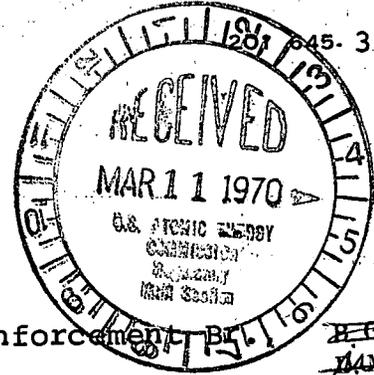


UNITED STATES
 ATOMIC ENERGY COMMISSION
 DIVISION OF COMPLIANCE
 REGION I
 970 BROAD STREET
 NEWARK, NEW JERSEY 07102



45-3944

March 10, 1970

J. P. O'Reilly, Chief, Reactor Inspection & Enforcement
 Division of Compliance, Headquarters

- ~~H. Grimes~~
- ~~M. Muller~~
- ~~R. Tedesco~~
- ~~C. Long~~
- ~~D. Ireland~~
- ~~D. Knuth~~

CONSOLIDATED EDISON COMPANY, INDIAN POINT NO. 2 (IP-2)
 DOCKET NO. 50-247

The enclosed Appendix A was inadvertently omitted from your copy of Co Inspection Report No. 247/70-1, issued on March 6, 1970.

R. T. Carlson
 R. T. Carlson
 Senior Reactor Inspector

Enclosure:
 Appendix A

- cc: *(circled)* R. S. Boyd, DRL
 S. Levine, DRL
 D. J. Skovholt, DRL
 L. Kornblith, Jr., CO
 CO:V
 REG File

B11120638 700310
 PDR ADDCK 05000247
 G PDR

CONSOLIDATED EDISON COMPANY
 Indian Point No. 2/
 CO Report No. 247/70-1
 Appendix A

In Depth Findings	Reference Section CO Report No. 247/69-12	FSAR Reference	Status	Compliance Follow-up required
A. Component Procurement				
1. Pressurizer Surge Nozzle - Not UT	II A 1	Table 4.5-1	Con Ed to pursue, UT to be performed or FSAR amended	Yes
2. Pressurize surge line pipe - Not PT	II A 7	Table 4.5-1	To be included in answer to Table A	Yes
3. Pressurizer safety valves - Not RT	II A 2	Table 4.5-1	At factory for reworking - To be included in Table A answer.	Yes
4. Pressurizer relief tank - ASME Section VIII vs III Class C	II A 5	Table 4.1-9	Corrective action in process	Yes
5. Boron Injection Tank Section VIII vs III Class C	II B 2	Table 6.2-1	Corrective action in process	Yes
6. Steam Generators Insulation Nut Plates - NDT	II A 4		MT to be performed following final hydrostatic testing	Yes
7. Reactor Coolant Pipe a. Spool - Mo 3.08% vs max allowed 3.0 % b. Spools not hydro- static tested	II A 5a II A 5b	Table 4.2-1 Table 4.2-1	Westinghouse Disposition previously issued. To be included in Table A answer	No Yes
8. HP-SIS pumps ASME 296 CA 15 vs A 351 CF 8 or CF 8 M	II B 3	Page 6.2-22	Material change authorized by Westinghouse - FSAR change required	Yes
9. Residual Heat Removal Pumps - chromium content 21-22.5 % vs 18-21 %	II B 3	Page 6.2-22	Material change authorized by Westinghouse - FSAR change required	Yes
10. Recirculation Pumps Bodies - No PT	II B 3	Table 6.2 - 13	To be resolved by performance of PT or FSAR change	Yes
11. HP-SIS M.O. valves 4-2" a. Chemical and physicals not traceable to valve b. No UT record.	II B 4	Page 6.2-26 Table 6.2 - 13	UT for 2 " forged valves normally is not performed. FSAR clarification necessary	Yes

In Depth Findings	Reference Section CO Report No. 247/69-12	FSAR Reference	Status	Compliance Follow-up required
B. Site Inspection Reactor Coolant System				
1. Some confusion exists relative to qualification of revised procedures.	III A 2a(1)	None	Con Ed has asked Westinghouse for clarification and has received an initial report.	Yes
2. UE&C radiographic interpreter not qualified to any level of of SNT-TC-1A	III A 2c		Not required by Code. Westinghouse makes final acceptance.	No
3. Bare stainless filler material identification only on containers and then dependent on paint color coding.	III A 2e		Questioned total deviseability. Practices in in effect seem to work.	No
4. Little evidence of written procedures for much of the work.	III A 2e		Ample evidence that work was performed in satisfactory manner.	No
C. Site-Safety Injection System				
1. Welder qualifications to two separate procedures rather than latest combined procedure.	III B 2a		Con Ed agreed to pursue this matter.	Yes
2. No written procedures covering scope, acceptance criteria and responsibilities for welding inspections.	III B 2b		Does not meet todays QA-QC criteria. Practices in effect seem to work well.	No
3. Procedures for receiving inspection, storage and control of electrodes are lacking.	III B 2c		Same as C.2 above.	No
4. The existence of a 2" section of pipe in spool SI 204.	III B 2d		Has been reviewed by UE&C engineering. Con Ed stated that the condition is not in conflict with the requirements of B 31.1.	Yes
5. Westinghouse, Wedco and Con Ed had not evaluated Brance Labs. NDT Procedures	III B 2e		To be evaluated by Con Ed and Westinghouse.	Yes
6. Internals for Residual Heat Removal Pumps returned to vendor. Records indicate installed.	III B 2f		Has implication on maintenance records. Westinghouse to investigate and respond.	Yes

