

North Anna / 17 / Permits
J. White
copy: C. Cooke



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Valley Regional Office

Street address: 4411 Early Road, Harrisonburg, Virginia 22801
Mailing address: P.O. Box 3000, Harrisonburg, VA 22801-3000
Telephone (540) 574-7800 Fax (540) 574-7878
<http://www.deq.state.va.us>

Dennis H. Treacy
Director

R. Bradley Chewning, P.E.
Valley Regional Director

January 11, 2001

Received JAN 15 2001 EP&C

James S. Gilmore, III
Governor

John Paul Woodley, Jr.
Secretary of Natural Resources

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Ms. Pamela Faggert
Vice President and Chief Environmental Officer
Virginia Power
5000 Dominion Boulevard
Glen Allen, VA 23060

Re: Reissuance, Permit No. VA0052451
Virginia Power – North Anna Nuclear Power Station

Dear Ms. Faggert:

The Virginia Department of Environmental Quality has approved the enclosed permit. This permit action involved reissuing facility's existing permit to discharge wastewaters associated with the operation of nuclear power plant. In accordance with the permit, you are required to submit Discharge Monitoring Reports (DMRs) by the tenth of each month to:

Virginia Department of Environmental Quality
Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg, Virginia 22801

The reporting form is included with the permit. You will be responsible for obtaining additional copies of the DMR. The first DMR for the month ending February 28 is due by **March 10, 2001**.

Permit No. VA0052451
Virginia Power – North Anna Nuclear Power Station
Page 2

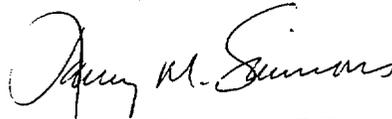
As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1 - 44.16, 62.1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

A Reliability Class II is assigned to the sewage treatment facility (STP) and this STP has Class IV licensed operator requirements.

If you have additional questions, please do not hesitate to contact us.

Sincerely,



Larry M. Simmons, P.E.
Regional Permit Manager

/oc

Enclosure: Permit No. VA0052451
cc: EPA, Region III - 3WP12
VDH-Lexington
R. Ayers (DEQ-OWPP)
B. Wion (VRO)
Permit Processing File

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

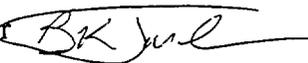
VALLEY REGIONAL OFFICE

4411 Early Road P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT: Reissuance of VPDES Permit No. VA0052451, Virginia Power – North Anna Nuclear Power Station

TO: Regional Permit Manager

FROM: Water Permits Manager 

DATE: January 11, 2001

COPIES: VRO Permit Processing File

Other Agency Comments: EPA and VDH have no objections to the adequacy of the draft permit. DGIF and DCR have no objections to the Lake Level Contingency Plan contained in the draft permit.

No other agency comments were received.

Public Notice Comments: The staff received a request for a public hearing for this permit action. Considering the interest expressed by the community and pursuant to conversations with the permit applicant, the Valley Regional Office Director authorized the convening of a public hearing. The public hearing was held on November 6, 2000. A summary of comments and the staff's responses, as presented to the Board, is attached.

Board Action: At the December 13, 2000 Board meeting, the Board unanimously authorized the director to reissue VPDES Permit No. VA0052451 to Virginia Power – North Anna Nuclear Power Station as drafted and modified. Concurrent with the reissuance of the VPDES permit, the Board also revoked the 401 Certificate issued by the Board on August 29, 1973 and the 21(b) Certificate as amended on February 11, 1972.

Staff Comments: Processing of this permit was delayed due to the public hearing related to permit reissuance.



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0052451

Effective Date: January 11, 2001

Expiration Date: January 11, 2006

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

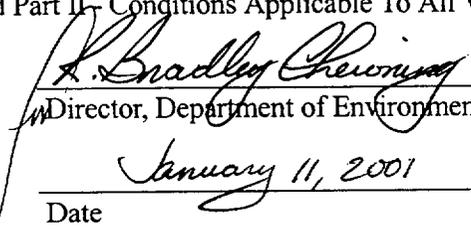
In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in this permit.

Owner: **Virginia Electric & Power Company**
Facility Name: Virginia Power – North Anna Nuclear Power Station
City: Mineral
County: Louisa
Facility Location: on Route 700 near Mineral

The owner is authorized to discharge to the following receiving stream:

Stream: Lake Anna and North Anna River
River Basin: York
River Subbasin: N/A
Section: 03
Class: III
Special Standards: None

The authorized discharge shall be in accordance with this cover page, Part I - Effluent Limitations and Monitoring Requirements, and Part II - Conditions Applicable To All VPDES Permits, as set forth herein.



Director, Department of Environmental Quality

Date

January 11, 2001

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2004

**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PERMITTEE NAME RESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - North Anna
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY Route 700
LOCATION

VA0052451	104				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			2/M	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****		6.0	*****	9.0	SU		2/M	GRAB
004 TSS	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	30	100	MG/L		1/3M	GRAB
500 OIL & GREASE	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	15	20	MG/L		1/3M	GRAB
	REPORTED									*****	
	REQUIREMENT									*****	
	REPORTED									*****	
	REQUIREMENT									*****	
	REPORTED									*****	
	REQUIREMENT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
<p>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)</p>									
	PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE						
	TYPED OR PRINTED NAME	SIGNATURE			YEAR	MO.	DAY		

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2001
**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**
Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

PERMITTEE NAME **RESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)**

NAME Virginia Power - North Anna
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY Route 700
LOCATION

VA0052451	105				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
FROM			TO		

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

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001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****		6.0	*****	9.0	SU		1/M	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	0.2	0.2	MG/L		1/3M	GRAB
020 ZINC, TOTAL (AS ZN)	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	1.0	1.0	MG/L		1/3M	GRAB
044 CL2, FREE	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	0.2	0.5	MG/L		1/M	GRAB
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
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				TYPED OR PRINTED NAME			SIGNATURE		

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/09/2004
DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

PERMITTEE NAME RESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - North Anna
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

VA0052451	107
PERMIT NUMBER	DISCHARGE NUMBER

FACILITY Route 700
LOCATION

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
165 CL2, INST RES MAX	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	NL	4.0	MG/L		1/M	GRAB
	REPORTED									*****	
	REQUIREMENT										
	REPORTED									*****	
	REQUIREMENT										
	REPORTED									*****	
	REQUIREMENT										
	REPORTED									*****	
	REQUIREMENT										
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	REQUIREMENT										

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**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/11/2004

**DEPT. OF ENVIRONMENT, QUALITY
(REGIONAL OFFICE)**

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VA0052451	108				
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			TO		

FROM

TO

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001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****		6.0	*****	9.0	SU		1/M	GRAB
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
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**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2007

**DEPT. OF ENVIRONMENTAL QUALITY
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Glen Allen VA 23060

FACILITY Route 700
LOCATION

VA0052451	109				
PERMIT NUMBER	DISCHARGE NUMBER				
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YEAR	MO	DAY	YEAR	MO	DAY
FROM			TO		

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	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****		6.0	*****	9.0	SU		1/M	GRAB
004 TSS	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	30	100	MG/L		1/M	GRAB
500 OIL & GREASE	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	15	20	MG/L		1/M	GRAB
	REPORTED									*****	
	REQUIREMENT									*****	
	REPORTED									*****	
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DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2000
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****		6.0	*****	9.0	SU		1/M	GRAB
004 TSS	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	30	100	MG/L		1/M	GRAB
500 OIL & GREASE	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	15	20	MG/L		1/M	GRAB
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	

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DISCHARGE MONITORING REPORT(DMR)**

Industria Major 01/09/2007
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001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	0.030	NL	MGD	*****	*****	*****			1/DAY	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****		6.0	*****	9.0	SU		1/M	GRAB
003 BOD5	REPORTED				*****						
	REQUIREMENT	3.40	5.11	KG/D	*****	30	45	MG/L		1/6M	GRAB
004 TSS	REPORTED				*****						
	REQUIREMENT	3.40	5.11	KG/D	*****	30	45	MG/L		1/3M	GRAB
157 CL2, TOTAL CONTACT	REPORTED	*****	*****			*****	*****				
	REQUIREMENT	*****	*****		1.0	*****	*****	MG/L	3	1/DAY	GRAB
165 CL2, INST RES MAX	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	2.0	2.4	MG/L		1/DAY	GRAB
213 CL2, INST TECH MIN LIMIT	REPORTED	*****	*****			*****	*****				
	REQUIREMENT	*****	*****		0.6	*****	*****	MG/L		*****	*****
	REPORTED										
	REQUIREMENT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
Submit daily log with DMR

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				TYPED OR PRINTED NAME		SIGNATURE			

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2004

**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PERMITTEE NAME RESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - North Anna
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY Route 700
LOCATION

VA0052451	112					
PERMIT NUMBER	DISCHARGE NUMBER					
MONITORING PERIOD						
YEAR	MO	DAY	YEAR	MO	DAY	
FROM			TO			

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****		6.0	*****	9.0	SU		1/M	GRAB
004 TSS	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	30	100	MG/L		1/6M	GRAB
500 OIL & GREASE	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	15	20	MG/L		1/6M	GRAB
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2001

**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PERMITTEE NAME RESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - North Anna
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY Route 700
LOCATION

VA0052451	114				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
			TO		

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
	REPORTED									*****	
	REQUIREMENT									*****	
	REPORTED									*****	
	REQUIREMENT									*****	
	REPORTED									*****	
	REQUIREMENT									*****	
	REPORTED									*****	
	REQUIREMENT									*****	
	REPORTED									*****	
	REQUIREMENT									*****	
	REPORTED									*****	
	REQUIREMENT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)</small>				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)**

Industry Major 01/08/2004

**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PERMITTEE NAME: PRESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME: Virginia Power - North Anna
ADDRESS: 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION: Route 700

VA0052451	013				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****		6.0	*****	9.0	SU		1/M	GRAB
004 TSS	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	30	100	MG/L		1/M	GRAB
500 OIL & GREASE	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	15	20	MG/L		1/M	GRAB
	REPORTED									*****	
	REQUIREMENT										
	REPORTED									*****	
	REQUIREMENT										
	REPORTED									*****	
	REQUIREMENT										
	REPORTED									*****	
	REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				TYPED OR PRINTED NAME	SIGNATURE				YEAR

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2004

**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PERMITTEE NAME: **RESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)**

NAME Virginia Power - North Anna
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY Route 700
LOCATION

VA0052451	014
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
FROM	TO
YEAR MO DAY	YEAR MO DAY

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****	6.0	*****	9.0	SU			1/M	GRAB
004 TSS	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	30	100	MG/L		1/M	GRAB
500 OIL & GREASE	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	15	20	MG/L		1/M	GRAB
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
<p>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)</p>				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2000

**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PERMITTEE NAME RESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - North Anna
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY Route 700
LOCATION

VA0052451	016				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
			TO		

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/YR	EST
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE			
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE				
				TYPED OR PRINTED NAME		SIGNATURE				YEAR

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2001

**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PERMITTEE NAME: _____ (INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME: Virginia Power - North Anna
ADDRESS: 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION: Route 700

VA0052451		020	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	TO YEAR MO DAY

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			2/M	EST
002 PH	REPORTED	*****	*****			*****					
	REQUIREMENT	*****	*****	6.0	*****	9.0	SU			2/M	GRAB
004 TSS	REPORTED	*****	*****		*****						
	REQUIREMENT	*****	*****		*****	30	100	MG/L		1/3M	GRAB
165 CL2, INST RES MAX	REPORTED	*****	*****		*****	*****					
	REQUIREMENT	*****	*****		*****	*****	4.0	MG/L		2/M	GRAB
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)</small>				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industry Major 01/08/2004

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PERMITTEE NAME RESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - North Anna
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY Route 700
LOCATION

VA0052451	021				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				*****	*****	*****				
	REQUIREMENT	NL	NL	MGD	*****	*****	*****			1/M	EST
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	
	REPORTED										
	REQUIREMENT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				TYPED OR PRINTED NAME		SIGNATURE			

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING FORM.

