# EXHIBIT H

Electronic Filing - Received, Clerk's Office 11/14/2016

April 2, 1979

NO. 16-DER-41

To:

L. C. Ruby

From:

John H. Hughes

Subject:

Reissued NPDES Permit - Waukegan Station

Enclosed is the reissued NPDES Permit for Waukegan Station. Based on our review, we do not intend to object to any of the conditions contained in it. Should you have any problems with the requirements of the permit, please contact me as soon as possible since no appeal can be filed after the effective date of the permit: April 18, 1979.

The station will be responsible for all monitoring and reporting specified by the permit. We believe that although the effective date is April 18, 1979, the station should implement the new monitoring and reporting requirements as soon as possible. A member of my staff will visit the station shortly to discuss the new permit requirements with station personnel and to answer any questions concerning them. Please address any future questions regarding this permit to Steve Winship, Extension 4458.

> Thurs E Herminger/For John H. Hughes

JHH:SKW:cg

Enclosures

J. P. McCluskey w/o encl.

R. A. Allen

R. R. Dlesk

T. J. Maiman G. E. Nelson

File: Valuable Papers (w/orig.)
File: 16-PER-HL

NPDES Permit No. IL0002259

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

September 30, 1980

Issue Date: March 19, 1979

Effective Date: April 18, 1979

Permittee:

Commonwealth Edison Company

Facility Name and Address:

Waukegan Generating Station, Greenwood Avenue and Lake Michigan, Waukegan,

Illinois, (Lake County)

Receiving Waters:

Lake Michigan

In compliance with the provisions of the Illinois Environmental Protection Act, the Chapter 3 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 G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

TGM:DLR:rd/sp5161a



Page 2

NPDES Permit No. IL0002259

ATTACHMENT B-1(a)

Effluent Limitations and Monitoring

Discharge Number(s):

001(a)

CONCENTRATION

LIMITS mg/1

Discharge Name(s):

Condenser Cooling Water and House Service Water

LOAD LIMITS lbs/day (Kg/day)

Curve

From effective date of permit until September 30, 1980, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

PARAMETER	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)					Continuous	Calculated
рH	See Attachmen	t B-1(a)	Continued		Weekly	Grab
Temperature	See Attachmen	t G Cont	inued	4	Continuous	Recording
Total Chlorine						
Residual	0.2	0.3			Weekly	Concentratio

Page 3

#### NPDES Permit No. IL0002259

#### ATTACHMENT B-1(a) CONTINUED

- 1. The pH shall be in the range 6.0 to 9.0.
- 2. 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. Total Chlorine Residual
  - A. The reported arithmetic mean concentration and maximum concentration for total chlorine residual shall be based on a chlorine concentration curve. The concentration curve shall be generated using grab samples with an analytical frequency of 5 minutes or less over the exposure time. The exposure time is defined to be from the point of first detectable measurement to the point of the last detectable measurement of total residual chlorine. The exposure time shall not exceed 160 minutes in any 24-hour period. Concentration curves shall be submitted with the Discharge Monitoring Reports.
  - B. The frequency and duration of the chlorine dosing period plus the amount of chlorine applied shall be reported on the Discharge Monitoring Reports.

Page 4

#### NPDES Permit No. IL0002259

#### ATTACHMENT B-1(b)

Effluent Limitations and Monitoring

Discharge Number(s):

001(b)

Discharge Name(s):

Recirculating Combined Wastewater Treatment System - Ash Sluice, Demineralizer Filter Backwash, Boiler Blowdown and

Gas Side Metal Cleaning Waste

From the first discharge until September 30, 1980, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

		CENTRAT			LOAD LIMITS lbs/day (Kg/day)			
PARAMETER	30 DAY AVG.	7 DAY AVG.	DAILY MAX.	30 DAY AVG.	7 DAY AVG.	MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)						*	Continuous	<u>-</u> ,
Total Suspended				*				
Solids			15	517.91		727.33	3/Week	Composit
				(235.13)	145	(330.21)		
Oil and Grease	15		20	517.91		969.78	Weekly	Grab
				(235.13)		(440.28)		
Total (Iron)			2.0	68.48		82.56		
				(31.09)		(37.48)	Weekly	Composit
Total (Copper)			1.0	34.53		48.49		
		3.4		(15.68)		(22.01)	Weekly	Composit

Page 5

NPDES Permit No. IL0002259

#### ATTACHMENT B-1(b) CONTINUED

 Samples taken in compliance with the effluent monitoring requirements shall be taken at a point prior to mixing with condenser cooling water.

Page 6

#### NPDES Permit No. IL0002259

#### ATTACHMENT B-1(b)1

Effluent Limitations and Monitoring

Discharge Number(s):

001(b)1

Discharge Name(s):

Boiler Blowdown

From effective date of permit until July 31, 1979, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

		CENTRA	The second second		LOAD LIMITS s/day (Kg/day	y)		
PARAMETER	30 DAY AVG.	7 DAY AVG.	DAILY MAX.	30 DAY AVG.	7 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)							Continuous	-
Iron (Total)	1.0		1.0	0.06(0.03)		1.20(0.55)	Weekly	Composit
Copper (Total)	1.0		1.0	0.06(0.03)		1.20(0.55)	Weekly	Composit€
Total Suspended	9							
Solids			15	9.19(4.17)		18.01(8.18)	Weekly	Composit
Oil and Greast	15		20	9.19(4.17)		24.02(10.91)	1/3 Months	Grab

Page 7

#### NPDES Permit No. IL0002259

#### ATTACHMENT B-1(b)1 CONTINUED

 Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge but prior to mixing with condenser cooling water.

