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June 8, 1982

Docket Nos. 50-277
50-278

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

SUBJECT: Peach Bottom Atomic Power Station SRO and RO
Training Program

Dear Mr. Stolz:

This letter responds to questions developed by your consultant, Science Applications, Inc., and transmitted by letter dated May 12, 1982 (J. F. Stolz, NRC to E. G. Bauer, Jr., PECO.) regarding the Peach Bottom SRO and RO training program. The Course Outlines requested in questions 1 and 2 of the May 12, 1982 letter are presented in the enclosures to Philadelphia Electric Company's letter dated April 30, 1981 (S. L. Daltroff, PECO. to P. F. Collins, NRC). The training programs identified in questions 1 and 2 are conducted under contract for us by General Physics Corporation. In addition to the course outlines provided, lesson plans for specific lectures are approved by appropriate Philadelphia Electric Company personnel; however, they are considered proprietary in nature and retained by General Physics. If detail of the level contained in the lesson plans is desired, arrangements could be made by us to permit inspection of these lesson plans.

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The following provides responses to the specific questions in the same order presented in the May 12, 1982 letter:

NRC Question

1. The training and regualification program for senior reactor operator/reactor operator have lectures which appear to cover the subject of heat transfer, fluid flow and thermodynamics as called out in enclosure 1 of Denton's March 28, 1980, letter. Do these lectures in fact cover this material and is the coverage to the level of detail spelled out in enclosure 2 of the Denton letter? Please send course outlines if available.

Response

The training and regualification programs for senior reactor operator/reactor operator have lectures which do in fact cover the subject of heat transfer, fluid flow and thermodynamics to the level of detail called for in enclosure 2 of Denton's March 28, 1980 letter.

NRC Question

2. The reactor operator and senior reactor operator training and regualification programs have lectures which appear to address the subject of using installed plant systems to control or mitigate an accident in which the core is severely damaged. Do these lectures address the topic and do they cover the subject to the level of detail spelled out in enclosure 3 of Denton's letter? Please send course outlines if available.

Response

The training and regualification programs for senior reactor operator/reactor operator have lectures which do address the subject of using installed plant systems to control or mitigate an accident in which the core is severely damaged to the level called for in enclosure 3 of Denton's March 28, 1980 letter.

NRC Question

3. Are the lectures and quizzes on the subject of accident mitigation given to shift technical advisors and operating personnel from the plant manager through the operations chain to the licensed operators? If they are, would you please provide the titles of the people who are trained and an organization chart which illustrates their position in the operations chain? (This question applies to both training and regualification problems.)

Response

The lectures and quizzes on the subject of accident mitigation are given to shift technical advisers, operations personnel, and licensed operators. An organization chart showing those people so trained is attached.

NRC Question

4. Do the training and regualification program elements which involve heat transfer, fluid flow, thermodynamics and accident mitigation involve 80 contact hours in each program? (A contact hour of instruction is a one-hour period in which the course instructor is present or available for instructing or assisting students; lectures, seminars, discussions, problem-solving sessions, and examinations are considered contact periods under this definition.)

Response

The training program elements which cover heat transfer, fluid flow and thermodynamics involve approximately 80 contact hours; accident mitigation involves approximately 120 contact hours. The regualification program elements covering these topics involve 32 hours each during the regualification cycle.

NRC Question

5. Is there an increased emphasis on reactor and plant transients in the reactor operator and senior reactor operator training program as required by item A.2.C.3 of

enclosure 1 of Denton's March 28, 1980, letter? If there is, does this training deal with both normal transients and abnormal (accident) transients?

Response

There are approximately two weeks of classroom lecture time, and one half of a two week simulator hot license certification devoted to reactor and plant transients. This training deals with both normal and accident transients. Additional time is devoted to these transients in the requalification program, both in lecture and simulator.

NRC Question

6. Are your instructors enrolled in appropriate requalification programs to assure they are cognizant of current operating history, problems, and changes to procedures and administrative limitations?

Response

Contractor instructors conducting senior reactor operator/reactor operator training and requalification programs are on the distribution for new or revised procedures, plant modifications, plant experiences, plant upsets which are pertinent to operator training. In addition, review of lesson plans for requalification lectures by plant operations personnel insures that information presented is current.

NRC Question

7. The reactor operator requalification program identifies twenty-six reactor manipulations which are nearly the same as those identified in enclosure 4 of the Denton letter. Will this list be expanded to address item (19) as called out in enclosure 4 of Denton's letter? If not, please provide a rationale for the exception.

Response

In listing the reactor control manipulations performed in the reactor operator requalification program, item (19),

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Inability to Drive Control Rods, of enclosure 4 to the Denton letter, was inadvertently omitted. It is one of the manipulations required to be performed and should have been included in the list.

Should you have any questions regarding this request, please do not hesitate to contact us.

Very truly yours,

A handwritten signature in cursive script, appearing to read "J. F. Stolz", written in dark ink.

Attachment

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ANO. 8206140276

NO. OF PAGES 1

REASON

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