DEPT. OF ENVIRONMENTAL QUALITY
Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg, VA 22801
(540) 574-7800

**VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)**

TYPE: **STORM WATER**

Steam Electric Power Generating Facilities

VA0052451	
PERMIT NUMBER	OUTFALL NO.

PERMITTEE NAME Virginia Electric & Power Company

FACILITY NAME Virginia Power - North Anna

ADDRESS: 5000 Dominion Blvd
Glen Allen, VA 23060

Check One	MONITORING PERIOD						
	YEAR	MO	DAY	TO	YEAR	MO	DAY
							30
							30

CONTACT PERSON _____ TELEPHONE _____

PARAMETER		CONCENTRATION				NO. EX.	Monitoring Waived
		MINIMUM	AVERAGE	MAXIMUM	UNITS		
361 TOTAL	REPORTED	*****	*****				
RECOVERABLE IRON	MONITORING CUT OFF	*****	*****	1	mg/L		(Y)Yes or (N)No

STORM EVENT INFORMATION			
DATE	YR.	MO	DAY
DURATION	HRS	MIN	
PRECIP. AMOUNT (IN.)			
RUNOFF VOL. (GAL.)			
PRECEDING EVENT	DAYS	HRS	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 U. S. C. § 1001 and 33 U. S. C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and five years.)

PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	
TYPED OR PRINTED NAME	SIGNATURE

DATE		
YR.	MO	DAY

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 001 (Discharge of Condenser Cooling Water from Waste Heat Treatment Facility at Dike 3).

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

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) ²	NL	NA	NA	NL	1/Month	Calculated
pH (standard units)	NA	NA	6.0	9.0	1/Year	Grab
Heat Rejected (x10 ⁹ BTU/Hr.) ²	NA	NA	NA	13.54	1/Day	Calculated
Total Residual Chlorine (mg/l) ⁴	NL	NA	NA	0.2	1/Month	Grab

NL = No Limitation, monitoring required
 NA = Not Applicable

2. Heat rejected rate submitted monthly shall be a calculation of the maximum heat directed to the waste heat treatment facility from Units 1 and/or 2. The value reported as the daily maximum flow for the report period shall be the flow rate which occurred on the day that the maximum heat rejected was calculated from Units 1 and/or 2.
3. The sample shall be taken at Dike 3 before subsurface discharge to the lake.
4. See Part I.C. for additional monitoring instructions.
5. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 103 (Process Waste Clarifier).

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

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	2/Month	Estimate
pH (standard units) ³	NA	NA	6.0	9.0	2/Month	Grab
Suspended Solids (mg/l)	30	NA	NA	100	1/3 Months ⁴	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/3 Months ⁴	Grab

NL = No Limitation, monitoring required

NA = Not Applicable

2. The sample, except for pH, shall be taken at the clarifier building from the sample tap before the pipe discharges to the tunnel.
3. See Part I.E.12. for pH monitoring point.
4. See Part I.E.13. for additional instructions regarding monitoring frequency.
5. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 104 (Oil/Water Separator and Storm Water).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	2/Month	Estimate
pH (standard units) ³	NA	NA	6.0	9.0	2/Month	Grab
Suspended Solids (mg/l)	30	NA	NA	100	1/3 Months ⁴	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/3 Months ⁴	Grab

NL = No Limitation, monitoring required
 NA = Not Applicable

2. The sample, except for pH, shall be taken prior to mixing with storm water.
3. See Part I.E.12. for pH monitoring point.
4. See Part I.E.13. for additional instructions regarding monitoring frequency.
5. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 105 (Bearing Cooling Tower Blowdown).

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

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (standard units) ³	NA	NA	6.0	9.0	1/Month	Grab
Free Available Chlorine (mg/l) ^{4,5}	0.2	NA	NA	0.5	1/Month	Grab
The 126 priority pollutants (Appendix A) contained in chemicals added for cooling tower maintenance except Total Chromium and Total Zinc ⁶	ND	NA	NA	ND	1/3 Months	Grab
Total Chromium (mg/l) ⁴	0.2	NA	NA	0.2	1/3 Months	Grab
Total Zinc (mg/l) ⁴	1.0	NA	NA	1.0	1/3 Months	Grab

NL = No Limitation, monitoring required

NA = Not Applicable

ND = No detectable amount by the analytical methods in 40 CFR Part 136.

2. The sample point, except for pH, is at the sample tap before entering the tunnel at the turbine building basement.
3. See Part I.E.12. for pH monitoring point.
4. See Part I.C. for additional monitoring instructions.
5. See Part I.E.8. for additional instructions regarding chlorine discharge.
6. See Part I.E.9. for monitoring requirements for 126 priority pollutants.
7. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 107 (Bearing Cooling System Discharge-Lake to Lake Operation).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
Total Residual Chlorine (mg/l) ³	NL	NA	NA	4.0	1/Month	Grab

NL = No Limitation, monitoring required

NA = Not Applicable

2. The sample shall be taken before entering the tunnel at the turbine building basement.
3. See Part I.C. for additional monitoring instructions.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 108 (Service Water Overflow).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (standard units) ³	NA	NA	6.0	9.0	1/Month	Grab

NL = No Limitation, monitoring required
 NA = Not Applicable

2. The sampling point, except for pH, is at the sample tap before entering the tunnel.
3. See Part I.E.12. for pH monitoring point.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfalls serial numbers 109 & 110 (Hot Well Drains 1 & 2).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (standard units) ³	NA	NA	6.0	9.0	1/Month	Grab
Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab

NL = No Limitation, monitoring required
 NA = Not Applicable

2. The sample, except for pH, shall be taken before discharge to the tunnel.
3. See Part I.E.12. for pH monitoring point.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 111 (Sewage).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>			
	<u>Monthly Average</u>		<u>Weekly Average</u>		<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD) ²	NL		NA		NA	NL	1/Day	Estimate
pH (standard units)	NA		NA		6.0	9.0	1/Month	Grab
BOD ₅	30 mg/l	3.40 kg/d	45 mg/l	5.11 kg/d	NA	NA	1/6 Months ⁴	Grab
Suspended Solids	30 mg/l	3.40 kg/d	45 mg/l	5.11 kg/d	NA	NA	1/3 Months ⁴	Grab
Total Residual Chlorine (TRC) (mg/l) ³	2.0		2.4		NA	NA	1/Day	Grab

NL = No Limitation
 NA = Not Applicable

2. The design flow of this treatment facility is 0.030 MGD
3. See Part I.B. for disinfection requirements and Part I.C. for additional monitoring instructions.
4. See Part I.E.13. for additional instructions regarding monitoring frequency.
5. The sample shall be taken at the effluent V-notch weir, before subsurface discharge.
6. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfalls serial numbers 112 & 113 (Steam Generator Blowdown Units 1 & 2).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (standard units) ³	NA	NA	6.0	9.0	1/Month	Grab
Suspended Solids (mg/l)	30	NA	NA	100	1/6 Months ⁴	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/6 Months ⁴	Grab

NL = No Limitation, monitoring required
 NA = Not Applicable

2. The sample, except for pH, shall be taken at the sample tap before entering the tunnel in the turbine building basement (Unit 1 side for 112 and Unit 2 side for 113).
3. See Part I.E.12. for pH monitoring point.
4. See Part I.E.13. for additional instructions regarding monitoring frequency.
5. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 114 (Service Water Pipe Vault Drain).

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

EFFLUENT CHARACTERISTICS

DISCHARGE LIMITATIONS

MONITORING REQUIREMENTS

	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate

NL = No Limitation, monitoring required
NA = Not Applicable

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

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 115 (Service Water System Blowdown).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate

NL = No Limitation, monitoring required
 NA = Not Applicable

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

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 009 (Ground Water, Storm Water, and Backwash from Sand Filters and Reverse Osmosis Units).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	2/Month	Grab
Suspended Solids (mg/l)	30	NA	NA	100	1/3 Months ³	Grab

NL = No Limitation, monitoring required

NA = Not Applicable

2. The sample shall be taken at the discharge to the lake.
3. See Part I.E.13. for additional instructions regarding monitoring frequencies.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 013 (Turbine Building Sump #1 and Storm Water).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	1/Month	Grab
Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab

NL = No Limitation, monitoring required
 NA = Not Applicable

2. The sample shall be taken prior to mixing with storm water.
3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 014 (Turbine Building Sump #2 and Storm Water).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	1/Month	Grab
Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab

NL = No Limitation, monitoring required
 NA = Not Applicable

2. The sample shall be taken prior to mixing with storm water.
3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 016 (Intake Screen Wash Water).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Year	Estimate

NL = No Limitation, monitoring required
 NA = Not Applicable

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

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 020 (Reverse Osmosis Reject).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	2/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	2/Month	Grab
Suspended Solids (mg/l)	30	NA	NA	100	1/3 Months ³	Grab
Total Residual Chlorine (mg/L) ⁴	NA	NA	NA	4.0	2/Month	Grab

NL = No Limitation, monitoring required
 NA = Not Applicable

2. The sample shall be taken before subsurface discharge to the lake.
3. See Part I.E.13. for additional instructions regarding monitoring frequency.
4. See Part I.C. for additional instructions.
5. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 021 (Reverse Osmosis Drain Line).

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate

NL = No Limitation, monitoring required

NA = Not Applicable

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

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge storm water associated with industrial activity from outfalls serial numbers 022, 023, 024, 025 and 026.

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

THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS.

