

Beaver Valley Power Station P.O. Box 4 Shippingport, PA 15077-0004

THOMAS P. NOONAN Division Vice President Nuclear Operations (412) 393-7622 Fax (412) 393-4905

October 23, 1995 NPD3VPO: 0396

Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555

### NPDES Monthly Report, EPA Permit No. PA0025615

SUBJECT:

Beaver Valley Power Station, Unit No. 1 and No. 2

BV-1 Docket No. 50-334, License No. DPR-66 BV-2 Docket No. 50-412, License No. NPF-73

Dear Sir:

Enclosed is a copy of the NPDES Monthly Report as submitted to the Pennsylvania Department of Environmental Resources and a copy of the final NPDES Permit for the Beaver Valley Power Station issued September 29, 1995.

Sincerely,

T. P. Noonan

Division Vice President

Nuclear Operations

DNH/trs

cc: D. A. Orndorf

J. A. Cool

N. R. Tonet Central File

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9511020344 950930 PDR ADDCK 05000334 R PDR IE25



Beaver Valley Power Station P.O. Box 4 Shippingport, PA 15077-0004

THOMAS P. NOONAN Division Vice President Nuclear Operations (412) 393-7622 Fax (412) 393-4905

October 23, 1995 NPD3VPO: 0395

United States Environmental Protection Agency Region III, Pennsylvania (3WM53) Water Permits Branch Water Management Division 841 Chestnut Street Philadelphia, PA 19107

### NPDES Monthly Report, EPA Permit No. PA0025615

Dear Sir:

This letter forwards a copy of our NPDES Monthly Report as submitted to the Pennsylvania Department of Environmental Resources, Bureau of Water Quality Management

Sincerely,

T. P. Noonan

Division Vice President Nuclear Operations

DNH/trs

Attachment

cc: D. A. Orndorf

J. A. Cool N. R. Tonet Central File





# **Duquesne Light Company**

Beaver Vailey Power Station P.O. Box 4 Shippingport, PA 15077-0004

THOMAS P. NOONAN Division Vice President Nuclear Operations (412) 393-7622 Fax (412) 393-4905

October 23, 1995 NPD3VPO: 0394

Attention: "DMR Clerk"
Department of Environmental Resources
Bureau of Water Quality Management
400 Waterfront Drive
Pittsburgh, PA 15222

### NPDES Monthly Report, EPA Permit Number PA0025615

Gentlemen:

NPDES Monthly Report for Duquesne Light Company, Beaver Valley Power Station for September 1995 is submitted for your consideration.

Please be advised that required techniques, even if performed properly, do not measure actual conditions with 100 percent accuracy 100 percent of the time, and therefore, some reported values in the attached DMRs may not represent actual conditions with absolute accuracy.

Sincerely,

T. P. Noonan

Division Vice President

Nuclear Operations

DNH/trs

Enclosure

cc: D. A. Orndorf

J. A. Cool N. R. Tonet Central File



#### DISCHARGE MONITORING REPORT SUPPLEMENTAL SEWAGE SLUDGE REPORT

For

					400		
81	2.0	80	**	-		ton	
81	11.3	2.5	u	٠.	•	1331	15:

1. Complete monthly and submit with each DMR. Attach additional sheets and comments as needed for completeness and clarity.

2. Sludge production information will be used to evaluate plant performance. Report only sludge which has been removed from digesters and other solids which have been permanently removed from the treatment process. Do not include sludge from other plants which is processed at your facility.

3. In the disposal site section, report all sludge leaving your facility for disposal. If another plant processes and dispuses of your sludge, just provide the name of that plant. If you dispose of sludge from other plants, include their tonnage in the disposal site section and provide their names and individual dry tonnage on the back of this form.

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Plant: Beguer Valley Power Sky	צח עותילו
NPDES: PA ODAS615	
Municipality: snippingport	Borough
County: Beaver	9
sludge that is incinerated:	
re-incineration weight =	dry tons
ost-incineration weight *	dry tons

4. If no sludge was removed, note on form.

	HAULED AS LT				AS DEWATERED SI	UDGE
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DISPOSAL SITE INFORMATION: List all sites, even if not used this month

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PACCA0125	/ .		
Peavel		<u></u>	
		Bose of Margara Source Transment Plant PACCAOIAS	Bore of Margara Surrey Tradment Picat PACCAOIDS

X All LABOUT CHEMISTRY MANAGER 1-124/95 (412) 393-5113

## DISCHARGE MONITORING REPORT SUPPLEMENTAL SEWAGE SLUDGE REPORT

Instructions:

 Complete monthly and submit with each DMR. Attach additional sheets and comments as needed for completeness and clarity.

 Sludge production information will be used to evaluate plant performance. Report only sludge which has been removed from digesters and other solids which have been permanently removed from the treatment process. Do not include sludge from other plants which is processed at your facility.

3. In the disposal site section, report all sludge leaving your facility for disposal. If another plant processes and disposes of your sludge, just provide the name of that plant. If you dispose of sludge from other plants, include their tonnage in the disposal site section and provide their names and individual dry tonnage on the back of this form.

Permittee: Duguesne Light Co.
Plant: Beaver Valley Rover Skation unit I
NPDES: PA 0005615
Municipality: Shippingport Borough
County: Beaver

Month: Sept.

Year: 1995

For sludge that is incinerated:

Pre-incineration weight = \_\_\_\_\_ dry tons

Post-incineration weight = \_\_\_\_\_ dry tons

4. If no sludge was removed, note on form.

(Gallons)	MAULED AS LTO X (% Solids)	(Conversion X Factor)	· Dr. Tons	(Tons of Dewatered Sludge)	AS DEWATERED S		
3000	2%	.0000417	0,250	The state of the s	T (* 301105)	X (.01) -	Dry Tons
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DISPOSAL SITE INFORMATION: List all sites, even if not used this month Site 1 Site 2 Site 3 Site 4 Bornet Margara Name . Since Transment Pical Permit No .: 14cc 20125 Dry Tons Disposed: 0.350 Type: (check one) Landfill Agr. Utilization Other (spectfy) County: Prairie

