6		1.00						
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MANGANESE-TOTAL 01055		W			AND THE PERSON NAMED IN						
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MERCURY-TOTAL											
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MOLYBOENUM-TOTAL				ŀ			Serve di Serve San				
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B-2. (cont.)	CHELLICA	L PARAME	TERS OF	INTAKE W	ATER AND	DISCHAR			2)		
Intake			- to the second of the second		Discharge			**************************************			
UNTREATED INTAKE IN	4.	1 1/2	Nun FOUNDS ARI	OAILY A POUNDS PER	AVERA VG. CONCESTRA	GE POUNDS PER	12	·			
ATAEA REA	TEO INTAKE NA	M CONCENTRAT	N. THA	Ca The	EAR		Merrico Constitution of the Property of the Pr	M.			· . 1
TEOM	COM	H CON CH	PACOLA	MAQU.	£ 60°	"E POLL " VAIL	2/2/20	100	1.0		
TAKE	Aten.	CENT	J. C. G. C.	"OS PK	CERTA	OS PE	134 CO.	180 X	101	/3	
	AVE.	KA JAN	ON WIT	909x 3	OAL TA	TION.	CAL	(S)	28.	1/40	
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AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
NICKEL-TOTAL			455-5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-								
01067											
								 			
POTASSIUM-TOTAL		W	-								
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SELENIUM-TOTAL											
01147											
<u> </u>				<u> </u>				-			
SILVER-TOTAL 01077						•					
-01077							•			1	
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SODIUM-TOTAL 00329		W			• **						
	-		<u> </u>								
THALLIUM-TOTAL											
01059											
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- TIN-TOTAL 01102							,				
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TITANIUM-TOTAL							•.				
01152											
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ZINC-TOTAL					(1)						
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OIL AND GREASE							•				•
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		* #					Discharg	e Serial	No.	ĺ,	
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B-2. (cont.)	CHEMICA	L PARAME	TERS OF I	NTAKE WA	TER AND	DISCHARG	E (See Tab	le B-2)			
Intake	· · · · · · · · · · · · · · · · · · ·		. الأينو ووسفي و وودات الد		Discharge				regiones, e		
UNTREATED MARKENA	MAXIMO NITAXE NA	Maxin Res	MAXIMO POUNDS PER CONTROL ON THE POUNDS PER	DAILY S DAY	AVERA OAN OAN	SE POUNOS PER	SAMMERADO O LE TYPE OUE	rindous analyses	MON		
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PHENOLS 32730		<.004	<. 004	NIL	(1) (. 12	<.004	< .12	A	0	W	A
SURFACTANTS 38250										-	
ALGICIDES*	·					± volue	. . .				
CHLORINATED HYL RO- CARBONS* (EXCEPT PESTICIDES) 74052	•						•				
PESTICIDES* 74053	-		•		, , , , , , , , , , , , , , , , , , ,			-			
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		•				Discharge Se	riel No.
B-3. RADIO	DACTIVE PAR	AMETERS O	F INTAKE W	ATER AND DIS	SCHABGE (C.	005	-
Intake		•		Discharge	JOHANGE 138	e rable 8-3)	
WYNTE A TED	Wrake Waren	AVERACE ICAIL,	OPERATINON SEAR	OREMA+IMUM WEARING YEARI	MANUE FREQUENCY	TINUOUS MONITO	
PARAMETER			S. CAR	EAR	No.	No.	FING
AND CODE	(1)	. (≨ ≥)	(3)	(4)	(5)	(6)	(7)
ALPHA-TOTAL 01501							
LPHA COUNTING RROR 1502							
ETA-TOTAL 2501							
ETA COUNTING RROR 1502							
AMMA-TOTAL 501	-				•		
AMMA COUNTING BROR 502						·	
RITIUM-TOTAL 000							
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NG FORM 4345-1

01034) Sampled 1 time. 32730)

	7. %	oused 6-30-72
· Electr Sint To llnig: Re	elanto, poicers anticui sonzarboezo es	
1. Discharge described below is a. Present X b. Proposed new or changed		72 OVE 2 000465
Name of corporate boundaries within which the point State 3. Illinois	of discharge is located. County 4Massac	City or Town 006
State the precise location of the point of discharge. 7. Latitude 3 7 Degrees: 1 2 Min; 3 8. Longitude 8 8 Degrees: 5 1 Min; 3	·	
10. Has application for water quality certification or di		
JUN 30 72	Check if certificate is attached to form	ne (ssuing Agency
11. Narrative description of activity (include terms of g	eneral 4-digit Standard Industrial Classification,	and specific manufacturing process).
Chlorinated to 0.3 -	m surface condensers of units 0.5 ppm residual Cl ₂ for ten r temperature is above 50 F.	1, 2, 3 and 4. minutes in each
(3)		
rt Na		
See .		
1		
67 16		
12: Standard industrial classification number.	13. Principal product.	14. Amount of principal product produced per day.
SIC 4911	Electric Power	20,047 MWH
		(Gross)
74 - Control of the C		-
15. Principal raw material. N/A	16. Amount of principal raw material consumed per day, N/A	17. Number of batch discharges per day.
		0
18. Average gallons per batch discharge. 19. I	Date discharge began. 20.	Date discharge will begin.
0	$\frac{A U G}{mo} \frac{01}{day} \frac{5 3}{yr}$	N/A day yr
21. Describe waste abatement practices.		
None		
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		1	3								The second secon	•	9.14		
2. E	lectron	# 83#	9Alş	PRS	Bive	O COPERIN TOM	gea/An	<u>/28</u> /	201 0	1 DISPLISATION	1-05**	-			
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William Stranger	MARK.	èc.		KA	GE IDAIL.	ORER A LINE LEA	OREG N	30+		TAROLINICA	\ .e.				
True Land	1	48) .		G. (2)	THATE		TAG	30/2	J. O. S. C.	Month of	. \			
1/460		િં	Ġ.		3/1	The state of the s) 9.	1	T. PA	1 5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(000)	1	į	
Parameter and (Code)		1		•					\	•					
Flow	(1))	(2)	2 P	(3)	(4)		\rightarrow	(5)	(6)	<u> </u>	7}	\angle	
(Grilonsperday)			- 1	A 1)	2B (1)	(1) .		6)		(6)	OTHR				
50050	· · · · · · · · · · · · · · · · · · ·		29	1) 5.290	.259	295.549	167	.76		481.68	(1)	AB	S		
pH		•				_			.		OTHR				
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T iratura (%er) (°F) 74028						•			1					, ,	
•	·		36		58	66	64			70	DYLY	Re	С		
Temperature (Summer) (°F).			1.	-											
74027			87		58	108	103	-		114	DYLY	Re	С		
23 DISCHARGE CONT						NTENT	S			<u>.</u>					
e al		Ę	E			. *		5	F				5	-	
PARAMETER		PRESENT	ABSENT		PA	RAMETER	•	PRESENT	ABSENT	P	ARAMETER	•	PRESENT	AUSENT	
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Radioactivity 74050			\mathbf{X}_{i}	Arser 0100				-	X	Silver 01077				х	
Fi. 155 005-0	W	Х		Beryl 0101:		,	c		х	Potassium 00937		ŞΥ	` <u> </u>		
Solids 00500	\checkmark	X		Bariu 0100					x	Sodium 00929			Х		
Ammonis 00510	1	X		Boron 01022					Х	Titanium 01152				х	
Organic Nitrogen 00505		Х		Cadm 0102	ium				х	Tin 01102		- 1	-	Х	
Nitrate 00520	ν	х		Calcio 00910	m		ψ.	Х		Zinc 01092		J	Χ		
Nitrite	W	х		Cobal 01037					х	Algicides 74051				X	
Phosphorus 00365	J	X		Chron 0103	nium				Х	Oil and Greas	ë			Х	
Sulfate 00945			X	Сорре	r		N	Х		Phenois	•	Ţ.J.		x	
Sulfide 00745			X	01042 Iron		<u></u>	. Vo			32730 Surfactants	<u> </u>				
Sulfite 00740	11.	\dashv	$\frac{\lambda}{\chi}$	Load				Х	Х	38260 Chlorinated H	lydrocarbons			X	
Bromide 71870		_		Magne	sium.		γv	7.	^	74052 Pesticides				X	
Chloride 00940	7		X	00927 Manga	nese	, i e e e e e e e e e e e e e e e e e e	1/1	X		74053 Fecal Strepto	cocci Bacteria	Į,		X	
Cyanide		$\frac{1}{ X }$		01055 Mercu	ry			X		74054 Coliform Bact	eria	<u> </u>	Υ.		
00720 Fluoride	14	·X	X	71900 Molyb	denum	- 4			X_	74056		ابرا د	X		

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2'	Hz +2	Electronic Filing: Received, Cler	n your	plant been	inventoried? //22/2021 ** A C 2021 05**
		X Yes No		ilice 1 i/	22/2021 AS 2021-03
245	. lí /es, this di	have stops been taken to insure that there exists no possi scharge?	bility of	any such i	known hazardous or potentially hazardous substance entering
		X Yes No	•	•	
	Remarks				
		culated flow. pled 2 times grab sample.			2A is river water.
(3	3) Sam	pled 3 times grab sample.		Cor. 7	2B is well water.
(5	i) Sanj			alculat verage	ted maximum concentration times flow.
The	informati	on should complete the basic reporting requirements who	-		
an zo well.	tivity incl	on above completes the basic reporting requirements with laded within any of the Standard Industrial Classification	ch are re Code (:	equired of SIC Code)	all applicants. Those applicants whose discharge results from categories listed below must complete Part A of this form as
C MEAN		C RITICAL IN	DHCT	= - CD	20100
<u> </u>		•	Dusii	MALUN	OUPS
SIC'	098 10-14	FISH HATCHERIES, FARMS, AND PRESERVES DIVISION B – MINING	Sic	285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
SIC	201	MEAT PRODUCTS	SIC	2871	FERTILIZERS
SIC	202	DAIRY PRODUCTS	. SIC	2879	AGRICULTURAL PESTICIDES, AND OTHER AGRI- CULTURAL CHEMICALS, NOT ELSEWHERE
SIC	203	CANNED PRESERVED FRUITS VEGETARIES	•	•	CLASSIFIED
	-	(EXCEPT SEAFOODS, SIC 2031 AND 2036)	SIC	2891	ADHESIVES AND GELATIN
SIC	2035 - 2036	FRESH OR FROZEN PACKAGED FISH AND	SIC	2892	EXPLOSIVES
sic	204	SEAFOODS GRAIN MILL PRODUCTS	SIC	29	PETROLEUM REFINING AND RELATED INDUSTRIES
sic i	+	SUGAR	SIC	3011, 3069	TIRES AND INNER TUBES; FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC		CONFECTIONARY AND RELATED PRODUCTS	SIC	3079	MISCELLANEOUS PLASTICS PRODUCTS
SIC	208	BEVERAGES	SIC	311	LEATHER TANNING AND FINISHING
SIC	209	MISCELLANEOUS FOOD PREPARATIONS AND	SIC	32.	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
Si	22 :	KINDRED PRODUCTS	SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS
	22: 23	TEXTILE MILL PRODUCTS APPAREL AND OTHER SINISHED PROPUGTS	SIC	332	IRON AND STEEL FOUNDRIES
3.0	** .	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	SIC	333, 33 4	PRIMARY SMELTING AND REFINING OF NON- FERROUS METALS; SECONDARY SMELTING AND
SIC	242	SAWMILLS AND PLANING MILLS			REFINING OF NONFERROUS METALS
SIC	2432	VENEER AND PLYWOOD	SIC	336	NONFERROUS FOUNDRIES
SIC	2491	WOOD PRESERVING	SIC		COATING, ENGRAVING, AND ALLIED SERVICES
	26	PAPER AND ALLIED PRODUCTS	SiC-		MACHINERY, EXCEPT ELECTRICAL
SIC :	281	INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)	SIC	3 6	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
ic :		INDUSTRIAL ORGANIC CHEMICALS	SIC	37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
ic :		PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC	SIC	3731	SHIP BUILDING AND REPAIRING
		AND OTHER MAN-MADE FIBERS, EXCEPT	SIC	491	ELECTRIC COMPANIES AND SYSTEMS
IC 2		DRUGS	SIC	493	COMBINATION COMPANIES AND SYSTEMS
IC 2	284	SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND			
	**************************************	OTHER TOILET PREPARATIONS	•		

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(Mate: Submission of Pa on page 3 above.)	rt A is requi							a use only)			•		1
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(Note: Submission of Part B 'so required to submit Part A. icated in the instructions are	Only those param	eters specifically		Office use only)			
						Discharge Serial I	No.
B-1. PHYSICAL /	THE SIOLOGIC	AL PARAME	TERS OF INT	AKE WATER	AND DISCH	ARGE (See Tab	le B-1)
latel g				Discharge			
INTAKERATED RATER	WYAKEATED	VERAGE IDAILY	SERATING SEARS	PERATING YEAR)	NPLE FREQUENCE	TAUOUS MONITOR	
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B-2.	CHEMICAL	PARAMET	ERS OF U	TAKE WA	TER AND I	DISCHARGE		.B-2)			<u>بد</u> کت
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3-2. (cont.) ntake UNTREATED INTAKENA	CHEMICAL	. PARAMET		(Off	ice use only)		Discharge	Serial	No.		A
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B-2. (cont.)	CHEMICA	L PARAME	ETERS OF I		ATER AND Discharge	DISCHAR	IGE (See Tab	ıle B-z	<u>!)</u>	- 	
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	ATEO INTAKE WATER	MaxIII ONCENTRAT	ANUM POUNDS PER LINE	OAILY A. POUNOS PER I	AVERA	SGE POUROS PER	SAMOLE FREDLE	WINDOUS ANAL	S. MON YSIS	TORING	3
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	B-2. (cont.)	CHEMICA	L PARAME	TERS OF	INTAKE W	ATER AND	DISCHAR	GE (See Tab	le B-	2)		
	Intake					Discharge			·		· ·	
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B-2. (cont.)	CHEMICA	L PARAME	TERS OF I	NTAKE WA	TER AND	DISCHARG)		
Intake					Discharge	· · · · · · · · · · · · · · · · · · ·	*				n
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PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11
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SURFACTANTS 38260		-		•							
ALGICIDES*	•										
CHLORINATED HYDRO- CARBONS* (EXCEPT PESTICIDES) 74052											
PESTICIDES* 74053											
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						Discharge Seria	I No.						
B-3. RADIO	ACTIVE PARA	METERS OF	INTAKE WAT	ER AND DIS	CHARGE (See	Table B-3)							
Intake				Discharge									
4.44	Inc. To A	VER OF	10 m	SAN SAN	CONT	W.							
EV .	Wrake Waren	VERAGE IDAILY	EFATING YEARS	PERATING SEAR	PLE FREQUENCY	INUOUS MONITOR	'No						
PARAMETER - AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)						
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TA COUNTING ROR .u3502		iea.											
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B-4. REMARKS

(1) Calculated maximum consentration times average flow.

E THE STREET IN THE	The state of the s	6-30-72
1. Discharge described beldwiectronic Filing: Received, Cle	ESS AND DISCHARGE DESCRIPTION IN SOME SERVICE TO SERVICE TO SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVICE TO SERVICE THE SERVI	N _{-05**}
o. Proposed new	tion	
	1 1K.072 0	VE 2 000465
Name of corporate boundaries within which the point of discharge is	ocated.	6. Discharge Serial No.
Cou	City	or con
3 <u>Illinois</u>	Massac 5	
	5	N/A
State the precise location of the point of discharge.	S. Name of waterway at the point of disch	
7. Latitude 3 7 Degrees; 1 2 Min; 3 0 Sec.		
8. Longitude 8 8 Degrees; 5 1 Min; 3 0 Sec.	Ohic River	
10. Has application for water quality certification or description of im	1	
Date Check if cen	***	
JUN30 72 as attached to	o form Nama Issuing A	3ency
mo day ve		
11. Parrative description of activity (include terms of general 4-digit St Water discharged from surface	and and lody and lot	
Water discharged from surface to 0.3 - 0.5 ppm residual Cla	Condensions of the second	manufacturing process).
to 0.3 - 0.5 ppm residual Clariver water temperature is ab	for ten minutes each for	6. Chlorinated
river water temperature is ab	ove 50 F.	ir nours when
457,000		
auto.		
and a second		
2. Standard industrial classification number. 13. Principal of		
m s	roduct. 14. Amoun	t of principal product produced
SIC 4911 Ele	per day	•
		0,047 MWH (gross)
tricen		
Principal raw material.		
	Principal raw material (47 s)	
N/h	er oay.	of batch discharges per day.
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N/A Average gallons per batch discharge. O Describe waste abatement practices. None	20. Date discharge	0 will begin. N/A

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Temperature (Summer) (°F). 74027				.								`		
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and the second s	Employees and the second	ENT	ž			* • •		Ę	17				Z	F
PAHAMETER	. •	PRESENT	ABSENT		PA	RAMETER	•	PRESENT	ABSENT	PA	ARAMETER	•	PRESENT	ADSENT
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74050 H. ss	J.	V	χ	0100 Bery	llium		÷		χ	01077 Potassium		· · · · · · · · · · · · · · · · · · ·	_	X
005_J Solids 00500	- 7	χ		0101 Barit	2 im		· 	<u> </u>	χ	00937 Sodium		<u>\w</u>	X	-
Ammonia 20610	$\frac{1}{1}$	χ		0100 Boro	n				χ	00929 Titanium		W	X.	
Organic Nitrogen 0605	1/V	χ		O102 Cadn	nium		-, · · · - • · · · · · · · · · · · · · · ·	-	X	01152 Tin				X I
Vitrate 10620		χ	\dashv	0102 Calci	um	:	٠ ١	3,	χ	01102 Zinc			<u> </u>	χ
Vitrite 10615	W			Coha	t		19	X		01092 Algicides	······································	<u> </u>	χ	
hosphorus 0665		X X			mium		<u> </u>		χ	74051 Oil and Grease				X
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hloride 0940	- 7	$\frac{1}{x}$	\(\frac{1}{2}\)	0092 Mang	ากอรส	<u> </u>				74053 Fecal Streptoc	occi Bacteria	٧J	ν	X
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248	. If ye	, have steps been taken to insure that there exists no	possibility	of and o	uch known hazardous or potentially hazardous substance enter
	this d	ischarge?		U1 2107 30	acti known nazardous or potentially hazardous substance enter
	,	X Yes No		, i'	
	Remarks	·			
	(2) (3) (4)	Calculated. Sampled 2 Times grab sample. Sampled 3 Times grab sample. Sampled 4 Times grab sample. Estimated.	(6) C t	alculated maximum concentration imes average flow.
			•	•	
in a. vell	aniemas Ctivity in	ion above completes the basic reporting requirements cluded within any of the Standard Industrial Classific	which are ation Code	required SIC Co	of all applicants. Those applicants whose discharge results fro cel categories listed below must complete Part A of this form
shry *			?	•	
٠.		CRITICAL	INDUS	TRIAL	GROUPS
)C	098	FISH HATCHERIES, FARMS, AND PRESERVE			
Ļ.	10-14	DIVISION B - MINING	S SI	C 285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
G	201	MEAT PRODUCTS	Sie	C 287	1 FERTILIZERS
C	202	DAIRY PRODUCTS	Sic	2879	CULTURAL CHEMICALS, NOT ELSEWHERE
Ç	203	CANNED PRESERVED FRUITS, VEGETABLES (EXCEPT SEAFOODS, SIC 2031 AND 2036)		3 300	CLASSIFIED
C	2031,	CANNED AND CURED FISH AND SEA FOODS.	SIC	7	AND AND THE SENTENCE OF THE MACHINET OF THE MA
sil.	2036	FRESH OR FROZEN PACKAGED FISH AND SEAFOODS			•
	204	GRAIN MILL PRODUCTS	SIC		PETROLEUM REFINING AND RELATED INDUSTRI
32-	206	SUGAR	SIC	3011 3069	
į.	207	CONFECTIONARY AND RELATED PRODUCTS	SIC	3079	MISCELLANEOUS PLASTICS PRODUCTS
	208	BEVERAGES	SIC	311	LEATHER TANNING AND FINISHING
;	209	MISCELLANEOUS FOOD PREPARATIONS AND	SIC	32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
	22	TEXTILE MILL PRODUCTS	SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS
:	23	APPAREL AND OTHER FINISHED PRODUCTS	SIC	332	IRON AND STEEL FOUNDRIES
 4.		MADE FROM FABRICS AND SIMILAR MATERIALS	SIC	333, 334	PRIMARY SMELTING AND REFINING OF NON- FERROUS METALS; SECONDARY SMELTING AND
	242	SAWMILLS AND PLANING MILLS			REFINING OF NONFERROUS METALS
	2432	VENEER AND PLYWOOD	SIC		NONFERROUS FOUNDRIES
	2491	WOOD PRESERVING		. 347	COATING, ENGRAVING, AND ALLIED SERVICES
1	26	PAPER AND ALLIED PRODUCTS	SIC	35	MACHINERY, EXCEPT ELECTRICAL
:	281	INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)	SIC	36	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
:	2818	INDUSTRIAL ORGANIC CHEMICALS	SIC	37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
1	282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC	SIC	3731	SHIP BUILDING AND REPAIRING
		AND OTHER MAN MADE FIBERS, EXCEPT	SIC	491	ELECTRIC COMPANIES AND SYSTEMS
2	83	DRUGS	SIC	493	COMBINATION COMPANIES AND SYSTEMS
2	34	SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND			

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(Note: Submission of Part on page 3 above.)							e use only)						
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PARAMETER AND CODE ACKALINITY (as Ca CO3)	MA TIMONA CO INTAKE WATER WATER	MAXIMUM ONCENTRATI MATER M(2)	MA + SOUNDS AE SOUNT (ON (3)	INDIANCES ON LAND	AVE, TAATION	SAR SAR SAR SAR SAR SAR SAR SAR SAR SAR	ADTE TYPE	OF A. FREQUENC	TETISONI TET	TINUOUS			
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AEKALINITY (as Ca CO3)		<u> </u>)	1"	101	(9)	(10)	(111)		
QQ510					(6)				OTHR				
P ⁵³ D. 5-DAY		67	90	5.5065	110388	76	93216	AVER	(3)	S.M.	ABS		
00310					(5)								
		2.4	2.6	.1593	(6) 3189	2.2	2698	AVER	OTHR (2)	S.M.	ABS		
CHEMICAL OXYGEN QEMAND (C:O.D.)													
00340		12.0	23.8	1.4561	(5) 29191	15.4	18889	AVER	OTHR (4)	S.M.	ABS		
TOTAL SOLIDS									A-MANG W. T.				
00500 ට්.ෝ		324	442	27.0428	(6) 592127	305	37409	2 AVER	OTHR (4)	S.M.	ABS		
TOTAL DISSOLVED SOLIDS											i		
70300		200	338	21. 6798	(6) 414567	189	231.815	AVER	OTHR (4)	S.M.	ABS		
TOTAL SUSPENDED . SOLIDS													
٥ ي		124	2 2 9	14.0110	(6) 280876	(119)	142277	AVER	OTHR (4)	s.M.	ABS		
TOTAL VOLATILE						V							
00505	•	42	59	3.6098	(6) 72365	52	63780	AVER	OTHR (4)	S.M.	ABS		
AMMONIA (as N)						**************************************					i		
00610		.21	•52	U 21 C	(6)	00	707	7), (2)	OTHR	3-17-1			
KJELDAHL NITROGEN	167	. 44	• 52	.0318	638	.28	343	AVER	(3)	FWQA	ABS		
00625					(6)		- 1		OTHR				
		83	1.34	.0820	1644	.84	1030	AVER	(4)	FWQA	ABS		
NITRATE (as N)								•					
00620		1.8	2.10	.1285	(6) 2576	1.54	1889	AVER	OTHR (4)	FWQA	ABS		
PHOSPHORUS TOTAL (as P)				7		0	,			•	i		
00665		.099	.146	.0089	(6) 179	.091	779	AUCD	OTHR	13010 m	nno		
		ررب.	• 470	.0085	1/3	•0AT	112	AVER	(4)	FWQA	ABS		

