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May 24, 1979

1-059-34

Director of Nuclear Reactor Regulation
ATTN: Mr. Robert W. Reid, Chief
Operating Reactors Branch #4
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Arkansas Nuclear One-Unit 1
Docket No. 50-313
License No. DPR-51
Response to Verbal Questions
from May 23, 1979 Meeting
(File: 1510)

Gentlemen:

The following is provided in response to concerns of the staff raised in the May 23, 1979 meeting at Arkansas Nuclear One - Unit 1 (ANO-1).

Item 1

Can the diesel generator pickup the A1 (EFW pump) bus load? (Where is the analysis?)

Response

An analysis was conducted to determine if the 700 hp motor driven Emergency Feedwater Pump could be loaded on the emergency diesel generator. This analysis was provided to the NRC in our December 3, 1973 letter to Mr. A. Giabusso and concluded that the diesel generator could accept the load.

Item 2

Demonstrate the performance of the new EFW flow indication and autostart annunciation in the control room. Demonstrate the minimum acceptable flow (550 GPM) from each EFW train.

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Demonstrate the new autostart feature on the electric EFW pump actually works. Demonstrate the capability of the manual control of the EFW system to maintain S.G. level with the EFW bypass valve.

Response

As discussed in our May 21, 1979 letter, we propose to demonstrate: (1) performance of the EFW flow indication and auto start annunciation modifications, (2) minimum acceptable flow (i.e. 550 GPM) capabilities of each train of EFW, (3) operability of the auto start modification on the motor driven EFW pump, and (4) capability of manual control of steam generator level with the EFW bypass valve. This test will be performed prior to exceeding 15% of rated power and in accordance with Test Procedure No. 79, Flow Test Emergency Feedwater to the Steam Generators with Manual ICS Override, subject to approval by your staff.

Item 3

The NRC requires that 16 core exit thermocouples, recorded in the vicinity of the penetration, be provided as a condition of startup. Also, timely (1-2 weeks) relocation to the control room is required.

Response

To satisfy a recent concern of the staff, sixteen (16) incore thermocouples will be connected and have recording capability before we begin power operation as defined by Technical Specification 1.2.5 (i.e., above 2 percent of rated power). These thermocouples will be connected so as to provide input to the plant computer for readout purposes as soon as practicable following startup. An additional sixteen (16) incore thermocouples will be connected so as to provide inputs to the plant computer by October 31, 1979.

Item 4

Provide a procedures guideline or flowsheet to help lead the operator to the correct procedure.

Response

Prior to startup, a procedures guideline or flowsheet will be available in the control room to guide the operator in determining which procedure to use given a set of circumstances. Your I&E inspector will verify this action to have been taken.

Item 5

Has the reactor trip setpoint been set at 2300 psig and the PORV relief set at 2450 psig?

Response

Our letter of April 24, 1979, proposed changes to the ANO-1 Technical Specifications. Specifically, our request involved raising the PORV opening setpoint from 2255 psig to 2450 psig and lowering the high pressure reactor trip setpoint from 2355 psig to 2300 psig. These setpoint changes have been made and the revised setpoints will be utilized administratively until an amendment to the Technical Specifications is issued.

Item 6

Commit to a schedule, and the exclusion from duties as RO/SRO, for retraining those operators who did not pass the written exam or else who showed deficiencies during the NRC audit.

Response

The licensed operators who did not pass the written examination and the licensed operators who showed deficiencies during the NRC audit will be excluded from duties as Reactor Operator or Senior Reactor Operator prior to power operation and until such time as they have received additional training and have passed a written examination. This additional training and examination shall be completed by June 1, 1979.

Item 7

If an operator fails the initial exam, no additional exam shall be taken until retraining has been done. Also, the second exam must be different from the first.

Response

If a licensed operator failed the initial written examination, additional training will be conducted prior to administering a second examination. The second written examination shall be different than the initial written examination. If a licensed operator fails the second written examination, an individualized training program will be developed for that individual. This training program shall be reviewed and approved by the NRC. A third examination will not be given to the individual until the individualized training program is completed.

Item 8

Describe the permanent ANO operator training staff.

Response

Although the plant is authorized to have a training staff of six people, only three positions are currently filled. The organization is as follows:

POSITION	ASSIGNED INDIVIDUAL
Training and Counseling Supervisor	Mr. Jimmy Vandergriff
Training Coordinator (Unit 1 Operations Training)	Mr. Tracey Green
Training Coordinator (Unit 2 Operations Training)	Open
Training Coordinator (Electrical Skills Training & Mechanical Skills Training)	Mr. Bruce Baker
Training Coordinator (I&E/Technical Support Training)	Open
Training Coordinator (Supervisory/Career Path Planning)	Open

Background Summary for ANO Training Staff

Jimmy Vandergriff - Training and Counseling Supervisor
8 years of Navy nuclear power experience including 3 years as ET on nuclear submarine and 3 years as instructor at A1W prototype. 9 years at ANO including 1) 2 years as a shift supervisor on Unit 1, 2) 2 years as a shift supervisor on Unit 2. Licensed as SRO on Unit 1 and Unit 2 (cold license on both).

Tracey Green - Training Coordinator - Operations
2½ years of fossil plant experience in operations, maintenance, I&C, and plant performance
2½ years of experience in AP&L Production Dept.
6 years in plant testing, performance and analysis.
6 years of experience in training at ANO including operator training and general employee training.
Holds BS degree in Math.

Bruce Baker - Training Coordinator Maintenance
2 years as Test Engineer with Aberdeen Proving Grounds.
10 years in R&D engineering with Dow Chemical in Chlor-Alki production.
4 years as Assistant Maintenance Supervisor at ANO.

1½ years as Maintenance Training Coordinat
at ANO.
Holds BSME from University of Arkansas (19

It is intended the open positions be filled with people of the following qualifications:

Training Coordinator - Operations Unit 2
Requires BS in Engineering or Physical Sciences or the equivalent from job experience and technical training.
Minimum of 4 years of work experience in power plant related field.
Operator license desirable.

Training Coordinator - I&C and Tech Support
Same as Training Cordinator above.

Career Counseling and Supervisor Training Coordinator
Requires a degree in management, engineering, or a field in which management and counseling/psychology skills training are included. Also 2 years technical/supervisory experience or 5 years experience in technical supervisory position.

Currently, Mr. Vandergriff conducts the major portions of the Unit 2 operations training until the Unit 2 training position is filled.

Based on discussions with your staff, we believe the items necessary for issuance of a release from our May 17, 1979 Order have been completed or addressed to the satisfaction of the staff. Therefore, we request the issuance of said release on May 25, 1979.

Also, attached are additional copies of schematics provided previously, These show the modification to provide an autostart of EFW upon loss of main feedwater and the annunication of this autostart.

Very truly yours,

David C. Trimble

David C. Trimble
Manager, Licensing

DCT/DGM/ew

Attachments

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