2. Outfall serial number 022 corresponds to drainage area 2A (outfall SW2A) in the permit application.
3. Outfall serial number 023 corresponds to drainage area 2B (outfall SW2B) in the permit application.
4. Outfall serial number 024 corresponds to drainage area 3 (outfall SW3) in the permit application.
5. Outfall serial number 025 corresponds to drainage area 18 (outfall SW18) in the permit application.
6. Outfall serial number 026 corresponds to drainage area 25 (outfall SW25) in the permit application.
7. There shall be no discharge of floating solids or visible foam in other than trace amounts.

B. DISINFECTION LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 111)

1. No more than 3 samples for Total Residual Chlorine (TRC) shall be less than 1.0 mg/l for any one calendar month.
2. No TRC sample shall be less than 0.6 mg/l.
3. If an alternative to chlorination as a disinfection method is chosen, the Fecal Coliform parameter shall be limited and monitored by the permittee as specified below:

	<u>Discharge Limit</u>	<u>Monitoring Requirements</u>	
	<u>Monthly Avg.</u>	<u>Frequency</u>	<u>Sample Type</u>
Fecal Coliform (n/100 ml)	200 (Geometric Mean)	1/Week Between 10 a.m. and 4 p.m.	Grab

C. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR TOXIC POLLUTANTS - ADDITIONAL INSTRUCTIONS

1. a. Quantification Levels shall be as follows:

<u>Effluent Characteristic</u>	<u>Quantification Level</u>
Chlorine	0.1 mg/l
Total Chromium	0.2 mg/l
Total Zinc	1.0 mg/l

- b. The permittee may use any approved method which has a QL equal to or lower than the QL listed in C.1.a. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.
- c. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required quantification levels (QLs) have been attained.
- d. An appropriate analytic method for metals shall be selected from the following list of EPA methods, or any approved method in 40 CFR Part 136, which will achieve a QL that is less than or equal to the QL specified in C.1.a. above.

Metal Analysis Methods

Chromium - 200.7, 200.8, 200.9, 218.1, 218.2, 218.3, 1639
Zinc - 200.7, 200.8, 289.1, 289.2, 1638, 1639

2. Compliance Reporting Under Part I.A.

- a. **Monthly Average** -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.C.1. above shall be determined as follows: All data below the test quantification level (QL) shall be treated as zero. All data equal to or above the QL shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros. This arithmetic average shall be reported on the DMR. If all data are less than the QL, a "<[QL]" shall be reported on the DMR, where the actual test QL shall be substituted for "[QL]".
- b. **Maximum Weekly Average** -- Compliance with the weekly average limitations and/or reporting requirements for the parameters listed in Part I.C.1. above shall be determined as follows: All data below the test QL shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected

within each complete calendar week entirely contained within the reporting month. The maximum value of the weekly averages thus determined shall be reported on the DMR. If all data for each weekly average are less than the QL, a "<[QL]" shall be reported on the DMR, where the actual test QL shall be substituted for "[QL]".

- b. **Daily maximum** -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.C.1. above shall be determined as follows: The highest single value of data that is equal to or above the test QL shall be reported on the DMR. If all data are less than the QL, a "<[QL]" shall be reported on the DMR, where the actual test QL shall be substituted for "[QL]".

D. TOXICS MANAGEMENT PROGRAM REQUIREMENTS

1. Biological Monitoring

- a. In accordance with the schedule in 3. below, and commencing in August or September of the Third or Fourth Year following the effective date of this permit, the permittee shall conduct one acute and one chronic toxicity test using grab samples of final effluent from Outfall 001. The acute test shall be 48-hour static test using Ceriodaphnia dubia to determine the No Observable Adverse Effect Concentration (NOAEC). These tests shall be conducted using a minimum of 20 test organisms per exposure and a minimum of 4 replicates of a suitable control and 100% effluent. A passing NOAEC test shall be 100% effluent, which is defined as:
- (1) Survival of 90% or more of the test organisms in a 100% effluent sample, or
 - (2) No statistical difference in survival rates between the control and the 100% effluent sample.

In all cases, survival in the controls must equal or exceed 90% for the tests to be valid.

The chronic test shall be a static renewal test using Ceriodaphnia dubia. The C. dubia chronic test shall be a 3-brood survival and reproduction test. These chronic tests shall be conducted in such a manner and at sufficient dilution to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction. Technical assistance in developing the procedures for these tests shall be provided by the Department of Environmental Quality (DEQ) staff, if requested by the permittee. Test protocols and the use of alternative species shall be approved by DEQ staff **prior** to initiation of testing.

- b. If, in the testing according to 1.a. above, the acute toxicity test performed at Outfall 001 yields an NOAEC of less than 100% effluent or the chronic toxicity test yields an NOEC of less than the Instream Waste Concentration (IWC) of 100%, **the test shall be repeated within thirty days of the original sample.**
- (1) If the retest also indicates an NOAEC or an NOEC of less than 100% effluent, quarterly toxicity testing as in 1.c. shall commence within three months. The results of these tests will be included in the evaluation of the need for toxicity reduction.
 - (2) If the retest does not confirm the results of the first test, then annual testing, in the months of August or September, in accordance with 1.f, shall begin.

- c. If required in 1.b.(1) above, the permittee shall conduct quarterly acute and chronic toxicity tests for a period of one year using grab samples of final effluent from Outfall 001. The acute tests shall be 48-hour static NOAEC tests as in 1.a, using Ceriodaphnia dubia and Pimephales promelas. The chronic tests shall be static renewal tests using C. dubia and P. promelas. The C. dubia test shall be a 3-brood survival and reproduction test and the P. promelas test shall be a 7-day larval survival and growth test. These chronic tests shall be conducted in such a manner and at sufficient dilutions to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. The permittee may provide additional samples to address data variability. These data may be included in the evaluation of effluent toxicity. The results of all such additional analyses shall be reported. Technical assistance in developing the procedures for these tests shall be provided by DEQ staff, if requested by the permittee. Test protocols and the use of alternative species shall be approved by DEQ staff **prior** to initiation of testing.
- d. The following criteria shall be used in evaluating the toxicity test data:
- (1) NOAEC of at least 100% effluent in six of the total of eight acute toxicity tests, or in at least 75% of the tests conducted, if more than eight tests are conducted, and
 - (2) NOEC greater than or equal to 100%, in six of the total of eight chronic toxicity tests, or in at least 75% of the tests conducted if more than eight tests are conducted.
- Any effluent failing either of the above criteria shall be considered to have demonstrated actual or potential toxicity and a Toxicity Reduction Evaluation (TRE) will be required.
- e. If, prior to completing the monitoring requirements specified in 1.c. above, it is determined that the effluent fails the decision criteria outlined in 1.d., a TRE may be required. Upon notification by DEQ that a TRE is required, the permittee shall initiate a TRE and may stop conducting the toxicity tests of 1.c.
- f. Following completion of a successful re-test of Outfall 001 as per condition D.1.b.(2) above, the permittee shall continue acute and chronic toxicity testing of the outfall annually. The first annual tests shall begin in the month of August or September following completion of quarterly testing, and shall be submitted within 8 weeks of the applicable sampling date. Subsequent annual tests shall be conducted in August or September of subsequent years, and shall be submitted within 8 weeks of the applicable sampling date. The test organisms shall be those identified as the most sensitive species from previous acute and chronic tests or alternative species approved by DEQ staff. Annual testing of the outfall is not required in cases where the need for a TRE of the outfall has been established.

- g. If, in the testing according to 1.f. above, any of the annual acute toxicity tests yields an NOAEC of less than 100% effluent or any annual chronic toxicity test yields an NOEC of less than 100%, **the test shall be repeated within thirty days of the original sample.**
 - (1) If the retest also indicates an NOAEC or an NOEC of less than 100% effluent, quarterly toxicity testing as in 1.c. above shall commence within three months. The results of these tests will be included in the evaluation of the need for toxicity reduction.
 - (2) If the retest does not confirm the results of the first test, then annual testing in the months of August or September shall resume.

2. Toxicity Reduction Evaluation

- a. If the results of this Toxics Management Program or other available information indicate that the wastewaters are actually or potentially toxic, the permittee shall submit:
 - (1) a Toxicity Reduction Evaluation (TRE) plan or, at the permittee's option, an instream impact study plan, and
 - (2) an accompanying implementation schedulewithin 120 days of the notification of such a determination by DEQ.
- b. The requirement of this plan shall be to:
 - (1) assure the absence of actual or potential toxicity, or
 - (2) to demonstrate that there is, or would be, no adverse impact from the discharge on all reasonable and beneficial uses of the state's waters.
- c. Upon approval of the plan, the permittee shall implement the plan and the permit may be modified or, alternatively, revoked and reissued in order to reflect appropriate permit conditions and a compliance schedule.

3. Reporting Schedule

The permittee shall submit 2 copies of the results of the toxicity tests specified in this Toxics Management Program in accordance with the following schedule:

- a. **Submit toxicity test protocols for approval** **By May 31, 2003**

- b. Conduct biological tests on Outfall 001 In August or September of 2003 or 2004
- c. **Submit results of all biological tests conducted on Outfall 001 for this period** **Within 8 weeks following the testing in 3.b.**
- d. Submit results of all subsequent retest, quarterly or annual biological tests of Outfall 001 Within 8 weeks of that test's being conducted

E. OTHER REQUIREMENTS AND SPECIAL CONDITIONS

1. **EPA Industrial Reopener** -- This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation or prohibition for a pollutant which is promulgated or approved under Section 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - a. Is more stringent than any effluent limitation on the pollutant already in the permit; or
 - b. Controls any pollutant not limited in the permit.
2. **Notification Levels** - The permittee shall notify DEQ-Valley Regional Office as soon as they know or have reason to believe the following:
 - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 µg/l);
 - (2) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the Board.
 - b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (1) Five hundred micrograms per liter (500 µg/l);
 - (2) One milligram per liter (1 mg/l) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the Board.
3. **Materials Handling/Storage** -- Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall

be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. **PCB Discharge** -- There shall be no discharge of polychlorinated biphenyl compounds, such as those commonly used for transformer fluids, to navigable waters that originate from this source in amounts equal to or greater than detected by EPA Test Methods specified in 40 CFR Part 136, Guidelines for Establishing Test Procedures for the Analysis for Pollutants.
5. **Liquid Radioactive Discharge** -- All limitations and monitoring requirements for liquid radioactive waste discharges shall be regulated by the Nuclear Regulatory Commission in accordance with regulations as set forth in 10 CFR Part 20 and 10 CFR Part 50.
6. **Temperature Monitoring Program** -- The temperature monitoring program shall be conducted during two quarters of the year and identified in accordance with the accompanying Charts #1 and 2. The monitoring program shall be conducted in such a way that one quarter shall always be July-September and the remaining quarter shall be alternated every year. Reports shall be submitted yearly within 90 days of the end of the year during which the monitoring program was conducted.

a. Fixed Continuous Temperature Recorders as noted on Chart #1.