Page 8

NPDES Permit No. IL0002259

ATTACHMENT B-1(b)2

Effluent Limitations and Monitoring

Discharge Number(s):

001(b)2

Discharge Name(s):

Gas Side Metal Cleaning Waste

From effective date of permit until September 30, 1980, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

		CENTRATION MITS mg/l	ž.	LOAD LIMITS lbs/day (Kg/day)			
PARAMETER	30 DAY	7 DAY DA AVG. MA	X. AVG.		MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)				3		Continuous	
						During Dis	charge
Iron (Total)	1.0	1.0		×	13.21(6.00)	Daily	Composite
Copper (Total)	1.0	1.0			13.21(6.00)	Daily	Composite

Page 9

#### NPDES Permit No. IL0002259

#### ATTACHMENT B-1(b)2 CONTINUED

 Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge but prior to mixing with other waters.

Page 10

NPDES Permit No. IL0002259

ATTACHMENT B-1(c)

Effluent Limitations and Monitoring

Discharge Number(s):

001(c)

CONCENTRATION

Discharge Name(s):

East Basin - Roof and Floor Drains and Yard Run-off

LOAD LIMITS

From effective date of permit until September 30, 1980, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

	LI	MITS mo	1/1		lbs/day (Kg/	day)		
PARAMETER	30 DAY	7 DAY AVG.	MAX.	30 DAY AVG.	7 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)		W)					Continuou	s
							During Di	scharge
0il and Grease	15		20			•	Monthly	Grab
Total Suspended	22-					^		
Solids			15		*		Weekly	Composite

Page 11

NPDES Permit No. IL0002259

ATTACHMENT B-1(c) CONTINUED

 Samples taken in compliance with the effluent monitoring requirements shall be taken at a point prior to mixing with condenser cooling water.

Page 12

NPDES Permit No. IL0002259

ATTACHMENT B-1(d)

Effluent Limitations and Monitoring

Discharge Number(s):

001(d)

Discharge Name(s):

Demineralizer Regenerant Waste

From effective date of permit until September 30, 1980, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

		MITS mg			bs/day (Kg/d	ay)		
PARAMETER	30 DAY AVG.	7 DAY AVG.	MAX.	30 DAY AVG.	AVG.	MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)				ē			Continuous	
Total Suspended					i -			
Solids			15				1/6 Months	Composite

Page 13

#### NPDES Permit No. IL0002259

#### ATTACHMENT B-1(d) CONTINUED

 Samples taken in compliance with the effluent monitoring requirements shall be taken at a point prior to mixing with condenser cooling water.

Page 14

Solids

NPDES Permit No. IL0002259

ATTACHMENT B-2(a)

Effluent Limitations and Monitoring

Discharge Number(s):

002(a)

CONCENTRATION

15

Discharge Name(s):

West Basin Roof Drains and Yard Run-off

From effective date of permit until September 30, 1980, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

	LI	MITS mo	1/1	1b:	s/day (Kg/d	ay)		
PARAMETER	30 DAY AVG.	7 DAY AVG.	MAX.	30 DAY AVG.	7 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)							Continuous	5
							During Dis	scharge
pH .	See Att	achment	t B-2(a)	Continued		3	Weekly	Grab
Oil and Grease	15		20				Monthly	Grab
Total Suspended								

LOAD LIMITS

Weekly

Composite

Page 15

## NPDES Permit No. IL0002259 ATTACHMENT B-2(a) CONTINUED

- 1. The pH shall be in the range 6.0 to 9.0.
- Samples taken in compliance with the effluent monitoring requirements shall be taken at a point prior to mixing with other wastewater sources, except pH shall be monitored prior to mixing with Lake Michigan.

Page 16

NPDES Permit No. IL0002259

ATTACHMENT B-2(b)

Effluent Limitations and Monitoring

Discharge Number(s):

002(b)

Discharge Name(s):

Coal Pile Run-off

From effective date of permit until September 30, 1980, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

	L.	IMII2 mo	3/1	ID	s/day (Kg/d	ay)		
PARAMETER	30 DAY AVG.	7 DAY AVG.	MAX.	30 DAY AVG.	7 DÂY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)	1.						Continuous	5
				4		* 1	During Dis	scharge
рН	See At	tachmen	t B-2(b)	Continued			Weekly	Grab
Oil and Grease	15		20				1/Month	Grab
Total Suspended						,		
Solids			15				Weekly	Composite
Iron (Total)			2.0				Weekly	Composite

Page 17

## NPDES Permit No. IL0002259 ATTACHMENT B-2(b) CONTINUED

- The pH shall be in the range 6.0 to 9.0.
- 2. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to mixing with other wastewaters except pH shall be monitored prior to mixing with Lake Michigan.
- 3. If the permittee, after 6 months of monitoring discharge 002(b) for total iron can demonstrate to the satisfaction of the permitting authority that there is no significant discharge of the designated parameters and that, in that time, the parameters have not exceeded the effluent limit set for said parameters, upon written request by the permittee, the permitting authority shall review the monitoring requirements and may, at their discretion, revise or waive these monitoring requirements by letter without public notice or opportunity for hearing.

Page 18

NPDES Permit No. IL0002259

ATTACHMENT B-2(c)

Effluent Limitations and Monitoring

Discharge Number(s):

002(c)

See Attachment G

Discharge Name(s):

(PCBs)

East Ash Pond - Supernatant from Dredge Lagoon

From effective date of permit until September 30, 1980, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

		MITS mg		1	LOAD LIMITS bs/day (Kg/d		1	
PARAMETER	30 DAY AVG.	7 DAY AVG.	MAX.	30 DAY AVG.	7 DÀY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)	-1	*		*	4		Continuou	s When
							Discharge	Occurs
pH	See Att	achment	B-2(c)	Continued		106	3/Week	Grab
Total Suspended					¥			
Solids			15				3/Week	Composit
Oil and Grease	15		20				Monthly	Grab
**Polychlorinate	d							
Biphenyls								

Weekly

Grab

Page 19

#### NPDES Permit No. IL0002259

#### ATTACHMENT B-2(c) CONTINUED

- The pH shall be in the range 6.0 to 9.0.
- 2. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge but prior to mixing with other wastewaters except pH shall be monitored prior to mixing with Lake Michigan.
- 3. If the discharge of OO2(c) cannot meet the appropriate standards discharge shall be diverted to the recirculating combined wastewater treatment system (OO1b).

