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FACT SHEET/STATEMENT OF BASIS NPDES PA0025615
Prepared by Kareen Milcic
Date: 7/13/90 Outfalls 001 thru 013
Phone: 412-645-7100 (8-645-710C)
(ES) Duquesne Light Company (MUN) Shippingport Borough
(AF) Beaver Valley Power Station (CO) Beaver

This is a renewal application for the Beaver Valley Power Station located on the Ohio River. Units #1 and #2 are atomic powered generating stations. The applicable effluent limitation guidelines are 40 CFR 423 - Steam Electric, F.R. Volume 47, November 19, 1982. BCT guidelines for this category have not yet been promulgated. Therefore, in all cases BCT has been assumed equivalent to BPT based on information from EPA that BCT, when developed will probably be equivalent to BPT.

Effluent Limitation Rationale

Technology Effluent Limitations

Internal Monitoring Point 101 consists of a 0.0264 mgd discharge from the chemical waste treatment system which includes demineralizer regenerants, lab sink drains, and Unit #1 auxiliary boiler blowdown. The applicable effluent limitations are based on the federal guidelines for low-volume waste sources - 40 CFR 423.12(b):

Pollutant	Maximum for Any One Day (mg/1)	Average of Daily Values For 30 Consecutive Days Shall Not Exceed (mg/l)			
Total Suspended Solids Oil and Grease	100.0	30.0			

Internal Monitoring Point 201 consists of a 0.0034 mgd discharge of softener regenerants. The applicable effluent limitation guidelines are 40 CFR 423.12(b) for low volume wastes (see Outfall 101).

Internal Monitoring Point 301 consists of 0.004 mgd discharge of the Unit #2 auxiliary boiler blowdown. The applicable effluent limitation guidelines are 40 CFR 423.12(b) for low volume wastes (see Outfall 101).

Internal Monitoring Point 401 consists of a 0.001 mgd discharge from the Unit #2 chemical feed area drains. The applicable effluent limitation guidelines are 40 CFR 412.12(b) for low volume wastes (see Outfall 101).

Outfall 001 consists of a 35.2 mgd discharge of Unit #1 and Unit #2 cooling tower blowdown, Outfalls 101, 201, 301, and 401, treated radioactive waste, and occasional clarified water. The applicable effluent limitation guidelines are 40 CFR 412.13(d) for cooling tower blowdown:

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(ES) Duquesne Light Comp	iny	(MUN)	Shippingport Borough		
(AF) Beaver Vailey Power	Station	(00)	Beaver		
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Pollutant Co	Maximum procentration (mg/1)	L	Average Concentration (mg/1)		
Free Available Chlorine	0.5		0.2		
Pollutant	Maximum for Any One Day (mg/1)	30 C	Average of Daily Values For onsecutive Days Shall Not Exceed (mg/l)		
The 126 priority pollutant maintenance. No detectabl	s contained in che e amount except:	micals	added for cooling tower		
Chromium Zinc	0.2		0.2 1.0		
It is the Department's und	erstanding that th	e perm	ittee does not add chromium or zin		

compounds to the cooling water. Therefore, no limitation or monitoring requirement has been placed on chromium or zinc, and the permittee is prohibited from adding chromium or zinc compounds to the cooling water unless the permittee obtains an amendment to this permit.

Neither free available chlorine nor total residual may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Regional Administrator or State, if the State has NPDES permit issuing authority, that the units in particular location cannot operate at or below this level of chlorination.

Special Conditions in Part C of this permit restrict the discharge of the 126 priority pollutants, free available and total residual chlorine, and the net addition of pollutants to non-contact cooling water. A condition has been placed in the permit for the permittee to obtain Departmental approval of chemical additives currently used at the facility.

No internal monitoring points (effluent limitation pages) have been placed in the permit for Unit #1 and Unit #2 cooling tower blowdown. These were listed as unnumbered process wastewater outfalls in the application and will be monitored at 001.

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NPDES PA0025615

(ES)	Duquesne Light Company	(MUN)	Shippingport Borough
(AF)	Beaver Valley Power Station	(00)	Beaver
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Treated radioactive waste from Unit #1 and Unit #2 has been added to the outfall description. This is consistent with the previous permit. However, an additional process wastewater of Unit #1 steam generator blowdown filter backwash was listed in the application. This discharge occurs 2 hrs/day, 5 days/week, 26 days/yr. An outfall page was not contained in the previous permit, nor was a description contained for this wastewater at Outfall 001. Therefore, an effluent limitation page with a flow monitoring requirement has been added to this permit. The additional wastewater description has been added to Outfall 001.

Internal Monitoring Point 102 consists of a 0.001 mgd discharge of intake screenhouse pump bearing cooling water leakage. The applicable effluent limitations are 40 CFR 423.12(b) for low volume wastes (see Outfall 101).

Outfall 002 consists of 0.0462 mgd of intake screen backwash water and Outfall 102. Debris collected on the intake trash racks shall not be returned to the waterway. A 1/week flow estimate is placed on this outfall which is in accordance with the Department's permitting of intake screen backwash water.

Internal Monitoring Point 103 consists of a 0.0224 mgd discharge of wastewater from the settiing basin handling sludge from the intake clarifier. Applicable effluent limitations are 40 CFR 423.12(b) for low volume wastes (see Outfall 101).

Internal Monitoring Point 203 consists of a 0.023 mgd discharge from the Unit #1 station sewage treatment plant. Secondary effluent limitations have been placed in the permit.

Internal Monitoring Point 303 consists of a 0.0576 mgd discharge of wastewater from the oil/water separator which treats Unit #1 turbine room floor drainage. The applicable effluent limitations are 40 CFR 423.12(b) for low volume wastes (see Outfall 101).

An unnumbered process wastewater described as condensate blowdown and uncontaminated river water was contained in the application. This discharge occurs only during shutdown for maintenance (0.288 mgd). The discharge occurs 24 hrs/day, 2 days/yr., 2 months/yr. and will be monitored at 003. Applicable effluent limitations are 40 CFR 423.12(b) for low volume wastes. An outfall page for Internal Monitoring Point 403 has been added to this permit.

Outfall 004 consists of a 2.8 mgd discharge from Unit #1 cooling tower overflow. The discharge occurs July thru October with very small discharges occurring in other months during pump switches. This overflow at Outfall 004 normally occurs during the

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months of July - October when the water level in the cooling tower basin is raised to increase pumping efficiency. The blowdown at Outfall OOL comes from the same basin, and the limitations and restrictions placed on 301 apply also to 004. (This is consistent with previous permit requirements.)

Outfall 006 consists of 0.036 mgd discharge of auxiliary intake screen backwash water. Debris removed from the trash rack shall not be returned to the waterway. A 1/week flow estimate has been placed on this outfall (see Outfall 002).

Outfall 007 consists of a 0.9 mgd auxiliary intake system testing water. The previous permit limitations apply. (When a discharge occurs, it will be chlorinated.) Monitoring for flow and free available chlorine are required only during those periods of discharge from the alternate flow path of the reactor plant river water systems.

Outfail 008 consists of a 0.001 mgd discharge of Unit #1 cooling tower pumphouse drains. The applicable effluent limitations are 40 CFR 412.12(b) for low volume wastes (see Outfail 101). An oil and grease, instantaneous maximum limit of 30 mg/l has been imposed based on Chapter 97.

Outfall 009 was deleted from previous permit (source was routed to 001).

