H. B. ROBINSON'S OPERATOR REQUALIFICATION PROGRAM

H. B. Robinson's Requalification Program is designed to ensure that all licensed reactor operators and senior reactor operators will maintain proficiency in their assigned plant operating tasks. Further, it is expected that participation in this program will allow all licensed personnel to meet or exceed the requirements set forth by USNRC operator licensing group.

The following is a detailed summary of the H. B. Robinson's Operator Requalification Program which will be conducted to fulfill the requirements of 10 CFR 55. The full program will be implemented in such a manner as to minimize scheduling difficulties that will be incurred by plant management. It is the intention of CP&L to have a continuing training program between the time each annual examination is given. This consists of 2-4 months of formal lectures given weekly, as scheduling permits, a simulator training program, continuing with on-shift training through the remainder of the year. This will exclude the 1-3 months that the plant is down for maintenance and refueling.

The entire Requalification Program will be conducted in two (2) phases:

1. Retraining on-site, and
2. Operator evaluation

The Training Supervisor will be responsible for the scheduling and supervision of all training.

PHASE I - RETRAINING ON-SITE

The on-site portion of the Requalification Program will consist of approximately 120 hours of instruction. This instruction will be given in two (2) parts:

1. Formal classroom lectures, and
2. On-shift training

The scheduling on-site will be such that every licensed operator will have the opportunity to attend all lectures. The following is an outline of what subjects may be covered in each of these parts, but not necessarily in the order stated.

1. Formal Classroom Lectures

   a. Theory and Principles of Operations

      1) Atomic and nuclear physics
      2) Subcritical multiplication
      3) Xenon and samarium effects
      4) Rod worth
      5) Boron worth
      6) Coefficients and defects
         a) Moderator temperature
         b) Fuel temperature
         c) Voids

21. Generator or turbine trip

22. Malfunction of automatic control system(s): rod control or boron concentration control

23. Malfunction of reactor coolant pressure/volume control system

24. Reactor trip

25. Main steam line break (inside or outside containment)

26. Nuclear instrumentation failure(s)

PHASE II OPERATOR EVALUATION

At the completion of Phase I each licensed operator will take a USNRC type comprehensive written examination. Periodically, a CP&L instructor will conduct oral examinations on 1 or 2 licensed operators.

Annually, each licensed operator will attend a simulator training program for two weeks, consisting of approximately 64 hours of instruction time, as scheduling permits. Any licensed operator not attending the simulator training program will be given an oral examination which includes a walk-through of controls, indications, and drills. The simulator used will have a similar arrangement of instrumentation and controls and will reproduce the general operating characteristics of the Robinson Unit. The simulator staff will base their programs on recommendations and requirements forwarded to them by the plant Training Supervisor and Nuclear Regulatory Commission requirements. The Training Supervisor will use the Operating Supervisor Unit No. 2's recommendations, plant operating experiences, and other suitable inputs in making his recommendations to the simulator staff. The program will be concluded with evaluation of the licensed operator performance during abnormal/emergency conditions.

The following is a list of records to be kept in a personal file on each licensed operator:

1. Startup, Shutdown, and Reactivity Changes
2. Formal Lecture Attendance
3. On-Shift Training
4. Grade Sheet for Periodic Examinations
5. Evaluation Sheets for Written Comprehensive Examinations
6. Evaluation Sheets for Oral Examination
7. Evaluation from Simulator Staff
8. Additional Training

In a master file will be copies of all periodic examinations and a copy of all comprehensive examinations given.

Any licensed operator absent from the site for a period of four (4) months or longer will be given a written examination and/or an oral walk-through of the plant to determine if an accelerated training program is necessary prior to returning him to his normal duties.

NOTE: The term "licensed operator" means any person holding an NRC license to operate a nuclear power plant, whether it be senior reactor operator or reactor operator.

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