(Note: Submission of Part B also required to submit Part A, indicated in the instructions are	Only those paran	noters specifically		Office use only)	÷	The second secon	• 4
						Discharge Serial	No.
B-1. PHYSICAL A	ND BIOLOGI	CAL PARAME	TERS OF IN	TAKE WATER.	AND DISCHA	RGE (See Tat	le B-1)
Intake		· · · · · · · · · · · · · · · · · · ·		Discharge			
WANTER TES	Write Areo	AVERAGE IDAILY	PERAINIANA SEARI	OPERATING SEARI	CONT.	INUOUS MONITOR	
BARAMETER	(1)		<u> </u>			<u> </u>	*c /
AND CODE COLOR 00080		(2) W	(3)	(4)	(5)	(6)	(7)
SPECIFIC CONDUCTANCE 09095							
TURBIDITY 00070		W					
FECAL STREPTOCOCCI BACTERIA 74054		W				-	
EECAL COLIFORM BACTERIA 74055							•
TOTAL COLIFORM BACTERIA 74056		W					
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			· ·		<u>L</u>			Discharg	e Serie	l No.	_1`	
B-2.	CHEMICAL	PARA	MET	ERS OF IN	TAKE WA	TER AND I	DISCHARGE					
Intake						Discharge			• .			
CANTREATED INTAKEN	TEO INTAKE WAS	M CONCE.	Matin AFRATA	MAXIMO PROUNDS PER UNIT	DAIL VA	AVERA VG. CONCENTRA	GE POUNDS PER	METHOD CONTROL PROPERTY OF THE	TIMBOU ANAL	SNON	TORING	
PARAMETER AND CODE	(1)	(2))	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(1
*ACIDITY (25 C2CO3) 00435		W						7				
TOTAL ORGANIC CARBON (T.O.C.) 200680												
TOTAL HARDNESS 00900	-	ſ.	7					South Control				
) _NITRITE (25 N) 00615		Į,	1					-11				
ORGANIC NITROGEN 00605		Į.	7		-		•	•		-	, , <u>.</u>	
PHOSPHORUS-ORTHO (as P) 70507		Ç.										
SULFATE 00945		2A 66	2B 0	102	6 . 2407	(1) 125106	67.5	82791	A	0	W	Ā
SULFIDE 00745				•						-		
SULFITE 00740				•		C.						
BROMIDÉ 71870												

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					L		·	Discharg	e Serie	ı No.		
	· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·	00				
B-2. (cont.)	CHEMICA	AL PA	RAME	TERS OF			DISCHAR	GE (See Tab	le B-	2)		
Intake	· · · · · · · · · · · · · · · · · · ·	-نىيەسىنىپ				Discharge		- 4 - 6				
UNTREATED INTAKE SA	TEO MTAKE WA	IN CONT	Maximal CENTRAL	AUM POUNDS PER PORT PORT PORT PORT PORT PORT PORT POR	OAIL V. POUNDS PER	AVERA DAY	GE POUNDS PER	AND THE CONTRACTOR	FINUOU A SUAL	S MONI	TORING	
PARAMETER AND CODE	(1)		 2}	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	1
	1	2A	2B					•				
CHLORIDE 00940						(1)	00.0					١.
		23	3.9	30.0	1.8355	36796	22.9	28087.6	A	0	W	1
CYANIDE 00720						-						
FLUORIDE 00951			W									
A CHARLEST TO THE						-						Γ
ALUMINUM-TOTAL -01105		١,	W					•				
ANTIMONY-TOTAL 01097	-			**************************************								
ARSENIC-TOTAL 01002	-manuscrib 17											
BARIUM-TOTAL	•					1 5		-	,			
BERYLLIUM-TOTAL 01012	. A) • • •	-	-2				•					
BORON-TOTAL 01022	•			- Sample graders of the control							i.	

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			•	.	<u>.</u> .	 	Discherg	se Serle	il No.		
B-2. (cint.)	CHEMICA	AL PARAME	ETERS OF	INTAKE W	ATER AND	DISCHARG	E (See Tab		2)		
Intake		•	بىدە چەن دە دەد دەد		Discharge						
PARAMETER THE AREA	MAXIMA TEO INTAKE NA	TER TRAITER	MAXIMO POUNDS PER JUNIT	OAILY A DAY POUNDS PER	AVERA CONCENTRA	SE POUNDS PER C	METHOD CONTROL OF THE PROPERTY	TINUOU CARALLES	S NO PHILLS IS	ONING	
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(1
CALCIUM-TOTAL 00916		W								ii.	
CHROMIUM-TOTAL 01034		<.006	<. 006	NIL	(1) < 8.9	<. 006	√ 8.9	A	0	W	A
COBALT-TOTAL 01037	-			•							
COPPER-TOTAL		W			-		*				-
IRON-TOTAL 01045		W									
LEAD-TOTAL 01051	•										
MAGNESIUM-TOTAL 00527	•	W									
MANGANESE-TOTAL 01055	-	W					•				
MERCURY-TOTAL 71900											
MOLYBDENUM-TOTAL			i)				•				

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ment report on the control of the co	- Automotive product principal rep	;		ticker observe grip i	- 🗷 (۱۹۵۶) 🚜 و معجد ۱۸۸۰		mire, autic generates e como aguantem e — a su grande.		The Section	Edmor Walkers	ونداره بجد	egente i i i i i i i i i i i i i i i i i i i
	•				b-p-n			Discharg 0(e Seria	l No.		
B-2. (cont.)	CHEMIC	AL PA	RAM	ETERS OF	INTAKE V	YATER AND	DISCHAR	GE (See Tal	ole B-	2)		
Intake						Discharge						
CATREATED INTAKEN	Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma M	TER COME	MAXI PE	MUM POLINGS ARE TON	CAIL Y CONTROLINGS PER	AVC. CONCENTR.	SCE POUNDS PER	METHOD CONTROLLE PROPERTIES	TINIOU ANAL NO.	s Month	roan.	
PARAMETER AND CODE	(1)	1	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	[111]
NICKEL-TOTAL 01067												
POTASSIUM-TOTAL 00937			W			_	•					
SELENIUM-TOTAL 01147								-				
SILVER-TOTAL 101077							H					
SODIUM-TOTAL 00929	4		W								• •	
THALLIUM-TOTAL 01059												
TIN-TOTAL 01102	•											
TITANIUM-TOTAL 01152									•			
ZINC-TOTAL 01092		2A .01	2B .01	.02	.001	(1)	.02	30	A	0	W	A
OIL AND GREASE				The second					,			

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					• 1	7. in the second second second second second second second second second second second second second second se	Dischar 00		il No.		
B-2. (cont.)	CHEMICA	L PARAME	TERS OF I	NTAKE W	ATER AND	DISCHARGE	(See Tab	le B-2	2)		
Intake					Discharge				************		
CNIREATED INTAKEN	NED INTAKENA	Maxilla Concentration	MAXIMA POLINIS PER LINIT	OAIL VINA POUNDS PE	AVERA OAL ONCENTRA	GE POUNDS PER DA	METHOD CONTROL	THUOU RANAL NO.	SMONI	TORING	0
PARAMETER AND CODE	(1)	(2)	(3)	{4}		(6)	(7)	(8)	(9)	(10)	111
PHENOLS 32730		<.004	<.004	NIL	(1.)	<.004	(1) ₹ 5	A	Ó	W	A
SURFACTANTS 38260											
ALGICIDES* 74051											
CHLORINATED HYDRO- CARBONS* (EXCEPT "PESTICIDES" 74052											
PESTICIDES* 74053		- 1			C						
	t			· · · · · · · · · · · · · · · · · · ·							
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B-3. RADICA	CTIVE PARAL	METERS OF 1	NTAKE WAT	ER AND DISC	CHARGE (See	Table B-3)	148
Intake	* :		-4,-	Discharge	was stayyyddian		an star and the
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way "	Va Too	(O)	EN O	Se May NAM	O. T. W.Y.	Wes !	
WATER TER	ATREATED AL	LERAGE IDAILY,	ERATING YEAR!	SAM SAM SAM SAM SEARI	CONT.	MOUS MONITORI	
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ALPHA-TOTAL 01501		•	18	\times			
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⇔BETA-TOTAL 03501							
BETA COUNTING ERROR 03502							
GAMMA-TOTAL 05501					•		
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	,		crane**			a .	
B-4. HEMARKS	<u> </u>			**************************************		1	
(1) Calculated Code 00945) Samp 00940)	maximum c led 4 tim		Col. 2	average : A is rive B is well	r water.		

1. Discussão des			CHARGE DESCRIPTION
a.Present	b. Proposed new	Received Clerk's Office 1	10 8/21 Del o 1/4 AS 2021-05**
) LX	(or shanged	schedule	16 072 04E 2 000465
Name of corpor.	ate boundaries within which the p	point of discharge is located.	6. Discharge Serial No.
	State	County	City or 008
	3. <u>Illinois</u>	4. Massac	sN/A
State the precise	location of the point of discharg	10.41	
7. Latitude		in 3 0 san	terway at the point of discharge.
			io River
Van			
To. The comment	Date	or description of impact been made?	
		Check if certificate	Name Issuing Agency
	<u>JUN 30 72</u>		
11. Nagratīva des	crintian of activity (include as-		
Restal:	Collecting flume	in general 4 digit Standard Industrial discharging to river.	Classification, and specific manufacturing process).
34	auxiliary cooling	water discharges fl	on draine boilor and
100	Dion-dir.	scowm drains, septic	tanks chlorinated discharges and
	demineralizer wast	ces.	and distinct des and
entropies (1)			
		I have been a second of the se	
	strial classification number.	13. Principal produ ¹ t.	14. Amount of principal product produced
	SIC 4911	Electric Pow	ner dau
e arra e	•		20,077 11W11 (Q1055)

ariamatic.			
15. Principal saw n	material.	16. Amount of principal and	
		16. Amount of principal raw m	aterial 17. Number of batch discharges per day.
	naterial. N/A	16. Amount of principal raw m consumed per day. N/A	naterial 17. Number of batch discharges per day.
		- consumed her day.	17. Number of batch discharges per day.
	N/A	N/A	17. Number of batch discharges per day.
	N/A	- consumed her day.	17. Number of batch discharges per day. 0 20. Date discharge will begin.
	N/A	N/A N/A 19. Date discharge began.	20. Date discharge will begin.
18. Average gallon:	N/A s per batch discharge.	N/A	0
18. Average gallon:	N/A	N/A N/A 19. Date discharge began.	20. Date discharge will begin. 5 3 N/A
18. Average gallon:	N/A s per batch discharge.	19. Date discharge began. A U G O 1 day	20. Date discharge will begin. 5 3 N/A mo day yr
18. Average gallons 21. Describe waste	N/A s per batch discharge. O abatement practices	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A
18. Average gallons 21. Describe waste	N/A s per batch discharge. 0 abatement practices. None at present.	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A mo day yr
18. Average gallons 21. Describe waste	N/A s per batch discharge. 0 abatement practices. None at present.	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A mo day yr
18. Average gallons 21. Describe waste	N/A s per batch discharge. 0 abatement practices. None at present.	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A mo day yr
18. Average gallons 21. Describe waste	N/A s per batch discharge. 0 abatement practices. None at present.	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A mo day yr
18. Average gallons 21. Describe waste	N/A s per batch discharge. 0 abatement practices. None at present.	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A mo day yr
18. Average gallons 21. Describe waste	N/A s per batch discharge. 0 abatement practices. None at present.	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A mo day yr
18. Average gallons 21. Describe waste	N/A s per batch discharge. 0 abatement practices None at present. ash pond discharce	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A mo day yr
18. Average gallons 21. Describe waste	N/A s per batch discharge. 0 abatement practices None at present. ash pond discharce	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A mo day yr
18. Average gallons 21. Describe waste	N/A s per batch discharge. 0 abatement practices None at present. ash pond discharce	19. Date discharge began. A U G O 1 mo day Starting to relocate	20. Date discharge will begin. 5 3 N/A mo day yr

-		_[```	L DESCRIPTION OF INTAKE W				WATER AND DISCULATION							
22.	Electron	YSIC IC F	al iling	DESC	RIPTI	a, Clerk's Of	E WATE	22/2	202	PISCHARGE AS 202	1-05**				
intake	<u></u>			,	ischarge	•		fice u			in a sili garante propinsi di salah salah salah salah salah salah salah salah salah salah salah salah salah sa	Manufacture.			
: RLERS			<u></u>	. u	ischaf@6	· · · · · · · · · · · · · · · · · · ·					The state of the s				
				/			\				Discharge Ser			-	
	4	/		4L		6	6	./						\dashv	
MARARET PER	MA TARE	ČP.		CA.	CK DAIL,	Cortaining to a	ORFR.	34	1	AEGIENCA .	Month of the				
CAP TO	1 "	200			"OA.	The state of		1200	3	Leve.	1 34.74				
The state of the s		્દ્ય	٠ .		(3		8		ENA			rous			
Paramater and (Code)	(1)			(2)		(3)	(4)	1		(5)	(6)	(7	1)		
Flow		,	2	Α	2B]		Ì	(1)	OTHR	1	· · · · · · · · · · · · · · · · · · ·		
(Gallenspier day) 12055 50050		н	10.	596	.720	11.316	6.6	24		14.400	J	ABS	3		
pH 00작(0	1			\exists		<u>.</u>			\dashv		OTHR				
60400			7.	8	7.5	8.8	8.	1 ່		10.9	(5)	ABS	3		
T irzture (Noor) (°F)											OTHR				
74028	•		3	6	58	69	5	4		88	(5)	AB	3		
Temperature (Summer) (°F). 74027				. 37	58	94	9	2		96	OTHR (5)	ABS	5		
23(1 6	2/1		SCHARGE CO	1				(0)	ــــــــــــــــــــــــــــــــــــــ			
				· ·		Jonatiae ad				1		· . •			
PARAMETER		PRESENT	ABSENT		P.	ARAMETER	. · ·	PRESENT	ABSENT	P	ARAMETER	in edger seen og seeks	PRESENT	ABSENT	
Color 00080	W	χ		Alun 0110	ninum 25		W	χ		Nickel 01067			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	χ	
Turbidity 00070	- (χ	-		mony .				χ	Selenium 01147				χ	
Radioactivity 74050		- /-	λ	Arce	nic				χ	Silver 01077	•			· x	
H. 55	v/	χ			llium	· · · · · · · · · · · · · · · · · · ·			χ	Potassium 00937		W	х		
Solids 00500		<i>,</i> χ	1.00	Baris 0100	บเก				χ	Sodium 00929		W	χ		
Ammonia ©0510	V	χ		Boro 0102	n	 			χ	Titanium 01152				χ	
Organic Nitrogen - 03605	W	χ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		nium				χ				Ċ.	χ	
Nisrota 0 0320	J 1	χ	y	Calci 0091		•	W	χ		Zinc 01092		1	χ		
Nitrite 00615	W	χ	((Coba 0103					χ	Algicides 74051		·		χ	
Phosphorus 00565	V	χ		Chro 0\03	mium 34	••			χ	Oil and Greas 00550	9	7	χ		
Sulfate 00945	Ý	χ		Cop 0	er			χ		Phenols 32730				χ	
Suifide 00745	Ċ	. χ		110n 0104			W	χ		Surfactants 33260		?	χ		
Sulfite 69740			χ	Lead 0109			la e		χ		lydrocarbons			х	. · .
Bromide 71870			χ	Magr 0092	nasium 27		W	χ		Pesticides 74053			/	χ	
Chlorida D0940			χ		canesa		W	χ		74054	cocci Bacteria	V	<i>,</i> χ		ĺ
Cyanida CO720	18	χ		Merc 7190					χ	Coliform Bac 74056	(eria	1/	χ		ĺ
Fluoride 80951	1/1	χ		Moly	bdenun 3	n			χ						

21	Hz sal	known hazardous or potentially nazardous substances in Electronic Filing: Received, Clerk's	your p	ant been in	nventoried? 2/2021 **AS 2021-05**
		Yos No			2021 - 115 2021 05
245.	If yes, i	nave steps been taken to insure that there exists no possibil	ity of	any such ki	nown hazardous or potentially hazardous substance entering
	this disc				
		Yes X No This is op	en f	lume.	
,	lemarks.	Ccl. 2A is-river water - Col.			l water.
	-		(6)	Calcu	lated maximum concentration times
(2	-	mpled 2 Times grab sample. mpled 3 Times grab sample.		avera	ge flow.
(4	F) Sa	mpled 4 times grab sample.		,	
(5) Sai	mpled 5 Times grab sample.			•
The i	tirity incl	on above completes the basic reporting requirements which uded within any of the Standard Industrial Classification (rare ra Code (S	curred of a	ll applicants. Those applicants whose discharge results from categories listed below must complete Part A of this form as
1					
*******		CRITICAL IND	USTF	HAL GR	OUPS
sic §	098 10-14	FISH HATCHERIES, FARMS, AND PRESERVES DIVISION 8 — MINING	SIC	235	PAINTS, VARNISHES, LACGUERS, ENAMELS, AND ALLIED PRODUCTS
SiG	201	MEAT PRODUCTS	SIC	2871	FERTILIZERS
	-	DAIRY PRODUCTS	SIC	2879	AGRICULTURAL PESTICIDES, AND OTHER AGRI-
ŞIC	202			. • ***	CULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED
SIC	203 -	CANNED PRESERVED FRUITS, VEGETABLES (EXCEPT SEAFOODS, SIC 2031 AND 2036)	SIC	2891	ADHESIVES AND GELATIN
ŞIG	2031, · 2036	CANNED AND CURED FISH AND SEAFOODS:	SIC	2892	EXPLOSIVES
.50	2030	FRESH OR FROZEN PACKAGED FISH AND SEAFOODS	SIC	29	PETROLEUM REFINING AND RELATED INDUSTRIES
SIC	204 .206 -	GRAIN MILL PRODUCTS	SIC	3011, 3069	TIRES AND INNER TUBES; FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC.	,206 207	SUGAR CONSECTIONARY AND DELATED PRODUCTS	SIC	3079	MISCELLANEOUS PLASTICS PRODUCTS
		CONFECTIONARY AND RELATED PRODUCTS	SIC	311	LEATHER TANNING AND FINISHING
SIC	208	BEVERAGES MISSELLANGOUS FORD RECEIVED AND AND AND AND AND AND AND AND AND AN	SIC	32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
SIC	209	MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS	SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS
Si		TEXTILE MILL PRODUCTS	SIC	332	IRON AND STEEL FOUNDRIES
SIC	23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	SIC	333, 3 34	PRIMARY SMELTING AND REFINING OF NON- FERROUS METALS; SECONDARY SMELTING AND
SIC	242	SAWMILLS AND PLANING MILLS			REFINING OF NONFERROUS METALS
SIC	2432	VENEER AND PLYWOOD	SIC	3 36	NONFERROUS FOUNDRIES
SIC	2491	WOOD PRESERVING	SIC .	347	COATING, ENGRAVING, AND ALLIED SERVICES
SIC	26	PAPER AND ALLIED PRODUCTS	SIC	35	MACHINERY, EXCEPT ELECTRICAL
SIC	281	INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)	SIC	36	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
SIC	2818	INDUSTRIAL ORGANIC CHEMICALS	SIC	37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
SIC	282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC	SIC	3731	SHIP BUILDING AND REPAIRING
- 1.00° - 1.00°		AND OTHER MAN MADE FIBERS, EXCEPT GLASS	sic	491	ELECTRIC COMPANIES AND SYSTEMS
SIC	283	DRUGS	SIC	493	COMBINATION COMPANIES AND SYSTEMS
SIC	284	SOAP, DETERGENTS, AND CLEANING PREP-	=# ^{##}	F1 3	
		ARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS			

Ī			- ()	\ //_								-	
	Ele	ectronic	Fili	ng: F	Received.	PA Clerk's	ART A Office 1	1/22/20	21 **AS	2021-0	5**		
	(Note: Submission of Part A on page 3 above.)							(Ollice	use only)		•		
``	ayad ahaa sabaan Arrin 1990 ahaa ahaa ahaa ahaa ahaa ahaa ahaa a	is and it is a superior superior to	• • • •		. Pagar a lakumba ngan wasayi (194 3)	e at Arazza <u>, graina — p asa</u> ,	en grandelijk kalendarije (d. 1811.). P			÷	ı	o Serial No	
ł			INF	ORM	ATION R	EQUIRE	OF SPE	CIFIED I	NDUSTR	ES	<u> </u>	800	
Ì	Intake	-	- y - y - y - b -				D	ischarge					<u> </u>
Ì	Can unan in	ha _t	120					1	$\overline{}$		$\overline{}$		
	AVG REATE AVG EAT	ED MUMC		EAGIN	An Total	CONCAL	ALEA	SAN	SAMPLE	0,4	12.00		
	PARAMETER AND CODE ALKALINITY (as Ca CO3)	Maximum Co CENTRACE WATER WATER	W.C.E.	13	Ma+INOS OF THE ON (3)	CONCENTOS OALUNOS	AVER PER PROPERTIES	ACE POUNDS	OAMPLE PLE TYPE	OF AND AND AND AND AND AND AND AND AND AND	CONTROL SES	TINUOUS ORING	
1	PARAMETER	ha AA	375	RATI	CANA CANA	Ox Mos	TON	Ar OND	. Lyk	ENCY	10%	1800	
	AND CODE	VIII 4 9	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			2A	2B			(6)						
	60410		67	268	99	.4638	(6) 9298	87	8171	AVER	OTHR (3)	S.M.	ABS
İ	7. 5-DAY					•							
-	60310					0505	(6)		666.5		OTHR		
-	CHEMICAL OXYGEN	-	2.4	18	T0.8	.0506	1014	7.1	666.9	AVER	(3)	S.M.	ABS
	DEMAND (C.O.D.)				Mar Madeson		(6)		•	. 	OTHR		
L	03340	<u></u>	12.0	2.7	87.0	.4076		51.4	4828	AVER	(5)	S.M.	ABS
ľ	TOTAL SOLIDS				<u>.</u>					table of the sec			
	M340		324	275	777	3 . 6403	(6) 72978	439	41232	AVER	OTHR (5)	S.M.	ABS
	TOTAL DISSOLVED SOLIDS											7/	
	70300		_	.			(6)				OTHR		
-	TOTAL SUSPENDED		200	256	201	.9417	18873	224	21038	AVER	(5)	S.M.	ABS
	SOLIDS						(6)				OTHR		
L	о ј		124	19	576	2 . 6986		,215	20193	AVER	(5)	S.M.	ABS
	TOTAL VOLATILE SOLIDS				:								
Í	00505		42	20	116	.5435	(6) 10895	57.4	5391	AVER	OTHR (5)	S.M.	ABS
I	AMMONIA (as N)				<i>3</i> 9								
	00610	•	C.			00.25	(6)	4.0	-	7.52=+	OTHR	*****	7.7.0
-	KJELDAHL NITROGEN		. 21	. 56	.79	.0037	74.2	• 40	37.6	AVER	(4)	FWQA	ABS
	00625					eff or a	(6)	*	* · ·		OTHR	•	-
		· 👌	.83	. 79	1.78	.0083		.974	82.1	AVER	·(5)	FWQA	ABS
1	NITRATE (as N) 00620		1,				,		0				te a s
			1 . 8	1.38	2.15	.0101	(6) 201.9	1.29	121.2	AVER	OTHR (5)	FWQA	ABS
ľ	PHOSPHORUS TOTAL												
	0.565 0.565		000	700	0.00	007.0	(6)	47.7	30 303	7 (217)	OTHR	1 mm	ADC
			.093	.105	.264	.0012	24.7956	.114	10.707	AVER	(4)	FWQA	ABS

