

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

In the Matter of	)	
	)	
CONSOLIDATED EDISON COMPANY	)	Docket No. 50-247
OF NEW YORK INC.	)	
(Indian Point Station,	)	
Unit No. 2)	)	

APPLICATION FOR AMENDMENT TO  
OPERATING LICENSE

Pursuant to Section 50.90 of the Regulations of the Nuclear Regulatory Commission, Consolidated Edison Company of New York, Inc., ("Consolidated Edison"), as holder of Facility Operating License No. DPR-26, hereby requests that Section 3.12 of the Technical Specifications set forth in Appendix A to that license be amended. The proposed amendment consists of changes to Table 3.12-1 to reflect redesign of the support systems of certain safety-related pipe lines for the purpose of improving the reliability of those support systems.

The proposed Technical Specification changes consist of the specific revisions set forth in Attachment A to this Application. In addition, a Safety Evaluation of the proposed changes is set forth in Attachment B to this Application. This evaluation demonstrates

790215032-1

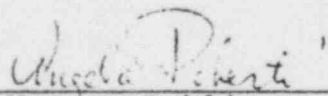
that the proposed changes do not represent a significant hazards consideration and will not cause any change in the types or an increase in the amounts of effluents or any change in the authorized power level of the facility.

CONSOLIDATED EDISON COMPANY OF  
NEW YORK, INC.

By: 

William J. Cahill, Jr.  
Vice President

Subscribed and sworn to  
before me this 9<sup>th</sup> day of  
February, 1979.

  
Notary Public  
ANGELA ROBERTI  
Notary Public, State of New York  
No. 41-8593813  
Qualified in Queens County  
Commission Expires March 30, 1980

ATTACHMENT A

APPLICATION FOR AMENDMENT  
TO OPERATING LICENSE

Technical Specification  
Page Revisions

Consolidated Edison Company of New York, Inc.

Indian Point Unit No. 2  
Docket No. 50-247  
Facility Operating License No. DPR-26

February, 1979

TABLE 3.12 - 1 (SHEET 1 OF 18)

Safety Related Shock Suppressors (Snubbers)

<u>Line No.</u>	<u>Snubber No.</u>	<u>Location (Approx.)</u>	<u>Category</u>
1	MSR-2V	VC EL 101'-0"	3
1	SR-M4	AFB EL 62'-10"	4
1	SR-M5A	AFB EL 62'-10"	4
1	SR-M5B	AFB EL 62'-10"	4
2	SR-M2	AFB EL 75'-6"	4
2	SR-M3A	AFB EL 75'-6"	4
2	SR-M3B	AFB EL 75'-6"	4
2	SR-M1	AFB EL 75'-6"	4
2	SR-M50	AFB EL 75'-6"	4
2	SR-M51	AFB EL 75'-6"	4
3	MSR-1V	VC EL 101'-0"	3
3	SR-M6	AFB EL 75'-6"	4
3	SR-M7	AFB EL 75'-6"	4
3	SR-M8A (two)	AFB EL 75'-6"	4
3	SR-M8E	AFB EL 75'-6"	4
3	SR-M53	AFB EL 75'-6"	4
4	SR-M9	AFB EL 62'-10"	4
4	SR-M10A	AFB EL 62'-10"	4
4	SR-M10B	AFB EL 62'-10"	4
4	SR-M55	AFB EL 62'-10"	4
4	SR-M56	AFB EL 62'-10"	4
5	SR-B-3	AFB EL 39'-6"	4
5	SR-B-4 **	AFB EL 39'-6"	4
5	SR-B-9 **	AFB EL 35'-0"	4
6	BF-SR-9	VC EL 59'-6"	3
6	SR-B1	AFB EL 41'-0"	4

Amendment No.