Outfall 010 consists of a 12.1 mgd discharge of once-thru cooling water from Unit #2 heat exchangers. Applicable effluent limitations are 40 CFR 423.13(d) for cooling tower blowdown. (This is a BPJ of BAT for this type of wastewater. This outfall does not fall into the once-thru cooling water subcategory of the ELG.)

An unnumbered process wastewater outfall of 0.036 mgd Unit #2 service water strainer backwash was reported in this application. An internal monitoring point (Outfall 110) will be placed in the permit. Debris collected on the trash rack shall not be returned to the waterway. A 1/week flow estimate has been placed on this outfall. The additional description has been added to Outfall 010.

Outfall Oll consists of two unnumbered processes outfalls:

- 1) 0.019 mgd diesel generator building oil/water separator drain (OWS #22)
- 0.039 mgd turbine building oil/water separator drain (OWS #23)

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These sources will be monitored at Oll. Applicable effluent limitations are 40 CFR 423.12(b) for low volume wastes. An instantaneous maximum oil and grease limitation of 30 mg/l has been placed on this outfall which is in accordance with Chapter 97 of the Department's regulations.

This discharge also contains stormwater runoff which will be added to the outfall description.

Outfall 012 consists of 0.001 mgd of blowdown from the emergency response facility HVAC cooling tower. Consistent with the previous permit, no chlorine limitation will be imposed (chlorine is not used here). This discharge also contains stormwater runoff.

Internal Monitoring Point 213 consists of 0.072 mgd of Unit #2 cooling tower pumphouse floor and equipment drains. Applicable effluent limitations are 40 CFR 423.12(b) for low volume wastes (see Outfall 101).

A process wastewater reported as 0.019 mgd turbine building oil/water separator drain (OWS #21) will be numbered Internal Monitoring Point 313. Applicable effluent limitations are 40 CFR 412.12(b) for low volume wastes (see Outfall 101).

A process wastewater reported as 0.019 mgd bulk fuel oil storage oil/water separator drain (OWS #24) will be numbered Internal Monitoring Point 413. Applicable effluent limitations are 40 CFR 423.12(b) for low volume wastes (see Outrall 101).

Internal Monitoring Point 113 consists of a 0.023 mgd discharge from the Unit #2 sewage treatment plant. Secondary effluent limitations will be imposed.

This discharge also contains stormwater runoff.

Water Quality Based Effluent Limitations

Water Quality Analysis Template 2.04 was used to determine water quality based effluent limitations. The multiple discharge wasteload allocation was used to evaluate this permit.

Parameters of concern include Beryllium, Silver, Thallium, 2-Chlorophenol, Pentachlorophenol, Chloroform, 1,1,2,2-Tetrachloroethane and 1,1,2-Trichloroethane. The established limitations are lower than the screening detection limits used in the

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analysis of effluent quality. The draft permit will require additional sampling to confirm the presence/absence of these pollutants in the discharges.

	Method	Method Detection	Sample
Parameter	Number	Limit (ug/1)	Type
Seryllium	200.7	0.3	Grab
Silver	272.2	0.2	Grab
Thallium	279.1	100	Grab
2 Chlorophenol	604GC/ECD	0.58	Grab
Pentachlorophenol	604GC/FID	7.4	Grab
Chloroform	624GC/MS	1.5	Grab
1.1.2.2-Tetrachloroethane	601GC/Ha1	0.03	Grab
1,1,2-Trichloroethane	601GC/Ha1	0.02	Grab

The following outfalls are to be resampled - 011, 002, 001.

Alternate test methods may be substituted as long as the method detection limit is achieved. If the analytical testing is received within the comment period, the Department may review it to determine if Water Quality Based Effluent Limitations are necessary. Special Condition C-13 has been added to the permit to obtain the necessary data if the permittee does not supply it within the comment period.

Thermal Effluent Limitations do not need to be imposed. A Special Condition to Part C of the permit has been added to ensure that there is not a 2°F temperature rise in the receiving stream (in accordance with policy).

Other conditions contained in this permit include steps necessary to obtain approval of chemical additives currently used at the facility. On June 13, 1990 the Department approved the use of Clam-trol (CT-1) and Betz DT-1 at the Beaver Valley Power Station. The approval was granted for a plan of study. Continual use of the Betz products, will need a permit amendment.

A flow monitoring report will be requested during the draft permit period. This issue has been discussed with Duquesne Light (June 7, 1990) for the Phillips and Brunot Power Stations.

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FACT SHEET/STATEMENT OF BASIS

NPDES PA0025615

(ES) Duquesne Light Company (MUN) Shippingport Borough (AF) Beaver Valley Power Station

(CO) Beaver

Addendum to Fact Sheet

9/25/90

The Department offers the following comments to Duquesne Light's September 24, 1990 submission regarding the draft permit for the Beaver Valley Power Station.

The flow monitoring frequencies and sample type have been developed in accordance with the Department's Technical Guidance Chapter 6 - Developing and Specifying Self-Monitoring and Reporting Requirements in NPDES Permits. These requirements will not change in the final permit. Duquesne Light was to submit a flow monitoring program which was to outline the measures in place now at all of these outfalls. This information was to be submitted at the conclusion of the draft comment period, not by October 15, 1990.

Duquesne Light failed to submit the sample analysis to support the claim that hydrazine is not going to be discharged. A test monitoring program should be submitted to the Department for review. The scope of this program should be similar in nature to those required at the Phillips and Brunot Power Stations.

Oil and Grease effluent limitations will remain in the permit. Permit limitations must be established for every pollutant regulated in an applicable effiuent limitation guideline.

In Specifying Permit Limits Based on the Water Quality Analysis Model (January 14. 1987. Revision May 11, 1987) "The EPA has confirmed the difference between CBODs and BODs in its definition of secondary treatment. An equation has been established whereby, or average strength wastewater effluents after secondary treatment CBODs = BOD5 - 5 mg/l (where effluent BOD5 is 20-25 mg/l). The 5 mg/l represents the nitrog-enous fraction of the BOD5. The limits will remain 25 and 50 mg/l, monthly average. daily maximum respectively.

Since Outfall 003 is submerged, the monitoring frequencies and effluent limitations will be maintained at internal monitoring points 103, 203, 303, and 403.

The description for outfall 004 has been changed as requested.

Since Outfall 013 is submerged, the monitoring frequencies and effluent limitations will be maintained at internal monitoring points 113, 213, 313 and 413.

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Requirement C-11 will not be modified as requested. As discussed previously, 60 days is adequate time to complete this requirement.

The language in Condition C-13 has been clarified. Four samples has been changed to four monitoring reports.

Total Suspended Solids effluent limitations have been placed on internal monitoring point 501.

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1 Entered at 9:52 A.77. 31,1990

SEP 27 1995

DEPARTMENT OF ENVIRONMENTAL RESOURCES Recorder of Deepo office BUREAU OF WATER QUALITY MANAGEMENT Server County People

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT PA0025615

In compliance wit's the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq.,

Duquesne Light Company One Oxford Center 301 Grant Street Pittsburgh, PA 15219 is authorized to discharge from a facility located at

> Beaver Valley Power Station Shippingport Borough Beaver County

to receiving waters named

ER-BW0-15

Outfalls 001, 002, 003, 004, 006, 007, 008, 010, 011 Okio River Outfalls 012, 013 Peggs Run

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B, and C of this permit.