Electr	onic Filing: R	eccived Cl	erk's Office	TI/22/2021	**AS 202	I-05**	
(Note: Submission of Part E also required to submit Part A. Indicated in the instructions are	is required of all a	applicants who a	ere (Office use only)	*		
	A. ton 2 200 Property and the control of the contro	· · · · · · · · · · · · · · · · · · ·		•		Discharge Sorial N	1.0
B-1. PHYSICAL	AND BIOLOGIC	AL PARAME	TERS OF INT	TAKE WATER	AND DISCH	ARGE (See Tabl	e B-1)
Intake				Discharge	-		
WINTAKA TEO TEO	Wrake Wareh	VERACE IDAILY)	OF PAINING ING SEAR!	OPERATING SEARI	SOLE FREOLENC	NT INVOUS MONITORIA	No
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)
COLOR _00080		W					
SPECIFIC CONDUCTANCE			•				
TURBIDITY ,40070		•		X			
FECAL STREPTOCOCCI BACTERIA 74054		•	4 3			OTHR (2)	ABS
FECAL COLIFORM BACTERIA 74055			4 3			OTHR (2)	ABS
TOTAL COLIFORM BACTERIA 74056					Annual desiration (Constitution of the Constitution of the Constit		
			•				
					· · · · · · · · · · · · · · · · · · ·		**************************************
			- Ta-			1	
		N. C. C. C. C. C. C. C. C. C. C. C. C. C.					72

ENG FORM

E	lectronic	Filing: Re	ceived, Cl	erk's Offic	e 11/22/2	021 **AS	-2021-05 *	*		<u> </u>	
			سخرونس فيستدونه فالمستدون						·		
The same of the participation of the same	··· pro · · · pro · · · pro · · · pro · · · · · · · · · · · · · · · · · · ·	nta ma	et di servicione Suma gne esce		(Office use on	(y)	, consisting the second				
				L		•					
· ·					. :		Discha	rge Ser OO:			
B-2.	CHEMICA	L PARAME	TERS OF	INTAKE W	ATER AND	DISCHAR	GE (See Tab	le B-2	<u> </u>		,-
Intake	1.0				Discharge						
Car to	1/2	1/20	1/2	Og.	4,		(//				
CANTREATED INTAKEN	TEO INTAKE W	NUM CONCENTRA	MANUA POUNDS FROM PROCESS UNION	CA DAIL & CA DAY	AVG. CONCERTA 8 OAX	PACK POUNDS PL	SAMOLE PROBLEM	ANTINUO OR NAS	Cr.	· ·	
ANE IS	ATER TEN	ATER TRA	TION CESS CAN	EHOAL OSPE	PDAY CENT	RATIO, TOS AR	A DAY EQU	ENC	Tage .	TCAIR	
PARAMETER CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		(11)
ACIDITY (as CaCO ₃) 00435	1				-						
TOTAL ORGANIC CARBON (T.O.C.) 00680					-						
X new			 	 	 	 	-	<u> </u>	ļ		
TOTAL HARDNESS 00900	<u>.</u>	W		**************************************							
กโรยเรีย (as N) 00615	-	W									
ORGANIC NITROGEN 00605		W	•								
PHOSPHORUS-ORTHO (as P) 70507		W									
SULFATE 00945	-	2A 2B	143	.5699	(1) 1,3430	0.4	70.00 5	-			
SULFIDE 10745	<u> </u>		4	. 5005	1042U	84	7889.5	A	0	W	A
ULFITE 0740				2.1							
ROMIDE 1870	0,					*	, 13				

Ele	etronie Fili	ng. Receiv	ed, Clerk'	s Office 1 PART B	1/22/2021	**AS 202	1-05**			-	
	•	P			Office use only	· · · · · · · · · · · · · · · · · · ·		THE RINGS CO.	***************************************	· · · · · · · · · · · · · · · · · · ·	
			• &	į.							
							Dischar 00		ial No.		
B-2. (cont.)	CHEMIC	AL PARAM	ETERS OF	INTAKE W	ATER AND	DISCHAR			·2)	······································	
Intake					Discharge		-	·			
	RATED INTAKE WA	Max, CONCENTRA, TEA	MUMPOUNOS PERION	DAILY DAILY ADAY	ALERA CONCENTRA	SAIN SAIN SAIN ATION	SAMOLE PRODUCTION OF STATE OF STATE OF SAMOLE PRODUCTION OF STATE OF SAMOLE PRODUCTION OF SAM	TINUO CE ANALY	15,1057, 16,15	To hint	
AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
CHLORIDE 00:40	J. September 1	2A 2B 23 3.9	27.9	.1301	2620.4	19.0	1784.5	7		÷.	
CYANIDE 00720		23,313	27.5	* 1301	2020.4	19.0	1784.5	A	0	W	A
FLUORIDE 00951		W					•				
ALUMINUM-TOTAL 01105		W		JI.			•				
ANTIMONY-TOTAL 01097											
ARSENIC-TOTAL 01002						13 14 A					
BARIUM-TOTAL 01007				•		-					
BERYLLIUM-TOTAL 01012				•		•				0	
BORON-TOTAL 01022	N 1 1 1 1.2 N					0					-
CADMIUM-TOTAL 01027					. <i>u</i>						0

		J		PARTB	11/22/2021	-,,,		***************************************			-
					(Office use ont				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
	Talent in in marabal a georgia en las.					•					
				Ĺ	*		Discha	rge Seri	al No.		
B-2. (cont.)	PUCSTIO	At Danas						00	8	· · · · · · · · · · · · · · · · · · ·	
Intske	CHEMIL	AL PAHAM	EIERS UF	INTAKE	WATER ANI	DISCHAR	IGE (See Ta	ble B	-2)		
					Discharge			······································	·		- 12
DIATRICATED INTAKE	A TEO INTAKE NA	Ung CONCENTRA!	A PLOS PROPERTY OF THE PROPERT	POAN POUNDS PL	AVG. CONCERNER.	SCE POUNDS PER	Sair Property Co.	Ministra State of Sta			
TEOM	EOM	Cing Co. L.	PASO.	Clin PO.	Aro. Co	CK D. S.	Saint Property Of Salas Saint	(16)			
Trake.	TAKE IN	ACEN'TA	100 C. C. C. C. C. C. C. C. C. C. C. C. C.	ONOS	ONCERT	NOS	(1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1		(S. O.)		
	A PER S	TEA TO	TON CHI	POAL	A DAY	Ario. CA	OR LE	Sec. 1	15.0	OP/	
PARAMETER	(1)	(2)	(3)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\\		1	ŧ	1 1	/	}_ } /
	+	\21	131	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11
CALCIUM-TOTAL 00916		2.1									C
		W 2A 2B			-						
CHROMIUM-TOTAL		2A 2B		• •							
01034		.we k.we	₹.006	NIL	₹.5635	2.006	₹. 5635	A	0	W	7
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LEAD-TOTAL 01051				•							
建筑和 核约约、2027基础等的表示。				· · · · · · · · · · · · · · · · · · ·		<u></u>			-		·
MAGNESIUM-TOTAL											
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01055		w	-						ř,		
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MERCURY-TOTAL 71900		74 H									
							Li-A				
MOLYODENUM-TOTAL				()						1	
01052							1				

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Elec	ctronic Fil	ing: I	Recei	ved, Clerk	s's Office	1/22/202	1 **AS 202	21-05**	······································	Total Maria	~	4.1
		,			PART B					•		
				•	(C	ffice use only)			· · · · · · · · · · · · · · · · · · ·		18
75 m	-			<u> </u>	.		-	Discharg 0(il No.		
B-2. (cont.)	CHEMICA	L PA	RAMI	ETERS OF	INTAKE W	ATER AND	DISCHAR	3E (See Tal	ole B-	2)		
Intaké				1, 3		Discharge					•	h
UNITREATED INTAKE N	RAXIMO INTAKE NA	IN CONC.	Matile ENTRA	ANA SING SPACOUNDS SESSIBILITY	DAILY A DUNDS PER	AVER CONCENTRA	St POUNDS PER	AND CONTRACTOR	THUOD ANAL	18 MOM 18 18	TORING	
PARAMETER AND CODE	(1)	(3		(3)	(4)	(5)	(6)	(7)	(8)	191	(10)	(11)
NICKEL-TOTAL 6:337										l l		
POTASSIUM-TOTAL 00937		V	1								<u> </u>	
SELENIUM-TOTAL 01147												
SILVER-TOTAL 01077											-	
SODIUM-TOTAL 00929		ľ.	7			•						
THALLIUM-TOTAL 01059												
TIN-TOTAL 01102												
TITANIUM-TOTAL 01152										•		
ZINC TOTAL 01092	•	2A .01	2B .01	•02	NIL	(1) 1.4	:02	1.4	A	0	W	A on
OIL AND GREASE 00550		©).		- (3)						e.		

Ele	etronie Fi	ling: Recei	ived, Cler	k 's Office	11/22/202	21 **AS 2()21-05**	THE PERSON NAMED IN	-		-
				PARTB	, , , , , , , , , , , , , , , , , , , 	 					-
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				· - · ·			Discharg	• Saria	i No.		
	—————————————					· ·		800			
B-2. (cont.)	CHE SIGN	L PARAMET	TERS OF I	NTAKE W	ATER AND	DISCHARG	E (See Tabl	e B-2)		
Intake					Discharge						-
CATREATED TREAT	EO IA TIME	Maxing PER	Ung And Hine	NA CAIL Y	NG. SLERK	Gran San	SAMARIE THOO	ENICO.	_		
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SURFACTANTS 38260			-		, , , , , , , , , , , , , , , , , , ,						
ALGICIDES* 74053				-							
CHLORINATED HYDRO- CARBONS* (EXCEPT PESTICIDES) 74952	•		•	-			•				
PESTICIDES* 74053	•				•		-				-
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			PART B			<u> </u>	
	4		(0)	ffice use only)			
Section 1.	en en en en en en en en en en en en en e				·		
			·			Discharge Serial	No.
	-			•	Sq.	00	
B-3. RADII	DACTIVE PARAL	METERS OF I	NTAKE WAT	ER AND DIS	CHARGE (See		
Intake	7,01.02	, 11,100 01 1		Discharge			
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				2	COA		
44	My To	VED OP	E.M. OR	A Star Star	TOLO TI	New York	
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PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)
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TRITIUM COUNTING ERROR				\times			
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Sampled 1 Time grab sample for analysis by See letter of June 15, 1972, copy attached. Intermittantly visible.

(3)

NVIRONMEN FALL ANALYSIS, Coffice 11/22/2021 ** AS 2021-05**.

ANALYTICAL CHEMISTRY-RESEARCH-FIELD STUDIES

8444 FLORISSANT ROAD, P.O. BOX 5742

ST. LOUIS, MO. 63121

June 15, 1972 Report No. 397 P.O. No. 64076

Mr. Harold Dorris Electric Energy Company Post Office Box 565 Joppa, Illinois 62953

REPORT OF ANALYSIS

Subject: Analysis of water and/or wastewater samples in accordance with "Standard Methods for the Examination of Water and Wastewater", 13th Edition, 7971.

Sample Identification:

10

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Sales .

(de

Results

#1 - Sample No. 008 for Fecal Coliform and Fecal Streptococci.

#2 - Sample No. 009 for Arsenic, Cadmium, Calcium, Copper, Lead, Iron, Manganese, Mercury, Nickel and Selenium.

of Analysis:	<u>Ø1</u>	<u>#2</u> / C)()
Arsenic, mg As/1		< 0.01	-
Cadmium, mg Cd/1	X	< 0.005	
Calcium, mg Ca/1	X	88.0	
Copper, mg Cu/l	×	0.014	
Lead, mg Pb/1	×	0.026	
Iron, mg Fe/I	×	0.28	
Manganese, mg Min/1	×	0.012	
Mercury, mg Hg/1	x :	< 0.0005	
Nickel, Eg Ni/l	×	< 0.01	
Selenium, mg Se/1	×	< 0.01	
Fecal Coliform, No./100 ml.	< 3	X	•
Fecal Streptococci, No./100 ml	. < 3		

Respectfully submitted,

J. F. Vogt, Director

JFV/ir

	-9		
	Electronic Filing: Rec	ceived, Clerk's Office 44792 2026 *	*****
4	Schedule		
1. Discharge describ	SECTION II. PLANT PROCESS AND DISCHARGE DESCRIPTION Sucharge described below is Surpensed new 2 implementation 100		
a. Present		schedule /L	672 OYE 2 600465 m
Name of corporate	boundaries within which the point		6. Discharge Serial No.
	State	County	
3,	Illinois	4. Massac	5. <u>N/A</u>
State the procing to	earing of the point of discharge	9 Name of waterway at the	point of discharge.
10 Has application	for water quality certification or	description of impact been made? If so, give da	ite:
	**************************************	Check if certificate N	
ф. /	.TIN 30 72	is attached to form	
	mo day yr		
111. Narra L'e descri			
	Discharge surface	drainage from area north o	of plant and also receives
	TIOW OF Supernatan	it fidura from active asir i	porter
			
)		130-93-2-	
•			
r e			
3	at .		
12. Standard indus	arial classification number.	13. Principal product.	
12. Standard indus			→ pdr day.
12. Standard indus			→ pdr day.
12. Standard indus			→ pdr day.
3	SIC 4911	Electric Power	20,047 MWH (gross)
3	SIC 4911	Electric Power 16. Amount of principal raw material consumed per day.	20,047 MWH (gross)
3	SIC 4911	Electric Power 16. Amount of principal raw material consumed per day.	20,047 MWH (gross) 17. Number of batch discharges per day.
3	SIC 4911	Electric Power 16. Amount of principal raw material consumed per day.	20,047 MWH (gross) 17. Number of batch discharges per day.
15. Principal raw n	SIC 4911 material. N/A	Electric Power 16. Amount of principal raw material consumed per day. N/A	20,047 MWH (gross) 17. Number of batch discharges per day.
15. Principal raw n	SIC 4911 material. N/A s per batch discharge.	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began.	20,047 MWH (gross) 17. Number of batch discharges per day.
15. Principal raw n	SIC 4911 material. N/A s per batch discharge.	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. A U G 0 1 5 3	17. Number of batch discharges per day. 0 20. Date discharge will begin. N/A
15. Principal raw n	SIC 4911 material. N/A s per batch discharge.	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. A U G 0 1 5 3	17. Number of batch discharges per day. 0 20. Date discharge will begin. N/A
15. Principal raw n	SIC 4911 naterial. N/A s per batch discharge. 0 s abatement practices.	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. A U G O 1 5 3 yr	20,047 MWH (gross) 17. Number of batch discharges per day. 0 20. Date discharge will begin.
15. Principal raw n	SIC 4911 material. N/A s per batch discharge. 0 abatement practices. Coal ash is sluice	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. A U G O 1 5 3 yr and to ash settling pond who	20,047 MWH (gross) 17. Number of batch discharges per day. 0 20. Date discharge will begin. N/A day yr ere fly ash and clinkers
15. Principal raw n	SIC 4911 naterial. N/A s per batch discharge. 0 abatement practices. Coal ash is sluice settle out and cle surface water drain	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. AUGOT day 53 wr ed to ash settling pond where water flows into discharge inage (if any) from area no	20,047 MWH (gross) 17. Number of batch discharges per day. 0 20. Date discharge will begin. N/A day yr ere fly ash and clinkers arge canal and mixes with orth of plant. Mixture
15. Principal raw n	SIC 4911 material. N/A s per batch discharge. Coal ash is sluice settle out and clessurface water drait then flows through	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. AUGOT day 53 wr ed to ash settling pond where water flows into discharge discharge power.	20,047 MWH (gross) 17. Number of batch discharges per day. 0 20. Date discharge will begin. N/A day yr ere fly ash and clinkers arge canal and mixes with orth of plant. Mixture
15. Principal raw n	SIC 4911 naterial. N/A s per batch discharge. 0 abatement practices. Coal ash is sluice settle out and cle surface water drain	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. AUGOT day 53 wr ed to ash settling pond where water flows into discharge inage (if any) from area no	20,047 MWH (gross) 17. Number of batch discharges per day. 0 20. Date discharge will begin. N/A day yr ere fly ash and clinkers arge canal and mixes with orth of plant. Mixture
15. Principal raw n	SIC 4911 naterial. N/A s per batch discharge. O abatement practices. Coal ash is sluice settle out and cle surface water draithen flows through charges to river.	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. AUGOLOSY mo day yr ed to ash settling pond where water flows into discharge in canal to small secondary	20,047 MWH (gross) 17. Number of batch discharges per day. 0 20. Date discharge will begin. N/A day yr ere fly ash and clinkers arge canal and mixes with orth of plant. Mixture settling pond and disc
15. Principal raw n	SIC 4911 material. N/A s per batch discharge. Coal ash is sluice settle out and clessurface water drait then flows through	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. AUGOLOSY mo day yr ed to ash settling pond where water flows into discharge in canal to small secondary	20,047 MWH (gross) 17. Number of batch discharges per day. 0 20. Date discharge will begin. N/A day yr ere fly ash and clinkers arge canal and mixes with orth of plant. Mixture
15. Principal raw n	SIC 4911 naterial. N/A s per batch discharge. O abatement practices. Coal ash is sluice settle out and cle surface water draithen flows through charges to river.	Electric Power 16. Amount of principal raw material consumed per day. N/A 9. Date discharge began. AUGOLOSY mo day yr ed to ash settling pond where water flows into discharge in canal to small secondary	20,047 MWH (gross) 17. Number of batch discharges per day. 0 20. Date discharge will begin. N/A day yr ere fly ash and clinkers arge canal and mixes with orth of plant. Mixture settling pond and disc

Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05**													
2.			ĭ		ON OF INTAK						, , , , , , , , , , , , , , , , , , , 		
intake				Discharge		. (0	ffice	use o	nly)				
		\		P ₁	6	6	· ·			Discharge Seria	l No.		
HARLAND THE STATE OF THE STATE	MARKE	EN TONE		ALERACE DAIL	OREN ANIMAN KA	O.R.R.	BOTING.	UMAEI	TAS MALE NO.	Walter Congression	2.		
Parameter end (Code)	(1)			(2)	(3)	8) (4)	,	M	(5)	(6)		7)	Ŷ
Flow (Gallons per day) 09958 50050	,		9.	.2B 782 .120	9.902	6.	572		(1) 14.400	OTHR		ABS	e e
1004∞ 1004∞			7.	8 7.5	10.4		8.4		11.0	OTHR (5)		ABS	
Temperature (Viinter) (°F) 24 028				36 58	55		38		66	OTHR (3)		ABS	
Temperature (Summer) (°F) 74027				37 58	78	.	70		83	OTHR (6)		ABS	
23,				ום	SCHARGE CO	NTENT	S		•				
PARAMETER	er en en en en en en en en en en en en en	PRESENT	ABSENT	P.	RAMETER	•	PRESENT	ABSENT -	P	ARAMETER		PRESENT	ABSENT
Color 70060	,		Х	Aluminum 01105		· .	-	χ	Nickel 01067 +.				χ
Turbidity 00070	•		χ	Actimony 01097	* .	· · · ·		χ	Selenium 01147				χ
Radioactivity 74050			χ	Arsenic 01002		i.		χ	Silver 01077				Х
Pardness 00900	N	χ		Beryllium 01012				χ	Potassium 00937		*	χ	
Solids 00500	1		χ	Barium 01007				X.	Sodium 00929		• •	χ	
Ammonia 00610 Orga(Jic Nitrogen	<i></i>		χ	Boron 01022		-		χ	Titanium 01152	_	: 		х
00605 Nitrate			χ	Cadmium 01027		<u>.</u>		χ	Tin 01102	· · · · · · · · · · · · · · · · · · ·		2 . 3	χ
00620 Nicrite	. J	χ		Calcium 00916		V	χ		Zinc 01092		•		χ
COG15 Phosphorus			χ	Cobalt 01037			<u> </u>	х	Algicides 74051				χ
00665 Sulfate	- 7	χ		Chromium 01034				χ	Oil and Greass 00550				X
00945 Sulfide	<u> </u>	χ		Copper 01042	· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>	Χ	Phenois 32730		\V		χ
00745			χ	1ron 01045		w/	<u> </u>	χ	Surfactants 38266 Chlorinated H	udencashoes			Х
90740 Bromide			χ	Lead 01051			<u> </u>	χ	74052 Pesticides	yorocaroons			χ
71870			χ	Magnesium 00927		<i>a</i> W	χ		74053	maki Pantaria		- 4	х
00940	V	Х		Manganese 01055			χ		Fecal Streptor 74054		; ;	χ	
00720			χ	Mercury 71900		ν'		χ,	Coliform Baca 74/356	2012) 1 s	χ	
Fluoride 00951	<u>.</u> []	x	g	Molybdanum	6 5 4			γ	T N			4 - 19 1	0

2	Ha vall	known Alectionic Filing; Receiveds Clerkin	s Affic	a. U/22	/2A2-le#*AS 2021-05**
		χ Yes No	•		
24b.	If yes, h this disc	ave steps been taken to insure that there exists no possib harge?	ility of a	ny such kr	nown hazardous or potentially hazardous substance entering
	Γ	X Yes No		•	
25 1	Remarks:				<u> </u>
0000	ol. 2A ol. 2B l) Es 2) Sa	is well water. (5) Sample timated. (6) Sample	led 5 led 6 ulate	times	
The an ac well.	ativity enale	re above completes the basic reporting requirements which add within any of the Standard Industrial Classification	:h are rec Code (S	quired of a IC Code) o	II applicants. Those applicants whose discharge results from ategories listed below must complete Part A of this form as
		CRITICAL IN	DHETE	HAL CD	nupe
	:	UNITICAL III	บบจเก	IIAL UNI	1013
SIC	098	FISH HATCHERIES, FARMS, AND PRESERVES	SIC	285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
SIC	10-14	DIVISION B - MINING	SIC	2871	FERTILIZERS
SIC	201	MEAT PRODUCTS	SIC	2879	AGRICULTURAL PESTICIDES, AND OTHER AGRI-
SIC	202	DAIRY PRODUCTS		•	CULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED
-ŞIC	203	CANNED PRESERVED FRUITS, VEGETABLES (EXCEPT SEAFOODS, SIC 2031 AND 2036)	SIC	2891	ADHESIVES AND GELATIN
SIC	2031, 2036	CANNED AND CURED FISH AND SEAFOODS;	SIC	2892	EXPLOSIVES
***	2030	FRESH OR FROZEN PACKAGED FISH AND SEAFOODS	SIC	29	PETROLEUM REF MING AND RELATED INDUSTRIES
SIC	204	GRAIN MILL PRODUCTS	SIC	3011.	TIRES AND INNER TUEES; FABRICATED RUBGER PRODUCTS, NOT ELSEWHERE CLASSIFIED
ŠIC	206	SUGAR	,	3069	MISCELLANEOUS PLASTICS PRODUCTS
ŠIC	207	CONFECTIONARY AND RELATED PRODUCTS	SIC	3079	LEATHER TANNING AND FINISHING
SIC	208	BEVERAGES	SIC	311	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
SIC	209	MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS	SIC	32 331	BLAST FURNACES, STUEL WORKS, AND ROLLING
SIC	22	TEXTILE MILL PRODUCTS		•	AND FINISHING MILLS
SIC	23	APPAREL AND OTHER FINISHED PRODUCTS	SIC	332	IRON AND STEEL FOUNDRIES
		MADE FROM FABRICS AND SIMILAR -MATERIALS	SIC	333, 334	PRIMARY SMELTING AND REFINING OF NON- FERROUS METALS: SECONDARY SMELTING AND REFINING OF NONFERROUS METALS
SIC	242	SAWMILLS AND PLANING MILLS	SIC	336	NONFERROUS FOUNDRIES
SIC	2432	VENEER AND PLYWOOD	SIC	347	CCATING, ENGRAVING, AND ALLIED SERVICES
SIC	2491	WOOD PRESERVING	SIC	35	MACHINERY, EXCEPT ELECTRICAL
SIC	26	PAPER AND ALLIED PRODUCTS	SI:	36	ELECTRICAL MACHINERY, EQUIPMENT, AND
SIC	281	INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)	-11		SUPPLIES
SIC	5018	INDUSTRIAL ORGANIC CHEMICALE	SIC	37	THANSPORTATION EQUIPMENT (EXCEPT SHIP

SIC

SIC

SIC

3731

491

493

SHIP BUILDING AND REPAIRING

ELECTRIC COMPANIES AND SYSTEMS

COMBINATION COMPANIES AND SYSTEMS

SIC 284 SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS

DRUGS.