(1) Temperature measurements are to be taken hourly at the surface at Stations 1 through 9 inclusive and 11 and at a depth of 3 meters at Station 10.

(2) Temperature readings shall be reported as follows:

(a) Monthly maximum daily temperature in degrees Celsius.

(b) Mean of daily high, mean and low values in degrees Celsius.

b. Quarterly Thermal Plume Survey Network as noted on Chart #2.

Temperature measurements are to be taken during daylight hours from the surface to the bottom at one meter intervals at Stations A through N on Chart #2.

7. **Use of Chemical Additives**

a. The use of chlorine or other biocide other than these identified in the current application, for any purpose other than disinfection at the sewage treatment plants, is prohibited without prior notification to DEQ, Valley Regional Office.

b. At least thirty days prior to using any chemical additives not identified in the permit application, the permittee shall notify DEQ, Valley Regional Office, in writing, of the following:

- (1) chemical additives to be employed and their purposes, and MSDS for each proposed additive;
 - (2) schedule of additive usage; and
 - (3) wastewater treatment and/or retention to be provided during the use of additives.
 - c. Should the addition of treatment chemicals significantly alter the characteristics of the effluent, or if their usage becomes persistent or continuous, this permit may be modified or, alternatively, revoked and reissued to include appropriate limitations or conditions.
8. **Chlorine Discharge from Cooling Tower (Outfall 105)** – Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than 2 hours in any one day, and not more than one unit in any plant may discharge free available or total residual chlorine at any one time from outfall 105.
 9. **Additional Instructions Regarding 126 Priority Pollutants (Outfall 105)** – The 126 priority pollutants (as shown in attached Appendix A) contained in chemicals added for cooling tower, except total chromium and total zinc, shall be nondetectable in the cooling tower blowdown discharge from outfall 105. The monitoring requirement may be substituted by submitting engineering calculations which demonstrate that the regulated pollutants are not detectable, in the final discharge (outfall 105), by the analytical methods in 40 CFR Part 136.
 10. **Discharge of Wastewater from Particle Separators** -- The permittee is authorized to discharge wastewaters generated by the operation of particle separators for supply wells 4 and 6 and the operation of the particle separator and sand filter for the supply well serving the North Anna Nuclear Information Center. Wastewater from these treatment units will be land applied in the vicinity of each of the supply wells. As a result of the nature of the wastewater, the permeability of the area soils and the substantial distance of travel to the nearest surface waters, no discharge to or impact upon State waters is anticipated. There are no monitoring or reporting requirements for these discharges. Should the physical characteristics or volume of wastewater change substantially, the permittee shall notify the DEQ, Valley Regional Office in writing in advance of any such change in operation.
 11. **Debris in the Intake Trash Rack** -- Debris collected on the intake trash racks shall not be returned to the waterway.
 12. **pH Monitoring for Internal Outfalls** -- The pH for internal outfall serial numbers 103, 104, 105, 108, 109, 110, 112, and 113 shall be monitored in the cooling water discharge canal prior to discharge into the waste heat treatment facility.

13. **Effluent Monitoring Frequencies (Outfalls 009, 020, 103, 104, 111, 112 and 113) –** Should the facility permitted herein be issued a Warning Letter or a Notice of Violation, receive an unsatisfactory laboratory determination, or be the subject of an active enforcement action, the following effluent monitoring frequencies shall become effective and remain in effect until the permit's expiration date:

Outfall 009

Suspended Solids 2/Month

Outfall 020

Suspended Solids 2/Month

Outfalls 103 and 104

Suspended Solids 2/Month

Oil & Grease 2/Month

Outfall 111

BOD₅ 1/Month

Suspended Solids 1/Month

Outfalls 112 and 113

Suspended Solids 1/Month

Oil & Grease 1/Month

No other effluent limitations or monitoring requirements are affected by this special condition and revision to the monitoring frequencies contained in this special condition shall be initiated only in response to the water media or VPDES Permit related enforcement actions listed herein.

14. **Operations and Maintenance Manual Requirement (Outfalls 001, 103-105, 107-110, 112-115, 009, 013, 014, 016, 020 and 021)-** -- The owner shall develop an Operations and Maintenance (O & M) Manual for the facility permitted herein. This manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. The manual shall be submitted for staff approval within **90 days of the effective date** of this permit. The permittee shall operate and maintain the facility in accordance with the approved Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- a. Techniques to be employed in the collection, preservation, and analysis of effluent samples;
- b. Discussion of Best Management Practices;

- c. Treatment system design, treatment system operation, routine preventative maintenance of units within the treatment system, critical spare parts inventory and record keeping;
- d. Solids disposal practices.

Any significant changes to the facility or to the procedures specified in the Manual must be addressed by the submittal of O&M Manual revisions, as applicable, within 90 days of the change(s).

15. **95% Capacity Reopener (Outfall 111)** -- A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to:

Department of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801

when the **monthly average flow influent** to the sewage treatment plant reaches **95 percent of the design capacity** authorized in this permit for **each month of any three consecutive month period**. The **written notice** shall be submitted **within 30 days** and the **plan of action** shall be received at the Valley Regional Office **no later than 90 days** from the third consecutive month for which the flow reached 95 percent of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

16. **Indirect Dischargers (Outfall 111)** -- The permittee shall provide adequate notice to DEQ, Valley Regional Office, of the following:

- a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Section 301 or 306 of the Clean Water Act and the State Water Control Law if it were directly discharging those pollutants; and
- b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of this permit.

Adequate notice shall include information on 1) the quality and quantity of effluent introduced into the treatment works, and 2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the treatment works.

17. **CTC, CTO, O & M Manual Requirements (Outfall 111)** -- The permittee, in accordance with the Sewerage Regulations, shall obtain a Certificate to Construct (CTC) and a Certificate to Operate (CTO) from the DEQ prior to constructing wastewater treatment facilities and operating the facilities respectively.

Also, the permittee shall maintain an accurate, approved **Operations and Maintenance (O&M) Manual**. Any significant changes to the facilities must be addressed by the submittal of a revised O&M Manual within 90 days of the change(s).

Noncompliance with the CTC, CTO, or O&M Manual shall be deemed a violation of the permit.
18. **Sludge Reopener Clause (Outfall 111)** -- The Board may promptly modify or revoke and reissue this permit if any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.
19. **SMP Requirement (Outfall 111)** -- The permittee shall conduct all sewage sludge use or disposal activities in accordance with the Sludge Management Plan (SMP) approved with the issuance of this permit. Any proposed changes in the sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ and Department of Health approval 90 days prior to the effective date of the changes. Upon approval, the SMP becomes an enforceable part of the permit. The permit may be modified or, alternatively, revoked and reissued to incorporate limitations/conditions necessitated by substantive changes in sewage sludge use or disposal practices.
20. **Licensed Operator Requirement (Outfall 111)** -- The permittee shall employ or contract for this facility a Class IV operator whose wastewater license is current and valid. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators. The permittee shall notify DEQ-Valley Regional Office in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.
21. **Reliability Class (Outfall 111)** -- The permitted treatment works shall meet Reliability Class II.
22. **Water Quality Standards Monitoring** -- The permittee shall monitor the effluent at outfall 001 for the substances noted in Attachment A of the permit according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be initiated after the start of the third year from the permit's effective date. Using Attachment A as the reporting form, the data shall be submitted with the next permit reissuance application which is due 180 days prior to the expiration date of this permit. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or

alternative EPA approved method. Alternative EPA approved methods other than those specified in Appendix A may be used with prior notification to and approval from DEQ. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

F. LAKE LEVEL CONTINGENCY PLAN

The intent of this condition is to allow specific reductions in the lake discharge flow when the lake water level drops below designated levels due to drought conditions, taking into account and minimizing any adverse effects of any release reduction requirements on downstream users.

1. Except as provided in 2. below, the permittee shall at all times provide a minimum instantaneous release from the Lake Anna impoundment of 40 cfs.
2. When the level in Lake Anna reaches 248 feet above mean sea level (msl), the permittee will begin reducing releases below the 40 cfs minimum in accordance with the following conditions:
 - a. Minimum instantaneous releases shall not drop below 20 cfs.
 - b. The Water Compliance Manager of DEQ's Piedmont Regional Office and the downstream users identified below will be given at least 72 hours notice by the permittee prior to the initiation of flow reductions:
 - ◆ Hanover County Public Utilities
 - ◆ Bear Island Paper Company
 - ◆ Engel Farms, Inc
 - ◆ Pamunkey Indian Tribal Government
 - c. Skimmer gate adjustments will be performed in accordance with Station Operating Procedures.
 - d. Releases shall be stepped down in increments of approximately 5 cfs with at least a 72-hour period following each incremental reduction and prior to any subsequent reduction.
 - e. During the period in which releases are reduced below 40 cfs, conditions in the North Anna River shall be monitored in accordance with the monitoring plan submitted by the permittee and approved by the DEQ prior to implementation of the Lake Level Contingency Plan.
 - f. Releases from the dam shall return to 40 cfs upon the Lake level returning to greater than 248 ft. msl. Increases of flow will occur in 5 cfs increments with a 24 hour wait period prior to the next gate adjustment.
 - g. If any downstream user identifies an adverse effect at any time during flow reductions and notifies the DEQ of the adverse effect, the Director shall make a timely investigation. If after notice to the permittee and the affected downstream users the Director finds an adverse effect from the flow reductions, the flows shall be increased in 5 cfs increments with a 24 hour wait period prior to the next gate adjustment, until the flow reaches 40 cfs or the Director finds that the adverse effect has been eliminated.
 - h. Adverse effect is defined as the inability to withdraw/discharge water for proper operation of facilities, or impairment of water quality.

G. STORM WATER MANAGEMENT

1. Analytical Monitoring Requirements

- a. The permittee is required to monitor storm water discharges associated with industrial activity for the pollutant(s) of concern listed in the table(s) below. Except as provided in Part I.G.1.b. or I.G.2.c., the permittee must monitor storm water discharges at least semiannually (2 times per year) during the second and fourth years of the permit. The second year is the period beginning one year after the effective date of the permit lasting through two years after the effective date the permit, and the fourth year is the period beginning three years after the effective date the permit lasting through four years after the effective date of the permit. Permittees required to perform monitoring shall monitor samples collected during the sampling periods of January through June and July through December.