CHEMISTRY MANAGER INTOUTE

(4.2) 393.5113

Facility Name/Location if different) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) BERVER VALLEY POWER STATION DISCHARGE MONITORING REPORT (DMR) ADDRESS P. D. BOI & (17-19)101 CREMICAL WASTE TREATMENT PA0025615 ATTR: DAVID OREDORF 101 a (SUBR 05) Form Approved. PERMIT NUMBER 12345 SHIPPINGPORT DISCHARGE NUMBER P M PYHAL PA 15077 OMB No. 2040-0004 FACILITY MONITORING PERIOD MAJOR Approval expires 10-31-94 LOCATION YEAR MO DAY YEAR MO DAY FROM ATTM: DAVID ORNDORP 95 09 OI \*\*\* BO DISCHARGE | | \*\*\* 95 37 (20-21) (22-23) (24-25) (28-27) (28-29) (30-31) NOTE: Read instructions before completing this form. (3 Card Only) QUANTITY OR LOADING PARAMETER (4 Card Only) QUALITY OR CONCENTRATION (46-53) (54-61) (32-37) (38-45) (46-53) (54-61) FREQUENCY AVERAGE SAMPLE MAXIM IM UNITS EX OF ANALYSIS MINIMUM PR TYPE AVERAGE MAXIMISA UNITS \*\*\*\* SAMPLE 李章章章章章 (62-63) (64-68) (69-70) MEASUREMENT \*\*\*\* (12)00400 1 0 0 7,66 \*\*\*\* 李本本章: 李本本章 PERMY 0 6 EFFLUENT GROSS VALUE **安全会争争** 皇教公会 BEELVERLE SOLIDS, TOTAL BICTCBE BRETTER SAMPLE 李帝李李帝帝 50 李章章章章章 SUSPENDED 多名名名名 MEASUREMENT (19) 00530 1 0 0 20.5 1/7 多少多数代表: 机多元本 0 2440 PERMET SPPLUSET GROSS VALUE REQUIREMENT 100 BEERLY COMPER \*\*\* OIL AND GREASE BO ATS DAILY HE MG/L SAMPLE 李帝帝帝帝帝 中华中华中 PRECE EXTRACRLY HETS 专业会会会会 MEASUREMENT (19) 90556 1 0 0 15 55 李宗宗帝帝帝 0 1/2 PERMIT 李章章章: 李章章章 6 EPPLOEST GROSS FALOR 全安全全安全。 REQUIREMENT 20. \*\*\* MITROGER, ANNOHIA BO. LTE DAILY MY MG/L 李章李章李章 SAMPLE 多章章章章章 TOTAL (AS E) 专会会会会会 MEASUREMENT NA ( 19) 00610 1 0 1 NA 命命命命命会 NA \*\*\*\* PERMIT EPPLEERT GROSS VALUE \*\*\*\*\* REPORT REQUIREMENT ZEPORT 章章章章 PLOW, IN COMPRIT OR BO-ATC DATLY BE MG/L SAMPLE THEO TREATMENT PL (503) 金额套套套套 EASUREMENT \*\*\*\* 0,003 章章章章章章 0,009 50050 1 0 0 DAY CONT REPORT PERMIT REPORY RPPLURAT GROSS VALUE 章章章章章章 \* REQUIREMENT **企业企业企业** 李章李章 李章李章 EO AFS DATLY WE HED BYDRAZINE CONTIN 章章章章 专会会会会会 SAMPLE \*\*\*\* 李安安安安 MEASUREMENT (19) NA 81313 1 0 1 NA **李帝李帝李** 0 NA PERMIT 全有有名 · 學者母母母也 NA EFFLORET GROSS VALUE \*\*\*\* REQUIREMENT EZPORT BEPGET 李帝安章 PERKLYCEAR ED ATS DATLE BY MG/L SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY LINDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED David Orndorf ON MY INCLURY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR TELEPHONE DATE CRETAINING THE INFORMATION I RELEVE THE SUBMITTED INFORMATION IS Chemistry Manager THE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE ARE ANT INNALTES FOR SUBMITTING FALSE INFORMATION INCLUDING THE PURCHENTS OF FINE AND MIPRISONMENT SEE 18 USC \$ 1001 AND \$ 1319 (Penatries under these statutes may include fines up to TIPED OR PRINTED SIGNATURE OF PRINCIPAL EXECUTIVE \$10 (see) and or maximum impresonment of between 6 months and 5 years.) 412 | 393-5113 COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 95 10 23 OFFICER OR AUTHORIZED AGENT AREA NUMBER STOPASINE AND ANNOHIA MONITORING TO APPLY DURING PERIODS OF URF LATUR. No periods of wet layup existed. EPA Form 3320-1 (Rev. 9-88) Previous editions may be used.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME BEAVER VALLEY POSER STATION NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) ADDRESS P.D. BOX & ATTW; DAVID ORWDORF 201 SOFTENER REGESERANTS PA0025615 (17-19) SHIPPINGPORT 201 B (SUBR 05) Form Approved. PERMIT NUMBER PA 15077 FACILITY DISCHARGE NUMBER P " FINAL OMB No. 2040-0004 LOCATION MONITORING PERIOD MAJOR Approval expires 10-31-94 ATTW: DAVID ORWDORP MO DAY YEAR MO DAY FROM 95 TO 09 \*\*\* 20 DISCHARGE |X| \*\*\* 30 (20-21) (22-23) (24-25) PARAMETER (3 Card Only) QUANTITY OR LOADING (26-27) (28-29) (30-31) NOTE: Read instructions before completing this form. (32-37) (46-53) (4 Card Only) QUALITY OR CONCENTRATION (54-61) (38-45) AVERAGE PR (46-53) MAXIMUM (54-61) UNITS REQUENCY MINIME IN 李章章章章 SAMPLE AVERAGE ANALYSIS 老帝帝帝帝帝 MAXIMUM MEASUREMENT TYPE UNITS 00400 1 0 0 李章章章章 (62-63) (64-68) (69-70 EFFLUERT GROSS VALUE REQUIREMENT \*\*\*\*\* ( 12) \*\*\*\*\* \*\*\*\* SOLIDS, TOTAL 5.8 李章章章章 \*\*\*\* 9.0 SUSPENDED BISISSE \*\*\*\* SAMPLE THICK/CRAS MEASUREMENT 李安安安安安 BRILLER 00530 1 0 0 在市市市市市 SI MO.TH BPFLUSST GROSS VALUS REQUIREMENT \*\*\*\*\* (19) **泰安泰公女 美辛辛辛** OIL AND GREASE \*\*\*\*\* 35 100 专会会会 PREOR SITE GRET HETH MEASUREMENT \*\*\*\* \*\*\*\* THICE/CRAB BO AVE DAILY BE MG/L 00556 1 0 0 \*\*\*\* MORTH SPPLUSHT GROSS VALUE REQUIREMENT \*\*\*\* (19) \*\*\*\*\* PLOW, IN CONDUIT OR 以 學校 古皇皇· 15 \*\*\* 20 THEO TREATMENT PLANT SAMPLE BO AVE TRICE/GRAB DATLY BY MG/L ( 03) NO FLOW 50050 1 0 0 \*\*\* 李泰泰泰泰泰 MONTE 李李李李李章 BFPLORMY GROSS VALUE REQUIREMENT REPORT PEPORQ. **华皇帝皇帝** BO AVE 我母母我会会 DAILY ME BED 李章章章 李章章 SAMPLE THICE/ESTINA MEASUREMENT 杂食食食 SORTE PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED David Orndorf ON MY INCURRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR ORTANING THE INFORMATION ! BELIEVE THE SUBMITTED INFORMATION IS Chemistry Manager CHITARING THE INCOMMISSION FROM THE SUBMITTED INCOMMISSION FROM THE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING TELEPHONE DATE THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. \$ 1001 AND TYPED OR PRINTED 33 USC \$ 1319 (Penalties under these statutes may include fines up to COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) \$10,000 and or maximum imprisonment of between 6 months and 5 years.) SIGNATURE OF PRINCIPAL EXECUTIVE 412 1393-5113 OFFICER OR AUTHORIZED AGENT 95 10 23 AREA NO DISCHARGE NUMBER YEAR MO DAY

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

NAME BEAFR TALL TO ADDRESS P.O. BOX 4		TION	-	(2-16)	SCHARGE ELIMINATION ONITORING REP	ONI (DMR)						
- ATTHE DAVID O	RHDORF			025615		(17-19) 001 B	CHITS 1 &	70	IRR RE	000		
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  David Orndorf  Chemistry Manager  TYPED UR PRINTED  1 CERTBY UNDER PENALTY AND AM FAMILIAR WITH 1TH NO MY BOURY OF THOS OBTAINING THE REFORMATE TRUE. ACCURATE AND C SIGNIFICANT PENALTIES FOR THE POSSIBLITY OF FINE.  33 USC. 5 1319 (Penalties 10000) and or maximum importance.		AM FAMILIAR WITH THE MY ROUBRY OF THOSE UNING THE RECRMATION E ACCURATE AND CO FECANT PENALTIES FOR POSSIBILITY OF FINE AN	INFORMATION SIZEMITI INDIVIDUALS INSIZEDIATI I RELIEVE THE SUB- MPLETE I AM AWA SUBMITTING FALSE II O INFRISONMENT SE INDIGET (THESE SIMBITES)	TED HEREN: A TELY RESPONI METTED INFOR IRE THAT THAT INFORMATION E 18 U.S.C. I may include /	IND BASED SIBILE FOR MATION IS HERE ARE INCLUDING IOOI AND Fines up to	TURE OF PRINCIPA	THE PROPERTY OF	TELEPHON 412   393-5		95	10 23 MO DAY

DISCHARGE MONITORING REPORT (DMR)

(2-16)

PA0025615

(17-19)

102 A

PERMITTEE NAME/ADDRESS (Include

ADDRESS P. O. BOI 4

Facility Name/Location if different)
NAME BERVER VALLEY POSER STRIPE

102 INTAKE SCREENHOUSE

> % PTHAT OMB No. 2040-0004

(5988 05) Form Approved. 12385

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different) NAME BEAVER VALLEY	POWER STA	TIDE	DISCH	ARGE MO (2-16)	NITORING REPO	RT (DMR) (17-19)	INTAKE SCRE			the second second second second			
ADDRESS P.O. BOX 4			PAGO	-		02 A	(2222 22)						
ATTH: DAVID OR		PA 15077	PERM	AIT NUMBER	Bisc	HARGE NUMBER	E LI E T M W TO	Approval expires 10-31-94					
SMIPPINGPORT		KW TSALL	-		TORING PERIC		BROOM						
LOCATION			FROM 95	MO D	01 TO 95	09 30	*** 80 DISC	MARCE	1	***			
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COMMENT AND EXPLANATION OF ANY VIOLAT	-				GAV A		1000				