SiC

SIC

282

283

PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MAN-MADE FIBERS, EXCEPT GLASS

	(- ;)		. *	75 m + 381 m		Ę	.)			-	
Electroni	c Filir	ıg: Re	eceived,	Clerk	Office 1	1/22/202	21 **AS	2021-0	5**		· · · · · · · · · · · · · · · · · · ·
(Note: Samission of Part A is required on page 3 above.)	red of a	II appl.	ants whose	processes a	ire listed	(Office u	se only)				4
Ou bake 2 annaeri	,	с ту∴ уд" кж ак	agan, ik padalah dipangan dan dalam sa	arrigi pina na anga tandaga y ga	ine i againgaile is i	<u>L</u>			Discharge S	Serial No.	
									00		
		ORMA	TION RE	QUIRED			DUSTRIE	:S	· · · · · · · · · · · · · · · · · · ·		
Intake					Dis	charge					
Cally Say all Pick Maximu	74	trance	120	00	AL		SPA		CS.	•	
PARAMETER AND COLE PARAMETER AND COLE ALKALINITY (as Ca CO ₃)	CONC	(A 24)	MA + IND CESS UNITED M (3)	CONCENT, ON CONCENT, ON COUNOS	A PER	GE POUNOS	SAMPLE	ST SW	THOO NITE	Williams	
TICENTA KE NYA	ENTER	TRA	EG SON A	ONSOLNO	SA YOU	OA PUNO	Tropy of	COLUENC	See /	Sales /	
PARAMETER ATTOMES	LAND!	10	W ₍₃₎	7 141	(5)	(6)	(7)	(8)	(9)	(10)	1111
Intake Intake	2A	2B	ì				1			1	
DG410		268	82	.3362	(7) 6730	74	6082	AVER	OTHR (3)	S.M.	ABS
B.O.D. 5-DAY	- 67	268	02	, 3302	6730	/ +	0002	HADIC	. (3)	0,111,	ADO
00310					(7)		355.5	7.77	OTHR	0.37	
	2.4	1.8	2,0	.0082	164	1.9	156.2	AVER	(2)	S.M.	ABS
CHEMICAL OXYGEN DEMAND (C.O.D.)					(7)				OTHR		
00340	120	2.7	.6	.0025		.4	32.9	AVER	(4)	S.M.	ABS
TOTAL SOLIDS					(7)				OTHR		
00500	324	1 275	548	2.2466	(7) 45038	410	33697	AVER	(5)	S.M.	ABS
TOTAL DISSOLVED SOLIDS				25							
70300	200	256	207	1.2422	(7) 24903	256	21040	7/17FB	OTHR (5)	S.M.	ABS
TOTAL SUSPENDED	20.	1:230	303	1.2422	. 4505	230	2.1046	714111	(3)	J.11.	
SOLIDS 00530			•	·	(7)				OTHR		_ 45.50
TOTAL VOLATILE	124	19	70	.2870	5753	44	3616	AVER	(5)	S.M.	ADS
SOLIDS				<u>.</u>	(7)	•		= = = = = = = = = = = = = = = = =	OTHR		3.70
00505	42	20	81	.3321	6657	52	4274	AVER	(5)	S.M.	ABS
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Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05** PART B (Office use only) Discharge Serial No. 009 CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2) B-2. (cont.) Discharge Intaka OAILY AVG. CONCENTRATION AVERAGE POUNDS PER DAY MASIMUM ADUNDS PER DAY WAXIMUM POUNDS PER DAY UNIREATED INTAKE WATER CONTINUOUS NOMITORING NAX IAUM CONCENTRATION TREATED INTAKE WATER METHODOS ANALYSIS SAMPLE PREQUENCY Sample rape PARAMETER (17) (6) (7) (8) (9) (10) (5) (4) AND CODE (1) (2) (3) NICKEL-TOTAL (1) 01067 <.01 **/.**8219 0 W Α Α POTASSIUM-TOTAL 00937 A 10.2 .0418 838.3 10.2 A 0 W 4.1 SELENIUM-TOTAL (1)₫**[**] 01147 <.8219 < .01 A 0 W A SILVER-TOTAL 01077 SODIUM-TOTAL 00929 24.0 .0984 1972.5 24.0 1972.5 À 0 W A 30.1 THALLIUM-TOTAL 01059 TIN-TOTAL 01102 TITAMIUNITOTAL 01152 2A 2B ZINC-TOTAL (2) 01992 0 W Α .01 .01 .01 .00004 .8219 A OIL AND GREASE 00550

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B-4. REMARKS COT	2A is river	water	Col Sa	l dis well wa	ten		
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Exhibit H

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY WATER POLLUTION CONTROL PERMIT

PERMIT NUMBER: 1973-EA-1458

DATE ISSUED: July 11, 1973

PROJECT LOG NUMBERS: 2343-73

SUBJECT: ELECTRIC ENERGY, INC. (JOPPA) - Ash Pond

TO CONSTRUCT AND OPERATE: Electric Energy, Inc.

P. O. Box 165

Joppa, Illinois 62953

Permit is hereby granted to the above designated permittee to construct and/or operate water pollution control facilities described as follows:

An ash pond for settling with pH control with an average flow rate of 7,000,000 GPD with discha ge to the Ohio River.

The final plans, specifications and supporting documents approved by this permit were prepared by Dr. Harry W. Gehm, R.P.E. and are identified in the records of the Illinois Environmental Protection Agency, Division of Water Pollution Control, Permit Section, by the log numbers designated in the subject heading above. This permit expires July 11, 1976.

The Standard Conditions of issuance of this permit are

itemized below.

L

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READ ALL CONDITIONS CAREFULLY:

STANDARD CONDITIONS

Petraining to both construction and optivation permits

- If any statement or representation is found to be inhedirect, this permit year be revoked and the permittee thereupon waives off rights thereunder.
- Quering or offer the observation or the installation of the immige works, any agent duty authorized by the Environmental Protection Agenty shall have the right to inspect such work and its operation.
- 3. This immence of the service (a) shall not be considered as in any manner affecting the little of the premises upon which the sensing works are to be located, this does not release the permittee from any inbility for damage to generate property countd by or resulting from the installation, maintenance or operation of the proposed senege works, (c) good not have into consideration the structural stability of any white or parts or the project, and (d) does not returned the property from the permittee from the permittee from the permittee from the permittee from the permittee of the filters of littless, are with applicable statutes of the filters of littless, are with applicable focal laws, regulations or ordinance;
- Treatment worse will be our responsible or interiment by a using auditive business worse operator certified under the Angulations of the Environmental Protection Agency
- 5. The treatment moths or wattenator course covered by this parmit shall be constructed and operated in compilance with the previous of the Environmental Protection Act and Chapter 3 of the Rules and Regulations as anspeed by the Illinois Pollution Central Board.
- Plans, specifications and other documentation themsted shall describe a pair of the application and usen approved shall constitute part of the permit.
- This Patrict may not be exigned or stockered without a new sermit from the Hirosz Environmental Presection Agency.

Personing only to construction permits.

- Trains shell be no deviations from the asserting plant and specifigations unless revised pears, specifications, and applications that first have been submitted to the Environmental Protection Agency and a supplemental wratten servers assert.
- 3. Unless at increase subjective Special Condition, construction must be epimpleted in three for some conditions and two years for assets and restorator pources.
- 4 Links use her chief by Special Condition, the insisting of this spenial shall be a join, with much and operation permit provided that
 - at All standard and Special Conditions, sin elemented with
 - This Agency is natural within ten (10) east, respectively, of the start of construction and the data of reizing and startup of full operation.
 - "el". The submission of operating reports of the treatment works covered "
 under this germit shall be as a frequency seported by this Aganay.
 - d) The operation permit shall expire one you from the date of start-up of operation.
 - of At least 90 days prior to the expiration date of the exerction permit, the permittee shall apply 55% a remail of the expression permit.

This permit is issued in accordance with the Illinois Environmental Protection Act of 1970 and the Chapter III Water Pollution Regulations adopted by the Illinois Pollution Control Board in March of 1972.

TRW/REB/Cj

cc: -EPA-Champaign Surveillance

-Dr. Harry W. Gehm

- -Massac County Health Dept.
- -Standards Section
- -Grant & Tax Certification

-Div. Water Resource Management

DIVISION OF WATER POLLUTION CONTROL

Ward L. Akers, Acting

Manager, Permit Section

Exhibit

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:)	
	j j	AS 2021-005
Petition of Electric Energy, Inc.)	(Adjusted Standard)
For a Finding of Inapplicability or, in the)	
Alternative, an Adjusted Standard from)	
35 Ill. Adm. Code Part 845)	

AFFIDAVIT OF KEEGAN MACDONNA

- I, Keegan MacDonna, certify under penalty of perjury pursuant to Section 1-109 of the Illinois Code of Civil Procedure, 735 ILCS 5/1-109, that the statements set forth in this affidavit are true and correct, and further state that if called upon to testify in this matter, I would competently testify as follows:
- 1. I am employed by the Illinois Environmental Protection Agency ("Illinois EPA" or "Agency") as an Environmental Protection Engineer III in the Industrial Permits Section ("IPS") of the Bureau of Water, and I am located in Springfield, Illinois. I have been employed by the Illinois EPA since November of 2019.
- I have a Bachelor of Science degree in physics from Illinois State University and a Bachelor of Science degree in mechanical engineering from the University of Illinois Urbana-Champaign.
- 3. As a permit engineer in the IPS, my duties include timely review of National Pollution Discharge Elimination System ("NPDES") permit applications and State construction and operating permit applications, including those for coal combustion residual ("CCR") surface impoundments under 35 Ill. Adm. Code Part 845. I am the permit engineer assigned to Joppa Energy Center ("Joppa Station") for all water pollution control permit activities.

- 4. I have reviewed the Petition of Electric Energy, Inc. ("EEI") for a Finding of Inapplicability or, in the Alternative, an Adjusted Standard from 35 III. Adm. Code Part 845 ("Petition").
- 5. I have personal knowledge of the facts set forth in Illinois EPA's Recommendation to the Board as stated below.
- 6. Attached to the Recommendation as Exhibit C ("Rec. Ex. C") is Form 2F of EEI's permit application for NPDES Permit No. IL0004171, submitted to Illinois EPA, along with the rest of the facility's NPDES permit renewal application dated January 29, 2020 and received February 3, 2020. This permit record is kept by the Illinois EPA in the regular course of business, and it is the regular course of business of the Illinois EPA to transmit the information thereof to be included in this record. NPDES permit application Form 2F for NPDES Permit No. IL0004171, submitted to Illinois EPA on February 3, 2020 and attached to the Recommendation as Exhibit C, is an exact duplicate of the original.
- 7. Attached to the Recommendation as Exhibit G ("Rec. Ex. G") is EEI's Application for Permit to Discharge or Work in Navigable Waters and Their Tributaries No. 072-0YE-2-000465 (Log #408-73), dated June 30, 1972 and submitted to USEPA and Illinois EPA for NPDES Permit No. IL0004171. This permit application is kept by the Illinois EPA in the regular course of business, and it is the regular course of business of the Illinois EPA to transmit the information thereof to be included in this record. Discharge Permit Application No. 072-0YE-2-000465 for NPDES Permit No. IL0004171, dated June 30, 1972 and attached to the Recommendation as Exhibit G, is an exact duplicate of the original.
- 8. Attached to the Recommendation as Exhibit H ("Rec. Ex. H") is Illinois EPA Water Pollution Control Permit No. 1973-EA-1458 to construct and operate the East Ash Pond, issued to EEI on July 11, 1973. This permit is kept by Illinois EPA in the regular course of business, and it

is the regular course of business of the Illinois EPA to transmit the information thereof to be included in this record. Construction Permit No. 1973-EA-1458, issued to EEI on July 11, 1973 and attached to the Recommendation as Exhibit H, is an exact duplicate of the original.

- 9. Attached to the Recommendation as Exhibit K ("Rec. Ex. K") is NPDES Permit No. IL0004171 issued to EEI on July 26, 1974. This permit is kept by Illinois EPA in the regular course of business, and it is the regular course of business of the Illinois EPA to transmit the information thereof to be included in this record. NPDES Permit No. IL0004171, issued to EEI on July 26, 1974 and attached to the Recommendation as Exhibit K, is an exact duplicate of the original.
- 10. Attached to the Recommendation as Exhibit L ("Rec. Ex. L") is Modified NPDES Permit No. IL0004171 issued to EEI on July 5, 1993. This permit is kept by Illinois EPA in the regular course of business, and it is the regular course of business of the Illinois EPA to transmit the information thereof to be included in this record. Modified NPDES Permit No. IL0004171, issued to EEI on July 5, 1993 and attached to the Recommendation as Exhibit L, is an exact duplicate of the original.
- 11. Attached to the Recommendation as Exhibit W ("Rec. Ex. W") is Modified NPDES Permit No. IL0004171 issued to EEI on July 27, 2017. This permit is kept by Illinois EPA in the regular course of business, and it is the regular course of business of the Illinois EPA to transmit the information thereof to be included in this record. Modified NPDES Permit No. IL0004171, issued to EEI on July 26, 2017 and attached to the Recommendation as Exhibit W, is an exact duplicate of the original.
- 12. The Joppa Station first obtained a permit to discharge wastewater into navigable waters from the United States Army Corps of Engineers ("USACE") on June 13, 1951, prior to the commencement of power generation at the facility in August 1953. Rec. Ex. G, p. 3.

- 13. Following the establishment of the Illinois EPA in July 1970, an application to discharge wastewater under the coverage of a National Pollutant Discharge Elimination System ("NPDES") Permit was submitted to the Agency and to USEPA on June 30, 1972. Rec. Ex. G.
- 14. The 1972 NPDES permit application lists the 1951 USACE discharge permit approval. Rec. Ex. G, p. 3. I have searched Illinois EPA records and the 1951 USACE discharge permit does not exist in any storage media that is readily queried.
- The 1972 NPDES permit application included the proposed discharge of "surface drainage from now discontinued ash disposal pond" through Outfall 001. Rec. Ex. G, p. 9. A state construction permit to construct the East Ash Pond (Permit No. 1973-EA-1458) was issued on July 11, 1973. Rec. Ex. H. Therefore, the referenced discontinued ash disposal pond in the 1972 NPDES permit application was the West Ash Pond, as no other ash disposal ponds exist at the site.
- 16. USEPA Region V issued NPDES Permit No. IL0004171 to the facility, with approval from Illinois EPA, on July 26, 1974. Rec. Ex. K. Ash pond discharges authorized by this permit were for the East Ash Pond only, not the West Ash Pond.
 - 17. No permits are on record showing approval of closure of the West Ash Pond.
- 18. Permits for the West Ash Pond, the construction/operation of the East Ash Pond, and the other aforementioned documents encompassing the years 1951 to 1974 are listed in Table 1, attached to Recommendation as Exhibit M.
- 19. EEI modified NPDES Permit No. IL0004171 in 1993 to allow for stormwater discharges from the "former ash pond" (Outfall 011) to the Ohio River. Rec. Ex. L Stormwater runoff from the West Ash Pond has been discharged to the Ohio River through Outfall 011 of the NPDES Permit since the permit was modified to include it on July 5, 1993.
- 20. Recommendation Exhibit N shows the Joppa Station in operation in October 1971.

 There is a pond to the northeast of the JWAP that is in the same location as the pond associated

with the discharge from Outfall 011 that NPDES Permit IL0004171 was modified to include in 1993. The pond functions to collect stormwater runoff from the JWAP and discharges to the Ohio River.

- 21. NPDES Permit No. IL0004171 currently authorizes discharge from the "former ash pond." Rec. Ex. W.
- 22. In January 2020, EEI submitted an NPDES renewal application for Permit No. IL0004171 to Illinois EPA. Section 4.2 of Form 2F indicates Outfall 011 (as well as the facility's two other stormwater outfalls) "have contact with or potential exposure to coal and coal combustion byproducts....." but that a SWPPP is in place. Rec. Ex C.

FURTHER AFFIANT SAYETH NOT

KEEGAN MACDONNA

DATE

State of Illinois County of Sangamon

Subscribed and Sworn to before

me this day of November 2021.

Notary Public

OFFICIAL SEAL

DAWN A. HOLLIS

NOTARY PUBLIC, STATE OF ILLINOIS

MY COMMISSION EXPIRES 03-21-2025

Exhibit

J

Electronic Filing: Received Clerk's Office 11/22/2021 **AS 2021-05**
RUN DATE: 11/24/88 ILLINOIS ENVIRONMENTAL PROTECTION AGENCY PAGE 515-A
PROGRAM: WPFSM019 DIVISION OF WATER POLLUTION CONTROL REPORT: WPFSP021
F/S/P INSPECTION REPORTS
MICROFILM JACKET INFORMATIOM

1. DIVISION CODE

2. FIPS COUNTY CODE

127

3. CITY/TOWNSHIP CODE

4. GOVERNING BODY CODE

5. NAME (FILE SUBJECT)

ELECTRIC ENERGY INC-JOPPA

7. F/S/P CODE

B-1202-A-

CROSS-REFERENCE INFORMATION

8. GOVERNING BODY NAME

*

ELECTRIC ENERGY INC.

9. NPDES NUMBER IL0004171



MEMORANDUM

TO:

DIVISION OF WATER POLLUTION CONTROL - SURVEILLANCE SECTION

FROM:

Armen Asaturians - Saline Sub-Unit

SUBJECT:

MASSAC COUNTY -- Electric Energy, Inc.

Joppa Power Plant
Water Pollution

RECEIVED SURVEILLANCE SECTION

DEC 13 1973

DATE:

70

November 14, 1973

ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS

On the above date, I made an inspection of the subject power plant for completion of the additional information form for the NPDES permit. Mr. Jesse Jacobs, the plant's Chief Mechanical and Chemical Engineer, accompanied me on a complete tour of the facilities. Electric Energy, Inc., owns and operates a coal-fired electric generating plant, with a rated capacity of 1,050,000 kilowatts. The present production is about 940,000 kilowatts per day, with a coal consumption rate of 10,000 tons per day. The plant currently employs about 350 people.

SINCE JUNE 30, 1971

June 30, 1971	Electric Energy,	Inc., submitted	its first ap	pplication to
	U. S. Army Corps 1899 Refuse Act	•	Louisville,	Kentucky, for
	1033 Refuse ACL	bermrr.		

July 11, 1971	The wr	iter	was	asked	to	prepar	e a	refer	ral	on	the	subject
· · · · · · · · · · · · · · · · · · ·	plant	for	any	possibl	.e 1	water p	013.1	ition	vio]	iati	ons.	,

August 12, 1971	The writer	prepared	and	submitted	а	referral	to	the	Division
	of Water Po	llution (Conti	rol.					

August 23, 1971	The referral was forwarded to the	Division of Legal Services.
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September 24, 1971 The referral was forwarded to the Attorney General's Of)ttice.
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May 8, 1972	Referral	and	forma1	complaint	was	returned	to	Agency	by
	Attorney	Gene	eral's (ffice.					

June 30, 1972	Ele	ect	ric En	nergy,	In	c., submitt	ted	revise	ed appli	cat:	ion to
	U.	S.	Army	Corps	of	Engineers	for	1899	Refuse	Act	permit.

July 11, 1973

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<u>July 26, 1972</u> Electric Energy, Inc., submitted Water Pollution Control program to Illinois Environmental Protection Agency.

October 18, 1972 Federal Water Pollution Control Act Amendments of 1972 were enacted. NPDES was established.

November 9, 1972

Illinois Environmental Protection Agency received June 30, 1972, permit application from USEPA to be used for NPDES permit purposes.

January 15, 1973

IEPA received a variance petition, filed by Electric Energy, Inc., seeking exemption from Rule 903(a) operating permits of Chapter 3. The variance petition was later withdrawn by the petitioner.

March 1, 1973

The Agency granted operating permits to Electric Energy Inc., for discharge points entitled #001, #003, #004, \$0.5, #006, #007, and #009. A permit for discharge #002 was not sought; because it was discovered that although this point was specified in the application to Corps of Engineers, it was clogged and no longer had a discharge. As a result of this clogging, the water which would ordinarily flow through #002 was diverted to discharge #008. The Agency denied the permit for discharge #008 on March 12, 1973.

May 17, 1973 The Agency issued an operating permit for discharge #008 (1973-EA-921-0P).

Agency issued three construction and operation permits for three new treatment facilities which were first proposed in July 26, 1972, Water Pollution Control program. The treatment facilities permitted on July 11, 1973, consist of:

- (A) 1973-EA-1457 -- A 4.2 acres settling lagoon designed to settle suspended solids and remove oil.
- (B) 1973-AB-1459 -- An extended aeration sewage treatment plant to treat sanitary waste, with effluent chlorination and final discharge to discharge #008.
- (C) 1973-EA-1458 -- An ash pond for settling bottom and fly ash with pH control equipment.

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The construction of the above-mentioned facilities has started; and according to Mr. Jacobs, the projected completion date is December 31, 1973 (weather permitting). The construction and operation of above facilities is designed to eliminate er alter some of the designated nine (9) discharge points, as explained below.

Point #001 -- This discharge has an average flow of 0.144 MGD and receives flow from the following areas: wash up from coal car dump system; wash water from locomotive shop; some surface drainage; coal storage yard runoff during heavy rainfall; and bottom ash overflows from boilers #5 and #6.

The overflow from #5 and #6 boilers mentioned above will be diverted to line #3 (presently tributary to Point #008), which is to be diverted to the new settling lagoon. All other wash up water and coal yard runoff will also be diverted to settling lagoon via either the piping system or the new coal yard drainage trench, east of the coal storage yard. After this work is completed, the only flow remaining in Point #001 will be uncontaminated surface water.

- Point #002 -- This is a 6" 8" steel pipe which was originally designed to drain the conveyor belt pits via two sump pumps. This line became clogged and has not had a discharge for a long time. The water accumulated in the sumps is being bypassed to line #3, which is presently tributary to discharge #008. Since line #3 is going to be diverted to the settling lagoon, Point #002 will be eliminated as a discharge point.
- Point #003 -- This is an 18" to 30" pipe which was designed to drain the western side of the coal storage yard. The pipe also receives drainage from coal crusher wash up operation. This discharge has an average flow of 0.096 MGD, with suspended solids concentration (mainly coal fines) exceeding 2,000 mg/l. This discharge will be diverted to the settling lagoon and therefore will be eliminated as a separate discharge.
- Point #004 -- This is the discharge of zeolite softeners which are used to prepare suitable water for the boilers. The system uses well water which is treated by the ion-exchange columns. The average flow is 0.08 MGD, with 0.33 MGD during regeneration cycle. The discharge has a low pH (≈2.0); high dissolved solids (≈2,900 mg/l); and a suspended solids content of 27 53 mg/l.