Page 20

#### NPDES Permit No. IL0002259

#### ATTACHMENT B-2(d)

Effluent Limitations and Monitoring

Discharge Number(s):

002(d)

Discharge Name(s):

West Ash Pond - Ash Sluice and Demineralizer Filter Backwash

From effective date of permit until July 31, 1979, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

		MITS mo		16	s/day (Kg/da	ay)	Za STOTA A	
PARAMETER	AVG.	7 DAY AVG.	MAX.	30 DAY AVG.	AVG.	MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)							Continuou	s When
k =							Discharge	Occurs
pH	See Att	achment	b-2(d)	Continued		•	3/Week	Grab
Total Suspended					*		- 0	
Solids			15				3/Week	Composite
Oil and Grease	15		20				Monthly	Grab
Iron (total)	(-)		_				Weekly	Grab
Copper (total)	4		-	100			Weekly	Grab

Page 21

## NPDES Permit No. IL0002259

#### ATTACHMENT B-2(d) CONTINUED

- 1. The pH shall be in the range 6.0 to 9.0.
- 2. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge but prior to mixing with other wastewaters except pH shall be monitored prior to mixing with Lake Michigan.

age 22

NPDES Permit No. IL0002259

ATTACHMENT B-3

Effluent Limitations and Monitoring

discharge Number(s):

003

ischarge Name(s):

Intake Screen Backwash

from effective date of permit until September 30, 1980, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

CONCENTRATION LOAD LIMITS 1bs/day (Kg/day) 7 DAY LIMITS mg/1 30 DAY DAILY SAMPLE 7 DAY DAILY SAMPLE AVG. AVG. MAX. AVG. AVG. MAX. FREQUENCY TYPE

low (MGD)

Estimate

During Discharge

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

Page 23

#### NPDES Permit No. IL0002259

#### ATTACHMENT G

#### Special Conditions

 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 mailed and received by the IEPA 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 Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road Springfield, Illinois 62706

Attention: NPDES Unit (DMR)

Additionally, Discharge Monitoring Report forms shall be mailed to United States Environmental Protection Agency in Chicago on a quarterly basis. The permittee shall submit the reports as follows, unless otherwise specified by the permitting authority.

Period

Report Due At

U.S. Environmental Protection Agency

Jan, Feb, Mar April, May, June July, Aug, Sept Oct, Nov, Dec April 28th July 28th October 28th January 28th

Reports shall be addressed to United States Environmental Protection Agency as follows:

NPDES Compliance Unit
United States Environmental Protection Agency
Region V
230 South Dearborn Street
Chicago, Illinois 60604

The Permittee shall also notify the United States Environmental Protection Agency of any excursions as required by Standard Condition Number 12.

Page 24

#### NPDES Permit No. IL0002259

#### ATTACHMENT G

#### Special Conditions

2. There shall be no discharge of water side boiler cleaning wastes.

#### 3. Thermal Discharge Limitations

During the period beginning with the effective date of this permit until September 31, 1980 the permittee is authorized to discharge heated effluent from outfall serial number 001(a).

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

- a. The discharge of heat shall be restricted to that associated with generation of 1016 MWe of electric power with the generating equipment on-site as of July 1, 1977.
- b. The company shall perform studies pursuant to the conditions specified in NPDES Permit No. IL0002763 for the Zion Generating station as a condition of alternative effluent limitations pursuant to Section 316(a) of the Act.

#### \*\*4. Dredge Decant Water

Prior to the first discharge of supernatant from the east ash settling pond, the Company shall analyze and report to IEPA and U.S. EPA Region V, the levels of PCBs, if any, in the ash pond; and secondly, the Company shall request in writing to the IEPA, permission to discharge from the ash pond to the recycle treatment system (outfall 001(b)) or, if the discharge from the ash pond will meet all applicable effluent standards, to the perimeter ditch surrounding the ash pond having outfall designation 002(c). After the Company has obtained permission to discharge, the Company thereafter may discharge as necessary without prior notification to either IEPA or U.S. EPA. Weekly grab samples (or, if the discharge occurs less than once per week, whenever a discharge occurs) collected prior to the mixing with other waters shall be analyzed without delay for PCBs, with results reported by phone and a follow-up in writing promptly to the Illinois EPA and U.S. EPA.

If PCBs are detected above background levels in accordance with USEPA methods for measurement of PCBs in Industrial Effluent pursuant to 40 CFR Part 136, discharge from the east ash pond shall be ceased immediately and notifed immediately. In the event discharge is ceased because of detection of PCBs, the Company shall request in writing to the IEPA permission to resume discharge from the east ash pond.

For the purpose of this permit detection limits for PCBs shall be equal to or less than 0.1 ppb unless otherwise specified by the IEPA and concurred to by the U.S. EPA.