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different) NAME BEAVER VALLEY	HILLY Name/Location if different) ME BEAVER VALLEY POWER STATION					NITORIN	G REPO	RYSTEM (NPDES) RT (DMR) (17-19)	MAIN SEWAGE	THT P	LAN	T	
ADDRESS P.O. BOY 9			P	HOO	25615		2	03 A	(SUBR 05) F	orm Approv	red.	12345	
ATTW: DAVID OR	HOORF			PER	MIT NUMBER	•	DISC	CHARGE NUMBER	LTTENT	MB No. 20			
SNIPPINGPORT		PA 15077	r		MONI	TORING	PERM	20	MAJOR "	Approval exp	oires 1	0-31-94	
FACILITY			_	YEAR	-		YEAR	MO DAY			-		
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Facility Name/Location if different) NAME BRIVER VALLEY	DORESS P.O. BOX &  ATTN: DAVID OREDORP				ISCHARGE ELIMINATIO	ORT (DMR)	ONIT 1 071				
			PAO	025615		303 A	ONIT 1 OIL (SOBR 05)	Form Appr			
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FACILITY		PA 15077_	_	MON	UYORUNG			Approval e			
LOCATION			YEAR		DAY YEAR	OB	SKO B	Approvar 6	Aprics	10-31-94	
ATTW: DAVID ORNDOR			FROM 9		DAY TO YEAR		*** ** ***		-		
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NAME/TITLE PRINCIPAL EXECUTIVE	DEFICED					PERMIT	Marie				
David Orndorf	AND AM	UNDER PENALTY OF FAMILIAR WITH THE INF NOURY OF THOSE IN	LAW THAT I HAVE PE	RSONALLY EX	AMINED				-		
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Chemistry Manager	\$ # PAP H 27	AT THE NAME OF STREET OF	- MERWINE	THE PLANT	E ARE 1 371 JAG	Allendo	-4				
TYPED OR PRINTED	1 A 2798	\$ 1 (11) / Providence	A SEC 15	USC 1 IO	DI AND SIGNATUR	RE OF PRINCIPAL E	20				
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A Form 3320-1 (Rev. 9-88) Previous et	ditions may be used	,			0			0	1		4-1

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different) NAME REAFFR VALLEY	HE REAVER VALLEY POWER STATION						NITORING REPO			BLOWDO	WH :	S RIWR	WAT
ADDRESS P.O. BOX 4					PADO	25615	9	03 A		orm Approv		12345	
ATTW: DAVID OR	HOORF				PER	MIT NUMBER	Disc	CHARGE NUMBER	P # PINAL C	MB No. 204	40-00	04	
SHIPPINGPORT			A 15077				TORING BERN		MAJOR A	pproval exp	oires 1	0-31-94	
FACILITY					VEAD	1	TORING PERIC						
LOCATION				FROM	YEAR		01 TO 95		*** BO DISC	BARGE	1	***	
ATTN: DAVID ORWDORP						(22-23) (24		(28-29) (30-31)	NOTE: Read instruc				s form.
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)			-		CODE			THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	

Facility Name/Location if different) NAME REARER VALLEY	POSER STAT	TOR			NITORING REPO	RT (DMR)	SELT ONE CO	NE TO	G P D	04600	TOR
ADDRESS P. D. BOT &		AFE	PAOD	25615		98 8		orm Approv		12345	-
ATTM; DRVID OR!	FOORF			MIT NUMBER		HARGE NUMBER		MB No. 20			
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David Orndorf Chemistry Manager	INDIVIDUALS IMMEDIATE  I BELIEVE THE SUBM MPLETE I AM AWAR SUBMITTING FALSE IN D IMPRISONMENT SEE	ELY RESPON HITTED INFOR E THAT THE FORMATION 18 U.S.C. \$	SIBLE FOR MATION IS LERE ARE INCLUDING 1001 AND	Pund	AL EXECUTIVE 412	2   393-	5113	95 1	0 23		
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	ME BRYER VALLEY PORES STATION  DRESS P. D. BOX 4  ATTH; DAVID ORBOORP			(2-16)	CHARGE ELIMINATION	SYSTEM (NPDES RT (DMR) (17-19)	AGE-INTAKE	SCREER	BA	CEBASE	
The state of the s	RAARD			25615		06 A				12345	
SHIPPINGPORT		PA 15077	PER	MIT NUMBER	Disc	HARGE NUMBER		OMB No. 20			
FACILITY		# T3011	-	MONI	TORING PERIO	OD	HAJOR	Approval ex	pires 1	0-31-94	
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)	RMITTEE NAME/ADDRESS (Include cility Name/Location if different) ME BEAVER VALIBY POWER STAPION			DISCH	ARGE MO	NITORING REPO	RT (DMR) (17-19)	AUX. INTAKE	24248	×		
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ATTN: DAVID ORWDORF			(3 Card Only) QUI		(22-23) (24	(4 Card Only)	(28-29) (30-31) QUALITY OR C	ONCENTRATION		T	T	1
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(32-37)		AVERAGE	MAXIMUM	UNITS	1	(46-53)	(54-61)		NO.	OF ANALYSIS	SAMPL
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different) NAME BERTER VALLEY	POWER STAT	rion	NATIONAL POI DISCH	HARGE ME	ONITORING REPO	ORT (DMR)	11 DIESEL	CREPDA	TOP	BIDG	
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PERMITTE NAME/ADDRESS (Include Facility Name/Location if different) NAME BEAVER VALLEY ADDRESS P.O. BOX R	- 5130	(2-16)	CHARGE ELIMINATION	ORT (DMR)	111 DIESEL	CPWPDs	FOR	DIAC			
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Facility Name/Location if different) NAME BEAVER VALLEY POWER STATION ADDRESS P. O. BOX & ATTN: DAVID ORYDORP			_	0LLUTANT D CHARGE N (2-16)	SCHARGE ELIMINATION TORING REP	(17-19)	211 TORBIB					
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ATTW; DAVID OR	DORF		PE	ERMIT NUMBER		Orac	HARGE NU	MBER	P & PINA		MB No. 204				
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Facility Name/Location if different) NAME BERVER VALLEY	HOIS	(2-16) (17-19)						B	LOWDO	WE FR	OR THE	ST	AC C-1	POWER		
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313 TURRIER BLDG DRAIN

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

ATTM: DAVID ORBDORF

ADDRESS P. D. BOX

NAME

Approval expires 10-31-94

OMB No. 2040-0004

TENIA to A (SUBR 05)

DISCHARGE NUMBER

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Form Approved.

EPA Form 3320-1 (Rev. 9-88) Previous editions may be used

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# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES

-Please note our new name-DEPARTMENT OF ENVIRONMENTAL PROTECTION D E P 400 Waterfront Drive Pittsburgh, PA 15222-4745 SEP 29 1995

(412) 442-4000

Southwest Regional Office

CERTIFIED MAIL #Z 057 786 319

Mr. Scott Rodgers Duquesne Light Company One Oxford Centre 301 Grant Street Pittsburgh, PA 15279

RE: NPDES Permit PA0025615
Beaver Valley Power Station
Shippingport Borough
Beaver County

Dear Mr. Rodgers:

Your NPDES permit is enclosed. Please study it carefully, and if you have any questions, please contact me.

We have addressed your comments in the Addendum to the Fact Sheet/ Statement of Basis (copy enclosed).

EPA will be sending you computer generated, preprinted Discharge Monitoring Report (DMR) forms for your submittals. In the event that these forms are not received, use the attached DMR forms. Should you find significant discrepancies between the two versions, contact this office and use the enclosed form until the preprinted forms are corrected. Do not allow a problem with the preprinted forms to cause your failure to submit these reports in a timely manner as this will result in violations of your permit.

Sincerely,

Kareen Milcic Sanitary Engineer Water Management

Enclosure

CC: EPA

NPDES PA0025615

Prepared by Kareen Milcic

Date:

7/9/95

Outfalls 001 thru 013

Phone: 412-442-4000

(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 0.027 mgd discharge from the chemical waste treatment system which includes demineralizer regenerants (acid and caustic), 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 Total Suspended Solids Oil and Grease	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 15.0	

Flow measurement is based on timer readings that log the total amount of time that the discharge valve of the sump pumps is open, with the flow capacity of the sump pumps.

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). Flow estimation is based on standard regeneration cycle duration, number of cycles per month and standard volume per regeneration.