This flow will be diverted to the settling lagoon; therefore, Point #004 will be eliminated as a separate discharge.

- Point #005 -- This is the intake screen backwash water with an average flow of 3.72 MGD. No treatment is deemed necessary for this discharge at this time.
- Point #006
 Point #007
 These discharges consist of once-through condenser cooling water with total average flow of 540 MGD. A thermal discharge study conducted on September 10, 1970, by Agency personnel indicates compliance with present Chapter 3 Regulations. Area fishermen have reported good fishing conditions just downstream from the discharge.
- Point #008 -- There are six separate discharge lines to the concrete flume, which is designated as discharge #008, as follows:
 - (A) Two 4" sanitary waste discharges from three septic tank systems. These discharges will be converted to the new extended aeration plant which will be equipped with effluent chlorination. The discharge is expected to meet 30 mg/l of BOD and 37 mg/l of suspended solids, and 400/100 ml of fecal coliform.
 - (B) Line #2 drains below grade (basement) floor drains; equipment cooling water; backwash and regenerating water from iron filters; some oil from turbine generators oil cooling reservoir and some uncontaminated cooling water. Average flow is 8.35 MGD, with a suspended solids content of 361 mg/l. All the contaminated discharges to Line #2 will be separated and diverted to the settling lagoon and oil separation system. The rest will be only once-through cooling water, suitable for discharge to the Ohio River.
 - (C) Line #3 gets occasional bottom ash pit overflows from Boilers #1 through #4; floor drains in boiler area for above grade levels; surface drainage from turbine deck; overflow from coal crusher pit. The bottom ash overflow of Boilers #5 and #6, which presently go into discharge #001, are to be diverted to Line #3. Then, the entire flow in Line #3 will be diverted to the settling lagoon.
 - (D) Line #5 ~ The flow in this line entirely consists of cooling water and surface runoff from transformer yard, which needs no additional treatment. This flow enters discharge #008 through a 36" pipe.
 - (E) Line #6 This is a 24" pipe which carries only surface runoff from paved roads and gravel surface areas which need no additional treatment.

Point #009
-- This is the discharge of the existing ash pond which has a high pH of about 11.2; 42 mg/l of suspended solids; and an average flow of 7.04 MGD. A new ash pond has been constructed with effluent pH adjustment facilities. Sulfuric acid is to be used to reduce the pH to the acceptable range. The existing ash pond and therefore discharge #009 is to be abandoned. The new ash pond effluent will flow to the Ohio River via the natural watercourse, which, in the past, has been designated as discharge #001.

In the light of the above developments, it should be noted that the Electric Energy, Inc., will not have nine (9) discharge points as indicated on the original Corps of Engineers application, but rather six (6) points of discharge, as listed below:

- 1. Ash pond discharge (New)
- 2. Flume discharge (Old #008)
- 3. Settling lagoon (New)

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- 4. Intake screen backwash (01d #005)
- 5 & 6. Condenser cooling discharges (Old #006 and #007)

Although the past discharges (#001 through #009) did not all have the demonstrated capability of meeting all the applicable regulations, the newly proposed discharges are expected to be in compliance with all the water pollution regulations, as soon as construction work is completed and the new facilities are put into service.

During the survey on November 14, 1973, the writer collected two samples, as listed below:

Discharge #008

Lab No. A106195

pH BOD Suspended Solids Specific Conductance Fecal Coliform Ammonia (N) 8.0 4 mg/1 200 mg/1 500 micromhos 700/100 ml 0.13 mg/1

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MASSAC COUNTY -- Electric Energy, Inc. Page 6

Discharge #009

Lab No. A106196

р̂Н	9.4	
Suspended Solids	36 1	mg/1
Iron (Total)	1.23	ng/1
Specific Conductance	710 1	micromhos
Hardness	304 1	mg/1
Alkalinity	60 1	mg/1

The writer will make another visit to this plant as soon as the construction of the new treatment facilities is completed, which should be within the next several weeks.

Armen Asaturians, Supervisor

Saline Sub-Unit

Surveillance Section, DWPC

AA:cw 12-11-73

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cc: K. L. Baumann

DWPC - Permit Section

Exhibit K

W1270100600A ELECTRIC ENERGY INC-JOPPA /0774 13 1L0004171

Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05** INFORMATION TO BE CONTAINED UN NEDES MICROFILM JACKET

DWNERSHT	P CODE	* PR1

FACILITY TYPE: 0

1.	DIVISION CODE	~ ₩
z.	FIPS COUNTY CODE	127
ኝ •	CITY/TOWNSHIP CODE	010
4.	GOVERNING BULL SOOF	9690A
5.	PERMITTEE NAME (FILE SUBJ	IECTI
	ELFCTRIC ENERGY INC-JUPPA	0774
6.	FILE DIVISION	<u>13</u>
7.	NPDES NUMBER	IL0004171
	THER INFURMATION NEC	======================================
8.	GOVERNING BUDY NAME ELECTRIC ENERGY INC.	### ### ### ### ### ### ### ### ### ##
F/S	I/P CODE	च्या च्या च्या च्या च्या च्या व्याप्त प्रथम प्रथम च्या
10.	DATE IDENTIFIED IN THE FI	TELD REFERS TO:
	A. PERMIT ISSUE DATE	07-26-14
	B. PERMIT CANCELLATION	OATE
	C. NO PERMIT REQUIRED	DATE
11	. PERMIT EXPIRATION DATE	06-80-79

CERTIFIED MAIL

ENVIRONMENT OF MOTION ACTION ACTION DIV. OF WARR FOLLUTION CONTROL PERMIT SECTION 4 SPRINGERED

RETURN RECEIPT REQUESTED AS COMMISSIONS

JUL 2 6 1974

margine Permit James: 420/7

Mr. George A. Rice Vice President Electric Energy, Inc. # 408-73 Post Office Box 165 Joppa, Illinois 62953

Re: NPDES Permit
No. IL 0004171

Dear Mr. Rice:

Your application IL 072 OYE 2 000465 for a National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with Sections 402 and 405 of the Federal Water Pollution Control Act Amendments of 1972, (86 Stat. 816; Public Law 92-500, 33 U.S.C. 1251 et. seq.).

The enclosed NPDES Permit covers your operations which discharge into the Ohio River at Joppa, Illinois. All discharges from this facility shall be consistent with the terms and conditions of this permit.

Very truly yours,

ORIGINAL SIGNED BY JAMES O. McDONALD, James O. McDonald, Director

Enforcement Division

Enclosures
Permit
Reporting Forms

est Mr. W. H. Busch, Illinois Environmental Protection Agency, w/Permit

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Permit No. IL 0004171

Application No. IL 072 OYE 2 000465

AND THE STATE OF THE STATE OF THE STATE

AND THE STATE OF

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"),

ELECTRIC ENERGY, INC.

408-73

is authorized by the United States Environmental Protection Agency, Region V, to discharge from a facility located at Joppa, Illinois

to receiving waters named the Ohio River

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

This permit shall become effective on the date of issuing authority's signature.

This permit and the authorization to discharge shall expire at midnight, June 30, 1979 . Permittee shall not discharge after the above date of expiration. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information, forms, and fees as are required by the Agency authorized to issue NPDES permits no later than 180 days prior to the above date of expiration.

Signed this JUL 2 6 1974

true;

Ţ,

Director, Enforcement Division

MONITORING REQUIREMENTS

PART I

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS A.

EFFLUENT CHARACTERISTIC

During the period beginning on the effective date of this permit and lasting until June 30, 1979 the permittee is authorized to discharge from outfall(s) serial number(s) 001. 7.

DISCHARGE LIMITATIONS

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

EFFLUENT CHARACTERISTIC			C 1131 17 11 10.	(c-aaifu)		
EFFEDERI CHARACTERIZOTZO	kg/day (1	lbs/day)	Other Units	(Specify)	Measurement	Sample
	Daily Avg	Daily Max	Daily Avg	Daily Max	Frequency	Type Cartinuous duri
Flow M ³ /Day (MGD) Suspended Solids Oil & Grease Total Dissolved Solids Total Iron Total Lead Total Cadmium	-	-	10 mg/1 - - -	15 mg/l 15 mg/l 4750 mg/l 2.0 mg/l 0.05 mg/l 0.01 mg/l 1.0 mg/l	Monthly Monthly Monthly Monthly Quarterly Quarterly Quarterly Quarterly	sampling 24 hour composi Grab 24 hour composi 24 hour composi 24 hour composi 24 hour composi 24 hour composi
Total Manganese	-	-	-	1 4 25 80 Dit 1	,	

The pH shall not be less than 6.0 nor greater than 9.0 and shall be monitored by weekly grab samples.

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

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At a point representative of the discharge but prior to entry into the Ohio River.

Compliance with the numerical effluent standards is not required when effluent concentrations in the excess of the standards result entirely from influent contamination, evaporation; and/or the incidental addition of trace materials not utilized or produced in the activity that is the source of the waste.

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Permit No: IL 0004171

If the permittee after manitoring for at least 6 months determines that he is consistently meeting the affluent limits contained in Part I, A (1), the permittee may request of the Regional Administrator and the Director that the monitoring requirements be reduced to twice or once per year or be eliminated. Upon written notification by the Regional Administrator and the Director, the permittee will monitor as directed.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning on the effective date of this permit and lasting until June 30, 1979 the permittee is althorized to discharge from outfall(s) serial number(s) 005- intake screen wash.

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

EFFLUENT CHARACTERISTIC	DISCHARGE			MONITORING REQ	<u>UIREMENTS</u>
LITEOLAT GIARAGIERAS. 20	kg/day (1bs/day)	Other Units	(Specify)	Measurement	Sample
	Daily Avg Daily Max	Daily Avg	Daily Max	Frequency	Type
Flow-M ³ /Day (MGD)		• • • • • • • • • • • • • • • • • • •	-	Daily	· -

There shall be no discharge of debris from intake screen washing operations.

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

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At a point representative of the discharge but prior to entry into the Ohio River.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning on the effective date of this permit and lasting until June 30, 1979 the permittee is authorized to discharge from outfall(s) serial number(s) 006 & 007.

The total of the discharges from all of these outfalls shall not exceed the limitations specified below. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
2. 1 202	kg/day	(lbs/day)	Other Units	s (Specify)	10	Cample
	Daily Avg	Daily Max	Daily Avg	Daily Max	Measurement Frequency	Sample <u>Type</u>
Flow-M3/Day (MGD)	•	-	<u>-</u>	-	Continuous	.
Temperature	•			-	Continuous	****
Total Chlorine Residual		-	-	* 0.2 mg/1	Weekly	Grab

*To be determined in the discharge channel after mixing of discharges 006 and 007.

The pH shall not be less than 6.0 nor greater than 9.0 and shall be monitored by weekly grab samples.

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

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At a point representative of the discharge but prior to entry into the Ohio River.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning on the effective date of this permit and lasting until June 30, 1979 the permittee is authorized to discharge from outfall(s) serial number(s) 008 - aeration tank effluent.

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

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS		
	kg/day	(lbs/day)	Other Units	(Specify)	Measurement	Sample
	Daily Avg	Daily Max	Daily Avg	Daily Max	Frequency ·	Type
Flow-M ³ /Day (MGD)	· -	€>	•	- ,	Measure when s	ampling
BOD ₅			*30 mg/1	45 mg/l	Monthly	24 hour compositi
Suspended Solids Fecal Coliform	-	-	*30 mg/1 200/100 ml	45 mg/1 400/100 m1	Monthly Monthly	24 hour composite Grab

*Or 85% removal, whichever is less.

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

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

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At a point representative of the discharge but prior to entry into the Ohio River.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

5. During the period beginning on the effective date of this permit and lasting until June 30, 1979 the permittee is authorized to discharge from outfall(s) serial number(s) 008.

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

EFFLUENT CHARACTERISTIC			LIMITATIONS	40 10 1	MONITORING RE	ONTKEWEN 12
	kg/day	(1bs/day)	Other Units	(Specify)	Measurement	Sample
	Daily Avg	Daily Max	Daily Avg	Daily Max	Frequency ·	Type
Flow-M ³ /Day (MGD)	•/ •/ •	_	. :	 ,	Measure when s	sampling
Oil & Grease	-		10 mg/1	15 mg/T	Monthly .	Grab
Suspended Solids	÷ ·	 ·	· too	15 mg/l	Monthly	24 hour composite

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

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

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At a point representative of the discharge but prior to entry into the Ohio River.

Compliance with the numerical effluent standards is not required when effluent concentrations in excess of the standards result entirely from influent contamination, evaporation, and/or the incidental addition of trace of material not utilized or produced in the activity that is the source of the waste.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

6. During the period beginning on the effective date of this permit 3 and lasting until June 30, 1979 the permittee is authorized to discharge from outfall(s) serial number(s) 010.

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

EFFLUENT CHARACTERISTIC		DISCHARGE	LIMITATIONS	4.5	MONITORING REQUIREMENTS		
EFFEDENT CHARACTERISTIC	kg/day Daily Avg	(lbs/day) Daily Max	Other Units Daily Avg	(Specify) Daily Max	Measurement <u>Frequency</u> .	Sample <u>Type</u>	
Flow-M ³ /Day (MGD)		عد ا		- .	Measure when sa	mpling	
Oil & Grease Suspended Solids	-	- -	10 mg/1 -	15 mg/l 15 mg/l	Monthly Monthly	Grab 24 hour composit	

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

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

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At a point representative of the discharge but prior to entry into the Ohio River.

Compliance with the numerical effluent standards is not required when effluent concentrations in excess of the standards result entirely from influent contamination, evaporation, and/or the incidental addition of trace of materials not utilized or produced in the acitivty that is the source of the waste.

PART I

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B. MONITORING AND REPORTING

1. Representative Sampling

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

2. Reporting

Monitoring results obtained during the previous three months shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), posteriked no later than the 28th day of the month following the completed reporting period. The first report is due on October 28, 1974. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the State at the following addresses:

U. S. Environmental Protection Agency Region V, Enforcement Division ATTN: Chief, Compliance Section 1 North Wacker Drive Chicago, Illinois 60606

Environmental Protection Agency State of Illinois Division of Water Pollution Control 2200 Churchill Road Springfield, Illinois 62706 Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05**
PART I

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3. Definitions

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- a. "Daily Average" Discharge
 - 1. Weight Basis The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
 - 2. Concentration Basis The "daily average" concentration means the arithmetic average (weighted by flow value) of all the daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily determination of concentration shall be the arithmetic average (weighted by flow value) of all the samples collected during the calendar day.
- b. "Daily Maximum" Discharge
 - Weight Basis the "daily maximum" discharge means the total discharge by weight during any calendar day.
 - 2. Concentration Basis the "daily maximum" concentration means the daily determination of concentration for any calendar day.

PART I

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Permit No. IL 0004171

4. Test Procedures

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

5. Recording of Results

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

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

6. Additional Monitoring by Permittee

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

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the State water pollution control agency.

PART I

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Permit No. IL 0004171

C. SCHEDULE OF COMPLIANCE

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

Alternative schedule providing for off stream cooling facilities in conformance with the requirements of Section 301 of the Act.

Completion of Preliminary Plans by - December 31, 1975 June 30, 1976 Final Plans by Contract Awarded by September 30, 1976 - December 31, 1976 Commencement of Construction by Progress Report June 30, 1977 Progress Report - March 31, 1978 - December 31, 1978 Progress Report *Progress Report September 30, 1979 *Completion of Construction by March 31, 1980 *Attainment of Operational Level by - June 30, 1980

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

*These dates are included in the schedule of compliance to alert the Permittee to the proposed requirements for off-stream cooling as set forth in 39 Federal Register 8294-8307 (March 4, 1974).

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Permit No. IL 0004171

PART II -

A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

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

2. Noncompliance Notification

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

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

3. <u>Facilities Operation</u>

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

PART II

Page 14 of 20

Permit No. IL 0904171

4. Adverse Impact

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

5. Bypassing

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

6. Removed Substances

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

7. Power Failures

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

- a. In accordance with the Schedule of Compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities;
- or, if no date for implementation appears in Part I,
- b. Halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of one or more of the primary sources of power to the wastewater control facilities.

PART II ·

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Permit No. IL 0004171

B. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the head of the State water pollution control agency, the Regional Administrator, and/or their authorized representatives, upon the presentation of credentials:

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

2. Transfer of Ownership or Control

In the event of any changes in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Regional Administrator and the State water pollution control agency.

3. Availability of Reports

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the State water pollution control agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

4. Permit Modification

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

PART II

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Permit No. IL 0004171

- a. Violation of any terms or conditions of this permit;
- Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. Toxic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Part II, A-5) and "Power Failures" (Part II, A-7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. 'Dil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

PART 11

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Permit No. IL 0004177 .

9. Property Rights

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

10. <u>Severability</u>

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

PART III

OTHER REQUIREMENTS

1. THERMAL LIMITATIONS AND MONITORING REQUIREMENTS

Beginning with the effective date of this permit and lasting until June 30, 1979, the permittee is authorized to discharge from outfalls 006 & 007 a heated effluent which shall at no time raise the natural temperature of the Ohio River more than 2.8° C (5° F) at the edge of a mixing zone which shall not exceed the area of a circle with a radius of 183 meters (500 feet). In addition, the water temperature outside the mixing zone shall not exceed the maximum limits in the following table during more than one percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature outside the mixing zone exceed the maximum limits in the following table by more than 1.7° C (3° F):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	<u>oct</u>	NOV	DEC
ol:	10.0	10.0	15.6	21.1	26.7	30.6	31.7	31.7	30.6	25.6	21.1	13.9
oC	50	50	60	70	80	87	89	89	87	78	70	57

The mixing zone shall not extend over more than 25% of the cross-sectional area of the river.

The permittee shall determine the 2.8°C (5°F) contour, the contour of the applicable monthly maximum temperature, and the areas within these contours at three month intervals for a period of one year after the effective date of this permit. After the initial year of measurements, the permittee shall continue to determine these contours and areas every three months but may use estimating procedures based on the first year's data. The results of these determinations shall be reported to the Regional Administrator and the Illinois EPA on a quarterly basis.

If, as a result of the above thermal monitoring, the permittee determines that compliance with the above thermal limitations is not acheived at all times, the permittee shall, within 60 days, submit a schedule for compliance with the above thermal restrictions by July 1, 1977.

By August 31, 1974 the permittee shall submit to the Regional Administrator for approval a plan of study for the investigation of the effects of the heated effluent on the ecology of the receiving waters. After one year of study the permittee shall submit annual status reports. In addition, a summary status report of this study shall be submitted as a part of the application for renewal of this permit.

PART III

All data and records associated with this study shall be retained in their entirety by the permittee and shall be made available subject to the request of the Regional Administrator and/or the Illinois Environmental Protection Agency.

The permittee shall report the quarterly average load factor for the plant along with other monitoring data.

2. THERMAL DISCHARGE WAIVER

Permittee has requested a waiver of requirements for off-stream cooling under the provisions of Section 316(a) of the Act. By August 31, 1974, the permittee shall submit a plan of study to show that the requirements of off-stream cooling are not necessary to assure protection and propagation of a balanced indigenous population of fish, shellfish, and wildlife on and in that body of water. Semi-annual interim reports will be submitted, and the study will be completed and a report submitted to the Regional Administrator by not later than December 31, 1975. Results from the first year of the investigation of the thermal effects upon the ecology man be utilized as part of the requirement for this demonstration.

Development of the demonstration shall be guided by the draft "Proposed Guidelines for Administration of the 316(a) Regulations" as proposed by the U.S. EPA.

3. INTAKE STRUCTURES

Within fourteen months of the effective date of this permit, the permittee shall submit a report to the Regional Administrator and the Illinois Environmental Protection Agency providing proposals for measures to be taken by the permittee to meet the requirements of Section 316 of the Act for the best cooling water intake technology available. The report shall contain a detailed demonstration that the proposed measures will minimize the adverse environmental impact and a summary of monitoring data collected to determine the effects of the present intake on the various species and life stages of fish. Such monitoring data shall also be submitted quarterly with other reports.

Development of the report shall be guided by the "Development Document for Best Technology Available for Minimizing Adverse Environmental Impact of Cooling Water Intake Structures" as proposed by the U.S. EPA.

If the permittee represents his existing system or some minor modification of it, or best available technology, the monitoring program shall include at a minimum a tabulation of all fish trapped by the present intake structure. This tabulation shall be performed every fourth day (or according to some other schedule requested by the applicant and approved by the Regional Administrator and the Illinois Environmental Protection Agency within 15 days after the effective date of this permit). The tabulation shall begin within 30 days after the effective date of this permit and ending within one year of the

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PART III

the effective date of this permit and shall include the number, weight, size, and species of each fish entrapped.

The report shall be evaluated with regard to Section 316(b) of the Act. As a result of this evaluation, the Regional Administrator may modify the permit in accordance with Part II.B.4. to establish an implementation schedule to insure compliance with Section 316(b).

4. ADDITIONAL REPORTING OF MONITORING TO ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Monitoring results obtained during the previous one month shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 15 th day of the month following the completed reporting period. The first monthly report is due on September 15, 1974. The signed reports required herein, shall be submitted monthly to the State at the following address:

Environmental Protection Agency State of Illinois Division of Water Pollution Control 2200 Churchill Road Springfield, Illinois 62706

Exhibit -

W1270100600A ELECTRIC ENERGY INC-JOPPA

Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05**

INFORMATION TO BE CONTAINED ON NPDES MICROFILM JACKET

		OWNERSHIP CODE:	PRI FACILITY TYPE: 3
	1.	DIVISION COOR	Ä
	2.	FIPS COUNTY CODE	127
	3.	CITY/TOWNSHIP CODE	010
	4.	GOVERNING BODY CODE	A000C
	5.	PERMITTEE NAME (FILE S	UBJECTO
.		ELECTRIC ENERGY INC-JO	PPA / 0793
	6.	FILE DIVISION	<u>/3</u>
2 5	7.	NPDES NUMBER	IL0004171
3==== -			NECESSARY FOR CROSS-REFERENCING
c 4 4		GOVERNING BODY NAME ELECTRIC ENERGY INC.	
= 4	F/S	/P CODE	5 - 1 2 0 2 - A
	10.	DATE IDENTIFIED IN THE	FIELD REFERS TO:
		A. PERMIT ISSUE DATE	07-05-93
		B. PERMIT CANCELLATION	ON DATE
		C. NO PERMIT REQUIRE	D DATE
	44		

Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05**

2200 Churchill Road, Springfield, IL 62794-9276

Mary A. Gade, Director

217/782-0610

July 5, 1993

Electric Energy, Inc. Post Office Box 165 Joppa, Illinois 62953

Re: Electric Energy, Inc. Electric Energy, Inc. NPDES Permit No. IL0004171

Modification of NPDES Permit (After Public Notice)

Gentlemen:

The Illinois Environmental Protection Agency has reviewed the request for modification of the above-referenced NPDES Permit and issued a public notice based on that request. The final decision of the Agency is to modify the Permit as follows:

Include three new outfalls for storm water runoff and incorporate special conditions involving treated storm water and a Storm Water Pollution Pollution Prevention Plan (SWPPP).

Enclosed is a copy of the modified Permit. You have the right to appeal this modification to the Illinois Pollution Control Board within a 30 day period following the modification date shown on the first page of the permit.

