

U. S. ATOMIC ENERGY COMMISSION
REGION I
DIVISION OF COMPLIANCE

Report of Inspection

CO Report No. 289/69-3

Licensee: Metropolitan Edison Company
(Three Mile Island Unit 1)
License No. CPPR-40
Category A

Date of Inspection: May 16, 1969

Date of Previous Inspection: April 8-10, 1969

Inspected By: *D. E. Whitesell* 6/12/69
D. E. Whitesell, Reactor Inspector (Constr) Date

Reviewed By: *N. C. Moseley* 6/16/69
N. C. Moseley, Senior Reactor Inspector Date

Proprietary Information: None

SUMMARY

The Reactor Bleed Tanks, field fabricated by Pittsburgh Des Moines (PDM), are finished and set in place, and are awaiting the ASME code inspector to witness the hydrostatic test for acceptance. The question concerning potential stresses induced by poor head fit-up remains outstanding. An engineering evaluation by UE&C is scheduled.

The inspector was informed by Met-Ed's site Quality Assurance Engineer, that forty (40) stainless steel floor drain castings had been rejected and returned to Zurn Manufacturing Company for replacement.

Test coupons are being prepared in order to qualify the welding procedures for the joining and cladding of the reactor coolant piping.

CB&I's Quality Control Plan was reviewed.

1419 216

7910160662

I. SCOPE

An announced visit was made to the site of the Pressurized Water Reactor being erected on Three Mile Island, near Middletown, Pa. The inspector was accompanied by Mr. D. Ross, DRL, HQ, and the purpose of the visit was to familiarize Mr. Ross with the site and the progress of the work.

II. PERSONS CONTACTED

A. Metropolitan Edison

Mr. George Bierman, Project Manager
Mr. Vern Stuebner, Resident Engineer
Mr. Gene Hraczuch, Resident QA Engineer
Mr. Bud Avers, Quality Assurance Manager (GPU)

B. United Engineers and Constructors

Mr. George Dorn, General Superintendent
Mr. Milo Prisuta, Site QC Manager
Mr. Karl Brooks, Welding Inspector

III. QUALITY CONTROL ITEMS

A. The inspector reviewed CB&I's Quality Control Plan for the containment liner and found it to provide for the following essential items:

1. Quality Assurance Policy
2. Quality Assurance Organization Chart
3. Control of Materials
4. Control of Drawings
5. Control of Procedures
6. Welding Quality Assurance
7. Nondestructive Tests and Documentation
8. Control of Electrodes

1419 217

- 9. Dimensional Control
- 10. NDT personnel to be qualified per SN-TC-1A

The inspector concluded that the procedures are adequate, if implemented and properly followed. This will be monitored on a future visit.

- B. The inspector audited the Deficiency Reports developed by UE&C. These reports are presently filed by the defect subject. Copies of the report are routed to GAI and Met-Ed for review and comment and for evaluation, and the final disposition is noted on the report.
- C. The inspector was informed by Mr. Hreczuch, Met-Ed that he had rejected forty (40) stainless steel floor drains to be located in the Containment Building. Upon receipt of these castings from Zurn, Met-Ed requested a dye penetrant examination to be made. The penetrant examinations revealed linear defects near the weld prep area which Met-Ed felt might propagate after the castings were welded into place. Representatives from Zurn were called in and they agreed to replace these castings.
- D. Mr. Hreczuch showed the inspector a condensate tank that had been received from Youngstown Tank Company, which had a gouge in the head approximately 1/2" wide X 1 1/2" long X 1/8" to 3/16" deep. Since this tank operates under pressure and temperature, Met-Ed has requested the manufacturer be brought in to run an ultrasonic thickness check to make certain that the gouge does not encroach on the total required thickness of the head. The results of this test will be reported on a future visit.

IV. REACTOR BLEED TANKS

- A. Pittsburgh Des Moines has completed the fabrication of the three Reactor Bleed Tanks and has moved off the site. The Bleed Tanks have been set in their permanent location and are awaiting the arrival of the ASME code inspector to witness their hydrostatic test for acceptance.

1419 218

- B. The inspector was informed by Mr. Prisuta, UE&C that all material history records, acceptable welder's performance qualification records, and nondestructive testing records including the radiography films, had been requested from PDM. The inspector was also informed by Mr. Prisuta, that following the receipt of the documents from PDM, an engineering evaluation would be made of the poor fit-up of head to shell on one of the tanks. These records and evaluation will be audited on a future visit.

V. REACTOR COOLANT PIPING

- A. Test coupons for the qualification of the welding procedures for joining and cladding the reactor coolant piping were being prepared and the inspectors witnessed a portion of the welding work being done in the horizontal position. The test coupons are made on full size pipe, and the 5G position welding was finished, except for grinding out the backup ring, in preparation for the cladding weld.

VI. Exit Interview

- A. Since the visit was primarily a familiarization visit and the inspectors were accompanied during the tour by Mr. Hreczuch, Met-Ed, a formal exit interview was not held.