Page 25

#### NPDES Permit No. IL0002259

#### ATTACHMENT G

#### Special Conditions

5. The permittee shall monitor and report the following listed parameters at 6 month intervals for outfalls 001(b), 001(c), 001(b)2, 001(b)1, 002(c), 002(a), and 002(b). The sample shall be a 24-hour effluent composite except as otherwise specifically provided below and the results shall be submitted with the monitoring reports for January and June to both IEPA and USEPA unless otherwise specified by the permitting authority. The parameters to be sampled are:

Arsenic (total) Barium (total) Cadmium (total) Chromium (total hexavalent) Chromium (total trivalent) Copper (total) Cyanide Fluoride (total) Iron (total) Iron (dissolved) Lead (total) Manganese (total) Mercury (total) Nickel (total) Oil, fats and greases\* Pheno1s Selenium (total) Silver Zinc (total)

In addition, the permittee shall monitor any new toxic substances as defined by the FWPCA following notification by the Illinois Environmental Protection Agency.

\*Sample shall be a grab sample.

If the permittee, after monitoring the above list twice, can demonstrate to the satisfaction of the permitting authority that there is no significant discharge of the designated parameters and that, in that time, the parameters have not exceeded the effluent limit set for said parameters, upon written request by the permittee, the permitting authority shall review the monitoring requirements and may, at their discretion, revise or waive these monitoring requirements by letter without public notice or opportunity for hearing.

There shall be no discharge of polychlorinated biphenyl compounds from process wastewaters or storm water runoff.

# **EXHIBIT I**



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

RET.

16-PER-H1

230 SOUTH DEARBORN ST. CHICAGO, ILLINOIS 60604

Mr. John Hughes Director of Water Quality Commonwealth Edison Company Post Office Box 767 Chicago, Illinois 60690 74H 2 C 1973

Re: Commonwealth Edison Company Zion Nuclear Generating Station NPDES Permit No: 1L 0002763

> Waukegan Generating Station NPDES Permit No: IL 0002259

Dear Mr. Hughes

On June 30, 1977, Region V communicated to you its determination pursuant to §316(a) of the Federal Water Pollution Control Act, as amended, to impose alternative thermal limitations in the referenced NPDES permits contingent on the performance of a monitoring program. That program was to be based on a draft report by Spigarelli and Murarka of Argonne National Laboratory entitled "Recommendations for Future Monitoring at Zion, Waukegan and other Lake Michigan Power Plants: A Report to EPA, Region V" (Argonne Report). You commented on the draft Argonne Report on June 15, 1977, and it was subsequently revised in July 1977. A copy of the revision was given to Mr. Jim Rice of Commonwealth Edison who discussed it informally with Mr. Gary Milburn of my staff.

While your June 1977 comments and subsequent discussions with Mr. Rice suggest that you are in substantial agreement with the Argonne recommendations, certain differences do exist and are addressed below. These include dissolved oxygen monitoring, frequency of phytoplankton and zooplankton sampling, and egg and larval monitoring frequency. More specific issues within these categories are also discussed.

Concerning the comments at the bottom of page 4 of your letter, EPA cannot be responsible for adoption or endorsement of this program by the Illinois EPA or the U. S. Nuclear Regulatory Commission (NRC). We believe Edison is aware of our recent correspondence with Mr. Edson Case in which we have discussed the proposed lake-wide monitoring program and requested that the NRC review that program and coordinate their Environmental and Technical Specification requirements so that duplicative and wasteful efforts are reduced.

Edison is aware that Region V fully intends to implement a lake-wide monitoring program and to require other utilities to participate either as a condition of our concurrence in §316(a) determinations, as part of our concurrence in future environmental impact statements in which once-through cooling is proposed, or potentially as part of §316(b) determinations or monitoring requirements. Each additional increment of once-through cooling on the Lake will need to sustain a higher burden of proof. Our predictive capabilities and our understanding of the Lake Michigan ecosystem must be greatly improved if once-through cooling is to be a viable option at all.

Concerning the monitoring categories mentioned earlier we propose the following resolutions where differences with the Argonne Plan were indicated in your June 1977 response:

#### Table 4: Dissolved Oxygen

Continuous or twice daily measurements of the dissolved oxygen will be required but only for one year. This data will compliment the gassupersaturation model (table 18, page 2) verifications which you have agreed to perform by providing exposure histories. In addition, the dissolved oxygen measurements will give some indication of the frequency, duration, timing and degree of gas-supersaturation during the year.

#### Table 11: Phytoplankton and Zooplankton

We propose to adopt the schedule recommended by Common wealth Edison that is, sampling once a week.

We note that Argonne has changed their recommendation such that increased plankton sampling would have been necessary only if chlorophyll concentrations changed > 15% between successive samples. We are not at this time requiring that Edison adhere to that recommendation. Chlorophyll-a (table 10) and  $N_2$  fixation (table 12) must also be measured once a week. However, Mr. Rice has informally proposed that No fixation only be measured if phytoplankton sampling indicates nitrogen fixers. We believe that the proposal is unacceptable because phytoplankton would not have been analyzed, and if they were, No sample collection would occur sometime after the phytoplankton sampling. Thus, no direct comparison could be made. In further response to your comments on table 12, we are aware that the majority of phytoplankton in the area of Zion and Waukegan are not nitrogen fixing. However, these phytoplankton can be important nuisance organisms, and heat in combination with nutrients is known to stimulate their growth. We believe it important to obtain better understanding of how these organisms are affected, if at all, by condenser passage and thermal stimulation.

Table 5 - Total Dissolved Solids

Table 6 - Turbidity

Table 7 - Total and Soluble Phosphorus

Table 8 - Soluble Silica

Table 9 - Organic Carbon

Based on the above requirement for phytoplankton-zooplankton sampling the following parameters should be sampled on all plankton sampling and acoustic survey days: total dissolved solids (TDS), turbidity, total phosphorus, soluble phosphorus, soluble silca, and organic carbon.

This requirement is consistent with the Edison recommendations and subsequent discussions with Mr. Rice.

Table 13: Benthos - no disagreement.

Table 14: Acoustic Fish Surveys

The 7 survey periods, 4 consecutive sample days per survey period, recommended by Edison is acceptable, with the understanding that at least 2 nights be sampled as well.

