

ATTACHMENT C

Inservice Inspection and Testing Program
Page Revision

Consolidated Edison Company of New York, Inc.
Indian Point Unit No. 2
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INDIAN POINT NUCLEAR GENERATING UNIT NO. 2
INSERVICE INSPECTION PROGRAM - QUALITY GROUP A COMPONENTS

IWB 2600 ITEM NO.	IWB 2500 EXAM. CAT.	SYSTEM OR COMPONENT	FAB. CODE	AREA TO BE EXAMINED	EXAMINATION	SECTION XI CODE RELIEF
B5.1	B-G-1	Reactor Coolant Pumps (4)	III A	Pressure-retaining bolts & studs, in place	Volumetric	No - Note 39
B5.2	B-G-1	"	"	Pressure-retaining bolts & studs, when removed	Volumetric	Yes - Notes 39, 40, 41
B5.3	B-G-1	"	"	Pressure-retaining bolting	Visual	No - Note 39
B5.4	B-K-1	"	"	Integrally welded supports	Surface	Yes - Note 42
B5.5	B-K-2	"	"	Support components	Visual	No
B5.6	B-L-1	"	"	Pump casing welds	N/A	Yes - Note 43
B5.7	B-L-2	"	"	Pump casings	Visual	Yes - Note 44, 51
B5.8	B-P	"	"	Exempted components	Visual (IWA-5000)	No
B5.9	B-G-2	"	"	Pressure-retaining	Visual	No - Note 45
B6.1	B-G-1	Valves (93)	B31.1 B16.5 VIII III A	Pressure-retaining bolts & studs, in place	N/A	No - Note 30

areas due to thread root geometry and the inability to ensure the removal of all traces of thread lubricants which could interfere with examination results.

41. Volumetric and surface examinations of reactor coolant pump main flange bushings, threads and ligaments in base material is impractical due to component geometries and materials of construction. These component parts will be examined in accordance with the examination requirements of item 5.7 (reactor coolant pumps).
42. The reactor coolant pump supports consist of a cast foot welded to the pump casing (three supports per pump). There are no currently known techniques for ultrasonically examining these welds. Surface examination is substituted.
43. The reactor coolant pump casing is a weldment of four segments. At this time, although there are means of volumetrically inspecting the pump casing welds, such inspections will be deferred until the end of the second inspection interval which begins July 1984 because of the difficulties of performing the inspections. However, the pumps shall be visually examined during system leakage and hydrostatic tests per IWA-5000 and IWB-5000 of ASME Code Section XI. In addition, the exterior portion of the welds on one pump shall be surface examined per IWA-2222 during each inspection interval.
44. Reactor coolant pump main flange bushings, threads and ligaments in base material are subject to these examination requirements (see Note 41).
45. The only pressure retaining bolting associated with the reactor coolant pumps less than two inch diameter is the seal house bolting.
46. Each reactor coolant pump flywheel will be subject to an in-place visual and volumetric examination of the areas of higher stress concentration at the bore and keyway by the end of the first and second forty month inspection periods. A complete in place visual and volumetric examination of each flywheel will be performed at or near the end of the ten-year inspection interval.
47. The arrangements and details of the piping systems and components are such that some examinations as required by IWB-2600 are limited due to geometric configurations of accessibility. Generally, these limitations exist at pipe to fitting welds, where examination can only be fully performed from one side; the fitting geometry limiting or even precluding examination from the opposite side. Welds having such restrictions will be examined to the extent practical. Surface examinations may be utilized to augment volumetric examinations where practical.

49. Applicable construction codes required only visual examination of integral support welds. During inservice inspection, surface examination will be employed and indications previously accepted by visual examination may require further evaluation. Such indications will be evaluated in accordance with the as-constructed codes. Minor surface indications resulting from the original welding process which are determined not to be cracks or lack of fusion and not service connected will not require further action. These indications will not adversely affect overall weld integrity as evidenced by the satisfactory performance of these welds to date.
50. The piping system welds were constructed in accordance with, and satisfied the requirements of, the codes and specifications applicable at the time of construction. The integrity of these welds has been further verified by satisfactory performance during plant operation. The original fabrication codes and specifications did not require ultrasonic examination of welds. Conditions such as high and irregular weld crowns or rough surface finish may limit ultrasonic transducer contact to less than that required to completely scan the examination volume. In such instances, examinations will be performed to the extent practical consistent with these limitations. Such conditions shall be identified and documented in the examination results.
51. The internal pressure boundary surfaces of the reactor coolant pump casings are not accessible during normal operation or refueling outages. If removal of the pump internals is required during the inspection interval, there will be a visual examination of the internal surfaces of one disassembled pump casing to the extent permitted by the disassembly. Otherwise, the examination of the internal surfaces of one disassembled pump casing will be performed at or near the end of the second inspection interval coincidental with the pump casing welds inspection, item 5.1.