Should you have any question or comments regarding the above, please contact Fred Rosenblum of my staff.

Very truly yours,

Thomas G. McSwiggin, PÆ. Manager, Permit Section

Division of Water Pollution Control

TGM: FR: ct, 1282v, 10

Attachment: Modified Permit

cc: Records

fornes/

Marion Region

USEPA CAS

NPDES Permit No. IL0084171

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Mcdified (NPDES) Permit

Expiration Date: August 1, 1994

Issue Date: October 20, 1989 Effective Date: November 19, 1989 Modification Issue Date: July 5, 1993 Modification Effective Date: July 5, 1993

Name and Address of Permittee:

Electric Energy, Incorporated Post Office Box 165 Joppa, Illinois 62953

Facility Name and Address:

Electric Energy, Incorporated Joppa Generating Station Post Office Box 165 Jeppa, Illinois 62953 (Massac County)

Discharge Number and Name:

No. 001 Ash Pond Discharge

Receiving Waters

Ohio River

Unramed tributary to the Ohio River

No. 005 Intake Screen Backwash

No. 006 Condenser Cooling Water Units 1-4 No. 007 Condenser Cooling Water Units 5-6

No. 008 Flume Discharge

No. 008(a) Sewage Treatment Plant Effluent No. 008(b) Boiler Blowdown

No. 010 Settling Lagoon Discharge No. 011 Storm water runoff from former ash pond No. 012 Storm water runoff from railroad car unloading facility

No. 013 Storm water runoff from railroad car unloading factity and berm of an ash pond

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

> Thomas 6. McSwigg P.E. Manager, Permit Section

Division of Water Pollution Control

TGM:TRK:FLR:jd/sp/1449d

Modification Date: July 5, 1993

NPDES Permit No. IL0004171

Effluent Limitations and Monitoring

	LOAD LI 1bs/d		CONCENTRAT	actures.	A COLUMN TO	
PARAMETER	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
1. From the effectischarge(s) shall	ctive date of I be monitore	this permit until Au d and limited at all	gust 1, 1994, t times as follo	the effluent ows:	of the foll	lowing
	This dischar	No. 001 Ash Pond Di ge consists of:		Approximate	Flow	
	1. Bottom a 2. Air heat	sh and fly ash sluic er wash water Nizer regenerant was		8.5 MGD Intermitter 0.04 MGD	nt	
	 Deminera Central 	water treatment buil	ding floor dra		Intermitte	nt
Flow (MGD)					1/Week	Calcu- lation
pH Total Suspended	See Special	Condition No. 1	15.0	30.0	1/Week 1/Week	Grab 24-Hour Composite
Solids Oil and Grease			15.0	20.0	1/Month	Grab
	Outfall(s):	No. 005 Intake Scre	en Backwash	Approximate	Flow 0.08	MGD
Flow (MGD)					1/Month	Calcu- lation
There shall be n	o discharge o	f collected debris of	her than trace	amounts.		
	Outfall(s):	006 Condenser Cooli 007 Condenser Cooli	ng Water Units ng Water Units	1-4 5-6 Approximate	F1ow 460 M	GD
Flow (MGD)					Continuous	
pH Total Residual Chlorine	See Special See Special	Condition No. 1 Condition No. 5		0.2	1/Week 2/Month	Grab Concen- tration Curve
Temperature	See Special	Condition No. 3			Continuous	
**See Special Co	ndition No. 1	3				

Modification Date: July 5, 1993

NPDES Permit No. IL0004171

Effluent Limitations and Monitoring

	LOAD LI			TS mg/1		
PARAMETER	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
1. From the effe discharge(s) sha	ctive date of 11 be monitore	this permit until A	ugust 1, 199 1 times as f	4, the effluc ollows:	nt of the foll	owing
	Outfall(s):	008 Flume Discharg	je*			
	1. Sewage 1 2. Boiler 1 3. Auxilian 4. Yard sto	rge consists of: treatment plant eff blowdown ry cooling water dis orm drains t floor drains		Approxima 0.042 MGD Intermitt 1.1 MGD Intermitt Intermitt	ent .	
Flow (MGD) pH Oil and Grease	See Special	Condition No. 1	15.0	20.0	1/Week 1/Month 1/Month	Estimate Grab Grab
	Outfall(s):	008(a) Sewage Trea	atment Plant	Effluent**	Approximate 0.042 MGD (DMF 0.060	
Flow (MGD)					Continuous	Calcu-
pH BOD ₅	See Special 15.0	Condition No. 1 30.0	30.0	60.0	1/Month 1/Month	Grab 24-Hour Composite
Total Suspended	15.0	30.0	30.0	60.0	1/Month	24-Hour Composite
Solids Fecal Coliform	See Special	Condition No. 7			1/Month	Grab
*See Special Con **See Special Co	dition No. 12 Indition No. 1	3				

Modification Date: July 5, 1993

NPDES Permit No. IL0004171

Effluent Limitations and Monitoring

	LOAD LI 1bs/d	7.7		TRATION		
PARAMETER	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
1. From the effective discharge(s) shall	ctive date of	this permit unt d and limited a	il August 1, 199 t all times as 1	4, the efflue	ent of the fol	lowing
	Outfall(s):	008(b) Boiler	31 awdown		Approximate 0.016 MGD	Flow
Flow (MGD)					Continuous	Calcu- lated
Total Suspended Solids			15.0	30.0	1/Month	8-Hour Composite
	This dischar 1. Coal pil 2. Coal red 3. Coal car 4. Crusher 5. Main pla 6. Bottom a 7. Potable 8. Potable regenera 9. North pl	No. 010 Settlinge consists of: e runoff laim pit summp p dumper drains house floor drains ish hopper overf water filter ba water iron filt ite waste ant area storm y equipment coo	ump discharge ins lr- ckwash er backwash and drainage	arge**	Approximate Intermitte Intermitte O.5 MGD 1.7 MGD 1.0 MGD Intermitte Intermitte Intermitte	nt nt nt
Flow (MGD) pH Total Suspended Solids*	See Special	Condition No. 1	15.0	.30.0	Continuous 2/Week 1/Week	Grab 24-Hour Composit
Oil and Grease			15.0	20.0	1/Month	Grab

Compliance with the numerical effluent concentration is not required when effluent concentrations in excess of the standards result entirely from influent concentration, evaporation and/or incidental addition of traces of materials not utilized or produced in the activity that is the source of the waste. If credit for the background concentration is requested the following determinations shall be made and reported:

- 1. Determine the total suspended solids of the river water (sample to be taken after the duplex filter).
- Determine the total flow of river water used for non-contact cooling going to the settling lagoon.
- 3. Determine the total flow from the settling lagoon (Outfall 010).
- 4. Determine the total suspended solids of the se'tling lagoon effluent.
- 5. Determine the adjusted effluent concentration limit.

^{**}See Special Condition No. 13

Modification Date: July 5, 1993

NPDES Permit No. IL0004171

Effluent Limitations and Monitoring

LOAD LIMITS

The state of the s

1. From the effective date of this permit until August 1, 1994, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): No. 611, 012 and 013*

*See Special Condition No. 12

Modification Date: July 5, 1993

NPDES Permit No. IL0004171

Special Conditions

- 1. The pH shall be in the range of 6.0 to 9.0.
- Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.
- 3. Thermal Discharge: Electric Energy Incorporated may operate Joppa Generating Station with a once—through cooling water system as long as thermal discharges from this facility do not exceed those levels associated with maximum power production capacity existing on February 22, 1977 (1.086 megawatts).
 - A. The permitted shall report the monthly average load factor and the monthly maximum power production.
 - B. Condenser cooling water temperature data shall be reported on DMR's as: the monthly average temperature of the discharge, the maximum daily discharge temperature recorded for the month and the minimum daily discharge temperature recorded for the month.
- 4. If effluent monitoring cannot be completed for Outfall No. 008 during periods of continued flooding (Ohio River elevation 324.0 or greater) the Ohio River elevation shall be reported.
- 5. Chlorine may not be discharged from each unit's main cooling condensers for more than two hours in any one day. Samples taken for chlorine monitoring purposes may be taken in the condenser cooling water discharge bay at a point representative of the discharge but prior to confluence with the rivers edge.
 - A. The reported mean concentration and maximum concentration for Total Residual Chlorine shall be based on a chlorine concentration curve generated during the respective chlorination period of a pair of units randomly selected for each monitoring period. Chlorine concentration curves shall be submitted along with the monthly Discharge Monitoring Reports. The time samples were collected, the time and duration of the chlorine dosing period plus the amount of chlorine applied shall be reported.
 - B. Electric Energy, Inc. shall provide this Agency an evaluation of station compliance with BAT and BPT chlorine limitations at 40 CFR 423 if present chlorination practices are increased. Present circulating water chlorination practices are: Duration: six minutes injection/unit/every four hours Dosage: maximum 4500 lbs/day total chlorine usage.

 If present circulating water chlorination is increased, this permit is subject to modification to reflect BPT or BAT limits, whichever is more stringent.
- There shall be no discharge of chemical metal cleaning agents and associated rinses unless this permit has been modified to include the new discharge.
- 7. The daily maximum fecal coliform count measured once per month shall not exceed 400/100 ml.
- 8. There shall be no discharge of polychlorinated biphenyl compounds.
- 9. Electric Energy, Incorporated demonstration for the Joppa Generating Station in accordance with Section 316(b) of the CWA was approved by this Agency by letter dated April 12, 1979. It is determined that no additional intake monitoring or modification is required for reissuance of this NPDES permit.
- 10. Electric Energy Incorporated demonstration for the Joppa Generating Station in accordance with Section 316(a) of the CWA was approved by the Illinois Pollution Control Board in Order 77-124 dated September 1, 1977. It is determined by this Agency that no modification is required for reissuance of this NPDES permit.
- 11. The permittee shall record monitoring results on Discharge Monitoring Report forms using one such form for each discharge each month.

The completed Discharge Monitoring Report forms shall be submitted to IEPA, postmarked no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

Discharge Monitoring Reports shall be mailed to the IEPA at the following address:

Illinois Environmenta' Protection Agency Division of Water Pollution Control 2200 Churchill Road Springfield, Illinois 62706

Attention: Compliance Assurance Section

Modification Date: July 5, 1993

NPDES Permit No. IL0004171

Special Conditions

12. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR OUTFALLS 008, 011, 012 and 013

- A. A storm water pollution prevention plan shall be developed by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the lerms and conditions of this permit.
- B. The plan shall be completed within 180 days of the effective date of this permit. Plans shall provide for compliance with the terms of the plan within 365 days of the effective date of this permit. The owner or operator of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request.
- C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph G of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the Agency for review upon request.
- E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:
 - A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.

2. A site map showing:

- i. The storm water conveyance and discharge structures;
- ii. An outline of the storm water drainage areas for each storm water discharge point;
- iii. Paved areas and buildings;
- iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
- v. Location of existing storm water structural control measures (dikes, Afterings, detention facilities, etc.);
- vi. Surface water locations and/or municipal storm drain locations
- vii. Areas of existing and potential soil erosion;
- viii. Vehicle service areas;
- ix. Material loading, unloading, and access areas.

Modification Date: July 5, 1993

NPDES Permit No. IL0004171

Special Conditions

- A narrative description of the following:
 - The nature of the industrial activities conducted at the site, including a
 description of significant materials that are treated, stored or disposed of in a
 manner to allow exposure to storm water;
 - ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;
 - iv. Industrial storm water discharge treatment facilities;
 - v. Methods of onsite storage and disposal of significant materials;
- A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.
- An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
- 6. A summary of existing sampling data describing pollutants in storm water discharges.
- F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:
 - Storm Water Pollution Prevention Personnel Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.
 - Preventive Maintenance Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.
 - Good Housekeeping Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
 - 4. Spill Prevention and Response Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
 - 5. Storm Water Management Practices Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
 - Containment Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;
 - Oil & Grease Separation Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;
 - Debris & Sediment Control Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges;
 - iv. Waste Chemical Disposal Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.

Modification Date: July 5, 1993

NPDES Permit No. IL0004171

Special Conditions

- Storm Water Diversion Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination;
- vi. Covered Storage or Manufacturing Areas Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
- Sediment and Erosion Pravention The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion and describe measures to limit erosion.
- 7. Employee Training Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
- 8. Inspection Procedures Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.
- G. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
- H. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.
- I. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures.
- The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.

REPORTING

- K. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part G of the Storm Water Pollution Prevention Plan of this permit. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).
- L. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- M. Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section Annual Inspection Report 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 62794-9276

N. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

Modification Date: July 5, 1993

NPDES Permit No. IL0004171

Special Conditions

13. The Agency has determined that the effluent limitations in this permit constitute BAT/BCT for storm water which is treated in the existing treatment facilities (Outfalls 001, 008(a) and 010) for purposes of this permit reissuance, and no pollution prevention plan will be required for such storm water. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a storm water discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated storm water discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.

Electronic Filing: Received, Clerk's Office 11/22/2021 **AS 2021-05**

ATTACHMENT H

Standard Conditions

Definitions

Act means the Minois Environmental Protection Act, Ch. 111 1/2 III. Rev. Stat., Sec. 1001-1051 as Amended.

Agency means the Binois Environmental Protection Agency.

Board means the Minnis Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Poliution Control Act) means Pub. L. 92-500, as amended, 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and ressuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Distry Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sempling. For pollutants with limitations expressed in units of mass, the "darly discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a celendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Allowet means a sample of specified volume used to make up a total composite sample

Grato Sempte means an individual somple of at least 100 milliflers collected at a randomlyselected time over a period not exceeding 15 minutes.

24 Hour Composits Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8 Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 millisters, collected at periodic intervals during the operating hours of a faculity over an 8-hour period.

Flow Proportions) Composite Sample means a combination of sample aliquots of at feast 100 misliters collected at personic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

- (1) Duty to comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit terrimistion, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- (2) Duty to reapply, if the permittee wishes to continue an activity regulated by this permit after the experation date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.
- (3) Need to helt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to helt or reduce the permitted acts. , in order to mainteen compliance with the conditions of this permit.
- (4) Duty to mitigate. The permitter shall take all masonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- (5) Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and existent of treatment and control fand related appartenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes affective performance, adequate funding, adequate operation and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when netreasary to achieve compliance with the conditions of the permit.

- (6) Permit sections. This permit may be modified, revoked and taleaued, or terminated for cause by the Agency pursuant to 40 CFR 122,62. The filing of a request by the permittee for a permit modification, revocation and releasance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- (7) Property rights. This permit does not convey any property rights of any sort, or any exclusive privilege.
- (8) Duty to provide information. The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause astrate for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency, upon request copies of records required to be kept by this permit.
- (9) Inspection and entry. The permittee shall allow an authorized representative of the Agency, upon the presentation of credentials and other documents as may be required by law, to:
 - (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit:
 - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect of reasonable times any facilities, equipment finducting municonstant and control equipment), practices, or operations regulated or reculouder this permit; and
 - (d) Sample or monitor at ressonable times, for the purpose of assuring permet compliance, or as otherwise authorized by the Act, any substances or parameters at any location.
- (10) Monitoring and records
 - Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - (b) The permittee shell retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the data of this permit, measure nent, report or application. This period may be extended by request of the Agency at any time.
 - (c) Records of monitoring information shall include:
 - (1) The date, exact place, and time of sampling or measurements;
 - 2) The individual(s) who performed the sampling or measurements:
 - (3) The date(s) analyses were performed:
 - (4) The individual(s) who performed the analyses;
 - (5) The analytical techniques or methods used; and
 - (6) The results of such analyses.
 - (d) Montoring must be conducted according to test procedures approved under 40 CFR Part 138, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agercy a test method for approved. The permittee shall calibrate and perform maintenance, procedures on all monitoring and analytical instrumentation at intervaensure accuracy of measurements.
- (11) Signatory requirement, All applications, reports or information submitted to tra-Agency shall be signed and certified.
 - (a) Application. All permit applications shall be signed as follows:
 - [1] For a corporation: by a principal executive officer of at least the level of vice president or a person or position having oversal responsibility for environmental matters for the corporation;
 - (2) For a pertnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - (3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
 - (b) Reports. All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (s) or by a duty authorized representative of that person. A person is a duty authorized representative only if:
 - The authorization is made in writing by a person described in paragraph (a); and
 - (2) The authorization specifies either an individual or a position re-consists for the outrall operation of the facility, from which the discharge originates, such as a plant inanege: superintendent or person of equivalent responsibility; and
 - (3) The written authorization is submitted to the Agency.

(c) Changes of Ausherization. If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of bit must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.

(12) Reporting requirements.

- (a) Plannad Changes. The permittee shall give notice to the Agency as soon as possible of any plannad physical attentions or additions to the permitted facility.
- (b) Anticipred nercompliance. The permittes shall give advance notice to the Agency of any planned changes in the pennitted facility or potivity which may result in noncompliance with permit requirements.
- (c) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interior and final requirements consided in any compliance schedule of this permit shell be submitted no later thim 14 days following each schedule date.
- (d) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.
 - Monitoring results must be reported on a Discharge Monitoring Report (DMR).
 - (2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - (3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.
- (c) Twenty-tour hour reporting. The permittee shall report any noncompliance which may endanger health or the anvisonment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. An written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and stape taken or planned to reduce, eleminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24 hours:
 - Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - (2) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit to be reported within 24 hours:

The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

- (f) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (12)(c), (d), or (e), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12)(e).
- (g) Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall gromptly submit such facts or information.
- (13) Transfer of permits. A permit may be automatically transferred to a new permittee it:
 - The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;
 - (b) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees; and
 - (c) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the exempter.
- (14) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:
 - (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - '1) One hundred micrograms per liter (100 up.1):

- (2) Two hundred micrograms per liter (200 ug/I) for acrotoin and acrylonitrile; five hundred micrograms per liter (800 ug/II for 2,4distrophenol and for 2-methyl-4,6-distrophenol; and one milligram per liter (1 ms/I) for antimona;
- (3) Five (5) times the maximum concentration value reported for that pollurant in the NPDES permit application; or
- (4) The level established by the Agency in this permit.
- b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.
- (15) At Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:
 - (a) Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Claan Water Act if it were directly discharging those pollutants; and
 - (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
 - (c) For purposes of this paragraph, adequate notice shall include information on (ii) the quality and quantity of ethusin introduced into the POTW, and (iii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
- (16) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:
 - User charges pursuant to Section 2040al of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;
 - (2) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and
 - (3) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.
- (17) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that affluent standard or limitation is more stringent than any affluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and relieved to conform to that affluent standard or limitation.
- (18) Any authorization to construct issued to the permittee pursuant to 35 M. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.
- (19) The paymittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.
- (20) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 308, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to access \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 308, 307, or 308 of the Clean Water Act is subject to a fine of not loss than \$2,500, nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both.
- (21) The Clean Water Act provides that any person who fabrifies, tempers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by impresoment for not more than 6 months per violation, or by both.
- 122) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintened under this permit shell, including monitoring reports or reports of compliance or non-compliance shell, upon conviction, be purished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- (23) Collected screening, slurries, studges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes for runoff from the wastes! into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.
- (24) In case of conflict between these standard conditions and any other condition(s) encluded in this permit, the other condition(s) shall govern.
- (25) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 IX. Adm. Code, Subtitle C. Subtitle D. Subtitle E, and all applicable orders of the Board.
- (26) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.

(Rev. 12-1-56)



Exhibit M

Table 1 Summary of Permits Issued 1951 to 1974

Illinois Environmental Protection Agency Recommendation in AS 2021-005

Electric Energy, Inc's Petition For A Finding of Inapplicability, or in the Alternative, an Adjusted Standard from 35 III. Admin. Code Part 845 *Illinois Environmental Protection Agency, Bureau of Water*

Date of	Expiration				
Approval	Date	PermitID	Permitted Activity	Ponds Associated with Activity	Ex. #
				First discharge permit issued to the	
6/13/1951			Army Corps of Engineers Discharge Permit	facility.	G by ref.
				Outfall 001 is listed as discharging surface	
		IL072-OYE-2-	Army Corps of Engineers Discharge	drainage from "discontinued ash disposal	
		000465, Log#408-	Permit/NPDES Permit Application for	pond", must be West Ash Pond based on	
6/30/1972		73	West Ash Pond.	date of document.	G
				East Ash Pond, still in use today. The	
				projected completion date was 12/31/73,	
				so it is implied that the West Ash Pond	
			Permit to construct an ash pond for	was still in use until at least the end of	
7/11/1973		1973-EA-1458	settling bottom and fly ash	'73.	Н
11/14/1973			Memo from Saline Sub-Unit to DWPC Surveillance Section	States that discharge from existing ash pond (West Ash Pond) was permitted under an operating permit (dated 3/1/73) as discharging from "Point #009". Clarifies that West Ash Pond discharge will be discontinued and the pond abandoned due to construction of the East Ash Pond.	1
11/14/13/3				due to construction of the East Ash Pond.	J
			Discharge of wastewater including	First recorded issuance of an NPDES	
7/26/4074	6/20/4070	U 0004171	discharge from Outfall 001 (East Ash		1/
7/26/1974	6/30/19/9	IL0004171	Pond)	permit for the facility	K

Notes:

Permits issued were issued by the IEPA unless otherwise indicated.

Summary of Permits issued is limited to 1951 to 1974.

Approved permits after 1974 do not provide evidence of an approved closure of the West Ash Pond.