Monitoring Requirements for Steam Electric Power Generating Facilities

<u>Pollutant of Concern</u>	<u>Monitoring Cut-Off Concentration</u>
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Total Recoverable Iron	1 mg/L
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- b. When the average concentration for a pollutant calculated from all monitoring data collected from an outfall during the monitoring period for the second year of this permit is less than or equal to the corresponding value for that pollutant listed in the table in Part I.G.1.a. under the Monitoring Cut-Off Concentration column, a permittee may waive the Part I.G.1.a. monitoring and reporting requirements in the monitoring period beginning in the fourth year of this permit. The exclusion from monitoring in the fourth year of the permit is conditional on the facility maintaining industrial operations and best management practices which will ensure a quality of storm water discharges consistent with the average concentrations recorded during the second year of the permit. For any low concentration waiver, the permittee must submit to the Department, in lieu of the monitoring data, a certification that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility which drains to the outfall for which sampling was waived.

2. General Storm Water Conditions

- a. Sample type For all storm water monitoring required in Part I.G.1. or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and which occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during

the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the permittee shall submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or nonprocess water, then where practicable, permittees must attempt to sample the storm water discharge before it mixes with the nonstorm water discharge.

- b. Recording of Results For each measurement or sample taken pursuant to the storm event monitoring requirements of this permit, the permittee shall record and report the following information with the Discharge Monitoring Report (DMR):
- (1) The date and duration (in hours) of the storm event(s) sampled;
 - (2) The rainfall measurements or estimates (in inches) of the storm event which generated the sampled discharge;
 - (3) The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event; and
 - (4) An estimate of the total volume (in gallons) of the discharge sampled.

In addition, the permittee shall maintain a monthly log documenting the amount of rainfall received at this facility on a daily basis. A summarization of this information shall also be submitted with the DMR.

- c. Sampling Waiver When a permittee is unable to collect storm water samples required in Part I.G.1. or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).
- d. Representative Discharge When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s), provided that the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an

estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (less than 40 percent), medium (40 to 65 percent), or high (greater than 65 percent)) shall be provided in the plan.

- e. Quarterly Visual Examination of Storm Water Quality Unless a more frequent schedule is established elsewhere within this permit, the permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each outfall. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December.
- (1) Examinations shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed 1 hour) of when the runoff or snowmelt begins discharging. The examination shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on the samples. All such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and which occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term.
 - (2) Visual examination reports must be maintained onsite with the pollution prevention plan. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snowmelt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
- f. Prohibition of Nonstorm Water Discharges Except as provided in this paragraph or elsewhere in this permit, all storm water discharges covered by this permit shall be composed entirely of storm water. The following nonstorm water discharges may be authorized by this permit, provided that the nonstorm water component of the discharge is in compliance with this permit: discharges from fire fighting activities; fire hydrant flushings; potable water sources including waterline flushings; uncontaminated compressor condensate; irrigation drainage; lawn watering; routine external building washdown that 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; uncontaminated springs; uncontaminated ground

water; and foundation or footing drains where flows are not contaminated with process materials such as solvents.

All other nonstorm water discharges must be addressed within and in compliance with this VPDES permit.

- g. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an onsite spill. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110 (1998), 40 CFR 117 (1998) or 40 CFR 302 (1998) occurs during a 24 hour period, the permittee is required to notify the Department in accordance with the requirements of Part II.G. of this permit as soon as he or she has knowledge of the discharge. In addition, the storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the recurrence of such releases and to respond to such releases, and the plan must be modified where appropriate. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110 (1998), 40 CFR 117 (1998) and 40 CFR 302 (1998) or § 62.1-44.34:19 of the Code of Virginia.
3. **Facility-Specific Storm Water Management Conditions** -- In addition to the requirements of Part I.G.4.d., the Storm Water Pollution Prevention Plan shall include, at a minimum, the following items.
- a. Description of Potential Pollutant Sources Drainage. A site map which clearly outlines the locations of the following, as they apply to the facility: processing areas and buildings; treatment ponds; location of short and long term storage of general materials (including but not limited to: supplies, construction materials, plant equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizers, and pesticides); landfills; location of construction sites; and locations of stock pile areas (such as coal piles and limestone piles).
- b. Measures and Controls
- (1) Good Housekeeping. The following areas must be specifically addressed.
- (a) Fugitive Dust Emissions. The plan must describe measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize offsite tracking of coal dust. To prevent offsite tracking the facility may consider specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.
- (b) Delivery Vehicles. The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee should consider the following: i) Develop procedures for the inspection of delivery vehicles

- arriving on the plant site, and ensure overall integrity of the body or container; and ii) Develop procedures to deal with leakage or spillage from vehicles or containers, and ensure that proper protective measures are available for personnel and environment.
- (c) Fuel Oil Unloading Areas. The plan must describe measures that prevent or minimize contamination of storm water runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent: i) Use containment curbs in unloading areas; ii) During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up; and iii) Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath fuel oil connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors).
 - (d) Chemical Loading/Unloading Areas. The plan must describe measures that prevent or minimize the contamination of storm water runoff from chemical loading/unloading areas. Where practicable, chemical loading/unloading areas should be covered, and chemicals should be stored indoors. At a minimum the permittee must consider using the following measures or an equivalent: i) Use containment curbs at chemical loading/unloading areas to contain spills; and ii) During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up.
 - (e) Miscellaneous Loading/Unloading Areas. The plan must describe measures that prevent or minimizes the contamination of storm water runoff from loading and unloading areas. The plan may consider covering the loading area, minimizing storm water runoff to the loading area by grading, berming, or curbing the area around the loading area to direct storm water away from the area, or locate the loading/unloading equipment and vehicles so that leaks can be contained in existing containment and flow diversion systems.
 - (f) Liquid Storage Tanks. The plan must describe measures that prevent or minimize contamination of storm water runoff from above ground liquid storage tanks. At a minimum the permittee must consider employing the following measures or an equivalent: i) Use protective guards around tanks; ii) Use containment curbs; iii) Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath chemical connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors); and iv) Use dry cleanup methods.
 - (g) Large Bulk Fuel Storage Tanks. The plan must describe measures that prevent or minimize contamination of storm water runoff from liquid storage tanks. At a minimum the permittee must consider employing the following measures, or an equivalent: i) Comply with applicable State and

- Federal laws, including Spill Prevention Control and Countermeasures (SPCC); and ii) Containment berms.
- (h) The plan must describe measures to reduce the potential for an oil spill, or a chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all above ground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.
 - (i) Oil Bearing Equipment in Switchyards. The plan must describe measures to reduce the potential for storm water contamination from oil bearing equipment in switchyard areas. The permittee may consider level grades and gravel surfaces to retard flows and limit the spread of spills; collection of storm water runoff in perimeter ditches.
 - (j) Residue Hauling Vehicles. All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the body or container. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.
 - (k) Ash Loading Areas. Plant procedures shall be established to reduce and/or control the tracking of ash or residue from ash loading areas for example, where practicable, requirements to clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water.
 - (l) Areas Adjacent to Disposal Ponds or Landfills. The plan must describe measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to: i) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and ii) Reduce ash residue on exit roads leading into and out of residue handling areas.
 - (m) Landfills, Scrapyards, Surface Impoundments, Open Dumps, General Refuse Sites. The plan must address landfills, scrapyards, surface impoundments, open dumps and general refuse sites.
 - (n) Maintenance Activities. For vehicle maintenance activities performed on the plant site, the permittee shall use the following applicable BMPs:
 - i. Vehicle and Equipment Storage Areas. The storage of vehicles and equipment awaiting maintenance with actual or potential fluid leaks must be confined to designated areas (delineated on the site map). The plan must describe measures that prevent or minimize contamination of the storm water runoff from these areas. The permittee shall consider the use of drip pans under vehicles and equipment, indoor storage of the vehicles and equipment, installation of berming and diking of this area, use of absorbents, roofing or covering storage areas, cleaning pavement surface to remove oil and grease, or other equivalent methods.

- ii. Fueling Areas. The plan must describe measures that prevent or minimize contamination of the storm water runoff from fueling areas. The permittee shall consider covering the fueling area, using spill and overflow protection and cleanup equipment, minimizing runoff/runoff of storm water to the fueling area, using dry cleanup methods, collecting the storm water runoff and providing treatment or recycling, or other equivalent measures.
- iii. Material Storage Areas. Storage units of all materials (e.g., used oil, used oil filters, spent solvents, paint wastes, radiator fluids, transmission fluids, hydraulic fluids) must be maintained in good condition, so as to prevent contamination of storm water, and plainly labeled (e.g., "used oil," "spent solvents," etc.). The plan must describe measures that prevent or minimize contamination of the storm water runoff from such storage areas. The permittee shall consider indoor storage of the materials, installation of berming and diking of the area, minimizing runoff/runoff of storm water to the areas, using dry cleanup methods, collecting the storm water runoff and providing treatment, or other equivalent methods.
- iv. Vehicle and Equipment Cleaning Areas. The plan must describe measures that prevent or minimize contamination of the storm water runoff from all areas used for vehicle and equipment cleaning. The permittee shall consider performing all cleaning operations indoors, covering the cleaning operation, ensuring that all washwaters drain to the intended collection system (i.e., not the storm water drainage system unless VPDES permitted), collecting the storm water runoff from the cleaning area and providing treatment or recycling, or other equivalent measures. The discharge of vehicle and equipment wash waters, including tank cleaning operations, are not authorized by this permit and must be covered under a separate VPDES permit or discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements.
- v. Vehicle and Equipment Maintenance Areas. The plan must describe measures that prevent or minimize contamination of the storm water runoff from all areas used for vehicle and equipment maintenance. The permittee shall consider performing all maintenance activities indoors, using drip pans, maintaining an organized inventory of materials used in the shop, draining all parts of fluids prior to disposal, prohibiting wet clean up practices where the practices would result in the discharge of pollutants to storm water drainage systems, using dry cleanup methods, collecting the storm water runoff from the maintenance area and providing treatment or recycling, minimizing runoff/runoff of storm water areas or other equivalent measures.
- vi. Locomotive Sanding (loading sand for traction) Areas. The plan must describe measures that prevent or minimize contamination of the storm water runoff from areas used for locomotive sanding. The

permittee shall consider covering sanding areas, minimizing storm water runoff/runoff, appropriate sediment removal practices to minimize the offsite transport of sanding material by storm water, or other equivalent measures.

(o) **Material Storage Areas.** The plan must describe measures that prevent or minimize contamination of storm water from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee may consider flat yard grades, runoff collection in graded swales or ditches, erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins), covering lay down areas, storing the materials indoors, covering the material with a temporary covering made of polyethylene, polyurethane, polypropylene, or hypalon. Storm water runoff may be minimized by constructing an enclosure or building a berm around the area.

(2) **Inspections.** Qualified facility personnel shall be identified to inspect the following areas: coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

(3) **Employee Training.** Training should address topics such as goals of the pollution prevention plan, spill prevention and control, proper handling procedures for hazardous wastes, good housekeeping and material management practices, and storm water sampling techniques. The pollution prevention plan shall identify periodic dates for such training, but in all cases training must be held at least annually.