Internal Monitoring Point 301 consists of 0.001 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). Flow of this discharge is estimated to be less than 1000 gallons/day.

#### NPDES PA0025615

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(MUN) Shippingport Borough

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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.

Treated radioactive waste from Unit #1 and Unit #2 has been added to the outfall description. This is consistent with the previous permit.

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 0.046 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 0.002 mgd discharge of wastewater from the settling 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).

Internal Monitoring Point 403 consists of 0.288 mgd of condensate blowdown and uncontaminated river water. This discharge occurs only during shutdown for maintenance. Applicable effluent limitations are 40 CFR 423.12(b) for low volume wastes.

#### NPDES PA0025615

(ES) Duquesne Light Company

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These sources will be monitored separately. 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 113 consists of a 0.023 mgd discharge from the Unit #2 sewage treatment plant. Secondary effluent limitations will be imposed.

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).

Internal Monitoring Point 313 consists of 0.019 mgg turbine building oil/water separator drain (OWS #21). Applicable effluent limitations are 40 CFR 412.12(b) for low volume wastes (see Outfall 101).

Internal Monitoring Point 413 consists of 0.019 mgd bulk fuel oil storage oil/water separator drain (OWS #24). Applicable effluent limitations are 40 CFR 423.12(b) for low volume wastes (see Outfall 101).

This discharge also contains stormwater runoff.

PENTOXSD was used to calculate any necessary water quality based effluent limitations. Also the Regional Aquatic Biologist evaluated Peggs Run and determined that there is a use to be protected. (These two items are substantial changes from the previous permit evaluation.) The necessary water quality based limitations will be placed in a Toxics Reduction Evaluation.

The third substantial change in this permit is the inclusion of Total Residual Chlorine Limits that were developed in accordance with Chapter 93.

Conditions, limitations, monitoring and reporting requirements have been added to this permit to allow for mega and small system dosings with Clamtrol.

NPDES PA0025615

(ES) Duquesne Light Company (A

(MUN) Shippingport Borough

(AF) Beaver Valley Power Station (CO) Beaver

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The permittee commented on the water quality based effluent limitations for Peggs Run. During the comment period the DEP regional biologist evaluated Peggs Run below 013 and determined there is an aquatic use, but is is limited by lack of substrate, i.e., concrete channel. In order to confirm the designated uses of Peggs Run and to assess the impact of its activities (culvert, concrete channel, and discharges), Duquesne Light shall conduct an aquatic survey of Peggs Run. The Preliminary Water Quality Based Effluent Limitations (PWQBELs) on Page 2dd of 14 will not go into effect until the Department reviews Duquesne Light's study and modifies the permit if necessary. Any such permit modification shall be considered a formal permitting action by the Department and may require a Toxics Reduction Evaluation. We therefore have replaced the typical Toxics Reduction Evaluation contained in Part C of the permit, with a specific condition that allows Duquesne Light the opportunity to conduct a 3 year, seasonal, chemical, aquatic, and thermal study of Peggs Run above and below the culvert. The intent of the study is to confirm the existence or absence of an aquatic use to protect and determine what impacts the discharge, the culvert, and the concrete channel may have on the aquatic community in Peggs Run. Therefore we determined that WQBELs for Antimony and Cyanide free are not necessary at this time but were included in the permit for informational purposes. This is a seasonal survey, therefore the effluent monitoring frequency in Part A of the permit has been changed to quarterly. The condition also allows for site specific data collection. (Of particular importance to the permittee is effluent flow data. The condition will also allow for further data collection to address the fact that the influent/effluent data is inconsistent.) The permit will be amended if necessary based on the results of the study to make the limits on page 2dd effective, to modify them or to delete them altogether.

Duquesne Light Company commented on the applicability of the Chapter 93 Regulation (pertaining to TRC) at generating stations that are subject to the Steam Electric ELGs. The ELG includes limits on both TRC and Free Available Chlorine (FAC) depending on the type of wastewater involved (once-through cooling or cooling tower blowdown). Where FAC is limited in the ELG, there is also a narrative restriction on the discharge of TRC. Duquesne Light contends that EPA "has evaluated the industry and determined that TRC limits are not necessary for any wastewaters other than once-through cooling water ..."

Chapter 93(f)(1) states we should impose the more stringent of the federal ELG BAT or the Chapter 93 BAT. It is also clear that if there is no federal BAT, we are to impose Chapter 93 BAT. We have no available data showing a general correlation between FAC and TRC levels in these effluents, and cannot assume on every case that the ELG FAC limit is adequate to control TRC levels at or below the 0.5 mg/l limit in Chapter 93.

#### NPDES PA0025615

(ES) Duquesne Light Company

(MUN) Shippingport Borough

(AF) Beaver Valley Power Station

(CO) Beaver

FDA by letter dated August 21 1005 commented on the draft normit. We have not

<del>\*</del>

EPA, by letter dated August 31, 1995 commented on the draft permit. We have not determined a reasonable potential for the listed pollutants to be contained in the discharge from Outfall OOI, therefore, no limitations nor monitoring are warranted.

Duquesne Light, by letter dated September 27, 1995, requested interim TRC limits at the two sewage treatment plants (IMPs 203 and 113). We have incorporated interim (1.2 mg/l monthly average and 3.0 mg/l maximum daily) into the permit for a two year period.

KM: kld

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF WATER QUALITY MANAGEMENT

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

In compliance with 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 411 Seventh Avenue 14-705 P.O. Box 1930 Pittsburgh, PA 15230-1930

is authorized to discharge from a facility located at

Beaver Valley Power Station Shippingport Borough Beaver County

to receiving waters named

Ohio River and Peggs Run (Outfalls 012 and 013)

in	accordan	ce v	rith	effluent	limitat	ions,	monito	oring	requiren	nent:	s and	other	cond	lition	s set	forth
	Parts A,												SEP	29 20	00	
Th	is permit	and	the	authori	zation t	o dis	charge	shall	expire	at 1	midnig	ght _				

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.
- 3. 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 permit 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.
- 4. 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		ВУ	An W. Jeies
LIMIL	100000	SEP 29 1995		Tim V. Dreier, P.E.
DATE				Water Management Program Manager

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

	DISCHARGE LIMITATIONS	wise indicated)	MONITORING REQUIREMENTS		
Discharge Parameter	Mass Units (lb/day except flow) Average Average Max. Monthly Weekly Daily	Concent	erwise indicated) Max. Instant.	Measurement Frequency	24-Hour Report Sample Under Type A.3.c.
Flow (mgd)				daily	continuous
Suspended Solids		30	100	1/week	2 hr. comp.
Oil and Grease		15	20	1/week	grab
*Hydrazine		Monitor On	у	1/week	grab
*Ammonia		Monitor On	ly	1/week	grab

<sup>\*</sup>Hydrazine and ammonia monitoring to apply during periods of wet layup.

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: At the discharge from the chemical waste sump prior to mixing with any other water

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

- 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 201 WHICH RECEIVES WASTE FROM:
  Softener Regenerants
  - 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 I IMI	TATIONS	(gross unle	ss otherw	vise ind	licated)	MONITORI	NG REQUIRE	MENTS
M	ass Units			Concentr	rations	ndicated)		C1-	24-Hour Report
		Max. Daily			Max. Daily	Instant. Max.	Measurement Frequency	Type_	Under A.3.c.
							2/month	estimate	
			30		100		2/month	grah	
			15		20		2/month	grab	
	(1b/da Average	Mass Units (1b/day except Average Average	Mass Units (1b/day except flow) Average Average Max.	Mass Units  (lb/day except flow) Average Average Max. Monthly Weekly Daily  Monthly  30	Mass Units  (lb/day except flow) Average Average Max. Monthly Weekly Daily  Monthly Weekly Daily  30	Mass Units  (lb/day except flow) Average Average Max.  Monthly Weekly Daily  Monthly Weekly Daily  30  Concentrations  (mg/l unless otherwise i  Average Average Max.  Monthly Weekly Daily	(lb/day except flow) Average Average Max. Monthly Weekly Daily  Monthly Weekly Daily  Monthly Weekly Daily  30  100	Mass Units  (lb/day except flow) Average Average Max.  Monthly Weekly Daily  Measurement Frequency  2/month	Mass Units (lb/day except flow) Average Average Max. Monthly Weekly Daily  Monthly Weekly Daily  Monthly Weekly Daily  Monthly Weekly Daily  Measurement Sample Frequency  Type  2/month estimate

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.

pH

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

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

- 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.