Exhibit N



Exhibit O



Exhibit P



Exhibit

Q



Exhibit R



Exhibit

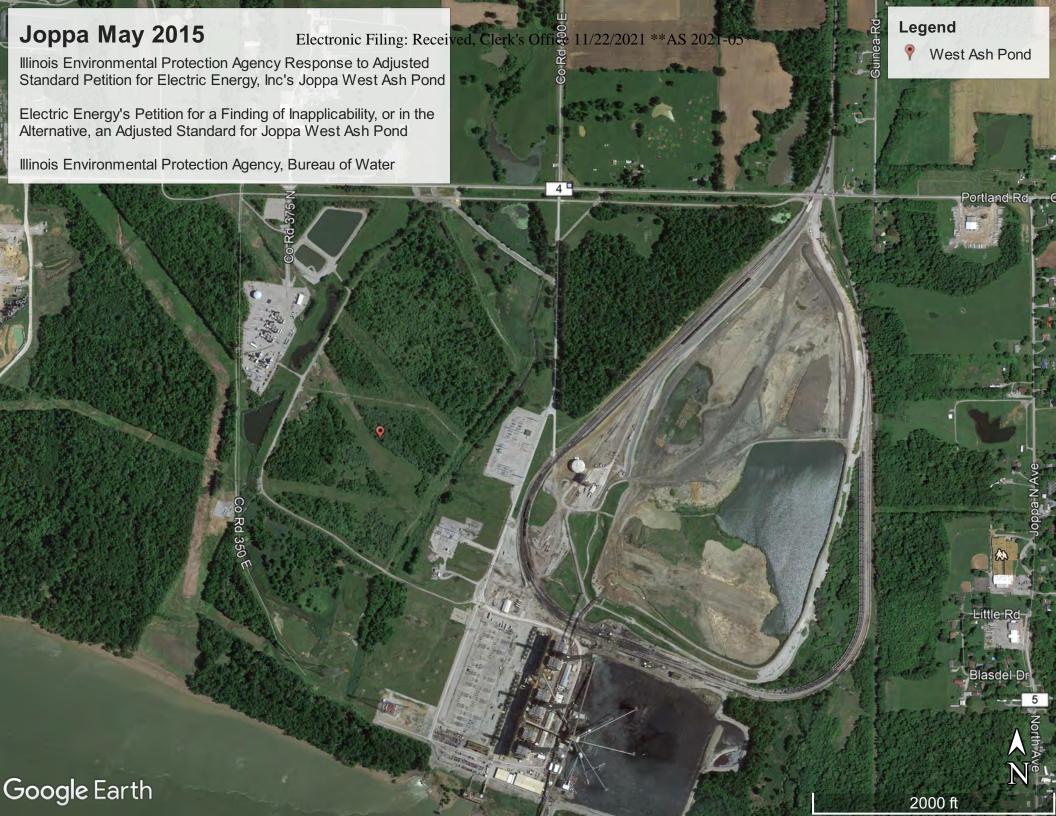


Exhibit T



Exhibit U

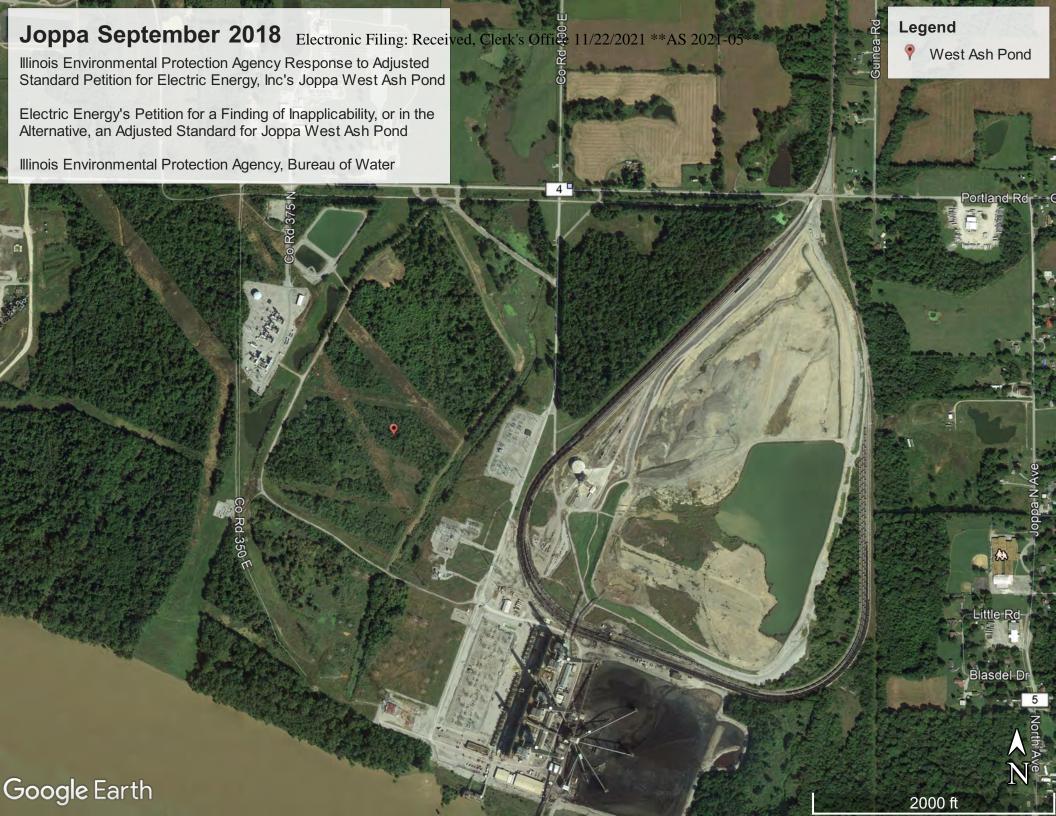


Exhibit V

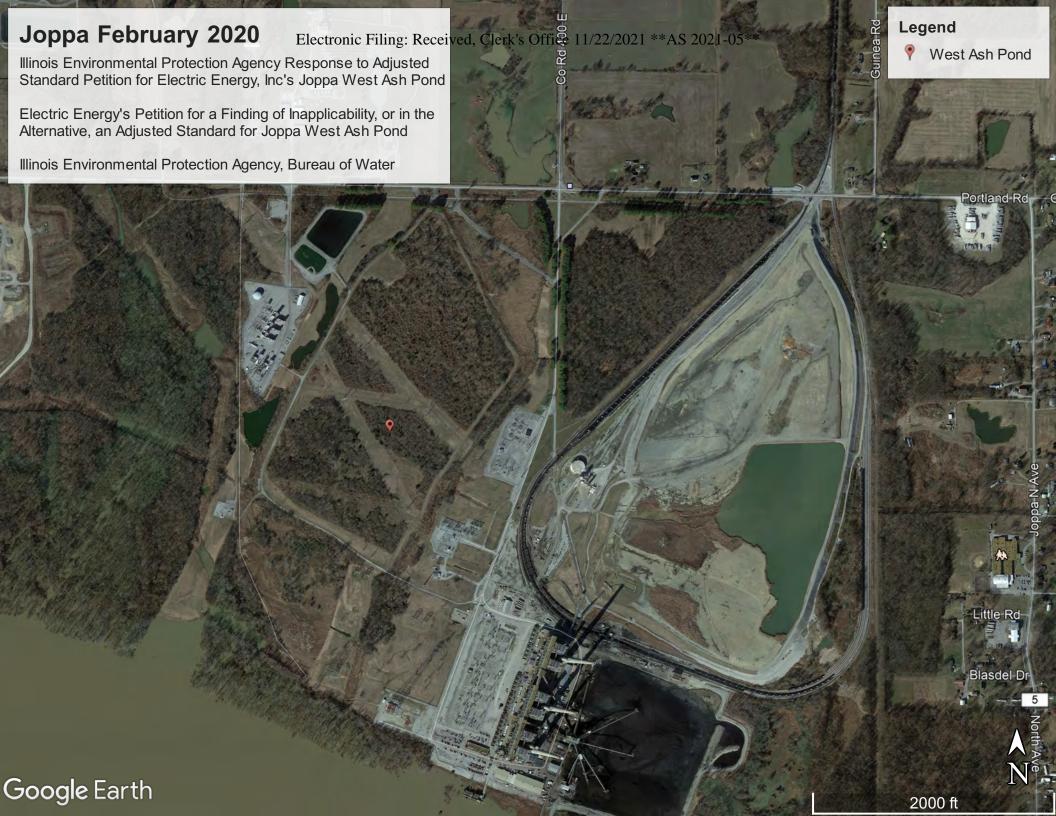


Exhibit W



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397 BRUCE RAUNER, GOVERNOR ALEC MESSINA, ACTING DIRECTOR

217/782-0610

July 26, 2017

MAJOR

Electric Energy, Inc. Water and Waste Permitting / Environmental Compliance 1500 Eastport Plaza Drive Collinsville, IL 62234

· Re:

Electric Energy, Inc. - Joppa Energy Center

NPDES Permit No. IL0004171

Modified Permit

Gentlemen:

The Illinois Environmental Protection Agency has reviewed the request for modification of the above-referenced NPDES Permit and issued a public notice based on that request. The final decision of the Agency is to modify the Permit as follows:

- 1. Internal outfall B08, Boiler Blowdown, was removed.
- 2. Internal outfall A10, Metal Cleaning Waste (Non-Chemical Only), was removed.
- 3. Added outfall 008, Flume Discharge (Interim Wastestreams and Limitations).
- 4. Added outfall 008, Flume Discharge (Final Wastestreams and Limitations).
- 5. Added outfall 010, Settling Lagoon Discharge (Interim Wastestreams and Limitations).
- 6. Added outfall 010, Settling Lagoon Discharge (Final Wastestreams and Limitations).
- 7. Revised Special Condition 22.
- 8. The flow sampling frequency for outfall 014 was revised.
- 9. The flow monitoring type for outfalls 006 and 007 was revised.
- 10. The sampling frequency for molluscicide was revised at outfalls 001, 006, 007, 008, and 010.
- 11. Added Special Condition 25 to clarify when the interim and final waststreams and limitations applied at outfalls 008 and 010.

Enclosed is a copy of the modified Permit. You have the right to appeal this modification to the Illinois Pollution Control Board within a 35 day period following the modification date shown on the first page of the permit.

IEPA - DIVISION OF RECORDS MANAGEMENT REVIEWER: JMR

Should you have questions concerning the Permit, please contact Leslie Lowry at 217/782-0610.

Sincerely,

Alan Keller, P.E.

Manager, Permit Section

Division of Water Pollution Control

SAK:LRL:14100901.docx

Attachment: Final Permit

Records Unit cc:

Compliance Assurance Section Marion Region





Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Modified (NPDES) Permit

Expiration Date: July 31, 2020

Issue Date: July 30, 2015 Effective Date: August 1, 2015 Modification Date: July 26, 2017

Name and Address of Discharger:

Name and Address of Facility:

Electric Energy, Inc. Water & Waste Permitting / Environmental Compliance 1500 Eastport Plaza Drive

Collinsville, Illinois 62234

Electric Energy, Inc. Joppa Energy Center 2100 Portland Road Joppa, Illinois 62953 (Massac County)

Discharge Number and Name:

Receiving Waters

001	Ash Pond Discharge	Unnamed Tributary to Ohio River
005	Intake Screen Backwash	Ohio River
006	Condenser Cooling Water Units 1 - 4 and Auxiliary	Ohio River
	Equipment Cooling Water	
007	and the company of th	Ohio River
	Cooling Water, and Cooling Water Intake Structure	
	Warming Line	
800	Flume Discharge	Ohio River
010	Settling Lagoon Discharge	Ohio River
011	Stormwater Runoff from Former Ash Pond	Unnamed Tributary to Ohio River
012		Unnamed Tributary to Ohio River
013	Stormwater Runoff from Railroad Car Unloading Facility	Unnamed Tributary to Ohio River
	and Berm of an Ash Pond	·
014	Lagoon Sewage Treatment Plant Effluent and MEPI	Unnamed Tributary to Ohio River

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Manager, Permit Section

Division of Water Pollution Control

SAK:LRL:14100901.docx

Sanitary Waste

Page 2 Modification Date: July 26, 2017

NPDES Permit No. IL0004171

Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

CONCENTRATION

	DAF (DAF (DMF)		<u>LIMITS mg/l</u>		
PARAMETER	30 DAY	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE

Outfall 001 - Ash Pond Discharge***
(Average Flow = 7.2 MGD)

This discharge consists of:

- 1. Bottom Ash and Fly Ash Sluice Water
- 2. Demineralizer Regenerant Waste
- 3. Central Water Treatment Building Floor Drains
- 4. Settling Lagoon and Intake Dredging Wastewater*
- 5. Reverse Osmosis / Demineralizer System Backwash

LOAD LIMITS lbs/day

- Wastewater from Gas Turbine Site**
- 7. Ash Landfill Leachate
- 8. Metal Cleaning Waste (Non-Chemical Only)

Flow (MGD)	See Special Condition 1.			1/Week	Calculation
рН	See Special Condition 2.			1/Week	Grab
Total Suspended Solids		15.0	30.0	1/Month	Composite****
Oil & Grease		15.0	20.0	1/Month	Grab
Molluscicide	See Special Condition 17.			1/Discharge Event	Grab
Mercury	See Special Condition 21.	Monito	r Only	1/Quarter	Grab

^{* -} Discharge to the ash pond is an alternate routing.

^{** -} The incidental amounts of wastewater from the facility's gas turbine site includes collected rainwater, turbine water injection, inlet fogging water, and turbine wash water.

^{*** -} See Special Conditions 16, 19, and 23.

^{**** -} A grab sample can be used in place of a composite sample during periods of maintenance and/or low-flow events.

Modification Date: July 26, 2017

NPDES Permit No. IL0004171

Effluent Limitations and Monitoring

From the modification date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

> LOAD LIMITS lbs/day DAF (DMF)

CONCENTRATION LIMITS mg/l

30 DAY PARAMETER

DAILY

30 DAY

DAILY

SAMPLE

SAMPLE

AVERAGE

MAXIMUM

AVERAGE

MAXIMUM

FREQUENCY

TYPE

Outfall 005 - Intake Screen Backwash*

(Average Flow = 0.4 MGD)

Flow (MGD)

See Special Condition 1.

1/Month

Calculation

* - There shall be no discharge of collected debris from the outer bar racks other than trace amounts.

Outfall 006 - Condenser Cooling Water Units 1 - 4 and Auxiliary Equipment Cooling Water*

(Average Flow = 410 MGD)

Flow (MGD) See Special Condition 1. Continuous

Estimate or Calculate

pН

See Special Condition 2.

1/Month

Grab

Temperature

Molluscicide

See Special Condition 4.

Continuous

Measure

Total Residual Chlorine /

Total Residual Halogen

* - See Special Condition 19.

See Special Condition 17.

See Special Condition 7.

0.05

1/Month

Grab

Grab

1/Discharge Event

Outfall 007 - Condenser Cooling Water Units 5 - 6, Auxiliary Equipment Cooling Water, and Cooling Water Intake Structure Warming Line* (Average Flow = 182 MGD)

Flow (MGD)	See Special Condition 1.		Continuous	Estimate or Calculate
pН	See Special Condition 2.		1/Month	Grab
Temperature	See Special Condition 4.		Continuous	Measure
Total Residual Chlorine / Total Residual Halogen	See Special Condition 7.	0.05	1/Month	Grab
Molluscicide	See Special Condition 17.		1/Discharge Event	Grab

^{* -} See Special Condition 19.

Page 4 Modification Date: July 26, 2017

NPDES Permit No. IL0004171

Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

> LOAD LIMITS lbs/day DAF (DMF)

CONCENTRATION LIMITS mg/l

30 DAY DAILY 30 DAY DAILY SAMPLE SAMPLE PARAMETER **AVERAGE MAXIMUM AVERAGE** MAXIMUM **FREQUENCY** TYPE

Outfall 008 - Flume Discharge* (Interim Wastestreams and Limitations)*** (Average Flow = 1.4 MGD)

This discharge consists of:

- Boiler Blowdown
 Auxiliary Cooling Water Discharges
- 3. Yard Storm Drains**
- 4. Basement Floor Drains
- 5. Metal Cleaning Waste (Non-Chemical Only)

Flow (MGD)	See Special Condition 1.			1/Week	Measure
pH	See Special Condition 2.			1/Month	Grab
Temperature	See Special Condition 4.			1/Month	Single Reading
Total Suspended Solids	See Special Condition 22.	15.0	30.0	1/Month	Grab
Oil & Grease		15.0	20.0	1/Month	Grab
Molluscicide	See Special Condition 17.			1/Discharge .	Grab

^{* -} See Special Condition 19.

Outfall 008 - Flume Discharge* (Final Wastestreams and Limitations)*** (Average Flow = 0.656 MGD)

This discharge consists of:

- 1. Auxiliary Cooling Water Discharges
- 2. Yard Storm Drains**

Flow (MGD)	See Special Condition 1.	1/Week	Measure
pН	See Special Condition 2.	1/Month	Grab
Temperature	See Special Condition 4.	1/Month	Single Reading
Molluscicide	See Special Condition 17.	1/Discharge	Grab

Event

^{** -} The limits do not apply to the yard storm drains, See Special Condition 15.

^{*** -} See Special Condition 25.

^{* -} See Special Condition 19.

^{** -} The limits do not apply to the yard storm drains, See Special Condition 15.

^{*** -} See Special Condition 25.

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Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

LOAD LIMITS lbs/day DAF (DMF) CONCENTRATION LIMITS mg/l

PARAMETER

30 DAY AVERAGE DAILY MAXIMUM 30 DAY AVERAGE DAILY MAXIMUM SAMPLE FREQUENCY SAMPLE TYPE

Outfall 010 - Settling Lagoon Discharge** (Interim Wastestreams and Limitations)**** (Average Flow = 3.2 MGD)

This discharge consists of:

- 1. Coal Pile Runoff
- 2. Coal Reclaim Pit Sump Pump Discharge
- 3. Coal Car Dumper Drains
- 4. Crusher House Floor Drains
- 5. Main Plant Floor Drains
- 6. Bottom Ash Hopper Overflow
- 7. North Plant Area Storm Drainage
- 8. Auxiliary Equipment Cooling Water
- 9. Settling Lagoon and Intake Dredging Wastewater*
- 10. Reverse Osmosis / Demineralizer System Blowdown
- 11. Metal Cleaning Waste (Non-Chemical Only)

Flow (MGD)	See Special Condition 1.			1/Week	Measure
pH	See Special Condition 2.			1/Week	Grab
Total Suspended Solids	See Special Condition 22.	15.0	30.0	1/Week	Composite***
Oil & Grease		15.0	20.0	1/Month	Grab
Molluscicide	See Special Condition 17.			1/Discharge Event	Grab
Mercury	See Special Condition 21.	Monitor	Only	1/Quarter	Grab

^{* -} This wastestream may be directed to the ash pond.

^{** -} See Special Condition 16, 19, and 23.

^{*** -} A grab sample can be used in place of a composite sample during periods of maintenance and/or low-flow events.

^{**** -} See Special Condition 25.

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Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

LOAD LIMITS lbs/day DAF (DMF) CONCENTRATION LIMITS mg/l

PARAMETER

30 DAY AVERAGE DAILY MAXIMUM 30 DAY AVERAGE DAILY MAXIMUM SAMPLE FREQUENCY

SAMPLE TYPE

Outfall 010 - Settling Lagoon Discharge** (Final Wastestreams and Limitations)****
(Average Flow = 3.506 MGD)

This discharge consists of:

- 1. Coal Pile Runoff
- 2. Coal Reclaim Pit Sump Pump Discharge
- 3. Coal Car Dumper Drains
- 4. Crusher House Floor Drains
- 5. Main Plant Floor Drains
- 6. Bottom Ash Hopper Overflow
- 7. North Plant Area Storm Drainage
- 8. Auxiliary Equipment Cooling Water
- 9. Settling Lagoon and Intake Dredging Wastewater*
- 10. Reverse Osmosis / Demineralizer System Blowdown
- 11. Metal Cleaning Waste (Non-Chemical Only)
- 12. Basement Floor Drains
- 13. Boiler Blowdown

Flow (MGD)	See Special Condition 1.			1/Week	Measure
рН	See Special Condition 2.			1/Week	Grab
Temperature	See Special Condition 4.			1/Month	Single Reading
Total Suspended Solids	See Special Condition 22.	15.0	30.0	1/Week	Composite***
Oil & Grease		15.0	20.0	1/Month	Grab
Molluscicide	See Special Condition 17.			1/Discharge Event	Grab
Mercury	See Special Condition 21.	Monito	r Only	. 1/Quarter	Grab

^{* -} This wastestream may be directed to the ash pond.

^{** -} See Special Condition 16, 19, and 23.

^{*** -} A grab sample can be used in place of a composite sample during periods of maintenance and/or low-flow events.

^{**** -} See Special Condition 25.

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Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

> LOAD LIMITS lbs/day DAF (DMF)

CONCENTRATION LIMITS mg/l

SAMPLE DAILY SAMPLE DAILY 30 DAY 30 DAY **TYPE FREQUENCY AVERAGE MAXIMUM AVERAGE** MAXIMUM **PARAMETER**

Outfall 011 - Stormwater Runoff from Former Ash Pond* (Intermittent Discharge)

* - See Special Condition 15.

Outfall 012 - Stormwater Runoff from Railroad Car Unloading Facility*

(Intermittent Discharge)

See Special Condition 21. Mercury

Monitor Only

1/Quarter

Grab

* - See Special Condition 15.

Outfall 013 - Stormwater Runoff from Railroad Car Unloading Facility and Berm of an Ash Pond* (Intermittent Discharge)

* - See Special Condition 15.

Outfall 014 - Lagoon Sewage Treatment Plant Effluent and MEPI Sanitary Waste*

(DMF = 0.075 MGD)

Flow (MGD)	See Special Conc	lition 1.			1/Week When Discharging	Measure
pH .	See Special Cond	dition 2.	•		1/Month	Grab
BOD₅	18	37	30	60	1/Month	Grab
Total Suspended Solids	23	46	37	74	1/Month	Grab
Dissolved Oxygen**					1/Month	Grab
Fecal Coliform***			Monito	r Only	1/Month	Grab

^{* -} See Special Condition 10.

^{** -} The DO concentration shall not be less than 6 mg/l. DO shall be reported as a monthly minimum concentration.

^{*** -} Sampling once a month May - October.

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<u>SPECIAL CONDITION 1</u>. Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum on the Discharge Monitoring Report.

SPECIAL CONDITION 2. The pH shall be in the range of 6.0 to 9.0 and reported as a monthly minimum and monthly maximum.

<u>SPECIAL CONDITION 3</u>. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

<u>SPECIAL CONDITION 4</u>. Electric Energy, Inc. demonstration for the Joppa Energy Center in accordance with Section 316(a) of the CWA was approved by the Illinois Pollution Control Board in Order 77-124 dated September 1, 1977, which resulted in the following thermal limitation.

Thermal Discharge: Electric Energy, Inc. may operate Joppa Energy Center with a once-through cooling water system as long as thermal discharges from this facility do not exceed those levels associated with maximum power production capacity existing on February 22, 1977 (1,100 megawatts gross based on a 24-hour average).

In accordance with the 316(a) approved by the Board in Order 77-124, the maximum power production capacity shall not exceed 1,100 megawatts gross (24-hour average). The permittee shall report the monthly average load factor, maximum BTU/hour heat rejection for the month, and the maximum power production (24-hour average) on the Discharge Monitoring Report.

<u>SPECIAL CONDITION 5</u>. If the permittee intends to request the continuation of the 316(a) alternative thermal limits in its next reissued NPDES permit, the permittee shall submit the information necessary to comply with 35 III. Adm. Code 106.1180 as part of the application for renewal of this permit.

<u>SPECIAL CONDITION 6</u>. If effluent monitoring cannot be completed for Outfall 008 during periods of continued flooding (Ohio River elevation 324.0 feet or greater) the Ohio River elevation shall be reported.

<u>SPECIAL CONDITION 7</u>. Total Residual Chlorine measured as Total Residual Halogen may not be discharged from each unit's main cooling condensers for more than two hours in any one day. Samples taken for chlorine/bromine monitoring purposes may be taken in the condenser cooling water discharge bay at a point representative of the discharge but prior to confluence with the rivers edge. Chlorine and bromine usage shall be subject to the following limitation.

All uses of the chlorine/bromine containing biocide approved by this Agency, such as for biofouling control, and regardless of duration, are subject to the discharge limit of 0.05 mg/l TRH (Total Residual Halogen) as an instantaneous maximum. Total Residual Halogen (TRH) shall be measured as the residuals from chlorine and/or bromine.

<u>SPECIAL CONDITION 8</u>. There shall be no discharge of chemical metal cleaning agents and associated rinses unless this permit has been modified to include the new discharge.

<u>SPECIAL CONDITION 9.</u> If effluent monitoring cannot be completed for Outfall 010 during periods of continued flooding (Ohio River elevation 326.0 feet or greater) the Ohio River elevation shall be reported.

<u>SPECIAL CONDITION 10</u>. Any use of chlorine to control slime growths odors or as an operational control, etc. shall not exceed the limit of 0.05 mg/l (daily maximum) total residual chlorine in the effluent. Sampling is required on a daily grab basis during the chlorination process. Reporting shall be submitted with the (DMR's) on a monthly basis.

SPECIAL CONDITION 11. There shall be no discharge of polychlorinated biphenyl compounds.

SPECIAL CONDITION 12. The applicant may use copper sulfate addition to the ash pond and lagoon to prevent algae growth in summer months.

SPECIAL CONDITION 13. In the event the permittee shall require the use of additives other than those previously approved by this Agency, or in the event the permittee increases the feed rate or quantity of the additives used beyond what has previously been approved by this Agency, the permittee shall notify this Agency in writing in accordance with the Standard Conditions, Attachment H.

