Innsbrook Technical Center 5000 Dominical Boulevard Glen Allen, Virginia 23050



November 5, 1993

Mr. Kemper Loyd Valley Regional Office Department of Environmental Quality 116 North Main Street P. O. Box 268 Bridgewater, VA 22812

RE: NORTH ANNA POWER STATION - VPDES PERMIT NO. VA0052451 UNUSUAL DISCHARGE

Dear Mr. Loyd:

As Mr. Daniel James of my staff discussed with Bill Kregloe by telephone on November 2, 1993, the North Anna Power Station experienced an unusual discharge of chromate to the clarifier from a leak in the component cooling system. The clarifier discharges to the circulating water tunnel via Outfall 003.

On the late afternoon (1745) of Monday, November 1, 1993 Operations personnel discovered a leak in the closed component cooling system. This leak was determined to be sending 160 gallons per day through the clarifier discharge point (Outfall 003). This discharge was immediately shut down and the system repaired. It was calculated that approximately 0.7 lbs. of chromate (Cr04) had been released per day. The release had been occurring for several days but it is impossible to determine exactly how long because, during the recently completed unit refueling, parts of the component cooling system were drained into tanks to allow work on various systems. It was not until the unit was back on line and the component cooling system stabilized that the leak was evident and it was then traced to a steam generator blowdown vent condenser. During the time of the release, the clarifier was also discharging water from other sources which would have given a clarifier discharge chromate (Cr04) level of from 0.37 to 0.54 parts per million.

Normally, any leaks from the component cooling system are routed through ion exchange treatment to remove chromate prior to discharge to the clarifier. Immediately upon discovering the leak, the leaking equipment was isolated to prevent further discharge of chromate to the clarifier and the necessary repairs were made. The systems were returned to normal operation by the morning of November 2.

9311090198 931105 PDR ADOCK 05000338 S PDR Mr. Kemper Loyd November 5, 1993
Page 2

No other contaminants were involved and no violations of any permit limitations occurred. Site visual inspections revealed no evidence of environmental damage in the station's discharge canal or the waste heat treatment facility. The chromate present in the water discharged would not be expected to be detectable in the discharge canal or the waste heat treatment facility, and would have no impact on water quality in the canal, the waste heat treatment facility, or at the station's discharge to state waters.

This event was due to an unforeseeable failure of equipment. The appropriate actions were taken to cease the unusual discharge and to make the necessary repairs. No further corrective actions are needed.

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

Sincerely,

Charsty

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

cc: 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