	DISCHARGE LIMI	TATIONS	MONITORING REQUIREMENTS						
	Mass Units (1b/day except			Concentr	rations	indicated)			24-Hour Report
Discharge Parameter	Average Average Monthly Weekly	Max. Daily	Average Monthly		Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)							1/week	estimate	
Suspended Solids			30		100		2/month	grab	
Oil and Grease			15		20		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: The discharge of boiler blowdown prior to mixing with any other water

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

- 1. 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.

	DISCHARGE LIMITATIONS	DISCHARGE LIMITATIONS (gross unless otherwise indicated)							
Discharge Parameter	Mass Units (lb/day except flow) Average Average Max. Monthly Weekly Daily	(mg/l un	Concentrations less otherwise indicated) Average Max. Instant. Weekly Daily Max.	Measurement Frequency	Sample Under Type A.3.c.				
Flow (mgd)				1/week	estimate				
Flow (mgd)			100	2/month	grab				
Suspended Solids		30	100	Z/ morrer	3				
Oil and Grease		15	20	2/month	grab				

not less than 6.0 standard units

2/month

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

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

- 1. 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				
	(lb/da	lass Units y except Average	flow)		Concentrates otla	rations erwise i	ndicated) Instant.	Measurement	Sample	24-Hour Report Under
Discharge Parameter	Monthly		Daily		Weekly	Daily	Max	Frequency	Type	A.3.c.
Flow (mgd)								1/week	estimate	
Total Suspended Solids				30		100		?/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"

- 1. 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.
  - 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.

Flow (mgd) Free Available Chlorine	DISCH	ARGE I IM	TATIONS	(gross unle	icated)	MONITORING REQUIREMENTS				
	M	Mass Units			Concentr	rations	ndicated)			24-Hour Report
Discharge Parameter	Average Monthly	Average	Max. Daily	Average Monthly	Average Weekiy	Max. Daily	Instant.  Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								daily	continuo	ous
Free Available Chlorine						0.2	0.5	continuous	recorded	i
Total Residual Chlorine				0.5			1.25	1/week	grab	
Clamtrol (CT-1)				Not	Detectal	ble		when discharging	24 hr.	comp.
Betz DT-1						35.0		when discharging	24 hr.	comp.

It is the Department's understanding that the permittee does not add chromium or zinc compounds to the cooling water. The permittee is prohibited from adding chromium or zinc compounds to the cooling water unless the permittee obtains permission from the Department. Refer to Part C for restrictions on the discharge of the 126 priority pollutants (with the exception of chromium and zinc), free available and total residual chlorine, and the net addition of pollutants to non-contact cooling water.

1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 001 (CONTINUED):

	DISCHARGE LIMITATIONS	DISCHARGE LIMITATIONS (gross unless otherwise indicated)						
	Mass Units (1b/day except flow)	(mg/l unless otherwise indicated)		24-Hour Report				
Discharge Parameter	Average Average Max. Monthly Weekly Daily	Average Average Max. Instant.  Monthly Weekly Daily Max.	Measurement Frequency	Sample Under Type A.3.c.				
Hydrazine *	Not Detectable	Using ASTM D-1385	1/week	grab				
Ammonia *		Monitor Only	1/week	grab				

рН

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: At the discharge

<sup>\*</sup> Hydrazine and ammonia monitoring to apply during periods of wet layup.

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

- 1. 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	HARGE LIMI	TATIONS	MONITORING REQUIREMENTS						
	(lb/da Average	Mass Units ay except Average	flow) Max.		Concentrates other Average	rations erwise i	indicated) Instant. Max.	Measurement Frequency	Sample Type	24-Hour Report Under A.3.c.
Discharge Parameter	<u>Monthly</u>	Weekly	Daily	HOHEHTY	MCCKIY	Dairy				
Flow (mgd)								2/month	estimate	
Suspended Solids				30		100		2/month	grab	
Oil and Grease				15		20		2/month	grab	

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.

pH

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 2i of 14 Permit PA0025615 LAT. 40°37'26" LONG. 80°26'07"

- EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 002 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.

	DISCHARGE LIMITA	ATIONS (	MONITORING REQUIREMENTS					
	Mass Units (1b/day except f)	Concentr	ations	ndicated)			24-Hour Report	
Discharge Parameter	Average Average M		Average		Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)						1/week	estimate	

Debris collected on the intake trash racks shall not be returned to the waterway.

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

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

- 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 103 WHICH RECEIVES WASTE FROM: 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.

	DISCHARGE L	DISCHARGE LIMITATIONS (gross unless otherwise indicated)						MONITORING REQUIREMENTS			
	Mass Un (1b/day excep	Concentrations (mg/l unless otherwise indicated)					24-Hour Report				
Discharge Parameter		ge Max.		Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.		
Flow (mgd)							2/month	estimate			
Suspended Solids			30		100		2/month	24 hr. c	comp.		

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.

pH

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

Page 2k of 14 Permit PA0025615 LAT. --

- 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.

DISCURDED LIMITATIONS (appear unless otherwise indicated)

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			MUNITURI	NG REQUIREMENTS  24-Hour
	Mass Units (lb/day except flow)	Concentr (mg/l unless othe			Report
Discharge Parameter	Average Average Max.  Monthly Weekly Daily	Average Average Weekly	Max. Instant.  Daily Max.	Measurement Frequency	Sample Under Type A.3.c.
Flow (mgd)	0.023			1/week	measured
CBOD-5 Day		25	50	2/month	8 hr. comp.
Suspended Solids		30	60	2/month	8 hr. comp.
Total Residual Chlorine Permit issuance date October 1, 1977 throu	to September 30, 1977	1.2 0.5	3.0 1.25	2/month 2/month	grab grab
% Removal (BOD-5 Day &	SS) refer to Part C				
Fecal Coliform Organism	refer to Part C for	effective disinfection	n	2/month	grab
рН	not less than 6.0 nor	greater than 9.0 st	andard 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

Page 21 of 14 Permit PA0025615 LAT. --LONG. --

- 1. 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 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			
		tass Units by except		(mq/1 ur	Concentraless other		ndicated)			24-Hour Report
Discharge Parameter	Average Monthly		4.4	Average Monthly	-	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								1/week	estimate	
Suspended Solids				30		100		1/week	grab	
Oil and Grease				15		20		1/week	grab	

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

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

- 1. 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.

	DISCHARGE LIMITATIONS (	gross unless otherw	vise indicated)	MONITORI	NG REQUIREMENTS
Discharge Parameter	Mass Units (lb/day except flow) Average Average Max. Monthly Weekly Daily	Concentr (mg/l unless other Average Average Monthly Weekly	rations erwise indicated)	Measurement Frequency	24-Hour Report Sample Under Type A.3.c.
Flow (mgd)				1/week	estimate
Suspended Solids		30	100	1/week	grab
Oil and Grease		15	20	1/week	grab
Hydrazine *	Not detectable using ASTM	D-1385		1/week	grab
Ammonia *		Monitor and Rep	port	1/week	grab
TRC		0.5	1.25	1/week	grab
Clamtrol CT-1		Not Detectable		when discharging	24 hr. comp.
Betz DT-1			35	when discharging	24 hr. comp.

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

\* Hydrazine and ammonia monitoring to apply during periods of wet layup.

pH

not less than 6.0 nor greater than 5.0 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: Monitoring point 403 prior to mixing with any other water

Page 2n of 14 Permit PA0025615 LAT. 40°37′26" LONG. 80°26′07"

- 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 003 WHICH RECEIVES WASTE FROM:
  - 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.

	DISCHARGE L	MITATIONS	(aross unle	ess otherw	rise ind	licated)	MONITORI		
	Mass Un (1b/day exce	its ot flow)	(mg/1_ur	Concentrates other	rations erwise i	ndicated) Instant.	Measurement	Sample	24-Hour Report Under
Discharge Parameter	Average Average Monthly Weekl			Average Weekly			Frequency	Туре	A.3.c.
Flow (mgd)							2/month	estimate	

This discharge shall consist solely of uncontaminated yard stormwater runoff, deionized water storage tank drainage, and those sources monitored at 103, 263, 303, and 403.

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 flows from Outfalls 103, 203, 303 and 403 are to be totalled and reported as the 003 flow.

