

REF: 68

19. Installation of Heating, Ventilating and Air Conditioning Systems (HVAC) - Unit 1

The inspector audited the contractor's (Schneider Inc.) activities for installing the HVAC system in the containment building. The following areas were audited:

a. Personnel Qualifications - Quality Control Inspectors

Review of Schneider procedure PPM 5.1 Revision 0, Qualification and Certification of Inspection and Test Personnel. This procedure requires that QC inspection personnel receive training and have sufficient experience to perform inspections. The procedure states that it shall be the responsibility of the Corporate Quality Assurance Manager or his designee to certify Quality Control inspectors as Level I, II or III.

The inspector reviewed personnel records for five QC inspectors who had performed inspections on site for Schneider, Inc.

- o QC Inspector Level II, certified September 10, 1979
- o QC Inspector, Level II, certified April 24, 1980
- o QC Inspector, Level II, certified May 5, 1980
- o QC Supervisor, Level II, certified May 1980
- o QC Inspector. This individual was not properly certified as being qualified. There is a letter on file which states the individual is qualified as of April 24, 1980 based on the following performance:
 - (1) Read Procedure PPM 5.2
 - (2) Performed 2 field receipt inspections
 - (3) Oral interview with QC Supervisor

The above listed actions are not in compliance with the procedure requirements for certifying QC inspectors. Specifically, for performing inspections, the individual must have previous experience as a Level I. This requires examinations and certification as a Level I. For performing examinations, the individual must be a certified Level II. Paragraph 4.1 of Procedure PPM 5.2 states, "Level II; is an individual who can perform the duties of Level I and evaluate and report the results of inspections,..." There is no record of this individual ever holding a Level I or Level II qualification in accordance with Procedure PPM 5.2.

A review of his previous work experience does not show any previous experience in either Quality Control or nuclear type disciplines (mechanical, welding, electrical, etc.).

There are records of receipt inspections performed by this individual, for example, report number CF-075 performed on June 18, 1980.

This is contrary to Appendix B, Criterion V, and Schneider, Inc. procedure PPM 5.1, "Qualification and Certification of Inspection and Test Personnel" in that the individual was performing receipt inspections without certification as required by the above documents. (352/80-12-14)

b. Weld Rod Storage Oven Temperature Control

The inspector audited the calibration and storage facilities for weld rod ovens. This included a review of the "Weld Material Control" procedure PPM 3.3, Revision 5, dated 12/79. This procedure requires that "Low hydrogen type coated electrodes and stainless steel covered electrodes shall be stored in vented ovens at 250°F to 350°F. The ovens shall be checked quarterly using a calibrated thermometer and the temperature documented on form 3.8.b."

The inspector requested a temperature check of weld rod oven number 1 which contained E7018 electrodes. The following conditions were observed:

A calibrated thermometer identified at 002 was used and indicated a temperature of 371°F. Since this indicated a temperature of 20°F over that allowed, a second calibrated thermometer 001 was used. This showed a temperature of 290°F which was 81°F lower than the 002 reading. The inspector then requested that the temperature using thermometer 002 be retaken. The second reading was 332°F, a change of approximately 40°F. It appeared that thermometer 001 and 002 were giving erroneous readings. A third thermometer 015 was used which showed a 400°F temperature. This corresponded to the control setting on the oven. The QC supervisor stated that 015 thermometer appeared to be correct. The inspector stated that this temperature was 50°F over the allowable temperature. The contractor acknowledged this and took the following corrective actions.

- (1) Thermometers 001 and 002 were taken out of the calibration program and destroyed.
- (2) The oven temperature was reduced to below 350°F.