<u>SPECIAL CONDITION 14.</u> The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) electronic forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

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The Permittee is required to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA beginning December 21, 2016 unless a waiver has been granted by the Agency. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, http://www.epa.state.il.us/water/net-dmr/index.html.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 28th day of the following month, unless otherwise specified by the permitting authority.

Permittees that have been granted a waiver shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attention: Compliance Assurance Section, Mail Code # 19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 15.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) For Outfalls 008, 011, 012, and 013

- A. A storm water pollution prevention plan shall be maintained by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee shall modify the plan if substantive changes are made or occur affecting compliance with this condition.
 - 1. Waters not classified as impaired pursuant to Section 303(d) of the Clean Water Act.
 - Unless otherwise specified by federal regulation, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.
 - 2. Waters classified as impaired pursuant to Section 303(d) of the Clean Water Act
 - For any site which discharges directly to an impaired water identified in the Agency's 303(d) listing, and if any parameter in the subject discharge has been identified as the cause of impairment, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations, the storm water pollution prevention plan shall adhere to a more restrictive design criteria.
- B. The operator or owner of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request. Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.
- C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a quarterly visual observation required by paragraph H or the annual facility inspection required by paragraph I of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within 30 days of any proposed construction or operational changes at the facility, and shall be provided to the Agency for review upon request.
- E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:
 - A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm

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water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate. Any map or portion of map may be withheld for security reasons.

2. A site map showing:

- The storm water conveyance and discharge structures;
- An outline of the storm water drainage areas for each storm water discharge point;
- iii. Paved areas and buildings;
- iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
- v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);
- vi. Surface water locations and/or municipal storm drain locations
- vii. Areas of existing and potential soil erosion;
- viii. Vehicle service areas;
- ix. Material loading, unloading, and access areas.
- Areas under items iv and ix above may be withheld from the site for security reasons.
- A narrative description of the following:
 - i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;
 - iv. Industrial storm water discharge treatment facilities;
 - v. Methods of onsite storage and disposal of significant materials.
- 4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities. Also provide a list of any pollutant that is listed as impaired in the most recent 303(d) report.
- 5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
- 6. A summary of existing sampling data describing pollutants in storm water discharges.
- F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:
 - 1. Storm Water Pollution Prevention Personnel Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.
 - 2. Preventive Maintenance Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.

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- Good Housekeeping Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water.
 Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
- 4. Spill Prevention and Response Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill cleanup equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
- 5. Storm Water Management Practices Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
 - i. Containment Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff. To the maximum extent practicable storm water discharged from any area where material handling equipment or activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water should not enter vegetated areas or surface waters or infiltrate into the soil unless adequate treatment is provided.
 - ii. Oil & Grease Separation Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges.
 - iii. Debris & Sediment Control Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges.
 - iv. Waste Chemical Disposal Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.
 - v. Storm Water Diversion Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination. Minimize the quantity of storm water entering areas where material handling equipment of activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water using green infrastructure techniques where practicable in the areas outside the exposure area, and otherwise divert storm water away from exposure area.
 - vi. Covered Storage or Manufacturing Areas Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
 - vii. Storm Water Reduction Install vegetation on roofs of buildings within adjacent to the exposure area to detain and evapotranspirate runoff where precipitation falling on the roof is not exposed to contaminants, to minimize storm water runoff; capture storm water in devices that minimize the amount of storm water runoff and use this water as appropriate based on quality.
- 6. Sediment and Erosion Prevention The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion. The plan shall describe measures to limit erosion.
- 7. Employee Training Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
- Inspection Procedures Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A
 tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection.
 Inspections and maintenance activities shall be documented and recorded.
- G. Non-Storm Water Discharge The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharge. The certification shall include a description of any test for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible.

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- H. Quarterly Visual Observation of Discharges The requirements and procedures for quarterly visual observations are applicable to all outfalls covered by this condition.
 - 1. You must perform and document a quarterly visual observation of a storm water discharge associated with industrial activity from each outfall. The visual observation must be made during daylight hours. If no storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, you are excused from the visual observations requirement for that quarter, provided you document in your records that no runoff occurred. You must sign and certify the document.
 - 2. Your visual observation must be made on samples collected as soon as practical, but not to exceed 1 hour or when the runoff or snow melt begins discharging from your facility. All samples must be collected from a storm event discharge that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measureable (greater than 0.1 inch rainfall) storm event. The observation must document: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. If visual observations indicate any unnatural color, odor, turbidity, floatable material, oil sheen or other indicators of storm water pollution, the permittee shall obtain a sample and monitor for the parameter or the list of pollutants in Part E.4.
 - 3. You must maintain your visual observation reports onsite with the SWPPP. The report must include the observation date and time, inspection personnel, nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
 - 4. You may exercise a waiver of the visual observation requirement at a facility that is inactive or unstaffed, as long as there are no industrial materials or activities exposed to storm water. If you exercise this waiver, you must maintain a certification with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to storm water.
 - 5. Representative Outfalls If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, you may conduct visual observations of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s).
 - 6. The visual observation documentation shall be made available to the Agency and general public upon written request.
- I. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
- J. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated there under, and Best Management Programs under 40 CFR 125.100.
- K. The plan is considered a report that shall be available to the public at any reasonable time upon request.
- L. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
- M. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirement imposed by the operator of the municipal system

Construction Authorization

Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

N. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights there under.

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- O. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
- P. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.
- Q. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

- R. The annual inspection report shall include results of the annual facility inspection which is required by Part I of this condition. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s). The annual inspection report is considered a public document that shall be available at any reasonable time upon request.
- S. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- T. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.
- U. The permittee shall retain the annual inspection report on file at least 3 years. This period may be extended by request of the Illinois Environmental Protection Agency at any time.

Annual inspection reports shall be submitted electronically at epa.npdes.inspection@illinois.gov or mailed to the following address:

Illinois Environmental Protection Agency Bureau of Water Compliance Assurance Section Annual Inspection Report 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276

SPECIAL CONDITION 16. The Agency has determined that the effluent limitations in this permit constitute BAT/BCT for stormwater which is treated in the existing treatment facilities (Outfalls 001 and 010) for purposes of this permit reissuance, and no pollution prevention plan will be required for such stormwater. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a stormwater discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated stormwater discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.

SPECIAL CONDITION 17. Application of Spectrus CT1300 and BULAB 6086 with detoxification for zebra mussel control:

- A. Application of Spectrus CT1300 and BULAB 6086 is authorized on an intermittent basis. The products shall not be used simultaneously or in consecutive twelve hour periods.
- B. Spectrus CT1300 and BULAB 6086 shall be injected at a rate sufficient to achieve up to a 15 mg/l concentration in the service water pump discharge header of the fire protection and service water systems. The application shall last twelve consecutive hours and not exceed three annual molluscicide applications.

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- C. The discharge shall be completely detoxified as necessary using bentonite clay product. The detoxification chemical shall be injected at a ratio of 10 parts bentonite clay product to 1 part of detected Spectrus CT1300 and BULAB 6086. The detoxification chemical shall be injected as far up stream as possible to allow for optimum mixing.
- D. The discharge for Spectrus CT1300 and BULAB 6086 shall be below detection (< 0.2 PPM). The discharge concentration shall be monitored at least twice (6-hours apart) during the twelve hour dosing period and twice (6-hours apart) during the twelve hour period following the application period.

SPECIAL CONDITION 18. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 19. The use of any molluscicides, other than Spectrus CT1300 and BULAB 6086, require prior approval from the Agency and may require a modification of this permit. To obtain approval, the permittee shall submit a request for modification of this permit and prepare a preliminary plan for bio-monitoring, and submit the plan to IEPA for review and approval. Within ninety (90) days, unless specified otherwise in writing, after approval of the bio-monitoring plan and authorization for use of the new molluscicides either by letter or by modification of this permit, the permittee shall begin bio-monitoring of the effluent discharge, when molluscicides are in use.

Biomonitoring

- 1. Acute Toxicity Standard definitive acute toxicity tests shall be run on at least two (2) trophic levels of aquatic species (fish, invertebrate) representative of the aquatic community of the receiving stream. Except as noted here and in the IEPA document "Effluent Biomonitoring and Toxicity Assessment", testing must be consistent with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (Fourth Ed.) EPA-600/4-90-027F. Results shall be reported in accordance with Section 12 of the USEPA document. Unless substitute tests are pre-approved; the following tests are required:
 - a. Fish 96 hour static or static renewal LC₅₀ Bioassay using 1- to 14-day old fathead minnows (Pimephales promelas).
 - b. Invertebrate 48-hour static LC₅₀ Bioassay using Ceriodaphnia.
- Testing Frequency The above tests shall be conducted the first two times each molluscicide (other than Spectrus CT-1300 and BULAB 6086) is used when either molluscicide is in the discharge. Tests shall be performed using effluent grab samples unless otherwise authorized by the IEPA. Results shall be submitted to IEPA within one (1) week of becoming available to the Permittee.
 - Should the results of one sampling event for either molluscicide (other than Spectrus CT-1300 and BULAB 6086) indicate toxicity, the Permittee shall discontinue use of that molluscicide until the permittee demonstrates to the Agency that the molluscicide will be applied in a manner and at a quantity and feed rate that will not cause toxicity. The permittee shall submit the results of the above indicated tests to the IEPA Division of Water Pollution Control/Planning Section at the address indicated in Special Condition 14.
- 3. The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 20. Electric Energy, Inc. demonstration for the Joppa Energy Center in accordance with Section 316(b) of the CWA was approved by this Agency by letter dated April 12, 1979. Based on available information, the Agency has determined that the operation of the cooling water intake structure meets the equivalent of Best Technology Available (BTA) in accordance with the Best Professional Judgment provisions of 40 CFR 125.3 and 40 CFR 125.90(b), based on information available at the time of permit reissuance.

However, the Permittee shall comply with the requirements of the Cooling Water Intake Structure Existing Facilities Rule as found at 40 CFR 122 and 125. Any application materials and submissions required for compliance with the Existing Facilities Rule, shall be submitted to the Agency no later than 4 years from the effective date of this permit.

Nothing in this permit authorizes take for the purposes of a facility's compliance with the Endangered Species Act.

If for any reason, the Cooling Water Intake Structure Existing Facilities Rule is stayed or remanded by the courts, the Permittee shall comply with the requirements below. The information required below is necessary to further evaluate cooling water intake structure operations based on the most up to date information, in accordance with the Best Professional Judgment provisions of 40 CFR 125.3 and 40 CFR 125.90(b), in existence prior to the effective date of the new Existing Facilities Rule:

- A. The permittee shall submit the following information/studies within 4 years of the effective date of the permit:
 - 1. Source Water Physical Data to include:

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- a. A narrative description and scaled drawings showing the physical configuration of all source water bodies used by the facility including aerial dimensions, depths, salinity and temperature regimes;
- Identification and characterization of the source waterbody's hydrological and geomorphological features, as well as the methods used to conduct any physical studies to determine the intake's area of influence and the results of such studies;
- c. Location maps.
- 2. Source Waterbody Flow Information.

The permittee shall provide the annual mean flow of the waterbody, any supporting documentation and engineering calculations to support the analysis of whether the design intake flow is greater than five percent of the mean annual flow of the river or stream for purposes of determining applicable performance standards. Representative historical data (from a period of time up to 10 years) shall be used, if available.

3. Impingement Mortality and Entrainment Characterization Study.

The permittee shall submit an Impingement Mortality and Entrainment Characterization Study whose purpose is to provide information to support the development of a calculation baseline for evaluating impingement mortality and entrainment and to characterize current impingement mortality and entrainment. The Study shall include the following in sufficient detail to support establishment of baseline conditions:

- a. Taxonomic identification of all life stages of fish and shellfish and any species protected under Federal, State, or Tribal law (including threatened or endangered species) that are in the vicinity of the cooling water intake structure(s) and are susceptible to impingement and entrainment;
- b. A characterization of all life stages of fish and shellfish, and any species protected under Federal, or State law, including a description of the abundance and temporal and spatial characteristics in the vicinity of the cooling water intake structure(s). These may include historical data that are representative of the current operation of the facility and of biological conditions at the site; and
- c. Documentation of the current impingement mortality and entrainment of all life stages of fish, shellfish, and any species protected under Federal. State, or Tribal Law (including threatened or endangered species) and an estimate of impingement mortality and entrainment to be used as the calculation baseline. The documentation may include historical data that are representative of the current operation of the facility and of biological conditions at the site. Impingement mortality and entrainment samples to support the calculations required must be collected during periods of representative operational flows for the cooling water intake structure and the flows associated with the samples must be documented.
- B. The permittee shall comply with the following requirements:
 - 1. At all times properly operate and maintain the intake equipment as demonstrated in the application material supporting the BTA determination.
 - 2. Inform IEPA of any proposed changes to the cooling water intake structure or proposed changes to operations at the facility that affect impingement mortality and/or entrainment.
 - 3. Debris collected on intake screens is prohibited from being discharged back to the canal. Debris does not include living fish or other living aquatic organisms.
 - 4. Compliance Alternatives. The permittee must evaluate each of the following alternatives for establishing BTA for minimizing adverse environmental impacts at the facility due to operation of the intake structure:
 - a. Evaluate operational procedures and/or propose facility modifications to reduce the intake through-screen velocity to less than 0.5 ft/sec. The operational evaluation may consider modified circulating water pump operation; reduced flow associated with capacity utilization, recalculation or determination of actual total water withdrawal capacity. The evaluation report and any implementation plan for the operational changes and/ or facility modification shall be submitted to the Agency with the renewal application for this permit.
 - b. Complete a fish impingement and entrainment mortality minimization alternatives evaluation. The evaluation may include an assessment of modification of the traveling screens, consideration of a separate fish and debris return

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system and include time frames and cost analysis to implement these measures. The evaluation report and implementation plan for any operational changes and/ or facility modifications shall be submitted to the Agency with the renewal application for this permit.

C. All required reports shall be submitted to the Industrial Unit, Permit Section and Compliance Assurance Section at the address in Special Condition 14.

This special condition does not relieve the permittee of the responsibility of complying with any other laws, regulations, or judicial orders issued pursuant to Section 316(b) of the Clean Water Act.

SPECIAL CONDITION 21. Outfalls 001, 010, and 012 shall be monitored for mercury on a quarterly basis. Samples must be analyzed by EPA Method 1631E using the digestion procedure described in Section 11.1.1.2 of 1631E, which dictates that samples must be heated at 50°C for 6 hours in a bromine chloride (BrCl) solution in closed vessels.

SPECIAL CONDITION 22. Compliance with the numerical effluent concentrations (15 mg/l monthly average, 30 mg/l daily maximum) for total suspended solids is not required when effluent concentrations in excess of the standards result entirely from influent concentration, evaporation and/or incidental addition of traces of materials not utilized or produced in the activity that is the source of the waste. If credit for the background concentration is requested the following determinations shall be made and reported, and alternative limits must be calculated:

- 1. Determine the total suspended solids concentration of the river water (sample to be taken after the duplex filter).
- 2. Determine the total flow of river water used for auxiliary cooling water at Outfalls 008 and 010.
- 3. Determine the total flow from the settling lagoon (Outfall 010) and/or the flow discharging to the flume via the basement sump (Outfall 008).
- 4. Determine the total suspended solids concentration of the settling lagoon effluent and/or the effluent to the flume via the basement sump.
- 5. Determine the adjusted effluent concentration limit for Outfall 008 by using the formula below. NOTE: Water used to produce the low volume waste stream is river water.

$$C_{EA} = \frac{C_B F_{NCCW} + (C_{B+}15)(F_{T-NCCW})}{F_T}$$

$$C_{EM} = \frac{C_R F_{NCCW} + (C_{R+}30)(F_{T-NCCW})}{F_{T}}$$

CEA = Calculated 30-Day Average Effluent Limit for Outfall 008 or 010

C_{EM} = Calculated Daily Maximum Effluent Limit for Outfall 008 or 010

C_B = Total Suspended Solids Concentration of the River Water (sample to be taken after the duplex filter)

F_{NCCW} = Flow of Auxiliary Cooling Water

FT - FNCCW = Total Flow at Outfall - Flow of Auxiliary Cooling Water

 F_T = Total Flow at Outfall 008 or 010

6. Determine the adjusted effluent concentration limit for Outfall 010 by using the formula below.

$$C_{EA} = \frac{C_R F_{NCCW} + 15(F_{T-NCCW})}{F_T}$$

$$C_{EM} = \frac{C_R F_{NCCW} + 30(F_{T-NCCW})}{F_T}$$

CEA = Calculated 30-Day Average Effluent Limit for Outfall 008 or 010

C_{EM} = Calculated Daily Maximum Effluent Limit for Outfall 008 or 010

C_B = Total Suspended Solids Concentration of the River Water (sample to be taken after the duplex filter)

F_{NCCW} = Flow of Auxiliary Cooling Water

FT - FNCCW = Total Flow at Outfall - Flow of Auxiliary Cooling Water

F_T = Total Flow at Outfall 008 or 010

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The facility must provide justification for the background credit consistent with 40 CFR 122.45(g) and 35 III. Adm. Code 304.103.
 This justification must be submitted with the DMR at the time the credit is claimed.

SPECIAL CONDITION 23. The Permittee shall monitor Outfalls 001 and 010 for the following parameters on a semi-annual basis. The Permit may be modified with public notice to establish effluent limitations if appropriate, based on the information obtained through sampling. The sample shall be a 24-hour effluent composite except as otherwise specifically provided below and the results shall be submitted on the DMRs to IEPA. The parameters to be sampled and the minimum reporting limits to be attained are as follows:

STORET		MINIMUM
<u>CODE</u>	<u>PARAMETER</u>	REPORTING LIMIT
01002	Arsenic	0.05 mg/l
01027	Cadmium	0.001 mg/l
01034	Chromium (Total)	0.05 mg/l
01042	Copper ·	0.005 mg/l
00718	Cyanide (grab) (weak acid dissociable)	5.0 ug/l
00720	Cyanide (grab not to exceed 24 hours) (Total)	5.0 ug/l
00951	Fluoride	0.1 mg/l
01045	Iron (Total)	0.5 mg/l
01046	Iron (Dissolved)	0.5 mg/l
01051	Lead	0.05 mg/l
01055	Manganese	0.5 mg/l
01067	Nickel	0.005 mg/l
32730	Phenols (grab)	0.005 mg/l
01147	Selenium	0.005 mg/l
01077	Silver (Total)	0.003 mg/l
01092	Zinc	0.025 mg/l

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solids, suspended, or dissolved, elemental or combined, including all oxidation states.

<u>SPECIAL CONDITION 24.</u> The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 III. Adm. Code 302.

SPECIAL CONDITION 25. The interim wastestreams and limitations for outfalls 008 and 010 are effective as of the modification date of this permit. The final wastestreams and limitations for outfalls 008 and 010 will not take effect until after the tie-in piping has been completed and the new piping system has been determined to be fully functional. The permittee shall notify the Agency within 30-days after the tie-in piping has been completed. The final wastestream and limitations will be effective upon such written notification. Compliance with the final limits should be noted on the next months DMRs.

Attachment H Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act, 415 ILCS 5 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24-Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8-Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

- (1) Duty to comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirements.
- (2) Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.
- (3) Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (4) Duty to mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- (5) Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.
- (6) Permit actions. This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuant to 40 CFR 122.62 and 40 CFR 122.63. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- (7) Property rights. This permit does not convey any property rights of any sort, or any exclusive privilege.
- (8) Duty to provide information. The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency upon request, copies of records required to be kept by this permit.

- (9) Inspection and entry. The permittee shall allow an authorized representative of the Agency or USEPA (including an authorized contractor acting as a representative of the Agency or USEPA), upon the presentation of credentials and other documents as may be required by law, to:
 - (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
 - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit:
 - (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) Monitoring and records.

- (a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- (b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. Records related to the permittee's sewage sludge use and disposal activities shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503). This period may be extended by request of the Agency or USEPA at any time.
- (c) Records of monitoring information shall include:
 - (1) The date, exact place, and time of sampling or measurements;
 - (2) The individual(s) who performed the sampling or measurements;
 - (3) The date(s) analyses were performed;
 - (4) The individual(s) who performed the analyses;
 - (5) The analytical techniques or methods used; and
 - (6) The results of such analyses.
- (d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.
- (11) Signatory requirement. All applications, reports or information submitted to the Agency shall be signed and certified.
 - (a) Application. All permit applications shall be signed as follows:
 - (1) For a corporation: by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation:
 - (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - (3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
 - (b) Reports. All reports required by permits, or other information requested by the Agency shall be signed by a

- person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- The authorization is made in writing by a person described in paragraph (a); and
- (2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and
- (3) The written authorization is submitted to the Agency.
- (c) Changes of Authorization. If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.
- (d) Certification. Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(12) Reporting requirements.

- (a) Planned changes. The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:
 - The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source pursuant to 40 CFR 122.29
 (b); or
 - (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements pursuant to 40 CFR 122.42 (a)(1).
 - (3) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- (b) Anticipated noncompliance. The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) **Transfers.** This permit is not transferable to any person except after notice to the Agency.
- (d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

- (e) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.
 - (1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).
 - (2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - (3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.
- Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24-hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of cause; the period noncompliance and its noncompliance, including exact dates and time; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24-hours:
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - (2) Any upset which exceeds any effluent limitation in the permit.
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit or any pollutant which may endanger health or the environment.
 - The Agency may waive the written report on a caseby-case basis if the oral report has been received within 24-hours.
- (g) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (12) (d), (e), or (f), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12) (f).
- (h) Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.

(13) Bypass.

- (a) Definitions.
 - (1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
 - (2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- (b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (13)(c) and (13)(d).

- (c) Notice.
 - (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
 - (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph (12)(f) (24-hour notice).
- (d) Prohibition of bypass.
 - (1) Bypass is prohibited, and the Agency may take enforcement action against a permittee for bypass, unless:
 - Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or normal periods maintenance during This condition is not equipment downtime. satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods equipment downtime or preventive maintenance; and
 - (iii) The permittee submitted notices as required under paragraph (13)(c).
 - (2) The Agency may approve an anticipated bypass, after considering its adverse effects, if the Agency determines that it will meet the three conditions listed above in paragraph (13)(d)(1).

(14) Upset.

- (a) Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- (b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (14)(c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- (c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated; and
 - (3) The permittee submitted notice of the upset as required in paragraph (12)(f)(2) (24-hour notice).
 - (4) The permittee complied with any remedial measures required under paragraph (4).
- (d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

- (15) Transfer of permits. Permits may be transferred by modification or automatic transfer as described below:
 - (a) Transfers by modification. Except as provided in paragraph (b), a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued pursuant to 40 CFR 122.62 (b) (2), or a minor modification made pursuant to 40 CFR 122.63 (d), to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.
 - (b) Automatic transfers. As an alternative to transfers under paragraph (a), any NPDES permit may be automatically transferred to a new permittee if:
 - The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;
 - (2) The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage and liability between the existing and new permittees; and
 - (3) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.
- (16) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:
 - (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 ug/l);
 - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2methyl-4,6 dinitrophenol; and one milligram per liter (1 mg/l) for antimony.
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or
 - (4) The level established by the Agency in this permit.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.
- (17) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:
 - (a) Any new introduction of pollutants into that POTW from an indirect discharge which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and
 - (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
 - (c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
- (18) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:
 - (a) User charges pursuant to Section 204 (b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35:

- (b) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act: and
- (c) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.
- (19) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.
- (20) Any authorization to construct issued to the permittee pursuant to 35 III. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.
- (21) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.
- (22) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both.
 - Additional penalties for violating these sections of the Clean Water Act are identified in 40 CFR 122.41 (a)(2) and (3).
- (23) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.
- (24) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- (25) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.
- (26) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.
- (27) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 III. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board or any court with jurisdiction.
- (28) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.