This permit and the authorization to discharge shall expire at midnight

The authority granted by this permit is subject to the following further qualifications:

- If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
- Failure to comply with any of the terms or conditions of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of permit renewal.
- If this permit authorizes a sewage discharge, the permit winnot become operative until it is recorded in the office of the Recorder of Deeds in the y where the sewage discharge is located.
- 4. Application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the expiration date (unless permission has been granted by the Department for submission at a later date), using the appropriate NPDES permit application form. In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the termit before the expiration date, the terms and conditions of this permit will be automatically continued and will remain fully effective and enforceable pending the grant or denial of permit renewal.
- This permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

PERMIT ISSUED

DATE

BY eller Tim V. Dreier

Acting Regional Water Quality Manager

SEP 2 7 1990

Page 2a of 14 Permit PAP 25615 LAT. ---LONG. --

1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 101 WHICH RECEIVES WASTE FROM: Chemical Waste Treatment System (demineralizing regenerants, lab sink drains, Unit #1 Auxiliary Boiler blowdown)

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or ant*cipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

Discharge Parameter	01504	procupper i INITATIONS (pross unless otherwise indicated)						MONITORING REQUIREMENTS			
	Mass Units (1b/day except flow)			(mg/l unless otherwise indicated)					24-Hour Report		
	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Max.	Measurement Frequency	Sample Type	Under A.3.c.	•
Flow (mgd)								daily	continue	ens.	141
Suspended Solids				30		100		1/week	2 HC		N
011 and Grease				15		20		1/week	4 grabs/	24 H	3

not less than 6.0 nor greater than 9.0 standard units

1/week

grab

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

DH

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: At the discharge from the chemical waste sump prior to mixing with any other water

Page 2b of 14 Permit PA0025615 LAT. --LONG. --

 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 201 WHICH RECEIVES WASTE FROM: Softener Regenerants

a. The permitiee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	DISCHARGE LIMITATIONS (gross unless otherwise indicated)							MONITORING REQUIREMENTS			
	Mass Units (1b/day except flow)			Concentrations (mg/l unless otherwise indicated)						24-Hour Report	r	
Discharge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.		
Flow (mgd)								daily	continue	us	14	
Suspended Solids				30		100		1/week	2 HC		23	
011 and Grease				15		20		1/week	4 grabs/	24 H	100	

pH

not less than 6.0 nor greater than 9.0 standard units

1/week

grab

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: Wastewater from the softener unit prior to mixing with any other water

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1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 301 WHICH RECEIVES WASTE FROM: Unit #2 auxiliary boiler blowdown

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	NUSTO	ADCE I THI	ZMOITATIONS	laross unle	licated)	MONITORI	NG REQUIRE	QUIREMENTS 24-Hour			
	(1b/da	ass Units	flow)	(mg/1 un	Concentraless othe	rations erwise i	ndicated)			24-Hour Report	
Discharge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Frequency	Type	A.3.c.	-5
Flow (mgd)								daily	continuo	us	420
Suspended Solids				30		100		1/week	2 HC		
011 and Grease				15		20		1/week	4 grabs/	24 H	31

not less than 6.0 nor greater than 9.0 standard units

1/week

grab

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

DH

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: The discharge of boiler blowdown prior to mixing with any other water

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 401 WHICH RECEIVES WASTE FROM: Drains from the chemical feed area of the auxiliary boilers for Unit #2

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	ficated)	MONITOR	ING REQUIR	EMENTS	I-Hour port der 3.c.					
	(lb/da	lass Units ly except	s flow)	(mg/1 ur	Concentration Concentration	ations invise i	indicated)			24-Hour Report	-			
Discharge Parameter	Average Monthly	Average Weekly	Max. Dally	Average Monthly	Average Weekly	Max. Datly	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.				
Flow (mgd)								daily	continue	Jus	1			
Suspended Solids				30		100		1/week	2 HC		42			
011 and Grease				15		20		1/week	4 grabs/	24 H	1			

pH

not less than 6.0 nor greater than 9.0 standard units 1/week

eek

grab

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: Chemical feed area drains prior to mixing with any other water

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 501 WHICH RECEIVES WASTE FROM: Unit #1 steam generator blowdown filter backwash

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	licated)	MONITORING REQUIREMENTS				
	(1b/da	lass Units y except	flow)	(mg/l un	Concentr less othe	ations rwise 1	ndicated)			24-Hour Report
Discharge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								1/week	estimate	
Total Suspended Solids				30		100		1/week	grab	

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: Internal monitoring point 501 prior to mixing with any other water

Page 2f of 14 Permit PA0025615 LAT. 40°37'16" LONG. 80°26'10"

 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 001 WHICH RECEIVES WASTE FROM: Unit #1 and Unit #2 cooling tower blowdown, sources previously monitored at 101, 201, 301, and 401, treated rad waste and occasional clarified overflow a. The permittee is authorized to discharge during the period from issued date through expiration date.

	DISCHARGE LIMITATIONS (gross unless otherwise indicated)							MONITORING REQUIREMENTS				
	(1b/da	Mass Units (1b/day except flow)			Concentr less othe	ations rwise 1	ndicated)			24-Hour Report		
Discharge Parameter	Average Monthly	Average Weekly	Max. Dally	Average Monthly	Average Weekly	Max. Dally	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	×	
Flow (mgd)								daily	continuo	us	1	
Free Available Chlorine						0.2	0.5	1/week	grab		22	

It is the Department's understanding that the permittee does not add chromium or zinc compounds to the cooling water. Therefore, no limitation or monitoring requirement has been placed on chromium or zinc, and the permittee is prohibited from adding chromium or zinc compounds to the cooling water unless the permittee obtains an amendment to this permit. A fer to Part C for restrictions on the discharge of the 126 priority pollutants. free available and total residual chlorine, and the net addition of pollutants to non-contact cooling water.

pH not less than 6.0 nor greater than 9.0 standard units 1/week grab

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: Outfall 001

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grab

 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 102 WHICH RECEIVES WASTE FROM: Intake screenhouse (pump bearing cooling water leakage)

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	dicated)	MONITOR	ING REQUIRE	EMENTS	IS 4-Hour eport nder .3.c.				
	(1b/da	lass Units ly except	flow)	(mg/1 ur	Concentraless othe	rations erwise i	indicated)			24-Hour Report			
Discharge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	*		
Flow (mgd)								daily	continuo	Jus	14		
Suspended Solids				30		100		1/week	24 HC		17		
Oil and Grease				15		20		1/week	4 grabs/	24 H	SWCE .		

