



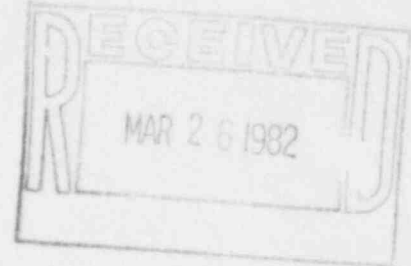
ARKANSAS POWER & LIGHT COMPANY
FIRST NATIONAL BUILDING/P.O. BOX 551/LITTLE ROCK, ARKANSAS 72203/(501) 371-4422

March 19, 1982

WILLIAM CAVANAUGH, III
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Mr. W. C. Seidle, Chief
Reactor Project Branch #2
U.S. Nuclear Regulatory Commission
Region IV
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Subject: Arkansas Nuclear One - Units 1 & 2
Docket Nos. 50-313 and 50-368
License Nos. DPR-51 and NPF-6
Status Update on Waste Gas System Modifications
in Response to Inspection Report 80-20
(File: 0232; 2-0232)

Gentlemen:

In a letter dated April 16, 1981, (GR-0481-12) AP&L provided a list of proposed modifications to ANO-1 and ANO-2 concerning the Gaseous Radioactive Waste system. That submittal was intended to document information presented in an April 7, 1981, meeting between AP&L and members of your staff. The purpose of this letter is to update the NRC of our progress on the specific work items listed in the April 16, 1981, letter. We feel our progress has been substantial and wish to document that at this time.

Of the Design Change Packages (DCP's) listed for ANO-1 nine (9) have been completed. These DCPs are listed in the order mentioned on our previous submittal. DCP 79-1081 involved adding throttling capability to control the high pressure gases going to the Waste Gas Surge Tank. This DCP, as mentioned in the April 16, 1981, letter involved a two-phase upgrade approach. The first phase, manual throttling of the gases, has been completed. AP&L is still investigating the economic feasibility of the second phase, automatic pressure control, to replace the manual system currently installed. We feel the installation of the manual system has adequately addressed the overpressure transients on the Waste Gas Surge Tank and we will upgrade further based on economics and operational flexibility. DCP 79-1034 involved relocating the Gaseous Waste Discharge Filter to a higher elevation to eliminate it as a low spot in the system has been completed. DCP 79-1036 concerned replacement of a large amount of carbon steel piping with stainless steel and rerouting to minimize low

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spots has been installed. DCP 79-1066 replacing troublesome diaphragm valves in the Gaseous Waste System with packless, globe valves has been completed. DCP 80-1018 involving rerouting the vent on the Makeup Tank and change to ensure slight nitrogen overpressure on the Waste Gas Surge Tank has been completed. DCP 80-1016 concerning heat tracing of the Vacuum Degasifier level instrument reference leg and changes to the piping/turbine to eliminate vacuum leakage at fittings has been completed. DCP 79-1083 concerning the addition of a pressure reducing valve and flow indicator to control sample flow from the Makeup Tank gas space has been completed. DCP 80-1145 adding dedicated exhaust fans in the sample area fume hoods to ensure positive ventilation has been installed. DCP 79-1077 concerned installing local and remote (control room) indication and high level alarm for water level in the Waste Gas Surge Tank has been completed.

DCP 80-1019 which included the replacement of a leaking relief valve on the Waste Gas Surge Tank has not been completed due to the time required for a new valve specification to be written and the long lead time involved for valve procurement. This replacement valve will be ordered by March 31, 1982, and will take approximately 60 weeks to be delivered. The present system design has a rupture disk installed upstream of the existing relief valve which ensures leakage does not occur unless a pressure spike breaks the rupture disk. The replacement relief valve can be installed with the unit in operation and our plans are to do so as time permits upon receipt of the components. The rest of the work on this DCP has been completed.

DCP 79-1082 concerning extensive rework and replacement of the vacuum degasifier system has been done. However, numerous start-up testing difficulties have precluded AP&L from putting the system back in operation. Our current schedule is to have this system operational before the upcoming ANO-1 maintenance outage currently scheduled to begin March 26, 1982. Further start-up problems could conceivably prevent us from achieving our goal, but every effort will be made to overcome such problems.

DCPs 79-1035, 80-1182 and 80-1183 concerning gas collection header and equipment drain header rerouting and some material replacement have not been completed at this time. Sections of these DCPs will be worked prior to the ANO-1 maintenance outage. The completion of these design change packages will be done as plant conditions allow after the upcoming ANO-1 maintenance outage.

Under the heading "Other Items Considered", DCP 81-1034, concerning additional fan capacity to ensure a negative pressure in the gas collection header, was mentioned as a potential modification. This modification is still under review and final resolution is scheduled for June, 1982. Some of the above design changes had to be installed and conditions monitored before the need for this DCP could be assessed.

Of the Design Change Packages listed for ANO-2 four (4) have been completed. DCP 80-2088 provided for the installation of a trap type drain at the low point of the Containment Vent Header has been installed.

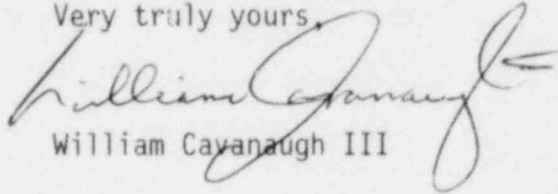
March 19, 1982

DCP 80-2137 concerned control circuitry modifications to allow automatic Vacuum Degasifier starting on either 2 gpm flow or 5 psig pressure rather than requiring both has been completed. DCP 80-2157 adding an interlock to prevent the gaseous waste discharge valve from opening unless the radwaste exhaust fans are operating has been completed. DCP 80-2047 involved replacing the N₂ pressure control valve on the Waste Gas Surge Tank to allow finer control has been installed.

DCP 80-2077 has not been completed at this time. However, this DCP is approximately 95% complete and the remaining installation of backwater valves in the floor drains involves work in a high radiation area and will be completed as soon as an outage of sufficient duration occurs which will permit area access for work completion.

As previously stated we believe we have made significant progress toward correcting the problems experienced with the ANO Waste Gas System. We trust the above will adequately update you as to the status of our efforts in this area.

Very truly yours,



William Cavanaugh III

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