In Depth Findings	Reference Section CO Report No. 247/69-12	FSAR Reference	Status	Compliance Follow-up required
7. Visual examination indicated a weakness in first line QC. i.e. grinding, weld spatter, arc strikes, and fitup.	III B 2f	None	Final surface inspections to be performed by Wedco and Con Ed; and system cleanup is to be accomplished.	Yes
D. Site - Electrical				
1. Checks of cable design by Westinghouse or Con Ed lacking.	IV A&D 2b		Westinghouse and Con Ed have initiated design reviews of cable routing and separation of redundant channels.	Yes
2. Independent QC on electrical installation is lacking.	IV A&C		Westinghouse stated that Wedco has been directed to perform a field audit of the installation.	Yes
3. Electrical installation control is an area of concern.	IV D 2a		Westinghouse is presently evaluating condition to determine corrective action possibilities.	Yes
4. Cable found to change trays in tunnel passing over redundant cables.	IV D 2c		Cable removed.	No
5. HP SIS pump cables lack separation.	IV D 2d		Considering extension of conduits.	Yes
6. Fire mains in vicinity of 480 V switchgear.	IV D 5		Wall and door to be installed.	Yes
7. Con Ed pointed out one unspecified cable splice.	IV D 4		Cable to be removed.	Yes
8. Emergency Diesel Control Cables lack separation at tunnel	IV D 9		To be evaluated.	Yes
E. Items of Questionable Design Adequacy				
1. Power supply to valving at SIS boron tank.	IV D 2		Additional valve to be installed and power supply to be altered.	Yes
2. Single electrical penetration area.	IV D 4		Awaiting DRL evaluation.	Yes
3. 480 volt switchgear room.	IV D 5		Air line pipe whip potential to be evaluated.	Yes
4. Single electrical tunnel.	IV D 6d		Awaiting DRL evaluation.	Yes
5. SIS Manual Actuation Panels.	IV D 7b		Awaiting DRL evaluation.	Yes
6. Diesel generators - common room - common control console.	IV D 9		Awaiting DRL evaluation.	Yes

In Depth Findings	Reference Section CO Report No. 247/69-12	FSAR Reference	Status	Compliance Follow-up required
7. Battery Room ventilation not redundant. Florescent lighting in Battery Room.	IV D 8a&b	None	Acceptable to Con Ed and Westinghouse. DRL evaluating.	Yes
8. Lack of separation between safety injection pumps.	IV D 11c		Awaiting DRL evaluation.	Yes

CONSOLIDATED EDISON COMPANY
 Indian Point No. 2
 CO Report No. 247/70-1
 Appendix A

In Depth Findings	Reference Section CO Report No. 247/69-12	FSAR Reference	Status	Compliance Follow-up required
A. Component Procurement				
1. Pressurizer Surge Nozzle - Not UT	II A 1	Table 4.5-1	Con Ed to pursue, UT to be performed or FSAR amended	Yes
2. Pressurize surge line pipe - Not PT	II A 7	Table 4.5-1	To be included in answer to Table A	Yes
3. Pressurizer safety valves - Not RT	II A 2	Table 4.5-1	At factory for reworking - To be included in Table A answer.	Yes
4. Pressurizer relief tank - ASME Section VIII vs III Class C	II A 5	Table 4.1-9	Corrective action in process	Yes
5. Boron Injection Tank Section VIII vs III Class C	II B 2	Table 6.2-1	Corrective action in process	Yes
6. Steam Generators Insulation Nut Plates - NDT	II A 4		MT to be performed following final hydrostatic testing	Yes
7. Reactor Coolant Pipe a. Spool - Mo 3.08% vs max allowed 3.0%	II A 5a	Table 4.2-1	Westinghouse Disposition previously issued.	No
b. Spools not hydrostatic tested	II A 5b	Table 4.2-1	To be included in Table A answer	Yes
8. HP-SIS pumps ASME 296 CA 15 vs A 351 CF 8 or CF 8 M	II B 3	Page 6.2-22	Material change authorized by Westinghouse - FSAR change required	Yes
9. Residual Heat Removal Pumps - chromium content 21-22.5 % vs 18-21 %	II B 3	Page 6.2-22	Material change authorized by Westinghouse - FSAR change required	Yes
10. Recirculation Pumps Bodies - No PT	II B 3	Table 6.2 - 13	To be resolved by performance of PT or FSAR change	Yes
11. HP-SIS M.O. valves 4-2" a. Chemical and physicals not traceable to valve b. No UT record	II B 4	Page 6.2-26 Table 6.2 - 13	UT for 2 " forged valves normally is not performed. FSAR clarification necessary	Yes