422 No 316

pH

not less than 6.0 nor greater than 9.0 standard units 1/week

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: The discharge of collected pump bearing leakage prior to mixing with any other water

Page 2h of 14 Permit PAC025615 LAT. 40°37'26" LONG. 80°26'07*

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL DO2 WHICH RECEIVES WASTE FROM: Intake screen backwash and pump bearing leakage from 102

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	licated)	MONITORING REQUIREMENTS					
	(1b/da	lass Units ly except	flow)	(mg/1 ur	Concentr less othe	ations erwise i	ndicated)			24-Hour Report	
Ischarge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	۲,
low (mgd)								1/week	estimate		1422
	Debris return	collecte med to the	ed on the waterwa	intake tra y.	ish racks	shall n	ot be				No. 317

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: Outfall 002

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 103 WHICH RECEIVES WASTE FROM: 1. Settling basin handling sludge from the intake clarifier

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	DISCHARGE LIMITATIONS (gross unless otherwise indicated)							ORING REQUIREMENTS 24-Hour Report					
	(1b/da	lass Units ly except	flow)	(mg/l un	Concentr less othe	ations rwise i	indicated)			24-Hour Report				
Discharge Parameter	Average Monthly	Average Weekly	Max. Dally	Average Monthly	Average Weekly	Max. Dally	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	10			
Flow (mgd)								daily	continuo	ius	142			
Suspended Solids				30		100		1/week	24 HC		2			
Dil and Grease				15		20		1/week	4 grabs/	24 H	3			

00

DH

not less than 6.0 nor greater than 9.0 standard units

1/week

grab

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: Dverflow from the basin prior to mixing with any other water

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1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 203 WHICH RECEIVES WASTE FROM: the sewage treatment plant at the main plant

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	NS (gross unless otherwise indicated)				MONITORING REQUIREMENTS		
	(1b/da	iy except	flow)	(mg/i un	Concentraless othe	ations rwise i	indicated)			24-Hour Report
Discharge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Dalîy	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)							1/week	measured		
CBOD-5 Day		25		50		2/month	8 HC			
Suspended Solids				30		60		?/month	8 HC	
Removal (BOD-5 Day &	SS) refe	r to Part	C							

Fecal Coliform Organisms	refer to Part C for effective disinfection	2/month	grab
рН	not less than 6.0 nor greater than 9.0 standard units	2/month	grab

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: Overflow from the chlorine contact tank prior to mixing with any other water

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 303 WHICH RECEIVES WASTE FROM: Oil water separator handling Unit #1 turbine room floor drain

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting 'ocuments and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ADCE I IMI	TATIONS	(oross unle	licated)	MONITORI	ING REQUIRE	MENTS			
	(1b/da	ass Units	flow)	(mg/1 ur	Concentraless othe	ations rwise i	ndicated)			24-Hour Report	
Discharge Parameter	Monthi	Average Weekly	Max. Dally	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Frequency	Sample Type	A.3.c.	. Y.
Flow (mod)								1/week	estima te		19
Suspended Solids				30		100		1/week	24 HC		11
011 and Grease				15		20		1/week	4 grabs/2	24 H	-

not less than 6.0 nor greater than 9.0 standard units

1/week

grab

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

pH

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Overflow from the oil water separator prior to mixing with any other water

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 403 WHICH RECEIVES WASTE FROM: Condensate blowdown and uncontaminated river water

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	ess otherw	icated)	MONITORING REQUIREMENTS				
	(1b/da	lass Units ly except	flow)	(mg/1 ur	Concentraless othe	ations rwise i	ndicated)			24-Hour Report	
ischarge Parameter low (mgd)	Average Monthly	Average Weekly	Max. Dally	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	×
low (mgd)								1/week	estimate		14
Suspended Solids				30		100		1/week	grab		22
011 and Grease				15		20		1/week	grab		: 32
											and a

Monitoring is applicable to 403 and must be shown on the DMR for 403 whenever there is a discharge at 403.

H

not less than 6.0 nor greater than 9.0 standard units

1/week

grab

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

amples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Ionitoring point 403 prior to mixing with any other water

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 003 WHICH RECEIVES WASTE FROM: See below

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Ictal (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	icated)	MONITORING REQUIREMENTS					
	(1b/da	ass Units y except	s flow)	(mg/1 ur	Concentr less othe	ations rwise i	ndicated)			24-Hour Report	
)ischarge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Max.	Measurement Frequency	Sample Type	Under A.3.c.	
Flow (mgd)								daily	continuo	ius	1422
	This storm 303,	discharge water rur and 403.	e shall c hoff and	onsist sole those sourc	ely of unc es monito	ontamin red at	ated yard 103, 203,				··· 322

pH

not less than 6.0 nor greater than 9.0 standard units

1/week

grab

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: Outfall 003

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 004 WHICH RECEIVES WASTE FROM: Unit #1 cooling tower overflow

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	ess otherw	vise ind	ficated)	MONITORING REQUIREMENTS							
	(1b/da	lass Units ny except	s flow)	(mg/lur	Concentraless othe	rations erwise i	indicated)			24-Hour Report					
<u>Discharge Parameter</u> Flow (mgd)	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.					
													daily	continuo	us
Free Available Chlorine						0.2	0.5	1/week	grab		422				
	This month tower	overflow is July the basin is	at Outfa aru Octob s raised	111 004 norm ber when the to increase	ally take water le pumping	es place evel in efficie	e during the the cooling ency. The				NG 323				

This overflow at Outfall 004 normally takes place during the months July thru October when the water level in the cooling tower basin is raised to increase pumping efficiency. The blowdown at Outfall 001 comes from the same basin, and the limitations and restrictions placed on 001 apply also to this 004. The only monitoring requirement at 004 is flow; monitoring results for other parameters at 001 will be considered applicable to 004 and must be shown on the DMR for 004 whenever there is a discharge at 004.

OH

not less than 6.0 nor greater than 9.0 standard units 1/week grab

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

Samples taken in compliance with the moniforing requirements specified above shall be taken at the following location: At the discharge pipe

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL OOG WHICH RECEIVES WASTE FROM: Auxiliary intake screen backwash water

b Based on the production data and/or anticipated wastewater characteristics and flows described in the permit pplication and its supporting documents and/or amendments, the following effluent limitations and monitoring equirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	licated)	MONITORING REQUIREMENTS				
	Mass Units (1b/day except flow)			(mg/1 ur	Concentr less othe	ations rwise i	ndicated)			24-Hour Report
Discharge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Frequency	Sample Type	A.3.c.
Flow (mgd)								1/week	estimate	d :

Debris removed from the intake trash racks shall not be returned to the waterways.

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: Outfall 006

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2.31

 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 007 WHICH RECEIVES WASTE FROM: Auxiliary intake system testing water and periodic discharge from Unit #2 reactor plant river water system

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	ss other	ise ind	licated)	MONITORING REQUIREMENTS			
Discharge Parameter Flow (mgd)	(1b/da	ass units y except	flow)	(mg/1 un	less othe	rwise i	ndicated)			24-Hour Report	
	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	
								1/week	estimate		ē.
Free Available Chlorine						0.2	0.5	1/week	grab		1422
	Monit	oring for during th	flow and	d free avai ods of disc	lable chi harge fro	orine a m the a	re required Iternate				Ma 325

Monitoring for flow and free available chlorine are required only during those periods of discharge from the alternate flow path of the reactor plant river water system. Also refer to Part C for additional restrictions on free available and total residual chlorine, and the net addition of pollutants to non-contact cooling water.

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

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: At the discharge pipe

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 008 WHICH RECEIVES WASTE FROM: Unit #1 cooling tower pumphouse drains

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIM	TATIONS	(gross unle	ess otherw	licated)	MONITOR	ING REQUIREN	MENTS		
	Mass Units (1b/day except flow)			(mg/1 u	Concentraless othe	ations rwise i	ndicated)			r -	
Discharge Parameter	Average Monthly	Average Weekly	Max. Dally	Average Monthly	Average Weekly	Max. Daily	Max.	Measureme c Frequency	Sample Type	Under A.3.c.	
Flow (mgd)								continuous	daily		5
Suspended Solids				30		100		1/week	24 HC		42
0il and Grease				15		20	30	1/week	4 grabs/2	14 H	2 32
											0

not less than 6.0 nor greater than 9.0 standard units

1/wzek

zek grab

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 it the following location: At the discharge pipe

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 110 WHICH RECEIVES WASTE FROM: Unit #2 service water strainer backwash

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCHARGE LIMITATIONS (gross unless otherwise indicated)							MONITORING REQUIREMENTS				
Discharge Parameter	Mass Units (lb/day except flow)		(mg/1 un	Concentr less othe	ations rwise i	indicated)			24-Hour Report			
	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	•	
Flow (mgd)								1/week	estimate		1422	
	Debri	s collect	ed on th	e strainer	shall not	he ret	urned to the				AL 327	

waterway.

