



VIRGINIA POWER

June 17, 1994

U. S. Environmental Protection Agency, Region III  
Oil and Title III Section (3HW34)  
303 Methodist Building  
11th & Chapline Streets  
Wheeling, WV 26003

RE: **NORTH ANNA POWER STATION, OIL RESPONSE QUESTIONNAIRE  
VA94326; MAY 1, 1994; LOUISA COUNTY, MINERAL, VA  
VIRGINIA DEQ PC #94-3691**

Dear Sirs:

Attached is the completed oil response questionnaire in reference to the oil discharge event at North Anna Power Station reported on May 1, 1994. Please note that, in our subsequent investigations, it was determined that the quantity of hydraulic oil involved in this event, and the quantity which reached the water in the North Anna River, were both much smaller than estimated in our initial reports.

Should you desire additional information or have any questions in this matter, please contact Daniel James at (804) 273-2996.

Sincerely,

B. M. Marshall, P.E.  
Manager  
Water Quality

Attachment

cc: (w/attachment)  
Water Division  
Department of Environmental Quality  
P.O. Box 11143  
Richmond, VA 23230-1143

210054

9406220387 940617  
PDR ADDCK 05000338  
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U. S. Environmental Protection Agency  
June 17, 1994  
Page 2

cc: (w/attachment)  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta St., NW  
Suite 2900  
Atlanta, GA 30323  
RE: North Anna Units 1 & 2  
Docket Nos. 50-338/50-339  
License Nos. NPF-4/NPF-7

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555  
RE: North Anna Units 1 & 2  
Docket Nos. 50-338/50-339  
License Nos. NPF-4/NPF-7

Mr. R. D. McWhorter  
NRC Senior Resident Inspector  
North Anna Power Station



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III

841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
Paula Curtin

Virginia Power  
Attn: Carter Cooke  
POB 402  
North Anna Power Station  
Mineral, VA 23117

Oil Response

Direct Dial (304) 234-0256

Mail Code 3H-W34

MAY 17 1994

RE: VA94326

May 1, 1994

Louisa Cnty, Mineral VA

Dear Sir or Madam:

This office has received notification that you<sup>1</sup> discharged oil or hazardous substances in quantities that may be harmful, in violation of Section 311(b)(3) of the Federal Water Pollution Control Act, 33 U.S.C. § 1321(b)(3), from a facility as referenced above. Accordingly, the Environmental Protection Agency (EPA) would like to obtain additional information regarding this alleged incident.

Pursuant to Section 308(a) of the Act, 33 U.S.C. § 1318(a), you are hereby required to submit to EPA the information requested in this letter. If you fail to properly respond to this request, you may be subject to the following penalties. Pursuant to Section 309(g) of the Act, 33 U.S.C. § 1319(g), any person who violates Section 308 of the Act is subject to administrative penalties. Pursuant to Section 309(d) of the Act, 33 U.S.C. § 1319(d), any person who violates Section 308 of the Act is subject to a civil penalty of up to \$25,000 per day of violation. In addition, pursuant to Section 309(c)(1) of the Act, 33 U.S.C. § 1319(c)(1), any person who negligently violates Section 308 of the Act may be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or by both. Further, pursuant to Section 309(c)(2) of the Act, 33 U.S.C. § 1319(c)(2), any person who knowingly violates Section 308 of the Act may be punished by a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than 3 years, or by both.

1. Description of the vehicle or facility from which oil was discharged (i.e., pipeline, tank, well, etc.). If oil was

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<sup>1</sup> For purposes of this letter, the term "you" shall refer to either an individual, a company, a partnership, a sole proprietorship, or a corporation, whichever is applicable.

discharged from more than one source, please identify each source.

Hydraulic line to hydro electric unit

2. Type-of oil(s) discharged.

Hydraulic oil

3. Quantity of oil discharged from the facility or vehicle.

An estimated less than one quart was lost from the hydraulic oil reservoir. A much smaller quantity was discharged.

4. Time and date of discharge.

0920, May 1, 1994

5. Location of the discharge, including county and state.

Below Lake Anna main dam, Louisa County, Virginia

6. Did the oil enter into any water?  
(YES or NO) Yes

Did the oil enter into any sewer?  
(YES or NO) No

(a) If YES, describe the first water reached and the location of this water.