Page 20 of 14 Permit PA0025615 LAT. 40°37′30" LONG. 80°26′02"

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

Discharge Parameter	DISCH	DISCHARGE LIMITATIONS (gross unless otherwise indicated)							MONITORING REQUIREMENTS			
	Mass Units (lb/day except flow)			Concentrations (mg/l unless otherwise indicated)						24-Hour Report		
	Average Monthly	Average	**	Average Monthly	Average Weekly	Max. Daily	Instant.  Max.	Measurement Frequency	Sample Type	Under A.3.c.		
Flow (mgd)								1/week	measured			
Free Available Chlorine						0.2	0.5	1/week	grab			
Total Residual Chlorine				0.5			1.25	1/week	grab			

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. Outfall 004 must be sampled when discharging and the results must be reported on the Discharge Monitoring Report.

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: At the discharge pipe

Page 2p of 14 Permit PA0025615 LAT. 40°37'26" LONG. 80°26'07"

- 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 006 WHICH RECEIVES WASTE FROM:
  Auxiliary intake screen backwash 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.

	DISCHARGE LIM	TATIONS	(aross unle	ess otherw	vise ind	icated)	MONITORI		
	Mass Units (1b/day except	S	(mg/l ur	Concentr less othe	rations erwise i	ndicated)			24-Hour Report
Discharge Parameter	Average Average Monthly Weekly	Max. Daily		Average Weekly		Instant.  Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)							1/week	estimate	ed

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

Page 2q of 14 Permit PA0025615 LAT. 40°37'26" LONG. 80°26'07"

- 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
  - 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	ss other	MONITORING REQUIREMENTS				
	P	Mass Units	5		Concentrates other	rations erwise i	ndicated)			24-Hour Report
Discharge Parameter	Average Monthly		Max. Daily	Average Monthly			Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								1/week	estimate	
Free Available Chlorine						0.2	0.5	1/week	grab	
Total Residual Chlorine				0.5			1.25	1/week	grab	

Monitoring for flow, free available chlorine, and total residual 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.

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: At the discharge pipe

pH

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- 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 008 WHICH RECEIVES WASTE FROM:
  Unit #1 cooling tower pumphouse drains and stormwater runoff
  - 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)						MONITORING REQUIREMENTS		
Discharge Parameter	Mass Units (lb/day except flow) Average Average Max. Monthly Weekly Daily				Concentrates other Average	rations erwise i	ndicated) Instant. Max.	Measurement Frequency	Sample Type	24-Hour Report Under A.3.c.
Flow (mgd)								1/week	estimate	
Suspended Solids				30		100		2/month	grab	
Oil and Grease				15		20	30	2/month	grab	

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.

pH

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

	DISCHARGE LIMITATIONS	MONITORING REQUIREMENTS			
Discharge Parameter	Mass Units (lb/day except flow) Average Average Max. Monthly Weekly Daily	Concentrations (mg/l unless otherwise indicated) Average Average Max. Instant. Monthly Weekly Daily Max.	Measurement Frequency	24-Hour Report Sample Under Type A.3.c.	
Flow (mgd)			1/week	estimate	

Debris collected on the strainer shall not be returned to the waterway.

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: Monitoring point 110

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

	DICCH	ADCE I TMI	ZMOTTATI	(gross unle	ss other	vise ind	licated)	MONITORING REQUIREMENTS				
Discharge Parameter	M	lass Units ly except Average	flow)_		Concentrates other Average	rations erwise i	Instant. Max.	Measurement Frequency	Sample Type	24-Hour Report Under A.3.c.		
Discharge rarameter	11011 01111							1 /	measured			
Flow (mgd)								1/week	measured	•		
Free Available Chlorine						0.2	0.5	1/week	grab dur chlorina			
Total Residual Chlorine				0.5			1.25	1/week	grab dur chlorina			
Clamtrol CT-1				Not	Detectal	ble		when discharging	24 hr.	comp.		
Betz DT-1						35.0		when discharging	24 hr.	comp.		

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.

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.

рН

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

	DISCHARGE LIMITATIONS	MONITORING REQUIREMENTS			
Discharge Parameter	Mass Units (lb/day except flow) Average Average Max. Monthly Weekly Daily	(gross unless otherwise indicated) Concentrations (mg/l unless otherwise indicated) Average Average Max. Instant. Monthly Weekly Daily Max.	Measurement Frequency	24-Hour Report Sample Under Type A.3.c.	
Flow (mgd)			1/week	estimate	

This discharge shall consist solely of those sources monitored at internal monitoring point 111 and 211.

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

- EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 111 WHICH RECEIVES WASTE FROM: Diesel generator building oil/water separator drain (OWS #22)
  - 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.

	DISCHARGE LIMITATIONS Mass Units				Concentr	rations		MONITORI	NG REQUIRE	24-Hour
Discharge Parameter	Annual Contract of the Contrac	Average Weekly	Carried and Carrie	(mg/l ur Average Monthly	Average		Instant.  Max.	Measurement Frequency	Sample Type	Report Under A.3.c.
Flow (mgd)								1/week	estimate	
Suspended Solids				30		100		1/week	grab	
Oil and Grease				15		20	30	1/week	grab	

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: at the discharge pipe

- EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 211 WHICH RECEIVES WASTE FROM: Turbine building oil/water separator drain (OWS #23).
  - 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	MONITORING REQUIREMENTS						
	Mass Units (lb/day except flow)			Concentrations (mg/l unless otherwise indicated)						24-Hour Report
Discharge Parameter	Average Monthly	Average Weekly	Max. Daily	Average Monthly	Average Weekly	Max. Daily	InstantMax.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								1/week	estimate	
Suspended Solids				30		100		1/week	grab	
Cil and Grease				15		20	30	1/week	grab	

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: at the discharge pipe

- 1. 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
  - 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	MONITORING REQUIREMENTS						
	P	lass Units	3		Concentr	ations	ndicated)			24-Hour Report
Discharge Parameter		Control of the Contro		Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								1/month	estimate	
Free Available Chlorine						0.2	0.5	2/month	grab	

It is the Department's understanding that the permittee does not add chlorine or chromium and zinc compounds to the cooling water. The permittee is prohibited from adding chlorine, or chromium and zinc compounds to the cooling water unless the permittee obtains permission from the Department. Refer to Part C for restrictions on the discharge of the 126 priority pollutants (with the exception of chromium and zinc), and the net addition of pollutants to non-contact cooling water.

На

not less than 6.0 nor greater than 9.0 standard units

1/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: At the discharge pipe

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

	DISCHARGE LIMITATIONS	MONITORING REQUIREMENTS			
Discharge Parameter	Mass Units (lb/day except flow) Average Average Max. Monthly Weekly Daily	(mg/l unle: Average A	oncentrations ss otherwise indicated) verage Max. Instant. eekly Daily Max.	Measurement Frequency	Sample Under Type A.3.c.
Flow (mgd)	0.043			1/week	measured
CROD-5 Day		25	50	2/month	8 hr. comp.
Suspended Solids		30	60	2/month	8 hr. comp.
Total Residual Chlorine Permit issuance throug October 1, 1997 throug	gh September 30, 1997 gh expiration	1.2	3.0 1.25	2/month 2/month	grab grab

% 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
  - 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	MONITORING REQUIREMENTS						
	Mass Units (1b/day except flow)			Concentrations (mg/l unless otherwise 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)								1/week	estimate	
Suspended Solids				30		100		2/month	grab	
Oil and Grease				15		20		2/month	grab	

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.

pH

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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- 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 313 WHICH RECEIVES WASTE FROM:
  Turbine building oil/water separator drain (OWS #21)
  - 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	HARGE LIMI	TATIONS	MONITORING REQUIREMENTS						
	Mass Units (1b/day except flow)			Concentrations (mg/l unless otherwise indicated)						24-Hour Report
Discharge Parameter		Average		Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								1/week	estimate	
Suspended Solids				30		100		1/week	grab	
Oil and Grease				15		20		1/week	grab	

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

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- EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR CUTFALL 413 WHICH RECEIVES WASTE FROM: Bulk fuel storage oil/water separator drain (OWS #24)
  - 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	MONITORING REQUIREMENTS						
	Mass Units (1b/day except flow)			(gross unless otherwise indicated) Concentrations (mg/l unless otherwise indicated)						24-Hour Report
Discharge Parameter	Average Monthly	Average	Max. Daily	Average Monthly	Average Weekly	Max. Daily	Instant. Max.	Measurement Frequency	Sample Type	Under A.3.c.
Flow (mgd)								1/week	estimate	
Suspended Solids				30		100		1/week	grab	
Oil and Grease				15		20		1/week	grab	

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

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- 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 013 WHICH RECEIVES WASTE FROM:
  - 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.