TABLE 3.12 - 1 (SHEET 2 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
6	SR-B2**	AFB EL 40'-0"	4
7	SR-B7	AFB EL 40'-7"	4
7	SR-B8**	AFB EL 41'-0"	4
8	SR-B5	AFB EL 39'-6"	4
8	SR-B6**	AFB EL 39'-6"	4
8	SR-B10**	AFB EL 35'-0"	4
9	9-SR-1**	VC EL 59'-6"	3
9	SR-55	PAB EL 27'-0"	4
9	SR-56**	PAB EL 45'-0"	4
9	SR-57**	PAB EL 47'-0"	4
9	SR-58**	PAB EL 52'-6"	4
9	SR-59**	PAB EL 52'-6"	4
9	SR-801**	VC EL 56'-0"	3
9	SR-802**	VC EL 54'-7"	3
9	SR-803**	VC EL 54'-7"	3
9	SR-803A**	VC EL 54'-7"	3
9	SR-804**	VC EL 54'-3"	3
9	SR-805**	VC EL 54'-7"	3
10	SR-60**	PAB EL 52'-6"	4
10	SR-61**	PAB EL 52'-6"	4
10	SR-62**	PAB EL 47'-0"	4
10	SR-63**	PAB EL 45'-0"	4
10	SR-65	PAB EL 27'-0"	4
10	SR-807	VC EL 59'-6"	3
10	SR-807A**	VC EL 59'-6"	3
10	10-SR-807B**	VC EL 59'-6"	3

Amendment No.

TABLE 3.12 - 1 (SHEET 3 OF 18)

Safety Related Shock Suppressors (Snubbers)

<u>Line No.</u>	<u>Snubber No.</u>	<u>Location (Approx.)</u>	<u>Category</u>
10	SR-807C**	VC EL 59'-6"	3
10	SR-808**	VC EL 59'-6"	3
10	SR-809	VC EL 59'-6"	3
10	SR-809A	VC EL 59'-6"	3
10	SR-810**	VC EL 59'-6"	3
10	SR-811**	VC EL 58'-2"	3
13	13-SR-1	VC EL 58'-0"	3
13	SR-935	VC EL 69'-0"	3
13	SR-936	VC EL 76'-9"	3
13	SR-937	VC EL 84'-0"	3
13	SR-937A	VC EL 84'-0"	3
13	SR-938	VC EL 84'-9"	3
13	SR-939	VC EL 76'-2"	3
13	SR-1027A	VC EL 84'-6"	3
13	SR-1028**	VC EL 75'-0"	3
13	SR-1028A**	VC EL 76'-8"	3
13	SR-1029A**	VC EL 76'-0"	3
13	SR-1030	VC EL 68'-0"	3
13	SR-1030A	VC EL 68'-0"	3
13	SR-1031	VC EL 76'-0"	3
13	SR-1032	VC EL 76'-8"	3
13	SR-1037	VC EL 83'-7"	3
13	SR-1037A	VC EL 83'-7"	3
13	SR-1051	VC EL 84'-3"	3
13	SR-1052	VC EL 76'-9"	3
13	SR-1053	VC EL 68'-0"	3

Amendment No.

TABLE 3.12 - 1 (SHEET 4 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
13	SR-1059**	VC EL 84'-0"	3
13	SR-1060	VC EL 76'-0"	3
13	SR-1079	VC EL 68'-0"	3
13	SR-1080	VC EL 75'-0"	3
13	SR-1081**	VC EL 68'-0"	3
13	SR-1099	VC EL 82'-0"	3
13	SR-1100	VC EL 76'-0"	3
13	SR-1101**	VC EL 68'-0"	3
13	SR-1102**	VC EL 68'-0"	3
13	SR-1103	VC EL 76'-0"	3
13	SR-1104	VC EL 82'-0"	3
13	SR-1105	VC EL 65'-10"	3
13	13-SR-1105A	VC EL 66'-6"	3
13	SR-1106	VC EL 65'-10"	3
13	SR-1124	VC EL 76'-6"	3
14	14-SR-1	VC EL 83'-0"	3
14	14-SR-2**	VC EL 57'-0"	3
14	SR-925	VC EL 84'-9"	3
14	SR-927	VC EL 81'-6"	3
14	SR-927A	VC EL 81'-6"	3
14	SR-928	VC EL 75'-9"	3
14	SR-928A	VC EL 76'-4"	3
14	SR-929**	VC EL 75'-3"	3
14	SR-931**	VC EL 76'-10"	3
14	SR-969	VC EL 76'-0"	3
14	SR-970	VC EL 75'-0"	3

Amendment No.