4. **Storm Water Pollution Prevention Plan** -- A storm water pollution prevention plan was required to be developed and implemented for the facility by the previous permit. The existing storm water pollution prevention plan shall be reviewed and modified, as appropriate, to conform to the requirements of this section. The plan shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee must implement the provisions of the storm water pollution prevention plan required under this part as a condition of this permit.

The storm water pollution prevention plan requirement of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the

requirements of Part I.G.4.d. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the storm water pollution prevention plan become enforceable under this permit.

- a. Deadlines for Plan Preparation and Compliance The existing storm water pollution prevention plan shall be reviewed, modified and implemented as expeditiously as practicable, but not later than 270 days from permit issuance. In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than three years after the date of issuance of the permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.
- b. Signature and Plan Review
 - (1) Signature/Location. The plan shall be signed in accordance with Part II.K. of this permit and be retained onsite at the facility which generates the storm water discharge in accordance with Part II.B. of this permit. For inactive facilities, the plan may be kept at the nearest office of the permittee.
 - (2) Availability. The permittee shall make the storm water pollution plan, annual site compliance inspection report, or other information available to the Department upon request.
 - (3) Required Modifications. The Regional Office may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of the permit. Such notification shall identify those provisions of the permit which are not being met by the plan, and identify which provisions of the plan require modifications in order to meet the minimum requirements of this permit. Within 60 days of such notification, the permittee shall make the required changes to the plan and shall submit to the Regional Office a written certification that the requested changes have been made.
- c. Keeping Plans Current The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the potential for the discharge of pollutants to surface waters of the State or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under section d. below or in otherwise achieving the general objectives of controlling pollutants in storm water discharges

associated with industrial activity. New owners shall review the existing plan and make appropriate changes. Amendments to the plan may be reviewed by the Department in the same manner as noted in section b. above.

- d. Contents of Plan The contents of the pollution prevention plan shall comply with the requirements listed below and those in Part I.G.3. (Facility-Specific Storm Water Management Conditions) of this permit. These requirements are cumulative. The following requirements are applicable to all storm water pollution prevention plans developed under this permit. The plan shall include, at a minimum, the following items:
- (1) **Pollution Prevention Team.** The plan shall identify a specific individual or individuals within the facility organization as members of a storm water Pollution Prevention Team that are responsible for developing the storm water pollution prevention plan and assisting the facility or plant manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's storm water pollution prevention plan.
 - (2) **Description of Potential Pollutant Sources.** The plan shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The plan shall identify all activities and significant materials which may potentially be significant pollutant sources. The plan shall include, at a minimum:
 - (a) **Drainage**
 - i. A site map indicating an outline of the portions of the drainage area of each storm water outfall within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under section (2)(c) below have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes and wastewaters; locations used for the treatment, filtration, or storage of water supplies; liquid storage tanks; processing areas; and storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of the outfalls.
 - ii. For each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow and an identification of the types of pollutants

which are likely to be present in the storm water discharges. Factors to consider include the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.

- (b) Inventory of Exposed Materials. An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of 3 years prior to the effective date of this permit and the present; method and location of onsite storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of 3 years prior to the effective date of this permit and the present; the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.
 - (c) Spills and Leaks. A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility after the date of 3 years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.
 - (d) Sampling Data. A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit.
 - (e) Risk Identification and Summary of Potential Pollutant Sources. A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and onsite waste disposal practices and wastewater treatment activities to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site, and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.
- (3) Measures and Controls. The permittee shall develop a description of storm water management controls appropriate for the facility and implement these controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components,

including a schedule for implementing such controls.

- (a) **Good Housekeeping.** Good housekeeping requires the clean and orderly maintenance of areas which may contribute pollutants to storm water discharges. The plan shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.
- (b) **Preventive Maintenance.** A preventive maintenance program shall involve timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges of pollutants to surface waters; and appropriate maintenance of such equipment and systems.
- (c) **Spill Prevention and Response Procedures.** Areas where potential spills may occur which can contribute pollutants to storm water discharges, and their accompanying drainage points, shall be identified clearly in the storm water pollution prevention plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to the appropriate personnel.
- (d) **Inspections.** In addition to or as part of the comprehensive site compliance evaluation required under section d.(4) below, qualified facility personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall be identified to inspect designated equipment and areas of the facility at appropriate intervals. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained with the pollution prevention plan.
- (e) **Employee Training.** Employee training programs shall inform personnel responsible for implementing activities identified in the storm water pollution prevention plan or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management

practices. The pollution prevention plan shall identify periodic dates for such training.

- (f) Recordkeeping and Internal Reporting Procedures. A description of incidents such as spills or other discharges, along with other information describing the quality and quantity of storm water discharges, shall be included in the pollution prevention plan. Inspections and maintenance activities shall be documented, and records of such activities shall be incorporated into the plan.
- (g) Nonstorm Water Discharges
- i. The plan shall include a certification that the discharge has been tested or evaluated for the presence of nonstorm water discharges. The certification shall include the identification of potential significant sources of nonstorm water at the site, a description of the results of any test and/or evaluation for the presence of nonstorm water discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the onsite drainage points that were directly observed during the test. Certifications shall be signed in accordance with Part II.K. of this permit. Such certification may not be feasible if the facility operating the storm water discharge associated with industrial activity does not have access to an outfall, manhole, or other point of access to the ultimate conduit that receives the discharge. In such cases, the source identification section of the storm water pollution prevention plan shall include an explanation of why the certification required was not feasible, along with the identification of potential significant sources of nonstorm water at the site. A permittee that is unable to provide the certification required by this paragraph must notify the Department in accordance with section (g)iii. below.
 - ii. Except for flows from fire fighting activities, sources of nonstorm water listed in Part I.G.2.f. (Prohibition of Nonstorm Water Discharges) of this permit that are combined with storm water discharges associated with industrial activity must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the nonstorm water component(s) of the discharge.
 - iii. Any permittee that is unable to provide the certification required (testing for nonstorm water discharges) must notify the Department within 270 days after the effective date of this permit. If the failure to certify is caused by the inability to perform adequate tests or evaluations, such notification shall describe: the procedure of any test conducted for the presence of nonstorm water discharges; the results of such test or other relevant observations; potential sources of nonstorm water discharges to the storm sewer; and why adequate tests for such storm sewers were not feasible.
 - iv. If the facility discharges wastewater, other than storm water, the

VPDES permit authorizing the discharge must be referenced in the plan. Nonstorm water discharges to surface waters that are not authorized by a VPDES permit are unlawful and must be terminated.

- (h) Sediment and Erosion Control. The plan shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.
 - (i) Management of Runoff. The plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those which control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The plan shall provide for the implementation and maintenance of measures that the permittee determines to be reasonable and appropriate. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices and wet detention/retention devices; or other equivalent measures.
- (4) Comprehensive Site Compliance Evaluation. Qualified facility personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall conduct site compliance evaluations at appropriate intervals specified in the plan, but in no case less than once a year during the permit term. Such evaluations shall include the following.
- (a) Areas contributing to a storm water discharge associated with industrial activity, such as material storage, handling, and disposal activities, 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 storm water 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. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made.
 - (b) Based on the results of the evaluation, the description of potential pollutant sources identified in the plan in accordance with section d.(2) above and pollution prevention measures and controls identified in the

plan in accordance with section d.(3) above shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than 12 weeks after the evaluation.

- (c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with section (4)(b) above shall be made and retained as part of the storm water pollution prevention plan for at least 3 years from the date of the evaluation. The report shall identify any incidents of noncompliance. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with Part II.K. of this permit.
 - (d) Where compliance evaluation schedules overlap with inspections required under section d.(3)(d), the compliance evaluation may be conducted in place of one such inspection.
- e. Special Pollution Prevention Plan Requirements In addition to the minimum standards listed in section d. above and Part I.G.3. (Facility-Specific Storm Water Management Conditions) of this permit, the storm water pollution prevention plan shall include a complete discussion of measures taken to conform with the following applicable guidelines.
- (1) Additional Requirements for Storm Water Discharges Associated With Industrial Activity that Discharge Into or Through Municipal Separate Storm Sewer Systems Serving a Population of 100,000 or More.
 - (a) In addition to the applicable requirements of this permit, facilities covered by this permit must comply with applicable requirements in municipal storm water management programs developed under VPDES permits issued for the discharge of the municipal separate storm sewer system that receives the facility's discharge, provided the permittee has been notified of such conditions.
 - (b) Permittees that discharge storm water associated with industrial activity through a municipal separate storm sewer system serving a population of 100,000 or more or a municipal system designated by the Director shall make plans available to the municipal operator of the system upon request.
 - (2) Additional Requirements for Storm Water Discharges Associated With Industrial Activity From Facilities Subject to Emergency Planning and Community Right-to-Know Act (EPCRA) Section 313 Requirements. In addition to the requirements of sections d.(1) through d.(4) above, Part I.G.3. (Facility-Specific Storm Water Management Conditions) of this permit and

other applicable conditions of this permit, storm water pollution prevention plans for facilities subject to reporting requirements under EPCRA Section 313 prior to May 1, 1997, for chemicals which are classified as Section 313 water priority chemicals in accordance with the definition at the end of this section, except as provided in section e.(2)(b)iii. below, and where there is the potential for these chemicals to mix with storm water discharges, shall describe and ensure the implementation of practices which are necessary to provide for conformance with the following guidelines.

- (a) In areas where Section 313 water priority chemicals are stored, processed or otherwise handled, appropriate containment, drainage control and/or diversionary structures shall be provided unless otherwise exempted under section e.(2)(c) below. At a minimum, one of the following preventive systems or its equivalent shall be used:
 - i. Curbing, culverting, guttering, sewerage, or other forms of drainage control to prevent or minimize the potential for storm water runoff to come into contact with significant sources of pollutants; or
 - ii. Roofs, covers or other forms of appropriate protection to prevent storage piles from exposure to storm water and wind.