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

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Monitoring point 110

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NG 328

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 010 WHICH RECEIVES WASTE FROM: Once-thru cooling water from Unit #2 heat exchangers and Outfall 110

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	(gross unle	licated)	MONITORING REQUIREMENTS					
	Mass Units (1b/day except flow)			(mg/lun	Concentr less othe	ations rwise i	ndicated)			24-Hour Report	
Discharge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	
Flow (mgd)								daily	continuo	us	1
Free Available Chlorine						0.2	0.5	1/week	grab dur chlorina	ing tion	42:

Refer to Part C for additional restrictions on free available and total residual chlorine, and the net addition of pollutants to non-contact cooling water.

pH

not less than 6.0 nor greater than 9.0 standard units 1/week

k grab

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: At the emergency overflow structure

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 011 WHICH RECEIVES WASTE FROM: Diesel generator building oil/water separator drain (OWS #22) and turbine building oil/water separator drain (OWS #23)

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIMI	TATIONS	INS (gross unless otherwise indicated)				MONITOR	ING REQUIR	EMENTS
	₩ (1b/da	lass Units ly except	flow)	(mg/1 un	Concentr less othe	ations rwise i	ndicated)			24-Hour Report
Discharge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Dally	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								daily	continue	us
Suspended Solids				30		100		1/week	24 HC	
011 and Grease				15		20	30	1/week	4 grabs/	/24 H

The two oil/water separators discharge into a common pipe, and the pipe also handles yard drainage. The overflow from each oil/water separator must meet the limitations shown on this page, but at this time the Department is requiring the permittee to only monitor the combined flow of the separators.

pH

not less than 6.0 nor greater than 9.0 standard units

1/week

eek

grab

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: at the discharge pipe

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grab

 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 012 WHICH RECEIVES WASTE FROM: Blowdown from the HVAC cooling tower serving the emergency response facility and stormwater runoff

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH (1b/da	ARGE LIMI	TATIONS	(gross unle	Concentr	ations	licated)	MONITOR	AENTS 24-Hour	
ischarge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								1/week	estimate	

It is the Department's understanding that the permittee does not add chlorine or chromium and zinc compounds to the cooling water. Therefore, no limitation or monitoring requirement has been placed on chlorine, or chromium and zinc, and the permittee is prohibited from adding chlorine, or chromium and zinc compounds to the cooling water unless the permittee obtains an amendment to this permit. Refer to Part C for restrictions on the discharge of the 126 priority pollutants, and the net addition of pollutants to non-contact cooling water.

pH

not less than 6.0 nor greater than 9.0 standard units 1/week

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: At the discharge pipe

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 113 WHICH RECEIVES WASTE FROM: the sewage treatment plant serving Unit #2 and handling sanitary wastes and softener regeneration wastes

a. The permittee is authorized to discharge during the period from issued date through expiration date.

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIM	ITATIONS	(gross unle	ess otherw	ise ind	licated)	MONITOR	ING REQUIRE	EMENTS 24-Hour			
	(1b/da	lass Units ly except	s flow)	(mg/1 ur	Concentraless othe	ations rwise i	ndicated)			24-Hour Report			
Discharge Parameter	Average Monthly	Average Weekly	Max. Dally	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	×		
Flow (mgd)	0.043							1/week	measured		1		
CBOD-5 Day				25		50		2/month	8 HC		22		
Suspended Solids				30		60		2/month	8 HC				

% Removal (BOD-5 Day & SS)	refer to Part C		
Fecal Coliform Organisms	refer to Part C for effective disinfection	2/month	grab
рН	not less than 6.0 nor greater than 9.0 standard units	2/month	grab

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: Overflow from the chlorine contact tank prior to mixing with any other water

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 213 WHICH RECEIVES WASTE FROM: Unit #2 cooling tower pumphouse floor and equipment drains

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIM	TATIONS	(gross unle	ss other	ise ind	licated)	MONITORING REQUIREMENTS				
Discharge Parameter	(1b/da Average Monthly	Average Weekly	flow) Max. Daily	(mg/l un Average Monthly	Concentr less othe Average Weekly	Max. Daily	ndicated) Instant. Max.	Measurement Frequency	Sample Type	24-Hour Report Under A.3.c.		
Flow (mgd)								dally	continuou	s		
Suspended Solids				30		100		1/week	24 HC		-	
011 and Grease				15		20		1/week	4 grabs/2	4 H	422 vol 332	
pH There shall be no disch	not 1 harge of flo	ess than ating sol	6.0 nor g ids or vi	greater tha Isible foam	n 9.C sta in other	ndard u than t	nits race amounts	1/week	grab			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Discharge from the pumphouse prior to mixing with any other water

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 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 313 WHICH RECEIVES WASTE FROM: Turbine building oil/water separator drain (OWS #21)

b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCH	ARGE LIM	ITATIONS	(gross unle	ess otherw	ise ind	licated)	MONITOR	ING REQUIR	EMENTS	
	(1b/da	lass Units ly except	s flow)	(mg/1 ur	Concentr less othe	ations rwise i	ndicated)			24-Hour Report	
Discharge Parameter	Average Monthly	Average Weekly	Max. Dally	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	
Flow (mgd)								daily	continuo	us	1
Suspended Solids				30		100		1/week	24 HC		42
011 and Grease				15		20		1/week	4 grabs/	24 H	1000

pH

not less than 6.0 nor greater than 9.0 standard units

1/week

grab

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: Discharge from OWS #21 prior to mixing with any other water

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- EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 413 WHICH RECEIVES WASTE FROM: Bulk fuel storage oil/water separator drain (OWS #24)
 - b. Based on the production data and/or anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.

	DISCHARGE LIMITATIONS (gross unless otherwise indicated)						MONITORING REQUIREMENTS				
Discharge Parameter	Mass Units (1b/day except flow)			Concentrations (mg/l unless otherwise indicated)					24-Hour Report	F	
	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.	er .c.
Flow (mgd)								daily	continue	us	×
Suspended Solids				30		100		1/week	24 HC		14
011 and Grease				15		20		1/week	4 grabs/	24 H	22
											94334

DH

not less than 6.0 nor greater than 9.0 standard units

units 1/

1/week

grab

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: Discharge from OWS #24 prior to mixing with any other water

b. Based applic requirements	tion data and/or anticipated wastewater characteristics and flows described in the permit supporting documents and/or amendments, the following effluent limitations and monitoring .y. Total (dissolved plus suspended fraction) is implied for each parameter unless otherwise indicated.											
Discharge Parameter	DISCHARGE LIMITATIONS (gross unless otherwise indicated)							MONITORING REQUIREMENTS				
	Mass Units (1b/day except flow)			(mg/1 ur	Concentraless othe	ations rwise i	ndicated)			24-Hour Report		
	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.		
Flow (mgd)								daily	continuo	ius 5		
										1422		

This discharge shall consist solely of uncontaminated stormwater runoff and the sources monitored at 113, 213, 313, and 413.

