

DOCKET NUMBER

— PRGD. & UTIL. FAC.

50-247

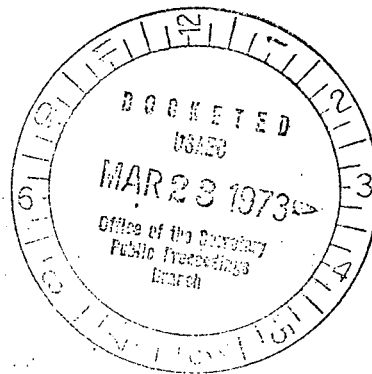
APPLICANT'S SUPPLEMENTAL REPORT ON  
INVESTIGATION OF WELDS AND PIPE  
WALL THICKNESS IN VENT AND  
DRAIN ASSEMBLIES

Consolidated Edison Company  
of New York, Inc.

Indian Point Station, Unit No. 2

Docket No. 50-247

March 22, 1973



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During hydrostatic testing of the Reactor Coolant System on August 25, 1972, a leak occurred in the weld joining a 3/4-inch branch connection to a vent line pipe nipple. Because the leak was found in a 2500 psi system vent line, the non-isolatable vent and drain assemblies were inspected. Several cases were found where the pipe nipple wall thickness was less than specified or the type of weld attaching the branch coupling to the pipe was a fillet or partial penetration weld rather than the specified full penetration weld. A report entitled "Investigation of Weld and Pipe Wall Thickness in Vent and Drain Assemblies," dated September 26, 1972, describing the event, the inspection results, and the corrective action was transmitted to the Regulatory Staff by a letter from Mr. Cahill to Mr. Kreusi dated September 26, 1972.

As a result of the findings, and as provided for in the plant Quality Assurance program, an extensive inspection was carried out. Necessary repairs and retesting resulting from this inspection have been successfully completed. A summary of this effort is presented below:

Since the initial defects were traced to field-run

pipng, a program was established to examine field-run nuclear piping. This program embraced all lines within the Nuclear Steam Supply System and all Seismic Class 1 and 2 lines.

Approximately 10,000 weldments in vent/drain assemblies and field-run piping were inspected to assure acceptable conditions. These inspections included ultrasonic, radiographic, and visual techniques, as appropriate for each weldment.

As a result of this inspection program, the need for additional repairs similar to those stated above was indicated. These repairs were made in conformity with the requirements of the applicable Code for Pressure Piping, USAS B31.1.0, and applicable piping and welding specifications.

Although there was no evidence of improper materials in shop fabricated piping, a significant quantity (300 pieces) was measured for wall thickness with no deficiency being found. Also, during fillet weld inspection, over 4000

vendor welds were examined with no deficiency being found.

As a result of the exhaustive investigations and resultant repair program conducted in accordance with approved Quality Assurance procedures, all deficiencies have been repaired or replaced in accordance with applicable codes and specifications.