



ARKANSAS POWER & LIGHT COMPANY

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October 18, 1978

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Director of Nuclear Reactor Regulation
ATTN: Mr. J. F. Stolz, Chief
Light Water Reactors Branch #1
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Arkansas Nuclear One-Unit 2
Docket No. 50-368
License No. NPF-6
Fire Protection Commitments
(File: 2-1510, 2-2040)

Gentlemen:

As requested, telecon between your Mr. Engle and our Mr. Grant, attached are additional photographs of the ANO-2 Reactor Coolant Pump Oil Collection System. This information is provided as supplemental information to our letter of September 1, 1978 on the above subject. Our explanation of the attached photographs is as follows.

- Print 1 - The lower oil collection pan (A) collects oil drained from the lower pump bearings through the lower oil drain (Y). The oil drain line (Z) carries the oil collected in the pan to the sump tank as shown of drawing M-2233 which we submitted in our letter of September 1, 1978. This part of the collection system is used primarily to drain oil from the pump to perform maintenance.
- Print 2 - This is another view of the lower oil collection pan (A) and the oil drain line (Z).
- Print 3 - The upper oil pan (B) collects any leakage from the upper bearing bracket vent (C). Also shown in this photograph is the oil strainer (D) and the upper oil cooler (E).
- Print 4 - The upper oil drain (K) and the lift pump drain (M) both drain to the upper oil pan (B). In addition any leakage or spillage from the oil fill line (I), upper oil filler (H), or the upper reservoir oil level transmitter (J) would, by gravity flow, collect in the upper oil pan. Also shown are the upper bearing oil gauge (G), the water outlet line from the oil cooler (F), the oil flow switch (P), and the lift pump package (L).
- Print 5 - This is another view of the oil fill line (I), upper oil filler (H)

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and the upper reservoir oil level transmitter (J). The upper oil drain (K) is shown in the bottom of the picture. Oil spilled on the flat area at the bottom of the photo would flow into the upper oil pan (B) as shown in print 4.

- Print 6 - This photo shows the piping from the oil cooler back to the reservoir contained within the pump. The cooled oil passes through the oil strainer (D), shut off valve (O), and a resistance temperature detector (N) before reaching the reservoir.
- Print 7 - This photo shows another view of the line from the oil cooler back to the reservoir. Note that prints 4 and 7 together show both upper oil pans and essentially a 360° view of the pump.
- Print 8 - As shown on drawing M-2233 oil is collected in the funnel (S) from the upper oil pans (U) and the upper oil drain (T). Also shown is the lower bearing oil filler (Q) and the lower bearing oil gauge (R).
- Print 9 - Shows the lower portion of the lift pump (L). Leakage from the filter (V) or the pump (W) would be collected in the oil drip pan (X) and drained to the upper oil pan (B) through the lift pump drain (M) as shown in print 4.
- Print 0 - Oil from the lift pump (L) flows through the lines (AA) to the upper thrust bearings.

We trust that this information will alleviate your concerns in this area. Note that these pumps are located in a locale with no other combustibles and as shown in the Fire Hazards Analysis a fire involving lube oil from a reactor coolant pump would not jeopardize our ability to safely shutdown the plant. In addition, a leak in the system would be identified very quickly as the oil temperature increased and the pump would be tripped.

As discussed with Mr. Engle, only ten copies of the photographs are provided.

Very truly yours,

Daniel H. Williams

Daniel H. Williams
Manager, Licensing

DHW:MOW:jaj