Table 15: Fish-Trawl and Gill Nets

The 7 survey periods, 4 sample days per survey period, recommended by Edison is acceptable.

Table 16: Impingement

The Argonne recommendation was based on a statistical analysis of previous years impingement data and was designed to provide a higher precision estimate of fish impingement losses. For this reason we believe it should be adhered to. Based on the Argonne recommendations, further discussions with Drs. Spigarelli and Murarka, and the Edison recommendations, the following impingement sampling schedule will be required:

Once per week during the year except 1) during the spring period of peak smelt impingement when ten continuous days shall be sampled; 2) during the period of peak alewife impingement when 30 continuous days shall be sampled to begin at the onset of spring inshore migration [about May I, for Zion]; 3) during the fall period when peak smelt and alewife impingement occurs, ten continuous days shall be sampled.

We calculate that approximately 94 days would be sampled annually under this schedule. Under the Edison recommended schedule approximately 104 days would be sampled.

#### Table 17: Eggs and Larvae

Deletion of sampling for eggs and larvae at the intake as recommended by Edison is not acceptable.

Sampling for eggs and larvae shall be conducted once per week except during periods of peak abundance when sampling shall be every other day.

#### Table 18: Other Recommendations by Argonne

We will only comment where Edison has expressed a recommendation different than that by Argonne which has not been dealt with above.

#### P. 3 Concerning Phytoplankton and Zooplankton

EPA will not ask Edison to sponsor a review group.

With respect to measuring length, frequency, sex ratio and fecundity of Mysis and Pontoporeia, these measurements are needed to supply a baseline for macrobenthos population dynamics. Sampling at the intake should not be arduous and is certainly less costly than conducting such sampling in the lake.

#### P. 4 Fish Monitoring

While we recognize and encouraged the efforts of the Lake Michigan Utility Group in sponsoring the Limnetics report on Lake Michigan Fish Populations, we believe that effort is far from "complete". We view that work as a building block for future efforts particularly as the data base improves.

Fish sampling with seine nets is a necessity. Without such sampling, there is no way of knowing what is in the nearshore area which often has many species not found offshore.

The revision of the Argonne Report now recommends (p. 26) that simulation modeling be applied to selected species. Edison has not had a chance to comment on this recommendation. While we recognize that modeling has many limitations we believe it offers another useful tool in attempting to assess lakewide impacts. We believe that such a model is necessary in attempting to assess new uses of the Lake. The Lake Michigan Utility Group should be looking carefully at a future effort in that direction. Certain basic data must be available for such a model, and if that data is not available now, then efforts should begin to collect such information.

Finally, it is not our wish to impose costly non-productive monitoring efforts on the utility industry. We expect to review these efforts at least yearly, and perhaps more often, and to make adjustments if they are needed. Therefore, we will expect you to submit the data at the end of the first year's program. We will analyze the data and notify you as soon as possible of any changes desired. However, you will be expected to continue the program into the next year until you hear otherwise from us.

Enclosed with this letter are modified NPDES permits for Zion and Waukegan Stations reflecting our §316(a) determinations and the conditions thereof. Conducting the program at Zion is a condition of the §316(a) alternative thermal limitations granted for the Zion and Waukegan Stations on June 30, 1977.

If you have any questions, please contact Vacys J. Saulys at 312/353-2098 or Gail C. Ginsberg at 312/353-2094.

Very truly yours,

Dale S. Bryson, Acting Director Enforcement Division

Attachments

cc: w/Attachments

Michael Mauzy Illinois Environmental Protection Agency

A. Daniel Feldman, Esquire Isham, Lincoln, & Beale

Thomas Eisele Lake Michigan Federation

David Comey Citizens For A Better Environment

Robert Welford Bureau of Sport Fisheries and Wildlife Edson Case U.S. Nuclear Regulatory Commission

Suzanna Carlson 1636 N. Wells - Apt. 709 Chicago, Illinois 60614

Catherine Quigg, President Pollution & Environmental Problems Box 309 Palatine, Illinois 60067

James Park
Illinois Environmental
Protection Agency

Electronic Filing - Received, Clerk's Office: 11/14/2016

## Monitoring Program for Zion Nuclear Generating Station

Parameter	Units	Location	Frequency	Method (Ref)	Report
Physical-Hydrological					
Temperature	C°/F°	<pre>Intake Discharge(s)</pre>	Continuous	Available	Hourly X
Lake current	ft./sec.	Minimum of two	Continuous	Ducted impeller, record	Vector analysis
Chemical Chemical					
Chlorine residual	mg/l	Discharge	All fish survey days	Amperometric	x range for each chlorination period
Dissolved O <sub>2</sub> , N <sub>2</sub>	mg/l % sat.	Intake Discharge (s)	2/24 hr or continuous (1 year only)	Meter	Hourly or daily means
Gas Plume	и	Model verifica- tion plume map	2/condition	Continuous flow	Model predictions and verifications
Total dissolved solids (TDS)	mg/l	Intake	2/24 hr, 1/wk & all plankton samples & acoustical surveys	Std. methods	Daily or weekly means
Turbidity	N.T.U.	u	Same as TDS & fish sample days	Turbidimeter	
Total phosphorus	mg/l	11	Same as TDS	Isobutanol (20)	ii .
Soluble phosphorus	II .	п	11	u	· · · · · · ·
Soluble silica	H	n	u .	Auto analyzer	u
Organic carbon	II	Intake	Same as TDS	Carbon analyzer	Daily or weekly means

