



## DETAILS

### 1. Persons Contacted

#### Public Service Electric & Gas Company

- \*A. E. Giardino, Project QA Engineer
- R. C. Robinson, Senior QA Engineer
- \*R. Donges, QA Engineer
- \*P. Kudless, Project Construction Manager

#### Bechtel Power Corporation

- \*A. J. Bryan, Asst. PCQCE
- \*J. B. Gatewood, Lead Site QA Engineer
- \*W. Hindle, Project Field Engineer
- \*L. E. Rosetta, Field Construction Manager
- \*J. Galley, Manager of Construction SFHQ

#### U. S. Nuclear Regulatory Commission

- \*S. D. Ebnetter, Chief, Engineering Support Section 2, RC&ES Branch
- \*W. H. Bateman, Senior Resident Inspector

\* denotes persons attending exit interview.

In addition to the above several more licensee and constructor personnel were contacted during the inspection.

### 2. Plant Tour

The inspector conducted a walk-through tour of the plant site to assess general conformance to project work procedures and good construction practices in the areas of concrete preplacement preparation, soils backfill operations, and test lab operations. A licensee QA engineer and NRC Senior Resident Inspector accompanied the inspector on this tour.

No items of noncompliance were identified.

### 3. Qualification of Inspection Personnel

The inspector reviewed the records and held discussions with licensee and constructor personnel regarding the qualification and certification of quality control inspection personnel. The inspector reviewed the following documents:

- BQCM, Section II, "Qualification, Indoctrination, Certification and Training," Revision 0, 10/1/75.
- Training and Certification records of ten (10) QC personnel randomly selected for review.
- ANSI N.45.2.6-1073, "Qualification of Inspection, Examination, and Testing Personnel for the Construction Phase of Nuclear Power Plants."
- NRC Regulatory Guide 1.58.
- QC Inspection Report: 1-R-BF-912-C-1-20, and QCIR: 1-R-B-F-908, covering concrete inspection between 10/10/78 and 10/23/78.

Based on the review of above documents and discussions with licensee and constructor personnel, the inspector determined as follows:

- a. The certification folder for an inspector indicated a level II certification on the summary sheet, however, the supporting documentation indicated level I capability only. In response to the inspector's question the licensee informed the inspector that it was a typographical error. The licensee corrected the certification indicating level I capability.
- b. The Construction Quality Control Manual, Section II, paragraph 3.9.3 requires that a quality control inspector be sufficiently trained and be familiar with details of inspection procedures before he is allowed to carry out an inspection pursuant to the procedure. However, a quality control inspector not trained and indoctrinated in the project procedures for concrete preplacement, placement, and post placement inspection was allowed to carry out these inspections between 10/10/78 and 10/23/78. These inspections are documented in inspection reports IR-1-R-BF-912 and IR-1-R-BF-908.

This is a violation of 10 CFR 50, Appendix B, Criterion V. (50-354/80-20-01)

The inspector further observed that the licensee's program of inspector qualification and certification requires that to be certified for inspection a person shall have a specific period of "related" and "equivalent" inspection experience on a power plant or "similar" construction project. In response to this inspector's inquiry as to what the licensee considered "related," "equivalent" and "similar," the licensee stated that any inspection experience in any discipline on any construction site is considered by the licensee to fulfill the above requirement. The inspector observed that the licensee had certified an inspector to level I capability in welding, although the individual had indicated his experience as concrete block mason foreman responsible for the quality of related work in unspecified



Based on the above review and discussions the inspector determined that the licensee has audited the program on proper schedule, has informed the constructor of the audit findings, and has properly followed up on open items, however, the inspector observed that the licensee audit program, as implemented now, did not identify the weakness of inspector qualification/certification program. Apparently, this failure of the audit program is attributable to the program's heavy emphasis on assessing the degree of compliance of existing project procedure rather than the effectiveness and adequacy.

No items of noncompliance were identified.

5. Exit Interview

The inspector met with the licensee representatives (denoted by \* in paragraph 1) at the conclusion of the inspection. The inspector summarized the purpose, scope, and the findings of this inspection.