pH

See below

not less than 6.0 nor greater than 9.0 standard units

1/week

grab

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

1. EFFLUENT LT / TIOMS AND MONITORING REQUIREMENTS FOR OUTFALL 013 WHICH RECEIVES WASTE FROM:

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: At the discharge

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335

2. DEFINITIONS

- a. The "average monthly" mass 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 or sewage facility was operating. Where less than daily sampling is required by this permit, the average monthly mass discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
- b. The "average weekly" mass discharge means the total discharge by weight during a calendar week divided by the number of days in the week that the facilit was operating. Where less than daily sampling is required by this permit, the average weekly mass discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar week when the measurements were made.
- c. The "maximum daily" mass discharge means the total discharge by weight during any calendar day.
- d. The "average monthly" concentration means the arithmetic average of all the daily determinations of concentration made during a calendar month.
- e. The "average weekly" concentration means the arithmetic average of all the daily determinations of concentration made during a calendar week.
- The "maximum daily" concentration means the daily determination of concentration for any calendar day.
- 9. The "daily determination of concentration" means either the concentration of a composite sample taken during a calendar day or the arithmetic average of all grab samples taken during a calendar day.
- h. The "instantaneous maximum" concentration means the concentration not to be exceeded at any time in any grab sample.
- 1. The term "composite sample" means a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall not exceed 2 hours except that for wastes of a uniform nature the samples may be collected on a frequency of at least twice per working shift and shall be equally-spaced over a 24-hour period (or over the operating day if flows are of a shorter duration).
- j. The term "grab sample" means an individual sample collected in less than 15 minutes.
- k. The "average monthly flow" means the arithmetic mean of daily flow measurements taken during a calendar month.
- The term "measured flow" means any method of liquid volume measurement the accuracy of which has been previously deconstrated in engineering practice or for which a relationship to absolute volume has been obtained.

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- m. The term "estimated flow" means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters, and batch discharge volumes.
- n. The "average monthly" temperature means the arithmetic mean of temperature measurement made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month or during the operating month if flows are of a shorter duration.
- o. The "maximum daily" temperature means the highest arithmetic mean of the hourly temperatures observed for any 2 consecutive hours during a 24-hour day or during the operating day if flows are of a shorter duration.
- p. The term "i-s" means immersion stabilization in which a calibrated device is immersed in the effluent stream until the reading is stabilized.
- q. The term "non-contact cooling water" shall mean water which is used in a cooling system designed so as to maintain constant separation of the cooling medium from all contact with process chemicals but which may on occasion, as a result of corrosion, cooling system leakage or similar cooling system failures, contain small amounts of process chemicals: provided, that all reasonable measures have been taken to prevent, reduce, eliminate and control to the maximum extent feasible such contamination: and provided further, that all reasonable measures have been taken taken taken taken that will mitigate the effects of such contamination once it has occurred.
- r. The term "at outfall XXX" means a sampling location in outfall line XXX downstream from the last point at which wastes are added to outfall line XXX or otherwise specified.
- S. The term "bypass" means the intentional diversion of wastes from any portion of a treatment facility.
- t. The term "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 absance of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- u. The term "industrial user" means an establis ment which discharges or introduces industrial wastes into a publicly owned treatment works (POTW).
- v. The term "publicly owned treatment works" or "POTW" means a facility as defined by Section 212 of the Clean Water Act which is owned by a state or municipality, as defined by Section 502(4) of the Clean Water Act, including any sewers that convey wastewater to such a treatment works, but not including pipes, sewers or other conveyances not connected to a facility providing treatment. The term also means the municipality as defined in Section 502(4) of the Clean Water Act which has jurisdiction over the indirect discharges to and the discharges from such a treatment works.

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3. SELF-MONITORING, REPORTING AND RECORDS KEEPING

a. <u>Presentative</u> Sampling

Samples and measurements taken as required herein shull be representative of the volume and nature of the monitor, discharge.

- b. Reporting of Monitoring Results
 - (1) Monitoring results obtained during each month shall be summarized for that month and reported on a discharge monitoring report (DMR) postmarked no later than the 28th day of the following month. Signed copies of these and all other reports required herein, shall be submitted to the Department and the EPA Regional Office at the addresses listed in Part C of this permit.
 - (2) If the permittee monitors any pollutant using analytical methods described in Part A.3.e below more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.
- c. Non-Compliance Reporting
 - (1) 24-Hour Reporting The permittee shall orally report to the Department within 24 hours of becoming aware of the following:
 - (a) Actual or anticipated non-compliance with any term or condition of this permit which may endanger health or the environment.
 - (b) Actual or anticipated non-compliance with any "maximum daily" discharge limitation which is identified in Part A.1 of this permit as being:
 - A taxic pollutant effluent standard established by EPA pursuant to Section 307(a) of the Clean Water Act. or
 - (11) For toxic or hazardous pollutant which, if not adequately treated, could constitute a threat to human health, welfare, or the environment, or
 - (111) Any pollutant identified as the method to control a toxic pollutant or hazardous substance (i.e. indicator pollutant).

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PART A

- (c) Any unanticipated bypass which exceeds any effluent limitations in the permit.
- (d) Where the permittee orally reports this information within the above mentioned 24-hour time period, a written submission outlining the above information must be submitted to the Department within 5 days of becoming aware of such a condition unless this requirement is waived by the Department upon receipt of the oral report.
- (2) Other Non-Compliance Reporting
 - (a) The permittee shall give advance notice to the Department of any planned changes to the permitted activity or facility which may result in non-compliance with permit requirements.
 - (b) Where the permittee knows in advance of the need for a bypass which will exceed effluent limitations, it shall submit prior notice to the Department at least 10 days, if possible, before the date of the bypass.
 - (c) The permittee shall report all instances of non-compliance which are not reported above at the time of DMR submission.
- (3) The reports and notifications required above shall contain the following information:
 - (a) A description of the discharge and cause of non-compliance:
 - (b) The period of non-compliance, including exact dates and times and/or the anticipated time when the discharge will return to compliance; and
 - (c) Steps being taken to reduce, eliminate, and prevent recurrence of the non-complying discharge.
- d. <u>Specific Toxic Substance Notification Levels</u> Where the permittee is a manufacturing, commercial, mining, or silvicultural discharger, the permittee shall notify the Department as soon as it knows or has reason to believe the following:
 - (1) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit if that discharge will exceed the highest of the following "notification levels":
 - (a) One hundred micrograms per liter
 - (b) Two hundred micrograms per liter for acrolein and acrylonitrile
 - (c) Five hundred micrograms per liter for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol

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- (d) One milligram per liter for antimony
- (e) Five times the maximum concentration value reported for that pollutant in the permit application
- (f) Any other notification level established by the Department
- (2) That it has begun, or expects to begin, to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

e. Test Procedures

Unless otherwise specified in this permit, the test procedures for the analysis of pollutants shall be those contained in 40 CFR Part 136, or alternate test procedures approved pu suant to that part.

f. Recording of Results

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

- (1) The exact place, date, and time of sampling or measurements;
- (2) The person(s) who performed the sampling or measurements:
- (3) The dates the analyses were performed:
- (4) The person(s) who performed the analyses:
- (5) The analytical techniques or methods used; and
- (6) The results of such analyses.

g. Records Retention

All records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years. The 3-year period shall be extended as requested by the Department or the EPA Regional Administrator. Page 8 of 14

4. SCHEDULE OF COMPLIANCE

- a. If Part C of this permit contains a schedule of compliance, the permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with that schedule.
- b. No later than 14 calendar days following a date identified in the schesule of compliance, the permittee shall submit to the Department a written notice of compliance or non-compliance with the specific schedule requirement. In the case of non-compliance, the notice shall include the cause of non-compliance, any remedial actions taken, the estimated date when compliance with the elapsed date shall occur, and the probability of meeting the next scheduled requirement.