	DISCHARGE LIMITATIONS (	MONITORING REQUIREMENTS				
Discharge Parameter	Mass Units (lb/day except flow) Average Average Max. Monthly Weekly Daily	Concentrations (mg/l unless otherwise Average Average Max. Monthly Weekly Daily	indicated) Instant.	Measurement Frequency	Sample Ur	4-Hour eport nder .3.c.
Flow (mgd)				1/week	estimate	
Temperature (°F)			110	1/week	i-s	
Total Residual Chlorine		0.5	1.25	1/week	grab	
Antimony		Monitor and Report		2/quarter	grab	
Cyanide, Free		Monitor and Report		2/quarter	grab	
Cyanide, Total		Monitor and Report		2/quarter	grab	
		onsist solely of uncontami monitored at 113, 213, 31		ter		
	See Condition C-16 (Aqu					
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: The permittee has stated this outfall is inaccessible. Therefore, to demonstrate compliance with these limitations and monitoring requirements, the permittee shall sample IMPs 113-413 for these parameters using a flow weighted composite (Antimony, Cyanide-Free, Cyanide-Total and pH) or by analyzing each sample and compositing the results (TRC and Temp).

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- 1. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 013 WHICH RECEIVES WASTE FROM: See below
  - a. These limits are provided for informational purposes only and will not go into effect until the Department reviews the results of the aquatic study required by C.16 and modifies this permit accordingly.
  - 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 Unit (1b/day except Average Average Monthly Weekly	flow)			rwise i	ndicated) Instant. Max.	Measurement Frequency	Sample Type	24-Hour Report Under A.3.c.	
Flow (mgd)				112012			1/week	estimate		
Total Residual Chlorine			0.4			1.0	1/week	grab		
Antimony*		,	0.017		0.034		2/quarter	24 hr. c	comp.	
Cyanide, Free*			0.008		0.016		2/quarter	2/quarter 24 hr. comp.		
Cyanide, Total			Mon	itor and	Report		2/quarter	24 hr. c	omp.	
Temperature				Av	erage D	aily				
January 1-31					50.9		1/week	i-s		
February 1-29					51.9		1/week	i-s		
March 1-31					74.6		1/week	i-s		
April 1-15					83.6		1/week	i-s		
рН	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: At the discharge

PART A

# 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL 013 (CONTINUED):

	DISCHARGE LIMITATIONS (gross unless otherwise indicated)  Mass Units Concentrations						MONITORING REQUIREMENTS		
Discharge Parameter		y except Average		(mg/l un Average Monthly	less othe Average	erwise ind Avg. I	icated) nstant. Max.	Measurement Frequency	Sample Type
April 16-30						89.6		1/week	i-s
May 1-15						84.8		1/week	i-s
May 16-31						106.7		1/week	i-s
June 1-15						106.5		1/week	i-s
June 16-30						110.5		1/week	i-s
July 1-31						100.9		1/week	i-s
August 1-31						99.4		1/week	i-s
September 1-15						93.7		1/week	i-s
September 16-30						87.7		1/week	i-s
October 1-15						81.8		1/week	i-s
October 16-31						75.8		1/week	1-s
November 1-15						68.9		1/week	1-s
November 16-30						58.7		1/week	i-s
December 1-31						50.2		1/week	1-5

#### 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 facility 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.
- f. The "maximum daily" concentration means the daily determination of concentration for any calendar day.
- g. 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.
- i. 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 demonstrated in engineering practice or for which a relationship to absolute volume has been obtained.
- 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 measurements 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 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 absence of a bypass. Severe property damage does <u>not</u> mean economic loss caused by delays in production.
- u. The term "industrial user" means an establishment 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

### 3. SELF-MONITORING, REPORTING, AND RECORDS KEEPING

# a. Representative Sampling

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

# Non-Compliance Reporting

- (1) <u>24-Hour Reporting</u> 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:
    - (i) A toxic pollutant effluent standard established by EPA pursuant to Section 307(a) of the Clean Water Act, or
    - (ii) For toxic or hazardous pollutant which, if not adequately treated, could constitute a threat to human health, welfare, or the environment, or
    - (iii) Any pollutant identified as the method to control a toxic pollutant or hazardous substance (i.e. indicator pollutant).
  - (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 \_bmission 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
    - (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 pursuant 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.

#### 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 schedule 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.

### 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.

# b. 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)

- (1) 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.
  - (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.
  - (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 POTW 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) Bypassing not Exceeding Permit Limitations The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if the bypass is for essential maintenance to assure efficient operation. This type of pypassing 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 reated wastes, or maintenance during normal periods of equipment to 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.

### g. 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.

#### 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.
- (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

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. <u>Severability</u>

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

 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 Protection Water Management 400 Waterfront Drive Pittsburgh, PA 15222-4745

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 coliform 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.
- 3. 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.

- 5. 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.
- 6. 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 generating unit for more than two hours in any one day and nor more than one generating 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 Title 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 Protection Bureau of Radiation Protection and Toxicology P.O. Box 2063 Harrisburg, Pennsylvania 17120

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

11. Usage rates of any chemical additives used at this facility that may be discharged and blow-down rates shall be controlled by the permittee to prevent any impairments to receiving water uses and/or effluent limit violations. Chemical additives include, but are not limited to, any chemicals added to water for control of corrosion, scaling, algae, slime or fouling in cooling, boiler, or process water systems. Chemical additives also 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 scavengers, pH stabilizers, and regenerants. Usage rates shall be limited to the minimum amount necessary to accomplish the intended purpose of the chemical addition.

Accurate and complete records of chemical usage and discharge volumes must be maintained and summarized and kept on-site by the permittee in accordance with its Material Inventory Program. These records must be produced upon request by the Department. The "allowable usage rate" is the rate specified in the information submitted as required below unless notified otherwise by the Department.

The information described below must be submitted within ninety (90) days of the issuance of this permit (with 2 copies) for all chemical additives currently in use at this facility.

- a. Trade name of the additive.
- b. Name, address and phone number of the chemical additive manufacturer.
- c. A list of all the active and inactive ingredients.
- d. The additive usage rate (in lb/day or gal/day).
- The conditioned water discharge rate (MGD).
- f. The "in-system" concentration of whole product which the usage rate in item d. above will produce (mg/l). Include the product density (lb/gal) for liquids used to convert usage rate (gal/day) to concentration (mg/l).
- g. Any available data regarding in-system degradation or decomposition of the additive and any other data or information that would be helpful to the Department in completing its review.
- h. The expected concentration of the product at the final outfall.
- i. The analytical test method that could be used to verify final outfall concentrations and the associated minimum analytical detection level.

- j. A flow diagram showing the point of chemical addition and the affected outfalls.
- k. 96 hour LC50 bioassay data on the whole product for at least one species of freshwater fish (mg/l).
- The MSDS and any mammalian toxicity data that is available for the whole product.

If the additive is currently in use at the facility, it may continue to be used at the maximum rate reported pursuant to item d. above unless the permittee is notified otherwise.

Whenever a change in chemical additives or an increase in usage rates is desired by the permittee, a <u>complete</u> written notification shall be submitted at least sixty (60) days prior to the proposed use of the chemical. This notification, at a minimum shall include the information outlined above. If the information is <u>complete</u>, and its use is not specifically denied, use of the proposed chemical additive is allowed 60 days after notification. The usage rate shall not exceed the maximum rate reported pursuant to item 4 above.

Use of additives that contain one or more ingredients that are carcinogens are generally prohibited, and should be substituted with alternative products. If no alternatives are available, the permittee must submit written documentation with the information required above that no alternatives are available and that the carcinogen involved will be "not detectable" in the final effluent using the most sensitive analytical method available.

Based on the information submitted, the Department will determine if any effluent limitations or other restrictions are necessary to protect water quality standards for aquatic life or human health. The permittee is responsible for preventing impairments to receiving water uses independent of the Department's review of this material.

# 12. Total Residual Chlorine (TRC)

### A. <u>Chlorine Minimization</u>

The permittee will ensure that applied chlorine dosages, used for disinfection or other purposes, are optimized to the degree necessary such that the total residual chlorine in the discharge does not cause an adverse stream impact. In doing so, the permittee shall consider relevant factors affecting chlorine dosage, such as wastewater characteristics, mixing and contact times, desired result of chlorination, and expected impact on the receiving water body.

To reduce or eliminate the amount of chlorine discharged into water bodies, the permittee must if necessary: (1) improve/adjust process controls and (2) improve operation/maintenance practices.

