GPU 2302

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THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

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Cust.

File No. or Ref.

Subj. Requalification Training

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The B&W requalification training program is primarily intended to improve the plant operator's ability to control the plant under abnormal conditions. The abnormal conditions which are considered are derived from License Event Reports (LER's) and discussions with personnel at the plants. A visit to each site is made just before requalification training starts to meet with on-shift personnel, operations supervisors and training in order to tailor instruction to specific plant problems. Events are shared among plants so that the Oconee operators are exposed to SMUD problems and vice versa among all our plants.

Each requalification group is exposed to at least the following actually occurring problems during their operating period on the simulator:

1. Failed close main feedwater valve
2. Reactor trip without turbine trip
3. Dropped regulating or safety rod
4. Tav failure both Th and Tc caused (ICS input)
5. Spray valve failure
6. Header pressure failure (ICS input)
7. Loss of ICS power — controls fail to mid scale
8. Load rejection
9. Turbine trip
10. Steam generator tube leak
11. Feed flow instrumentation failure

During operations, students operate with the various ICS stations in automatic and manual to demonstrate parameter effects on plant operation. These drills demonstrate:

1. Importance of each parameter on system operation.
2. What parameters are important to monitor.
3. Proper response to instrument failures are usually maintenance related.
4. What instruments are really telling the operator.
5. Limitation of each mode on total plant operations.

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Each of our plants is different and many of the evolutions cannot be exactly duplicated on the simulator because of program and hardware limitations. However, they form a great part of the classroom discussions. The control system and the CRD systems are thoroughly reviewed with each group. We utilize the specific drawing for the student's plant. Occurring malfunctions are postulated and their effects are determined by the students. Problems occurring at other plants are posed and discussed in the context of what should be done at their plant. Typical of these problems are the loss of NNI power at Rancho Seco and the loss of ICS power at Crystal River.

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