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1. MANAGEMENT REQUIREMENTS

- a. Permit Modification, Termination, or Revocation and Reissuance
 - This permit may be modified, terminated, or revoked and reissued during its term for any of the causes specified in 25 Pa. Code, Chapter 92.
 - (2) 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 non-compliance, does not stay any permit condition.
 - (3) Toxic Pollutants Notwithstanding the 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 Clean Water 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, then this permit shall be modified or revoked and reissued by the Department to conform with the toxic effluent standard or prohibition and the permittee so notified. In the absence of a Departmental action to modify or to revoke and reissue this permit, any toxic effluent standard or prohibition established under Section 307(a) of the Clean Water Act is considered to be effective and enforceable against the permittee.

Duty to Provide Information

- (1) The permittee shall furnish to the Department within a reasonable time any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- (2) The permittee shall furnish to the Department, upon request, copies of records required to be kept by this permit.
- (3) 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 Department, it shall promptly submit such facts or information to the Department.
- (4) The permittee shall give advance notice to the Department of any planned physical alterations or additions to the permitted facility.
- c. Where the Permittee is a Publicly Owned Treatment Works (POTW)
 - The permittee shall provide adequate notice as discussed in subparagraph c(2) below to the Department of the following:
 - (a) Any new introduction of pollutants into the POTW from an industrial user which would be subject to Sections 301 and 306 of the Clean Water Act if it were otherwise discharging directly into waters of the United States.

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(b) Any substantial change in the volume or character of pollutants being introduced into the POTW by an industrial user which was discharging into the POTW at the time of issuance of this permit.

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PART R

- (c) Any change in the quality and quantity of effluent introduced into the POTW.
- (d) The identity of significant industrial users served by the POTW which are subject to pretreatment standards adopted under Section 307(b) of the Clean Water Act; the POTW shall also identify the character and volume of pollutants discharged into the POTW by the industrial user.
- (2) The submission of the above information in the POTW's annual wasteload Management Report, required under the provisions of 25 Pa. Code, Chapter 94, will normally be considered as providing adequate notice to the Department. However, if the above changes in industrial pollutant loadings to the POIW are significant enough to warrant either modification or revocation and reissuance of this permit, then the permittee is required to meet the provisions of Part B.1.a above.
- (3) The POTW shall require all industrial users to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act and any regulations adopted thereunder, and the Clean Streams Law and any regulations adopted thereunder.
- (4) This permit shall be modified or alternatively, revoked and reissued, to incorporate an approved POTW pretreatment program or a compliance schedule for the development of such programs as required under Section 402(b)(8) of the Clean Water Act and regulations adopted thereunder or under the Department's approved pretreatment program.
- d. Bypassing
 - (1) <u>Bypassing not Exceeding Permit Limitations</u> The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, <u>but only if</u> the bypass is for essential maintenance to assure efficient operation. This type of bypassing is not subject to the reporting and notification requirements of Part A.3.c. above.
 - (2) Other Bypassing In all other situations bypassing is prohibited unless the following conditions are met:
 - (a) A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage";
 - (b) There are no feasible alternatives to a bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment down-time. (This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and

- (c) The permittee submitted the necessary reports required under Part A.3.c above.
- (3) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the 3 conditions listed above.

e. Adverse Impact

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from non-compliance with this permit.

f. Facilities Operation

The permittee shall at all times maintain in good working order and properly operate all facilities and systems (and related appurtenances) for collection and treatment which are installed or used by the permittee for water pollution control and abatement to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes but is not limited to effective performance based on designed facility removals, adequate funding, effective management, adequate operator staffing and training, and adequate laboratory and processing controls including appropriate quality assurance procedures. This provision includes the operation and backup of auxiliary facilities or similar systems when necessary to achieve compliance with this permit.

9. Reduction, Loss, or Failure of the Treatment Facilities

Where the permittee is a manufacturing, commercial, mining, or silvicultural discharger, then upon reduction, loss, or failure of the treatment facilities, and in order to maintain compliance with its permit, the permittee shall control production and all discharges until either the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

h. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from adversely affecting the environment.

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2. RESPONSIBILITIES

a. Right of Entry

Pursuant to Sections 5(b) and 305 of the Clean Streams Law and 25 Pa. Code, Chapter 92, the permittee shall allow the head of the Department, the EPA Regional Administrator, and/or their authorized representatives, upon the presentation of credentials and other documents as may be required by law:

- (1) 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
- (2) 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; to inspect any collection, treatment, pollution management, or discharge facilities required under this permit; and to sample any substances or parameters at any location.

b. Transfer of Ownership or Control

- (1) No permit may be transferred unless approved by the Department.
- (2) In the event of any pending change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the Department by letter of such pending change at least 30 days prior to the change in ownership or control.
- (3) The letter shall be accompanied by the appropriate Department forms for transfer of this permit and a written agreement between the existing permittee and the new owner or controller stating that the existing permittee shall be liable for violations of this permit up to and until the date of permit transfer and that the new owner or controller shall be liable for permit violations from that date on.

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- (4) After receipt of the documentation required above, the Department shall notify the existing permittee and the new owner or controller of its decision concerning approval of the transfer. In approving the transfer the Department may modify or revoke and reissue this permit.
- (5) In the event the Department does not approve transfer of this permit, the new owner or controller must submit a new permit application.

c. Confidentiality of Reports

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Except for data determined to be confidential under 25 Pa. Code. Chapter 92, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department and the EPA Regional Administrator. Effluent data shall not be considered confidential.

d. Penalties and Liability

- (1) Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for non-compliance pursuant to Section 309 of the Clean Water Act or Sections 602 or 605 of the Clean Streams Law.
- (2) 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 Clean Water Act.

e. 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.

f. Other Laws

Nothing herein contained shall be construed to be an intent on the part of the Department to approve any act made or to be made by the permittee inconsistent with the permittee's lawful powers or with existing laws of the Commonwealth regulating industrial and sewage wastes and the practice of professional engineering, nor shall this permit be construed to sanction any act otherwise forbidden by federal or state law or regulations, or by local ordinance. Nor does it preempt any duty to obtain state or local assent required by law for the discharges.

g. Severability

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

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PART C

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OTHER REQUIREMENTS

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 In accordance with Part A.3.b of this permit, the permittee shall submit a copy of the reports to each of the following:

> Department of Environmental Resources Bureau of Water Quality Management 600 Highland Building 121 South Highland Avenue Pittsburgh, Pennsylvania 15206-3988

U.S. Environmental Protection Agency Region III, Pennsylvania Section (3WM52) Water Permits Branch Water Management Division 841 Chestnut Street Philadelphia, Pennsylvania 19107

- For Outfall 203, effective disinfection to control disease producing organisms shall be the production of an effluent which will contain a concentration of fecal colliform organisms not greater than
 - a. 200/100 ml as a monthly geometric mean, nor greater than 1000/100 ml in more than ten percent of the samples examined during any month from May through September inclusive.
 - b. 2000/100 ml as a monthly geometric mean based on five consecutive samples collected on different days during any month from October through April inclusive.
- For Outfall 113, effective disinfection to control disease producing organisms shall be the production of an effluent which will contain a concentration of fecal coliform organisms not greater than
 - a. 200/100 ml as a monthly geometric mean of all values for effluent samples collected in any period of 30 consecutive days, nor exceed 400/100 ml in more than ten percent of the samples, during the months from May through October inclusive.
 - b. 2000/100 ml as a monthly geometric mean of all values for effluent samples collected in any period of 30 consecutive days, during the months from November through April inclusive.
- 4. In no case shall the arithmetic means of the effluent values of the biochemical oxygen demand (BOD-5 Day) and suspended solids discharged during a period of 30 consecutive days exceed 15 percent of respective arithmetic means of the influent values for those parameters during the same time period except as specifically authorized by the Department.