In Depth Findings	Reference Section CO Report No. 247/69-12	FSAR Reference	Status	Compliance Follow-up required
B. Site Inspection Reactor Coolant System				
1. Some confusion exists relative to qualification of revised procedures.	III A 2a(1)	None	Con Ed has asked Westinghouse for clarification and has received an initial report.	Yes
2. UE&C radiographic interpreter not qualified to any level of of SNT-TC-1A	III A 2c		Not required by Code. Westinghouse makes final acceptance.	No
3. Bare stainless filler material identification only on containers and then dependent on paint color coding.	III A 2e		Questioned total deviseability. Practices in effect seem to work.	No
4. Little evidence of written procedures for much of the work.	III A 2e		Ample evidence that work was performed in satisfactory manner.	No
C. Site-Safety Injection System				
1. Welder qualifications to two separate procedures rather than latest combined procedure.	III B 2a		Con Ed agreed to pursue this matter.	Yes
2. No written procedures covering scope, acceptance criteria and responsibilities for welding inspections.	III B 2b		Does not meet today's QA-QC criteria. Practices in effect seem to work well.	No
3. Procedures for receiving inspection, storage and control of electrodes are lacking.	III B 2c		Same as C.2 above.	No
4. The existence of a 2" section of pipe in spool SI 204.	III B 2d		Has been reviewed by UE&C engineering. Con Ed stated that the condition is not in conflict with the requirements of B 31.1.	Yes
5. Westinghouse, Wedco and Con Ed had not evaluated Brance Labs. NDT Procedures	III B 2e		To be evaluated by Con Ed and Westinghouse.	Yes
6. Internals for Residual Heat Removal Pumps returned to vendor. Records indicate installed.	III B 2f		Has implication on maintenance records. Westinghouse to investigate and respond.	Yes

In Depth Findings	Reference Section CO Report No. 247/69-12	FSAR Reference	Status	Compliance Follow-up required
7. Visual examination indicated a weakness in first line QC. i.e. grinding, weld spatter, arc strikes, and fitup.	III B 2f	None	Final surface inspections to be performed by Wedco and Con Ed; and system cleanup is to be accomplished.	Yes
D. Site - Electrical				
1. Checks of cable design by Westinghouse or Con Ed lacking.	IV A&D 2b		Westinghouse and Con Ed have initiated design reviews of cable routing and separation of redundant channels.	Yes
2. Independent QC on electrical installation is lacking.	IV A&C		Westinghouse stated that Wedco has been directed to perform a field audit of the installation.	Yes
3. Electrical installation control is an area of concern.	IV D 2a		Westinghouse is presently evaluating condition to determine corrective action possibilities.	Yes
4. Cable found to change trays in tunnel passing over redundant cables.	IV D 2c		Cable removed.	No
5. HP SIS pump cables lack separation.	IV D 2d		Considering extension of conduits.	Yes
6. Fire mains in vicinity of 480 V switchgear.	IV D 5		Wall and door to be installed.	Yes
7. Con Ed pointed out one unspecified cable splice.	IV D 4		Cable to be removed.	Yes
8. Emergency Diesel Control Cables lack separation at tunnel	IV D 9		To be evaluated.	Yes
E. Items of Questionable Design Adequacy				
1. Power supply to valving at SIS boron tank.	IV D 2		Additional valve to be installed and power supply to be altered.	Yes
2. Single electrical penetration area.	IV D 4		Awaiting DRL evaluation.	Yes
3. 480 volt switchgear room.	IV D 5		Air line pipe whip potential to be evaluated.	Yes
4. Single electrical tunnel.	IV D 6d		Awaiting DRL evaluation.	Yes
5. SIS Manual Actuation Panels.	IV D 7b		Awaiting DRL evaluation.	Yes
6. Diesel generators - common room-common control console.	IV D 9		Awaiting DRL evaluation.	Yes

In Depth Findings	Reference Section CO Report No. 247/69-12	FSAR Reference	Status	Compliance Follow-up required
7. Battery Room ventilation not redundant. Florescent lighting in Battery Room.	IV D 8a&b	None	Acceptable to Con Ed and Westinghouse. DRL evaluating.	Yes
8. Lack of separation between safety injection pumps.	IV D 11c		Awaiting DRL evaluation.	Yes