

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-334/85-09

Docket No. 50-334

License No. DPR-66

Licensee: Duquesne Light Company

435 Sixth Street

Pittsburgh, Pennsylvania 15219

Facility Name: Beaver Valley Power Station, Unit No. 1

Inspection At: Shippingport, Pennsylvania

Inspection Conducted: March 25-29, 1985

Inspector:

P. Bissett
P. Bissett, Reactor Engineer

5/1/85
Date

Approved by:

P. K. Eapen
Dr. P. K. Eapen, Chief,
Quality Assurance Section, DRS

5/7/85
Date

Inspection Summary: Routine, unannounced inspection conducted on March 25-29, 1985. (Inspection Report No. 50-334/85-09)

Areas Inspected: Licensee's action on previous inspection findings and non-licensed training. The inspection involved 32 hours of onsite inspection by one region based inspector.

Results: No violations were identified.

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DETAILS

1. Persons Contacted

*T. Burns - Training Director
*B. Haney - Training Coordinator, Technical and Craft
*J. Kowalski - Operations Review Committee Coordinator
T. Kuhar - Training Coordinator (Acting), Operations
S. Sovick - Senior Compliance Engineer
*J. Vassello - Superintendent, Licensing and Compliance

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W. Troskoski - Senior Resident Inspector
*D. Johnson - Resident Inspector

The inspector also interviewed other plant personnel during the course of the inspection.

* Denotes those present at the exit meeting.

2. Licensee's Action on Previous Inspection Findings

(Closed) Inspector Followup Item (50-334/81-29-32) and Unresolved Item (50-334/82-05-02): Review the establishment and activities of Nuclear Division Personnel Training Committee. This committee was established in early 1982 to evaluate and recommend training requirements for all non-licensed positions involved with safety-related work. An administrative procedure was developed by which corporate and site groups were to delineate specific skill requirements and subsequently identify particular training needs for applicable non-licensed positions. The Nuclear Division Personnel Training Committee was to coordinate the submission and review of position analyses to the Training Department. The majority of position analyses have been submitted, however upon review, it was determined that almost all groups interpreted the procedure differently, thus resulting in an inconsistency of training requirements. Because of a recent Duquesne Light Company reorganization and a revision to the above mentioned procedure, further determination and re-analysis of training requirements for non-licensed positions and subsequent implementation have been temporarily delayed.

The inspector reviewed the recently revised procedure, its related documentation, the present status and future schedule for implementation of non-licensed training requirements with the Training Director (who is a member of the Nuclear Division Training Committee). Contingent upon final determination of all position levels within the organization, training checklists are scheduled for completion by the end of 1985.

For administrative purposes, these items are closed and will now be followed under item 50-334/85-09-01.

3. Nonlicensed Plant Training

3.1 References

- Beaver Valley Power Station (BVPS) Updated Final Safety Analysis Report
- BVPS Training Manual, Issue III
- 10 CFR 50, Appendix B, Quality Assurance Criteria
- ANSI N18-1 - 1971 "Selection and Training of Nuclear Power Plant Personnel"
- Regulatory Guide 8.13 "Instructions Concerning Prenatal Radiation Exposure"

3.2 Program Review

The inspector reviewed the Beaver Valley Power Station Training Manual, Issue III to verify that a program was in place that addressed the indoctrination, training and retraining of personnel in the areas of radiological health and safety, emergency plan, security and access control, industrial safety, quality assurance and prenatal radiation exposure. Also reviewed were those training programs that specifically addressed training appropriate to various non-licensed technical disciplines, such as electrical and mechanical.

The inspector also reviewed the draft of the newly revised training manual, which is currently under final management review. The revised training manual consists of two volumes with volume I covering administrative policies, and volume II detailing various training programs. The new manual was developed utilizing the "systematic approach to training" (SAT) concept and is much more explicit than the training manual currently in place. The majority of the training program, now detailed in the revised manual, had always been in place but were not governed by any policy or procedure under the Issue III of the training manual.

3.3 Implementation Review

The inspector reviewed the implementation of the non-licensed training program to ensure that the training presented is meaningful; topics are covered accurately and sufficiently; and mechanisms are in place to identify those areas where training

is needed or need to be improved. Implementation of the non-licensed training program included a review of the following:

- Records of attendance at station orientation sessions for both radiation and non-radiation workers
- Records of attendance for General Employee Refresher Training (GERT)
- Various lesson plans for general, mechanical, electrical and instrument maintenance
- On-the-job training checklists
- Weekly training schedules
- Ten-week proposed training schedule for I&C and mechanical personnel (March 25-May 31)
- Records of various training sessions and associated test grades
- Nuclear Training Committee activities

The inspector also attended a portion of a pump and motor shaft alignment training class which was held at the new training center. Subsequent discussions with one class participant indicated that the class was meaningful and that the instructor was knowledgeable and well prepared. Interviews were also held with six employees (2 electricians, 2 meter and control repairmen (I&C), and 2 mechanics, one of which was a female) to ascertain the effectiveness and meaningfulness of the training program. All individuals indicated that significant improvements to the training program had been made within the past two years, and the majority felt that the amount and quality of instruction had improved, largely due to the permanent staffing of the three maintenance instructor (mechanical, electrical, I&C) positions.

The inspector reviewed the proposed draft training manual and future plans with the Technical and Crafts Training Coordinator and the Nuclear Division Training Director. Present plans call for initial INPO accreditation in the instrument and controls, chemistry, and health physics disciplines, with the remaining disciplines (mechanical, electrical, etc.) to follow. The ongoing activities of the Nuclear Division Personnel Training Committee were reviewed with the Training Director.

3.4 Findings

No violations were identified. Significant improvements were noted in the area of qualifications for mechanics, electricians and meter and control repairmen. NRC Inspection 50-334/83-28 identified some concerns in the adequacy and method of completion of qualification checklists. The licensee has subsequently replaced these generic qualification checklists with detailed site specific on-the-job training (OJT) checklists. Identification of activities and subsequent development of these OJT checklists are ongoing. The effectiveness of the non-licensed training program and further development of OJT checklists will be reviewed in future NRC inspections (50-334/85-09-02).

4. Unresolved Items

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items, violations or deviations. An unresolved item was closed during the inspection as discussed in paragraph 2.

5. Exit Meeting

The inspector met with the licensee representatives (denoted in paragraph 1) on March 29, 1985 to summarize the scope and findings of the inspection.

At no time during the inspection was written material provided to the licensee by the inspector.