North Anna River below Lake Anna

(b) State the quantity of oil entering the water described above in 6(a).

Trace amounts to an estimated less than one pint. Note - all amounts were determined to be much less than initially reported

(c) State the quantity of oil reaching the shoreline of the water described above in 6(a) which did not enter the water.

None. Oil leaked onto concrete platform above river and a small or trace amount was washed into the river by rain.

(d) Was the water described above in 6(a), at the time of the spill, a tributary of, or physically connected to a

navigable waterway.

(YES or NO) Yes

(e) If the answer to 6(d) is YES, describe or name the waterways to which the waters in 6(a) connect or flow.

North Anna River -- Pamunky River -- York River -- Chesapeake Bay

(f) If the answer to 6(d) is NO, does the water described above in 6(a) periodically connect with or flow into any hydrological or creek system? If YES, describe the flow and connection.

N/A

7(a). Did you observe the oil cause a film, sheen, discoloration or iridescent appearance on the adjoining shorelines of, or surface of, any water described above in 6(a), (e), or (f)? If YES, describe:

No

7(b). To your knowledge, did any other person observe the oil cause a film, sheen, discoloration or iridescent appearance on the adjoining shorelines of, or surface of, any water described above in 6(a), (e), or (f)? If YES, describe:

Yes, the dam operator observed a small oil sheen in the calm water behind the hydro platform

8(a). Did you observe the oil cause any sludge or emulsion to be deposited on the adjoining shorelines of, or beneath the surface of, the waters described above in 6(a), (e), or (f)? If YES, describe:

No

8(b). To your knowledge, did any other person observe the oil cause a film, sheen, discoloration or iridescent appearance on the adjoining shorelines of, or surface of, any water described above in 6(a), (e), or (f)? If YES, describe:

No

9. Describe any observed damage to animal life or vegetation.

None

10. Time and date of discovery that the discharge was entering the waterways.

0920, May 1, 1994

11. List the federal and state agencies, if any, to which the owner or operator reported the discharge. Show the agency, its location, the date and time of notification and the official contacted.

<u>AGENCY</u>	<u>DATE</u>	<u>PERSON(S) MAKING REPORT</u>
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<u>National Response Ctr.,</u>	<u>5/1/94, 1035 a.m.,</u>	<u>A. Carter Cooke</u>
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<u>Va. Dept. Emergency Svcs.,</u>	<u>5/1/94, 1040 a.m.,</u>	<u>A. Carter Cooke (PC #94-3691)</u>
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12. Describe steps taken to contain and clean up the spilled oil and mitigate environmental damage.

The leak was stopped, the oil contained and cleaned off the platform.

The small sheen dissipated in the turbulent water below the dam before it could be cleaned up

13. List the state and local officials who were on-scene at the spill during or after clean up.

None

14. Describe in detail what actually caused the discharge.

The oil leaked around a worn o-ring in the inlet valve key lock switch on the hydraulic line to the hydro electric unit

15. Describe action taken or proposed to prevent a recurrence of this type of spill.

The switch was replaced, all hoses have been replaced. Evaluating the following options: 1) completely enclosing the structure; 2) enclosing only the hydraulic cylinders; 3) replace actuators with totally enclosed power units, air actuators or three phase MOV's

16. List the names and addresses of persons believed to have knowledge of the facts surrounding this incident.

Mr. J. A. Stall -- North Anna Power Station

17. Name and address of the owner of the vehicle or facility described above in (1).

Virginia Power, Attn: B. M. Marshall, Manager - Water Quality

5000 Dominion Blvd., Glen Allen, VA 23060

18. Name and address of the operator of the vehicle or facility described above in (1) and, if different from (17) above, describe the relationship between the owner and operator (i.e., employee, subcontractor, lessee, etc.).