- (b) In addition to the minimum standards listed under section e.(2) above and except as otherwise exempted under section e.(2)(c) below, the storm water pollution prevention plan shall include a complete discussion of measures taken to conform with other effective storm water pollution prevention procedures and applicable state rules, regulations, and guidelines.
 - i. **Liquid Storage Areas Where Storm Water Comes Into Contact With Any Equipment, Tank, Container, or Other Vessel Used for Section 313 Water Priority Chemicals**
 - No tank or container shall be used for the storage of a Section 313 water priority chemical unless its material and construction are compatible with the material stored and conditions of storage, such as pressure, temperature, etc.
 - Liquid storage areas for Section 313 water priority chemicals shall be operated to minimize discharges of these chemicals. Appropriate measures to minimize discharges of Section 313 chemicals may include secondary containment provided for at least the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation, a strong spill contingency and integrity testing plan, and/or other equivalent measures.
 - ii. **Material Storage Areas for Section 313 Water Priority Chemicals Other Than Liquids.** Material storage areas for Section 313 water priority chemicals other than liquids which are subject to storm water runoff, leaching, or wind effects shall incorporate drainage or other control features which will minimize the discharge of Section 313 water priority chemicals by reducing storm water contact with

- those chemicals.
- iii. Truck and Rail Car Loading and Unloading Areas for Liquid Section 313 Water Priority Chemicals. Truck and rail car loading and unloading areas for liquid Section 313 water priority chemicals shall be operated to minimize discharges of those chemicals. Protection such as overhangs or door skirts to enclose trailer ends at truck loading/unloading docks shall be provided as appropriate. Appropriate measures to minimize discharges of Section 313 chemicals may include: the placement and maintenance of drip pans (including the proper disposal of materials collected in the drip pans) where spillage may occur (such as hose connections, hose reels and filler nozzles) when making and breaking hose connections; a strong spill contingency and integrity testing plan; and/or other equivalent measures.
- iv. Areas Where Section 313 Water Priority Chemicals Are Transferred, Processed, or Otherwise Handled. Processing equipment and materials handling equipment shall be operated so as to minimize discharges of Section 313 water priority chemicals. Materials used in piping and equipment shall be compatible with the substances handled. Drainage from process and materials handling areas shall minimize storm water contact with Section 313 water priority chemicals. Additional protection, such as covers or guards to prevent exposure to wind effects or spraying or releases from pressure relief vents from causing a discharge of Section 313 water priority chemicals to the drainage system, shall be provided as appropriate. Visual inspections or leak tests shall be provided for overhead piping conveying Section 313 water priority chemicals without secondary containment.
- v. Discharges From Areas Covered by Paragraphs i., ii., iii., or iv.
- Drainage from areas covered by paragraphs i., ii., iii., or iv. of this section should be restrained by valves or other positive means to prevent the discharge of a spill or other excessive leakage of Section 313 water priority chemicals. Where containment units are employed, such units may be emptied by pumps or ejectors; however, these shall be manually activated.
 - Flapper-type drain valves shall not be used to drain containment areas. Valves used for the drainage of containment areas should, as far as is practical, be of manual, open-and-closed design.
 - If facility drainage is not engineered as above, the final discharge of all in-facility storm sewers shall be equipped to be equivalent with a diversion system that could, in the event of an uncontrolled spill of Section 313 water priority chemicals, return the spilled material to the facility.
 - Records shall be kept of the frequency and estimated volume (in gallons) of discharges from containment areas.

- vi. Facility Site Runoff Other Than From Areas Covered By i., ii., iii., or iv. Other areas of the facility (those not addressed in paragraphs i., ii., iii., or iv.), from which runoff which may contain Section 313 water priority chemicals or spills of Section 313 water priority chemicals could cause a discharge, shall incorporate the necessary drainage or other control features to prevent discharge of spilled or improperly disposed material and ensure the mitigation of pollutants in storm water runoff or leachate.
- vii. Preventive Maintenance and Housekeeping. All areas of the facility shall be inspected at specific intervals identified in the plan for leaks or conditions that could lead to discharges of Section 313 water priority chemicals or for direct contact of storm water with raw materials, intermediate materials, waste materials or products. In particular, facility piping, pumps, storage tanks and bins, pressure vessels, process and material handling equipment, and material bulk storage areas shall be examined for any conditions or failures which could cause a discharge. Inspection shall include examination for leaks, corrosion, support or foundation failure, effects of wind blowing, or other forms of deterioration or noncontainment. Inspection intervals shall be specified in the plan and shall be based on design and operational experience. Different areas may require different inspection intervals. Where a leak or other condition is discovered which may result in significant releases of Section 313 water priority chemicals to waters of the State, action to stop the leak or otherwise prevent the significant release of Section 313 water priority chemicals to waters of the State shall be immediately taken or the unit or process shut down until such action can be taken. When a leak or noncontainment of a Section 313 water priority chemical has occurred, contaminated soil, debris, or other material must be promptly removed and disposed in accordance with Federal, State, and local requirements and as described in the plan.
- viii. Facility Security. Facilities shall have the necessary security systems to prevent accidental or intentional entry which could cause a discharge. Security systems described in the plan shall address fencing, lighting, vehicular traffic control, and securing of equipment and buildings.
- ix. Training. Facility employees and contractor personnel that work in areas where Section 313 water priority chemicals are used or stored shall be trained in and informed of preventive measures at the facility. Employee training shall be conducted at intervals specified in the plan, but not less than once per year, in matters of pollution control laws and regulations and in the storm water pollution prevention plan and the particular features of the facility and its operation which are designed to minimize discharges of Section 313 water priority chemicals. The plan shall designate a person who is accountable for spill prevention at the facility and who will set up the necessary spill emergency procedures and reporting

requirements so that spills and emergency releases of Section 313 water priority chemicals can be isolated and contained before a discharge of those chemicals can occur. Contractor or temporary personnel shall be informed of facility operation and design features in order to prevent discharges or spills from occurring.

- (c) Facilities subject to reporting requirements under EPCRA Section 313 for chemicals that are classified as Section 313 water priority chemicals in accordance with the definition at the end of this section which are handled and stored onsite only in gaseous or nonsoluble liquid or solid (at atmospheric pressure and temperature) forms may provide a certification as such in the pollution prevention plan in lieu of the additional requirements in section e.(2) above. Such certification shall include a narrative description of all water priority chemicals and the form in which they are handled and stored and shall be signed in accordance with Part II.K. of this permit.
 - (d) The storm water pollution prevention plan shall be certified in accordance with Part II.K. of this permit.
- (3) Requirements for Salt Storage. Storage piles of salt used for deicing or other commercial or industrial purposes and which generate a storm water discharge associated with industrial activity which is discharged to surface waters of the State shall be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile. Piles do not need to be enclosed or covered where storm water from the pile is not discharged to surface waters of the State.

“Section 313 Water Priority Chemicals” means a chemical or chemical categories which: 1) are listed at 40 CFR Part 372.65 (1998) pursuant to Section 313 of the Emergency Planning and Community Right-to-Know act (EPCRA) (also known as Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986) (42 USC 11001 et seq.); 2) are present at or above threshold levels at a facility subject to EPCRA Section 313 reporting requirements; and 3) that meet at least one of the following criteria: (i) are listed in Appendix D of 40 CFR Part 122 (1998) in either Table II (organic priority pollutants), Table III (certain metals, cyanides and phenols) or Table V (certain toxic pollutants and hazardous substances); (ii) are listed as a hazardous substance pursuant to section 311(b)(2)(A) of the Clean Water Act at 40 CFR Part 116.4 (1998); or (iii) are pollutants for which EPA has published acute or chronic water quality criteria.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING
ATTACHMENT A

FACILITY NAME: Virginia Power – North Anna Nuclear power Station
ADDRESS: 5000 Dominion Blvd
Glen Allen, VA 23060
PERMIT NO.: VA0052451

Outfall 001:

DEQ PARAM #	EPA PARAM #	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY ⁽³⁾	SPECIFIC TARGET VALUE ⁽⁴⁾
DISSOLVED METALS								
442	01040	Copper	(5)	(5)		G	1/5 YR	0.5
445	01065	Nickel	(5)	(5)		G	1/5 YR	0.5

Name of Principal Exec. Officer or Authorized Agent/Title

Signature of Principal Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Footnotes to Water Quality Monitoring Attachment A

- (1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

- (2) Sample Type

G = Grab = An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

- (3) Frequency: 1/5 YR = once after the start of the third year from the permit's effective date

- (4) Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The specific target values are subject to change based on additional information such as hardness data, receiving stream flow and design flows.

- (5) A specific analytical method is not specified. An appropriate method shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136) which will achieve a quantification level that is less than the indicated specific target value for each metal. If the test result is less than the specified specific target value, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

<u>Metal</u>	<u>Analytical Methods</u>
Copper	220.1; 200.7; 220.2; 200.9; 1638; 1640; 200.8
Nickel	249.1; 200.7; 249.2; 1639; 200.9; 1638; 200.8; 1640

Appendix A - 126 Priority Pollutants

001	Acenaphthene	076	Chrysene
002	Acrolein	077	Acenaphthylene
	Acrylonitrile	078	Anthracene
	Benzene	079	1,12-benzoperylene (benzo(ghi) perylene)
003	Benzidine	080	Fluorene
006	Carbon Tetrachloride (tetrachloromethane)	081	Phenanthrene
007	Chlorobenzene	082	1,2,5,6-dibenzanthracene (dibenzo(h) anthracene)
008	1,2,4-trichlorobenzene	083	Indeno (1,2,3-cd) pyrene (2,3-o-pheynylene pyrene)
009	Hexachlorobenzene	084	Pyrene
010	1,2-dichloroethane	085	Tetrachloroethylene
011	1,1,1-trichloroethane	086	Toluene
012	Hexachloroethane	087	Trichloroethylene
013	1,1-dichloethane	088	Vinyl chloride (chloroethylene)
014	1,1,2-trichloroethane	089	Aldrin
015	1,1,2,2-tetrachloroethane	090	Dieldrin
016	Chloroethane	091	Chlordane (technical mixture and metabolites)
018	Bis(2-chloroethyl) ether	092	4,4-DDT
019	2-chloroethyl vinyl ether (mixed)	093	4,4-DDE (p,p-DDX)
020	2-chloronaphthalene	094	4,4-DDD (p,p-TDE)
021	2,4,6-trichlorophenol	095	Alpha-endosulfan
022	Parachlorometa cresol	096	Beta-endosulfan
023	Chloroform (trichloromethane)	097	Endosulfan sulfate
024	2-chlorophenol	098	Endrin
025	1,2-dichlorobenzene	099	Endrin aldehyde
026	1,3-dichlorobenzene	100	Heptachlor
027	1,4-dichlorobenzene	101	Heptachlor epoxide (BHC-hexachlorocyclohexane)
028	3,3-dichlorobenzidine	102	Alpha-BHC
029	1,1-dichloroethylene	103	Beta-BHC
030	1,2-trans-dichloroethylene	104	Gamma-BHC (lindane)
031	2,4-dichlorophenol	105	Delta-BHC (PCB-polychlorinated biphenyls)
032	1,2-dichloropropane	106	PCB-1242 (Arochlor 1242)
033	1,2-dichloropropylene (1,3-dichloropropene)	107	PCB-1254 (Arochlor 1254)
034	2,4-dimethylphenol	108	PCB-1221 (Arochlor 1221)
035	2,4-dinitrotoluene	109	PCB-1232 (Arochlor 1232)
036	2,6-dinitrotoluene	110	PCB-1248 (Arochlor 1248)
	1,2-diphenylhydrazine	111	PCB-1260 (Arochlor 1260)
	Ethylbenzene	112	PCB-1016 (Arochlor 1016)
039	Fluoranthene	113	Toxaphene
040	4-chlorophenyl phenyl ether	114	Antimony
041	4-bromophenyl phenyl ether	115	Arsenic
042	Bis(2-chloroisopropyl) ether	116	Asbestos
043	Bis(2-chloroethoxy) methane	117	Beryllium
044	Methylene chloride (dichloromethane)	118	Cadmium
045	Methyl chloride (dichloromethane)	119	Chromium
046	Methyl bromide (bromomethane)	120	Copper
047	Bromoform (tribromomethane)	121	Cyanide, Total
048	Dichlorobromomethane	122	Lead
051	Chlorodibromomethane	123	Mercury
052	Hexachlorobutadiene	124	Nickel
053	Hexachloromyclopentadiene	125	Selenium
054	Isophorone	126	Silver
055	Naphthalene	127	Thallium
056	Nitrobenzene	128	Zinc
057	2-nitrophenol	129	2,3,7,8-tetrachloro-dibenzo-p-dioxin (TCDD)
058	4-nitrophenol		
059	2,4-dinitrophenol		
060	4,6-dinitro-o-cresol		
061	N-nitrosodimethylamine		
062	N-nitrosodiphenylamine		
063	N-nitrosodi-n-propylamin		
064	Pentachlorophenol		
065	Phenol		
066	Bis(2-ethylhexyl) phthalate		
067	Butyl benzyl phthalate		
068	Di-N-Butyl Phthalate		
069	Di-n-octyl phthalate		
070	Diethyl Phthalate		
071	Dimethyl phthalate		
072	1,2-benzanthracene (benzo(a) anthracene)		
	Benzo(a)pyrene (3,4-benzo-pyrene)		
	3,4-Benzofluoranthene (benzo(b) fluoranthene)		
075	11,12-benzofluoranthene (benzo(b) fluoranthene)		