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OTHER REQUIREMENTS

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- There shall be no net addition of pollutants to non-contact cooling water over intake values except for heat, water conditioners and as provided in this permit.
- There shall be no discharge of polychlorinated byphenyl (PCB) compounds such as those commonly used for transformer fluid.
- 7. In cooling tower blowdown there shall be no detectable amount of the 126 priority pollutants from chemicals added for cooling tower maintenance. The 126 priority pollutants are listed at 40 CFR 423 Appendix A, and "no detectable amount" means that the pollutants are not detectable by the analytical methods at 40 CFR 136.
- 8. Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and nor more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the permittee can demonstrate to the Department that the units in a particular location cannot operate at or below this level of chlorination.
- 9. Waterborne releases of radioactive material to unrestricted areas shall conform to criteria set forth in T the 10 Code of Federal Regulations part 50 Appendix I - Numerical Guides for Design Objectives and Limiting Conditions For Operation To Meet The Criterion 'As Low As Is Reasonably Achievable" For Radioactive Material In Light-Water-Cooled Nuclear Reactor Effluents, as implemented through the Environmental Technical Specifications for the Facility. The facility operator shall provide the Department with copies of reports specifying the quantities of radioactive materials released to unrestricted areas in liquid/gaseous effluents. The facility operator shall provide the Department with copies of reports of the results of environmental surveillance activities and other such reports as necessary for the estimation of the dose consequential to facility operation. The above reports are to be forwarded to the following addresses:

Pennsylvania Department of Environmental Resources Bureau of Radiation Protection and Toxicology P.O. Box 2063 Harrisburg, Pennsylvania 17120

 The discharge may not change the temperature of the receiving stream by more than 2°F in any one hour period.

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PART C

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OTHER REQUIREMENTS

- 11. The permittee shall do the following to obtain Department approval for chemical additives currently used at its facility. Chemical additives are any compounds/substances added to water to alter the chemical/physical characteristics of the water to achieve:
 - Removal/elimination of undesired properties thus enhancing water quaity
 - 2. Removal of substances added in the operation of the facility
 - 3. Prevention of system fouling (corrosion and/or biofouling).

This definition encompasses substances/compounds added in production, treatment, cooling water, boiler feed water, or any other related water use.

Chemical additives include, but are not limited to any substances or compounds added to water for control of corrosion, scaling, algae, slime, or fouling in cooling, boiler, or process water systems.

Chemical additives include, but are not limited to agents used to aid in treatment such as water softeners, flocculants, coagulants, emulsion breakers, anti-foaming agents, dispersants, oxygen scavangers, pH stabilizers, and regenerants.

- A. The permittee shall submit all the data described below within sixty (60) days of issuance of this permit:
 - Name and address of chemical additive manufacturer.
 - Trade name(s) of additive.
 - List of ingredients of proposed/existing additive.
 - Proposed/existing additive usage rate lbs/day.
 - The "In-System" concentrations of whole product which the proposed usage rates will produce.
 - 96 hour LC50 bioassay data on whole product (mg/l). 96 hour LC50 bioassay data on the individual active and inactive (inert) ingredients may be submitted if whole product data is not available.
 - MSDS or other information on mammalian toxicity.
 - Available data on "in-system" degradation or decomposition of the additive.
 - Conditioned water discharge rate.
 - Flow diagram showing all wastewaters and point of chemical addition, and all affected outfalls.
- B. If bioassay data is not available from the product manufacturer, then the permittee shall develop the whole product bioassay data. Prior to conducting any bioassay testing, the permittee shall submit for approval the protocol to conduct bioassay testing.
- C. Until the Department approves the chemical additives, the permittee may continue to use the additives currently utilized at this facility.

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PART C

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OTHER REQUIREMENTS

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12. Effluent Chlorine Min'mization

The permittee will ensure that applied chlorine dosages, used for disinfection or other purposes, are optimized to the degree necessary to minimize the level of total residual chlorine (TRC) in the dischargers effluent. In doing so, the permittee is to consider relevant factors affecting required chlorine dosage, such as wastewater characteristics, mixing and contact times, and desired result of chlorination.

Should the Department find that levels of TRC in the permittee's effluent are causing negative water quality impact in the receiving stream, the permittee will be required to institute additional steps to reduce or eliminate such impact.

13. Duquesne Light is required to submit the following analysis at Outfalls 001, 002, 011:

Parameter	EPA Test Method	Detection Limit (ug/1)	Measurement Frequency	Sample Type	
Beryllium	200.7	0.3	2/month	24 HC	
Silver	272.2	0.2	2/month	24 HC	
Thallium	279.1	100	2/month	24 HC	
2-Chlorophenol	604GC/ECD	0.58	2/month	24 HC	
Pentachlorophenol	604GC/FID	7.4	2/month	24 HC	
Chloroform	624GC/MS	1.6	2/month	24 HC	
1,1,2,2 Tetrachloroethane	601GC/Ha1	0.03	2/month	24 HC	
1,1,2 Trichloroethane	601GC/Ha1	0.02	2/month	24 HC	

When collecting samples, the permittee shall use the methods and techniques in the attached instructions "Department of Environmental Resources, Bureau of Water Quality Management - Sampling and Analytical Testing Instructions" (October 1988).

Duquesne Light shall prepare a monthly analysis report to be submitted with the DMRs. The report shall specify the test number and the method detection limit used. Alternate test methods may be substituted as long as the method detection limit is achieved.

After obtaining the analyses of the four monitoring reports, the Department may modify Parts A and C of the permit.

The permittee may request a deletion of any Part C parameter which is consistently found to be non-detectable using the cited method. The permittee must put his request in writing and DER must review and approve the request before the deletion may become effective.

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mail to: Beaver Valley Power P.O. Box 4 Shippingport, PA 15077

NPDES Permit PA0025615 Duquesne Light Company Beaver Valley Power Station Shippingport Borough Beaver County

STATE OF PENNSYLVANIA COUNTY OF ALLEGHENY BEAVER

On the 27th day of September in the year one thousand nine hundred and ninety before me, the Subscriber, a Notary Public, came <u>Tim V. Dreier</u> and duly acknowledged the foregoing permit to be his act and deed and desired that the same might be recorded as such.

Witness my hand and notarial seal the day and year aforesaid.

Malia ARY NOTARIAL SEAL SEDRA A. DIVECCHIO. Notary Public Philisburgh, Allegheny County, PA Commission Expires Nov. 22, 1993 COMMONWEALTH OF PENNSYLVANIA | SS! COUNTY OF BRAVEP Recorded in the Recorder's Office of Said In Mile, Tok. Voli SALATA 1422 PAR This 31 Day of Oct. Fitness my hend and official Vilian D Recorder