If the Department determines or receives documented evidence levels of TRC in the permittee's effluent are causing adverse impacts in the receiving water, the permittee shall institute necessary additional steps to reduce or eliminate such impact.

# B. Site-Specific Data Collection

The permittee may choose to conduct studies to collect site-specific data to determine in-stream chlorine demand and/or discharge mixing characteristics to refine the final water quality-based TRC effluent limitations. The permittee waives the right to conduct such studies if the intent is not conveyed in writing to the Department within sixty (60) days of the date of permit issuance.

The studies must be conducted in accordance with the Department's document titled "Discharger Determination of Site-Specific Chlorine Demand". Within eighteen (18) months of the date of permit issuance, the study results must be submitted to the Department for use in reevaluating the effluent limitations. The final water quality-based effluent limitations for TRC in Part A of this permit may be adjusted and superseded by the Department on the basis of the reevaluation.

- 13. If the continuous recorder to measure free available chlorine is inoperable, Duquesne Light shall measure free available chlorine two times per day using grab samples at Outfall 001. The monitoring is to be conducted during chlorination. This condition is applicable only if all reasonable measures to repair or replace the recorder are being taken.
- 14. The permittee is authorized to use chemical additives, subject to the following conditions:
  - A. No chemical addition for control of corrosion, scaling, algae, slime or fouling shall be made to the cooling or boiler water system which has a discharge covered by this permit, without <u>prior</u> written approval by the Department.
  - B. The additives and usage rate currently approved are the following:

Name

Usage Rate (1bs/day)

Hydrazine (35%)

1-20 gallons/day/unit

Duquesne Light is authorized to use a 30% solution of hydrogen peroxide at Outfalls 101 and 403 to oxidize unreacted Hydrazine in the cold layup blowdown from the Unit 1 and Unit 2 secondary systems, provided compliance with pH limitations is maintained.

#### 15. Asiatic Clam Control

Duquesne Light is authorized to add 7,000 pounds per day of Betz Clamtrol (CT-1) and 21,000 pounds per day of Betz DT-1 (bentonite clay) for a period not to exceed 24 hours on an as-needed basis. These are maximum useage rates and efforts are to be made to minimize the addition of these chemicals. Simultaneous multi unit dosing is prohibited.

Effluent limitations and monitoring requirements have been placed on Outfalls 010, 001, and 003. If any other outfall is affected, the CT-1 concentration is not to be detectable and the DT-1 concentration shall not exceed 35 mg/l (maximum daily). The amount of DT-1 in any discharge is to be estimated using the feed rate and discharge flow rate.

Duquesne Light will ensure that all Clamtrol effluent is detoxified prior to discharge. If the product exhibits toxicity or impairment to the receiving stream's aquatic life, use is to be terminated immedijately.

Duquesne Light shall submit advanced (14 days) written notice of any large system dosings. Reports with the conclusions of large system dosings shall be submitted 120 days after dosing.

Clamtrol may also be used to treat small subsystems of the plant without detoxifying with clay. Quarterly reports on the amount of Clamtrol used, dates and times of product addition shall be recorded and submitted to the Department.

# 16. Aquatic Stream Survey

Within 60 days of permit issuance, Duquesne Light Company shall submit to the Department for its review and approval a proposed plan and schedule to conduct an aquatic, chemical and thermal survey of Peggs Run. The survey shall be conducted for a minimum of three years. The survey shall be designed to address seasonal stream conditions (a minimum of quarterly) to determine water quality, to assess the extent of aquatic life and any impacts the discharge through Outfall O13 exert on the aquatic community. The boundaries of the survey shall include an upstream background location above the culvert and a downstream point below the culvert. The study shall also assess the impacts of the concrete channel (below the culvert to the Ohio River) on the original habitat of the stream.

At a minimum, the survey shall include water chemistry sampling and a macroinvertebrate study. Water chemistry sampling must include analysis for the following parameters (upstream, downstream, effluent) using EPA approved methods: pH Alkalinity, Acidity Hardness, Antimony, Cyanide, Total and Cyanide, Free.

Additionally, temperature measurements (i-s) shall be collected at all sampling locations. The macroinvertebrate portion of the study shall comply with methodology in EPA/600/4-90/030 "Macroinvertebrate Field and Laboratory Methods for Evaluating the Biological Integrity of Surface Waters".

#### Site-Specific Criteria

The PWQBELs for Antimony and Free Cyanide are necessary for the protection of aquatic life, a designated use to be confirmed as part of the aquatic survey. The permittee may request an opportunity to demonstrate alternative, site-specific criteria for these pollutants. The procedures for carrying out such demonstrations must receive written approval in advance by the Department and must be in accordance with the requirements of Section 93.8 of the Departments Rules and Regulations.

If the permittee chooses this option, requests for alternative, site-specific criteria must be submitted to the Department. Where the demonstration results in more stringent limitations than those previously established by the Department, the more stringent limitation will apply. Any less stringent limitations which are approved by the Department shall not violate applicable water criteria for the protection of human health.

The permittee has the option of providing all or some of the following site-specific data for use in verifying and refining the PWQBELs:

discharge hardness

- discharge pollutant concentration and variability

design discharge flow

discharge mixing characteristics
 pollutant fate characteristics
 stream width, depth and slope

stream velocity

- ambient stream data for pollutants, pH, temperature

instream hardness

water intake quality and quantity

- treatment plant influent pollutant concentrations

The permittee should contact the Department for guidance in determining which of the above data will have a significant impact on the PWQBELs and also for protocols on collecting and submitting the data. The Department will determine the adequacy of any site-specific data submitted and advise the permittee accordingly. If initial review of the submitted data suggests that additional data collection is necessary, the Department will so advise the permittee. The Department will notify the permittee what effect, if any, the data have on the PWQBELs using the procedure outlined in A.3 above.

17. The permittee shall implement Best Management Practices to minimize the amount of deionized water storage tank drainage discharged through the storm water drains via Outfall 003.

#### 18. Stormwater Outfalls

- A. Prohibition of Non-stormwater Discharges
  - Except as provided in A.2. of this condition, all stermwater outfalls shall be composed entirely of uncontaminated stormwater.
  - 2. The following non-stormwater discharges are authorized provided the non-stormwater component of the discharge is in compliance with A.3 of this condition: discharges from firefighting activities, fire hydrant flushings, potable water sources including waterline flushings, irrigation drainage, lawn watering, routine external building washdown which does not use detergents or other compounds, pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used, air conditioning condensate, springs, uncontaminated ground water, and foundation or footing drains where flows are not contaminated with process materials such as solvents.
    - 3. This permit does not authorize any discharge (stormwater or non-stormwater) which contains any pollutant that may cause or contribute to an impact on aquatic life or pose a substantial hazard to human health or the environment due to its quantity or concentration.
- B. Spills

This permit does not authorize the discharge of any pollutant resulting from an on-site spill, any such occurrence is subject to Sections A.3.c or d of this permit.

- C. Preparedness, Prevention and Contingency Plans (PPC)
  - Operators of facilities shall review and revise as appropriate the PPC Plan for the site in accordance with 25 PA Code Section 101.3 to address stormwater. The PPC Plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from the facility. Each of the following shall be evaluated for the reasonable potential for contributing pollutants to runoff: loading and unloading operations, outdoor storage activities, outdoor manufacturing or processing activities, significant dust or particulate generating process, and on-site waste disposal practices. Factors to consider include the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with stormwater; and history of significant leaks or spills of toxic or hazardous pollutants. In addition, the PPC Plan shall describe the implementation of practices which are to be used to reduce the pollutants in stormwater discharges ensuring compliance with the terms and conditions of this permit.

- 3. Qualified personnel shall conduct site compliance evaluations at least once a year. A report summarizing the evaluation and any required follow-up actions shall be prepared and kept on-site. Such evaluations shall include the items in 3.a of this condition.
  - a. Areas contributing to a stormwater discharge shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural stormwater management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly.
  - b. Based on the results of the inspection, the description of potential pollutant sources and pollution prevention measures and controls identified in the PPC Plan shall be revised as appropriate and shall provide for implementation of any changes to the plan in a timely manner.
- 19. In order to demonstrate that Chromium and Zinc are not added for cooling tower maintenance, Duquesne Light shall sample (grab) Outfalls 001 and 012 twice per year in the same calendar month. The results of the sampling shall be summarized and submitted as an attachment to the next Discharge Monitoring Report Form.