



ARKANSAS POWER & LIGHT COMPANY

POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4000

February 25, 1985

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Director of Nuclear Reactor Regulation
ATTN: Mr. J. F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, DC 20555

SUBJECT: Arkansas Nuclear One - Units 1 & 2
Docket Nos. 50-313 and 50-368
License Nos. DPR-51 and NPF-6
Low Level Radioactive Waste Storage Building

Gentlemen:

Because of the provisions of the Low-Level Radioactive Waste Policy Act of 1980, AP&L, along with other utilities in regions without active disposal sites, faces a potential interruption in the availability of disposal space for the Low-Level Radioactive Waste (LLRW) produced at its nuclear generating stations. This interruption, if it occurs, could begin as early as January 1, 1986, and continue until a new LLRW disposal site serving either the State of Arkansas or the Central States region is established and operational.

Because of the possibility that disposal space availability could be interrupted, AP&L has decided to proceed with the construction of an interim Low-Level Radioactive Waste Storage Building (LLRWSB) at the ANO site. The purpose of this facility would be to provide for the safe, interim storage of all LLRW generated solely from ANO until a permanent disposal facility is available. The ANO LLRWSB will be constructed and operated in compliance with NRC Generic Letter 81-38, which contains applicable guidelines for such facilities. The purpose of this letter is to provide you with a brief overview of our proposed facility. As such, the information presented herein is generally descriptive in nature, as opposed to presenting specific details of construction or operation.

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An artist's conception of the approximately 20,000 square feet LLRWSB is shown in Figure 1. The proposed location is shown in Figure 2. The five-year storage facility is designed to provide a controlled environment for receiving and shipping, inspection areas and equipment for sorting and compaction, and equipment for decontamination activities associated with on-site storage and off-site shipment of LLRW.

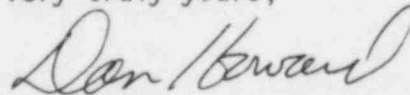
The radioactive wastes to be stored in the LLRWSB are classified as either Dry Active Waste (DAW), Other Waste, or High Specific Activity Waste (HSAW).

The DAW and Other Waste are generally characterized by relatively low activities and the ability to handle by direct contact using appropriate radiological controls. Typically, DAW consists of general contaminated trash items such as protective clothing, laboratory equipment, small tools, mops, brooms, rags, HEPA filters, and other miscellaneous items including various wood, metal, plastic and rubber objects. Other Waste typically consists of absorbed or solidified oil and sludge, damp trash and scintillation vials. HSAW, consisting primarily of filters and resins, is characterized by higher activities and the necessity of remote handling. The HSAW containers will be transported to the LLRWSB in shielded transportation casks and then remotely moved to a dedicated storage area. The total annual generation of LLRW for ANO is estimated to be approximately 24,000 cubic feet.

The overall building design incorporates systems for remote handling of HSAW containers, forklift handling of DAW and Special Waste, drainage collection and sampling, fire detection/protection, HVAC, electrical power supply and lighting, radiation detection and decontamination, and building utilities such as water and sewer. The total cost for this facility is estimated to be approximately \$7 million dollars. This cost includes construction, equipment, AP&L design engineering and applicable overheads and contingencies. Construction is scheduled to begin in the Spring of 1985, with completion expected by November 1, 1985. Startup and shakedown of procedures will be accomplished during the remainder of the year, with operation of the facility planned for January 1986.

Finally, based on our review of the existing ANO-1&2 license conditions and applicable NRC guidelines, AP&L has concluded that no technical specification changes will be required as a result of our construction or operation of this facility. Additionally, we will be making appropriate updates to our ANO-1&2 FSARs to include this facility and its operation.