## Monitoring Program for Zion Nuclear Generating Station (continued)

	Parameter	Units	Location	Frequency	Method (Ref)	Report
1	Biological					
	Phytoplankton Zooplankton (nutrient change)		Intake "	Once weekly	(2)	Dates, sample #
	Chlorophyll-a		4	once weekly	Fluorometer	All data
	N <sub>2</sub> fixation	[+]	u -	once weekly	Acetylene reductions	н
	Benthos Mysids					
	Amphipods		Intake	2/month; 1/week	(2)	All data
	Fish Acoustic surveys		Plume Reference	7/days 4/consecutive days/survey at least 2 nights	(13,14)	
	Trawl-nets		··· ii	11	(2)	
`	Impingement		Intake Screens	Once per week duthe year except during the sprin period of peak simpingement wher continuous days be sampled; (2) the period of spring migration jabout	(1)  ing -  smelt  in ten  shall  during  eak alewife  in 30  shall be  in at the  lishore	Daily totals by species

#### Monitoring Program for Zion Nuclear Generating Station

	Parameter	Units	Location	Frequency	Method (Ref)	Report	
				3) during the fall period when smelt and alewife impingement occurs, ten continuous days shall be sampled.			
	Eggs-larvae		Intake forebay	1/week, every other day during peak abundances	(2)	Sample totals by species	
•			•				

Note: This monitoring program is based upon and is to be guided by the July 1977 report, "Recommendations for Future Monitoring at Zion, Waukegan, and Other Lake Michigan Power Plants: A Report to U.S. EPA (Region V)", and any subsequent revisions to that report. All references are contained on pp. 30-31 of that report.

# **EXHIBIT J**



Illinois Environmental Protection Agency + 2200 Churchill Road, Springfield, IL 62706

217/782-0610

Commonwealth Edison Company Waukegan Generating Station NPDES Permit No. IL0002259 Modification of NPDES Permit (Without Public Notice)

OCT 2 4 1985

Commonwealth Edison Company Attn: Thomas E. Hemminger Post Office Box 767 60690 Chicago, Illinois

#### Gentlemen:

The Illinois Environmental Protection Agency has examined the request for modification of the above-referenced NPDES Permit as stated in your letter of September 24, 1985. Our final determination is to modify the Permit as follows:

Applicable effluent limitations have been applied under Outfall No.'s 003 and 004 and a footnote has been added for clarification of flows. Special Condition No. 7 has been modified to note the previous submission of a 316(b) demonstration by Commonwealth Edison Company.

The Agency is unable to grant other modifications you requested because they are inconsistent with applicable regulations and/or policy.

Enclosed is a copy of the modified Permit. Because the changes made in the Permit were minor, no formal Public Notice of the modification will be issued.

Should you have questions or comments, please contact Gary Cima of my staff.

Very truly yours.

Thomas G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

homas G. M. Swiggin

TGM:GC:bjh/2271E/38

Enclosure

cc: USEPA/With Enclosure Region 2/With Enclosure

Permit Section Records Unit

## Electronic Filing - Received, Clerk's Office: 11/14/2016 NPDES Permit No. IL0002259

### Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date: August 1, 1990

Issue Date: September 30, 1985 Effective Date: October 30, 1985

Modification Issue Date: October 24, 1985 Modification Effective Date: Nov. 23, 1985

Name and Address of Permittee:

Facility Name and Address:

Commonwealth Edison Company

Post Office Box 767

Chicago, Illinois 60690 Commonwealth Edison Company Waukegan Generating Station

10 Greenwood Avenue

Waukegan, Illinois 60087

(Lake County)

Discharge Number and Name:

Receiving Waters: Lake Michigan

Condenser Cooling Water and House Service Water 001

001(a) Boiler Blowdown

001(b) Demineralizer Regenerant Wastes

001(c) Wastewater Treatment System Effluent

001(d) East Yard Runoff Collection Basin Overflow/Discharge

001(e) Demineralized Water (Off-Specification Bypass)

001(f) Intake Screen Backwash

West Yard Runoff Collection Basin Discharge 002

East Ash Pond Overflow 003

004 West Ash Pond Overflow

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 G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

TGM:GC:jab/1374E/sp

Modification Date: Oct. 24, 1985

Page 2

#### NPDES Permit No. IL0002259

## Effluent Limitations and Monitoring

		_IMITS /day		TRATION TS mg/l		
PARAMETER	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
<ol> <li>From the effe discharge(s) sha</li> </ol>	ective date of 11 be monitor	f this permit unt red and limited a	il August 1, 199 t all times as f	O, the eff	luent of the	following
	Outfall(s):	: 001 Condenser (	Cooling Water an	d House Se	rvice Water	
This discharge c	onsists of:				Approx	imate Flow
<ol> <li>Wastewater T</li> <li>East Yard Ru</li> </ol>	e Water lown r Regenerant reatment Syst noff Collecti				589.0 MGD 27.0 MGD 0.08 MG 0.08 MG 4.07 MG 1.2 MGD Intermitt	D D
Flow					Daily	Calculated
Temperature	See Special	Condition No. 3			Daily	Continuous
Total Residual Chlorine				0.2	1/Week	Concentratio
Plant Capacity F	actor (% Capa	acity of 782 MW)			Daily	Monthly Average and Maximum
Waste Heat Rejec	tion Rate (bt	cu/hr)			Daily	Monthly Maximum
*See Special Con	dition No. 4					
	Outfall(s):	001(a) Boiler !	31 owdown			
						imate Flow O3 MGD