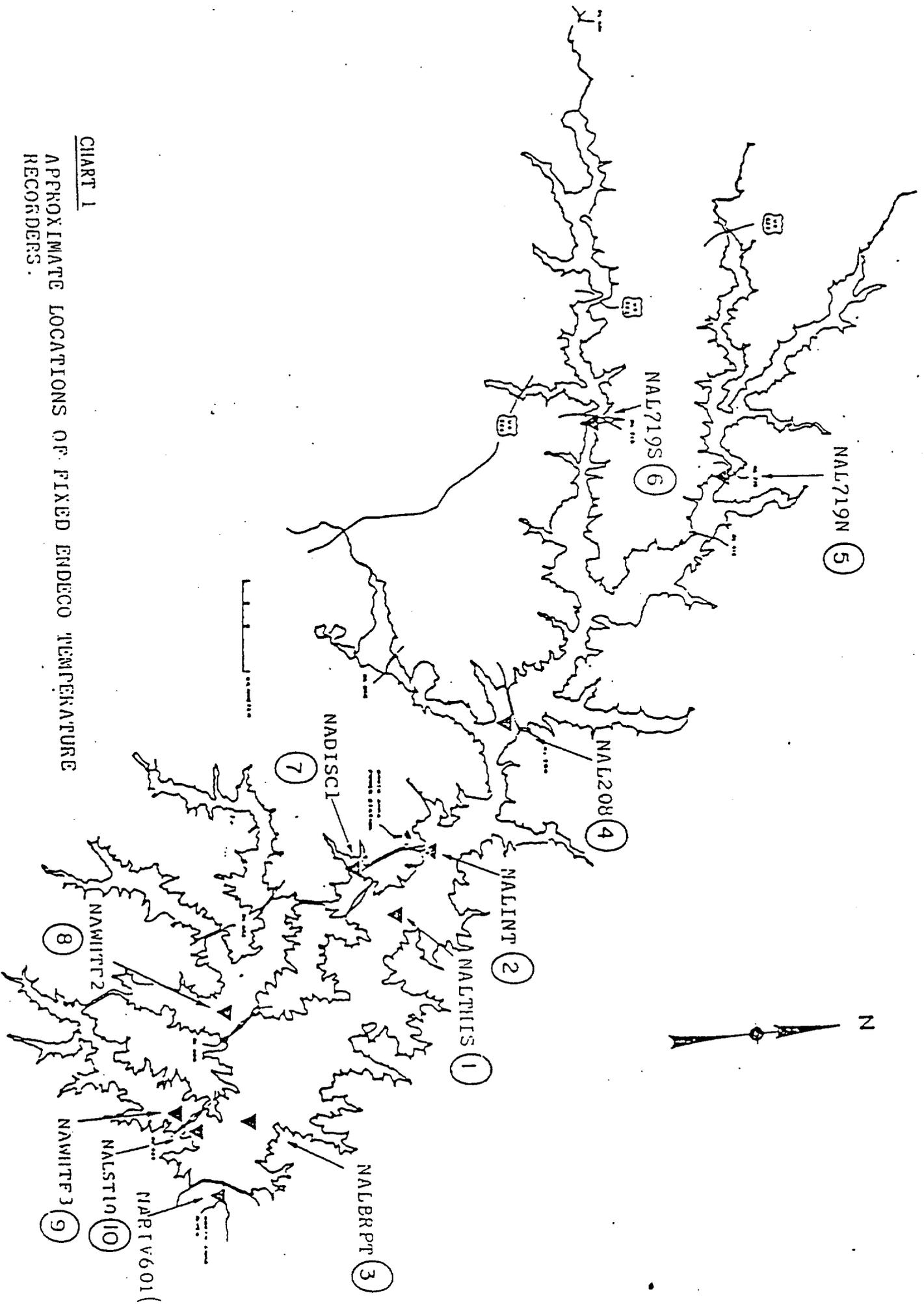


CHART 1
 APPROXIMATE LOCATIONS OF FIXED ENDECO TEMPERATURE
 RECORDERS.

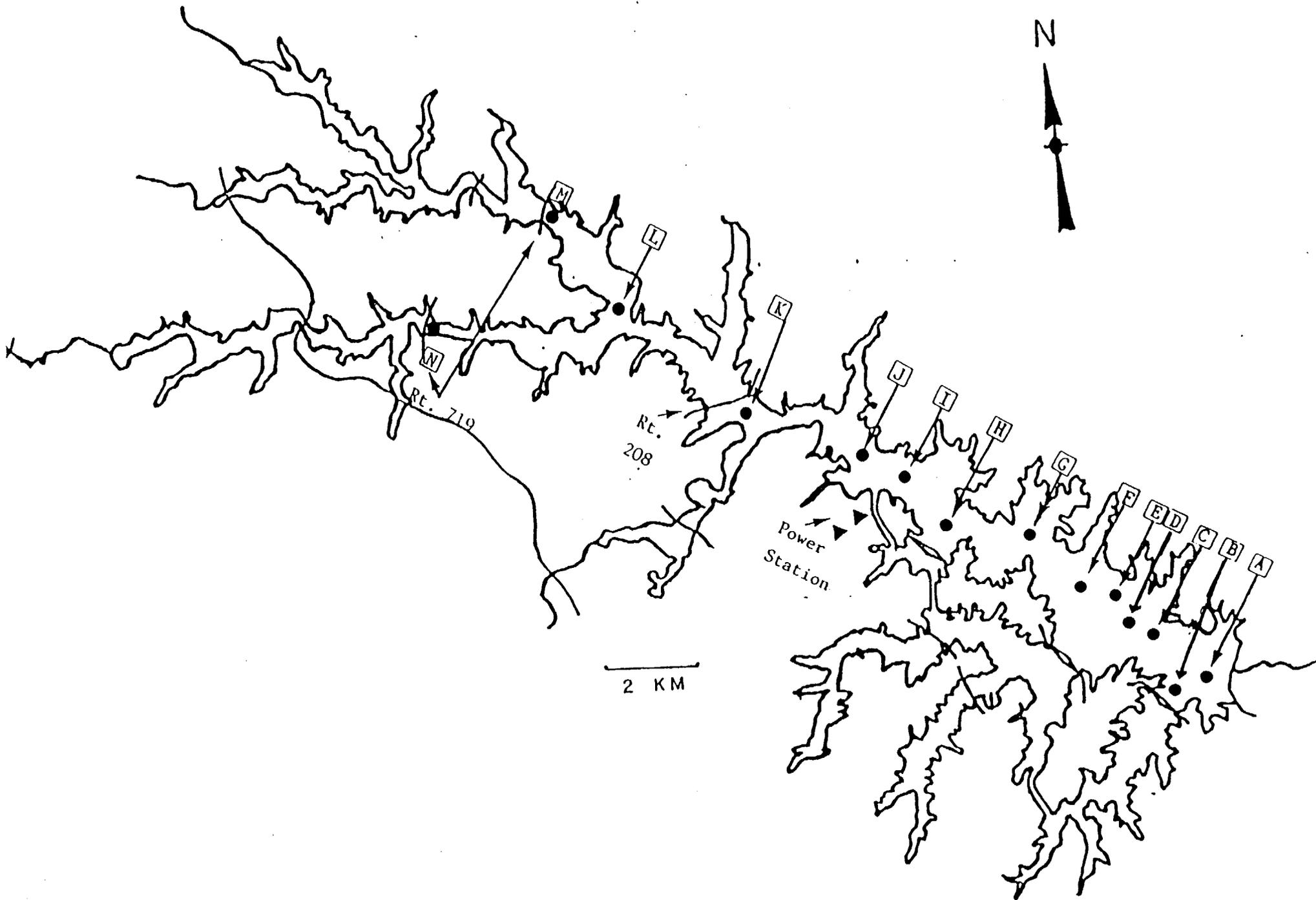


CHART 2
LOCATION OF THERMAL PLUME SAMPLING STATIONS

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

Department of Environmental Quality
Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg, Virginia 22801

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.
4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of State waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into State waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

- (1) After promulgation of standards of performance under Section 306 of the Clean Water Act which are applicable to such source; or
 - (2) After proposal of standards of performance in accordance with Section 306 of the Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures; or
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, State, Federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II.K.1.;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - c. The written authorization is submitted to the Department.
3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
4. Certification. Any person signing a document under Parts II.K.1. or 2. shall make the following certification:

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

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

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 invasion of personal rights, or any infringement of Federal, State or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other State law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering State waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2. and U.3.
2. Notice
 - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
 - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.
3. Prohibition of bypass
 - a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

- (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Part II.U.2.
- b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II.I.; and
 - d. The permittee complied with any remedial measures required under Part II.S.
3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of Permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.
2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
 - b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

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