Same as 17 above

19. Does the facility have a National Pollutant Discharge Elimination System (NPDES) Permit or permit application? (YES or NO) Yes

If YES, state the Permit number or when the application was filed: VA0052451

20. Please specify which any applicable water quality standards, (e.g., NPDES) which the discharge may have violated.

None

21. Does the facility currently have a Resource Conservation and Recovery Act (RCRA) Permit or is the facility under Interim Status?

No

22. Does the facility have a Spill Prevention Control and Countermeasure (SPCC) Plan certified and implemented in accordance with 40 C.F.R. Part 112?

YES or NO: Yes

23. Does the facility have a Facility Response Plan (FRP) prepared in accordance with 40 C.F.R. Part 112 (Proposed Rule of February 17, 1993)?

YES or NO: No



24. List the type of oil and total storage capacities at the facility for any oil related products. Describe the storage tanks at the facility, (e.g., above ground, underground, etc.).

Attached

25. List any other information you wish to bring to the attention of the federal government.

Please certify the above information in the following manner:

I hereby certify the above to be true and accurate to the best of my knowledge.

Signature:

Michael F. Kelleher for B. M. MARSHALL  
MGR. WATER QUALITY

Name (Please print or type):

B. M. Marshall

Title:

Manager - Water Quality

Telephone Number:

(804) 273-2990

Your response should be mailed to:

U.S. ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
OIL AND TITLE III SECTION (3HW34)  
303 METHODIST BUILDING  
11TH & CHAPLINE STREETS  
WHEELING, WEST VIRGINIA 26003

This information request is not subject to review by the Director of OMB pursuant to the requirements of the Paperwork Reduction Act, 44 U.S.C. § 3507.

If you cannot answer this letter by JUN 07 1994, or if there are any questions on this matter, you may call Paula Curtin at (304) 234-0256.

Sincerely,



Thomas C. Voltaggio, Director  
Hazardous Waste Management Division



6.2 Oil Storage and Handling Facilities (continued)

6.2.1 North Anna Power Station (continued)

Table 6-2  
Stationary Oil Storage Capacities

	Gallons
<b>Number 2 Fuel Oil/Diesel Fuel/Gasoline Tanks</b>	
Emergency Diesel Generators/Auxiliary Boilers(EDG/AB)	
5,000 bbl aboveground storage .....	210,000
Underground storage (2 @ 50,000 ea.) .....	100,000
Auxiliary (4 @ 1,000 gallons ea.) .....	4,000
Fire Protection EDG diesel	
Service Water Pumphouse .....	250
Warehouse No. 5 Pumphouse .....	270
Maintenance Garage diesel for vehicles and machinery .....	10,000
Security EDG diesel underground .....	500
Lake Anna Dam EDG diesel aboveground (2 @ 275) .....	550
Kerosene .....	550
Unleaded gasoline for vehicles and machinery	
Maintenance Garage underground .....	10,000
Motor Pool underground .....	10,000
TOTAL .....	346,120
<b>Lubricating Oil Tanks</b>	
Turbine-Generator	
Storage tanks (2 @ 16,000) .....	32,000
Reservoirs (2 @ 14,000) .....	28,000
Conditioner tanks (2 @ 2,000) .....	4,000
Electrohydraulic reservoirs (2 @ 200) .....	400
Maintenance Garage tanks (4 @ 500 & 2 @ 250) .....	1,500
Lake Anna Hydro Turbine Facility (2 @ 20) .....	40
TOTAL .....	65,940
<b>Waste Oil Tanks</b>	
Oil Separator underground .....	5,800
Oil Storage Building aboveground .....	1,500
<del>Maintenance Garage underground</del> .....	<del>550</del>
TOTAL .....	<del>7,850</del>
	7,300
<b>Drummed Oil</b>	
Warehouse 5 - level D storage (approx. 250 drums) .....	13,750
Oil Storage Building (approx. 50 drums) .....	2,750
Oil Storage Room - Turbine Building (approx. 8 drums) .....	440
Contaminated oil - Shed adjacent to Clarifier Bldg (approx. 20 drums) .....	1,100
TOTAL .....	18,040
<b>Electric Equipment—Non-PCB Mineral Oil</b>	
Main and Station Service Transformers (Table 6-1) .....	125,310
TOTAL .....	<del>563,260</del>
	562,710