Flow

2/Month Calculated 24 Hour Tota

pH See Special Condition No. 1 2/Month Grab

Total Suspended Solids

15.0 30.0 2/Month 8 Hour Composite

Modification Date: Oct. 24, 1985

Page 3

Total Copper

## NPDES Permit No. IL0002259

#### Effluent Limitations and Monitoring

	LOAD LI 1bs/c	day	CONCENTRA LIMITS			
PARAMETER	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
l. From the effec discharge(s) shal	tive date of 1 be monitore	this permit until Aug ed and limited at all	just 1, 1990, times as fol <sup>1</sup>	the efflu lows:	uent of the f	fo <b>llowin</b> g
	Outfall(s):	001(b) Demineralizer	Regenerant V	Mastes		
					Approxim 0.08	mate Flow MGD
Flow		,			1/Week	24 Hour Total
рН	See Special	Condition No. 1			1/Week	Grab
Total Suspended Solids			15.0	30.0	1/Week	8 Hour Composite
	Outfall(s):	001(c) Wastewater Tr	reatment Syste	em Effluer	ıt	
This discharge co	nsists of:				Approxim	mate Flow
<ol> <li>East Ash Pond</li> <li>West Ash Pond</li> </ol>					5.0 M 5.0 M	
Flow					Daily	Continuous
рН	See Special	Condition No. 1			1/Week***	Grab
Total Suspended Solids			15.0	30.0	1/Week***	24 Hour Composite
Oil and Grease			15.0	20.0	1/Week***	Grab
Total Iron				1.0	2/Month***	24 Hour Composite

1.0

24 Hour Composite

<sup>\*\*</sup>The majority of ash pond discharge is recycled. Typically only one ash pond is in service at a time.

<sup>\*\*\*</sup>The sampling frequency shall be daily during discharge of non-chemical metal cleaning wastes.

Modification DAte: Oct. 24, 1985

24 Hour Total

Page 4

#### NPDES Permit No. IL0002259

## Effluent Limitations and Monitoring

	LOAD LIMITS 1bs/day		CONCENTR LIMITS			
PARAMETER	30 DAY	DAILY	30 DAY	DAILY	SAMPLE	SAMPLE
	AVG.	MAX.	AVG.	MAX.	FREQUENCY	TYPE

1. From the effective date of this permit until August 1, 1990, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

-	Outfall(s):	001(4)	Fast Yard	Runoff Collec	tion Rasin	Overflow/Di	scharge
This discharge co		001(4)	2450 1410	. Nanori Gorico	CTON BUSTA		imate Flow
1. East Yard Area Runoff 2. Units 1-4 Roof and Floor Drainage 3. Unit 6 Roof Drainage 4. East Yard Polymer Building Drains 5. Demineralizer Filter Backwash 6. Oil Separator Effluent 7. Laboratory Sink Drains 8. Units 7 and 8 Roof and Floor Drainage					Intermittent Intermittent Intermittent Intermittent O.03 MGD Intermittent Intermittent O.001 MGD		
Flow						Daily	Continuous
рН	See Special	Conditio	on No. 1			1/Week	Grab
Total Suspended Solids				15.0	30.0	1/Week	24 Hour Composite
Oil and Grease				15.0	20.0	1/Month	Grab
	Outfall(s):	001(e)	Demineral	ized Water (Of	f-Specifica		
						Approx Interm	imate Flow ittent
Flow						1/Week	Estimate
	Outfall(s):	001(f)	Intake Sc	reen Backwash			
						Approx	imate Flow 5 MGD
Flow						1/Month	Calculated

There shall be no discharge of collected debris.

Modification Date: Oct. 24, 1985

Page 5

#### NPDES Permit No. IL0002259

#### Effluent Limitations and Monitoring

	LOAD LIMITS 1bs/day		CONCENT			
			LIMIT			
	30 DAY	DAILY	30 DAY	DAILY	SAMPLE	SAMPLE
PARAMETER	AVG.	MAX.	AVG.	MAX.	FREQUENCY	TYPE

1. From the effective date of this permit until August 1, 1990, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 002 West Yard Runoff Collection Basin Discharge

This discharge	consists of:			Approx	imate Flow
<ol> <li>West Yard Area Runoff</li> <li>Car Dumper Area Runoff</li> <li>Main Switchyard Area Runoff</li> <li>West Yard Polymer Building Drains</li> <li>Peaker Sump Discharge</li> </ol>			Intermittent Intermittent Intermittent Intermittent Intermittent		
Flow				Daily	Continuous
рН	See Special Condition No. 1			1/Week	Grab
Total Suspended Solids		15.0	30.0	1/Week	24 Hour Composite
Oil and Grease		15.0	20.0	1/Month	Grab

Modification Date: Oct. 24, 1985

Page 6

#### NPDES Permit No. IL0002259

#### Effluent Limitations and Monitoring

	LOAD LIMITS 1bs/day		CONCENT			
			LIMIT			
	30 DAY	DAILY	30 DAY	DAILY	SAMPLE	SAMPLE
PARAMETER	AVG.	MAX.	AVG.	MAX.	FREQUENCY	TYPE

1. From the effective date of this permit until August 1, 1990, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 003 East Ash Pond Overflow\*\*\*\*\*

	outliff(b) to Eucotion . and	010.110.			
Thi	s discharge consists of:	Approximate Flow			
<ol> <li>Bottom Ash and Fly Ash Transport Water</li> <li>Ash Hopper Overflow</li> <li>Supernatant from the Dredge Spoil Lagoon****</li> <li>Coal Pile Runoff Collection Basin Overflow</li> <li>Non-Chemical Metal Cleaning Wastes</li> </ol>				5.0 MGD 1.0 MGD Intermittent Intermittent Intermittent	
Flo	W			1/Week	24 Hour Total
рН	See Special Condition No. 1			1/Week	Grab
	al Suspended olids	15.0	30.0	1/Week	24 Hour Composite
0i1	and Grease	15.0	20.0	1/Week	Grab
Tot	al Iron		1.0	2/Month***	24 Hour Composite
Tot	al Copper		1.0	* <del>**</del>	24 Hour Composite

\*\*\*The sampling frequency shall be daily during discharge of non-chemical metal cleaning wastes.