Very truly yours,



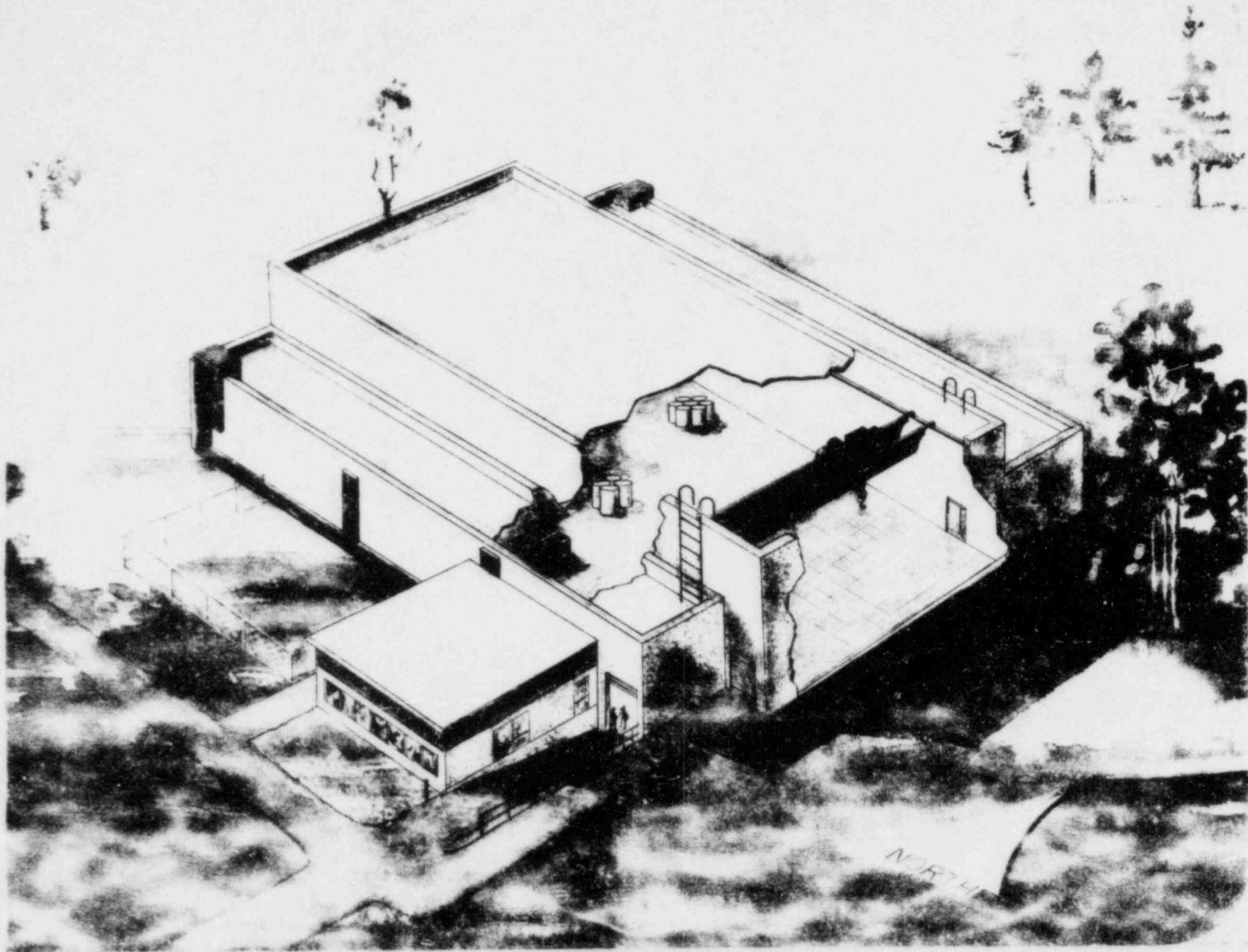
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J. Ted Enos
Manager, Licensing