\*\*\*\*\*This is an emergency outfall. Ash pond effluent is normally directed to the wastewater treatment system which discharges via Outfall No. 001(c).

<sup>\*\*\*\*</sup>See Special Condition No. 5

Page 7

#### NPDES Permit No. IL0002259

#### Effluent Limitations and Monitoring

	LOAD LIMITS lbs/day		CONCENT			
			LIMIT			
	30 DAY	DAILY	30 DAY	DAILY	SAMPLE	SAMPLE
PARAMETER	AVG.	MAX.	AVG.	MAX.	FREQUENCY	TYPE

1. From the effective date of this permit until August 1, 1990, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 004 West Ash Pond Overflow\*\*\*\*

This discharge consists of:		Approximate Flow			
<ol> <li>Bottom Ash and Fly Ash Transport Water</li> <li>Ash Hopper Overflow</li> <li>Coal Pile Runoff Collection Basin Overflow</li> <li>Non-Chemical Metal Cleaning Wastes</li> <li>Supernatant from the Dredge Spoil Lagoon****</li> </ol>			5.0 MGD - 1.0 MGD Intermittent Intermittent Intermittent		
Flow			1/Week	24 Hour Total	
pH See Special Condition No. 1			1/Week	Grab	
Total Suspended Solids	15.0	30.0	1/Week	24 Hour Composite	
Oil and Grease	15.0	20.0	1/Week	Grab	
Total Iron		1.0	2/Month***	24 Hour Composite	
Total Copper		1.0	***	24 Hour Composite	

\*\*\*The sampling frequency shall be daily during discharge of non-chemical metal cleaning wastes.

\*\*\*\*See Special Condition No. 5

\*\*\*\*\*This is an emergency outfall. Ash pond effluent is normally directed to the wastewater treatment system which discharges via Outfall No. 001(c).

Modification Date: Oct. 24, 1985

Page 8

#### NPDES Permit No. IL0002259

### **Special Conditions**

- 1. The pH shall be in the range 6.0 to 9.0.
- 2. 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 Limitations

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

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

- a. The discharge of heat shall be restricted to that associated with generation of 1016 MWe of electric power with the generating equipment on-site as of July 1, 1977.
- b. Commonwealth Edison Company's demonstration for the Waukegan Generating Station in accordance with Section 316(a) of the CWA was approved by the Illinois Pollution Control Board in Order PCB 78-72, -73 Consolidated dated September 21, 1978. No additional monitoring or modification is now being required for reissuance of this NPDES Permit.
- 4. Chlorine may not be discharged from each units main cooling condensers for more than two hours in any one day.
  - a. The reported average concentration and maximum concentration for Total Residual Chlorine shall be based on a chlorine concentration curve generated during the respective chlorination period of each unit.
  - b. The concentration curves, sampling dates, the frequency and duration of the chlorine dosing period plus the amount of chlorine applied, shall be reported with Discharge Monitoring Reports.
- 5. There shall be no discharge of polychlorinated biphenyl compounds.
- There shall be no discharge of chemical metal cleaning agents and associated rinses unless this permit has been modified to include the new discharge.

Page 9

#### NPDES Permit No. IL0002259

#### **Special Conditions**

- 7. Commonwealth Edison Company shall submit to IEPA within six months from the effective date of this permit an operational plan to minimize impingement losses as supplement to a 1977 request for a determination pursuant to Section 316(b) of the CWA for the Waukegan Generating Station.
- 8. 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 no later than the 28th 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 Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road Springfield, Illinois 62706

Attention: Compliance Assurance Section

Additionally, Discharge Monitoring Report forms shall be mailed to United States Environmental Protection Agency in Chicago on a quarterly basis. The permittee shall submit the reports as follows, unless otherwise specified by the permitting authority.

Period

Report Due At

U.S. Environmental Protection Agency

Jan, Feb, Mar April, May, June July, Aug, Sept Oct, Nov, Dec April 28th July 28th October 28th January 28th

Reports shall be addressed to United States Environmental Protection Agency as follows:

NPDES Water Division - Compliance Section United States Environmental Protection Agency Region V 230 South Dearborn Street Chicago, Illinois 60604

#### ATTACHMENT H

#### 10

#### Standard Conditions

#### Definitions

Act means the illinois Environmental Protection Act, Ch. 111 1/2 Ill. Rev. Stat., Sec. 1001-1051 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 sec.

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 divided by the number of daily discharges measured during

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; for permit termination, revocation and reissuance, or 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 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.
- 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 the 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. 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.
- 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:
  - 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;
  - Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - 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

- 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. This period may be extended by request of the Agency at any time.
- (c) Records of monitoring information shall include
  - 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:
    - For a corporation: by a principal executive officer of at least the level of vice president;
    - (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
      - The written authorization is submitted to the Agency

11

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.

#### (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.
- 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) 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.
- 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 operfut.
- (e) 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 the noncompliance and its cause; the period of noncompliance, including exact dates and times; 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:
  - 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 promptly submit such facts or information.
- (13) Transfer of permits. A permit may be automatically transferred to a new permit
  - a) 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 agreement.
- (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 ug/fi):

- (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile, five hundred micrograms per liter (500 ug/l) for 2.4dinitrophenol and for 2-methyl-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.
- (15) 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 discharger 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.
- (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 204(b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;
  - 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
- (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 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.
- (18) 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.
- (19) 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.
- (20) 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 \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, or 308 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.
- (21) 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 permit 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.
- (22) 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 shall, 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 violetion, or by imprisonment for not more than 8 months per violation, or by both.
- (23) Collected screening, siumes, 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.
- (24) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.
- (25) The permittee shall compty with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. 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.

JFG:8450C (Rev. 12-13-83)