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Attachments

FIGURE 1

Artist's Conception of the Low Level Radwaste Storage Building



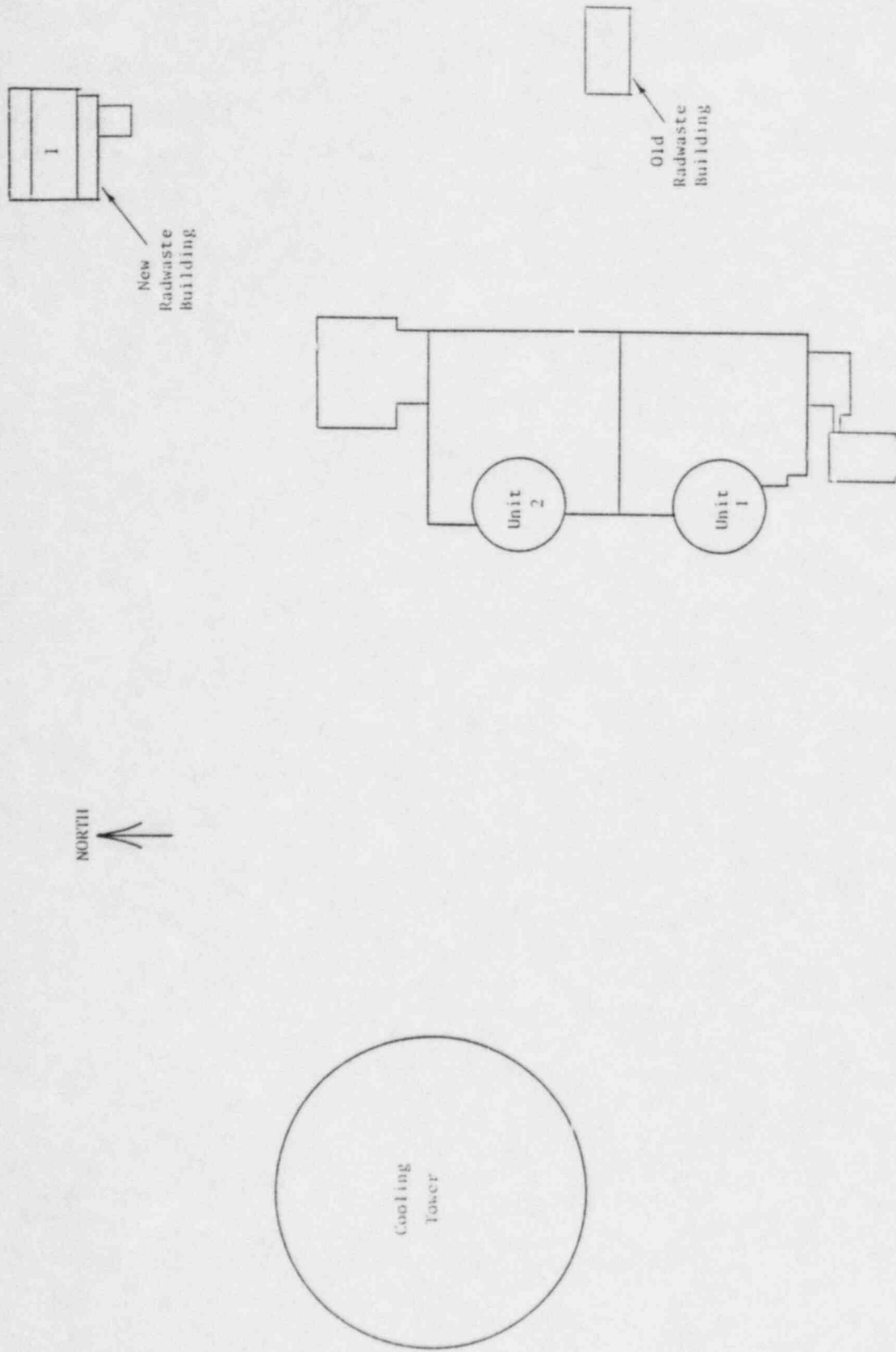


FIGURE 2

Location of the Low Level Radwaste Storage Building