TABLE 3.12 - 1 (SHEET 5 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
14	SR-971	VC EL 74'-2"	3
14	SR-1035	VC EL 73'-0"	3
14	SR-1036A	VC EL 76'-0"	3
14	SR-1039A	VC EL 84'-0"	3
14	SR-1040A	VC EL 84'-0"	3
14	SR-1041**	VC EL 77'-0"	3
14	SR-1042	VC EL 75'-9"	3
14	SR-1045A**	VC EL 76'-6"	3
14	SR-1048**	VC EL 76'-6"	3
14	SR-1049	VC EL 75'-8"	3
14	SR-1050	VC EL 84'-3"	3
14	SR-1056**	VC EL 75'-0"	3
14	SR-1057	VC EL 84'-3"	3
14	SR-1083	VC EL 78'-5"	3
14	SR-1084	VC EL 78'-0"	3
14	SR-1093	VC EL 76'-8"	3
14	SR-1094	VC EL 69'-0"	3
14	SR-1095	VC EL 76'-8"	3
14	SR-1096	VC EL 69'-0"	3
14	SR-1097**	VC EL 73'-9"	3
14	SR-1098**	VC EL 73'-9"	3
14A	SR-954	VC EL 66'-6"	3
14A	SR-955**	VC EL 71'-0"	3
14A	SR-955A**	VC EL 71'-0"	3
14A	SR-956**	VC EL 75'-1"	3



TABLE 3.12 - 1 (SHEET 6 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
14A	SR-1001	VC EL 68'-8"	3
14A	SR-1002	VC EL 69'-0"	3
14A	SR-1002A**	VC EL 69'-0"	3
14A	SR-1003**	VC EL 76'-8"	3
14A	SR-1003A**	VC EL 76'-0"	3
14A	SR-1075	VC EL 70'-6"	3
14A	SR-1076	VC EL 66'-3"	3
14A	SR-1078	VC EL 70'-3"	3
14A	SR-1120	VC EL 68'-8"	3
14A	SR-1122	VC EL 69'-0"	3
14A	SR-1123	VC EL 68'-8"	3
14A	SR-1077	VC EL 70'-6"	3
15	SR-1B**	PAB EL 76'-0"	4
15	SR-7**	PAB EL 76'-0"	4
15	SR-8**	PAB EL 76'-0"	4
15	SR-8A**	PAB EL 74'-0"	4
15	SR-8B**	PAB EL 74'-8"	4
15	SR-8C (two)**	PAB EL 72'-0"	4
15	SR-11A**	PAB EL 64'-9"	4
15	SR-13B**	PAB EL 61'-9"	4
16	SR-83B**	PAB EL 68'-9"	4
16	SR-83C**	PAB EL 68'-9"	4
16	56-SR-1	VC EL 61'-3"	3
17	17-SR-1	VC EL 58'-0"	3
17	17-SR-2	VC EL 58'-0"	3
17	17-SR-3	VC EL 58'-0"	3

TABLE 3.12 - 1 (SHEET 7 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
17	17-SR-4	VC EL 58'-0"	3
17	SR-941	VC EL 75'-7"	3
17	SR-941A	VC EL 75'-7"	3
17	SR-1010	VC EL 76'-6"	3
17	SR-1015**	VC EL 79'-0"	3
17	SR-1063**	VC EL 76'-9"	3
17	SR-1065**	VC EL 76'-9"	3
17	SR-1069	VC EL 76'-0"	3
17	SR-1112	VC EL 68'-0"	3
17	SR-1113	VC EL 69'-0"	3
17	SR-1116	VC EL 65'-0"	3
17	SR-1117	VC EL 65'-0"	3
17	SR-1118	VC EL 69'-0"	3
19	SR-896	VC EL 57'-6"	3
27	SR-898**	VC EL 58'-3"	3
38	38-SR-11	VC EL 59'-3"	3
38	38-SR-20	VC EL 55'-0"	3
38	38-SR-21	VC EL 60'-0"	3
38	38-SR-22	VC EL 60'-0"	3
38	38-SR-23	VC EL 60'-0"	3
38	38-SR-24	VC EL 60'-0"	3
41	SR-948A**	VC EL 77'-0"	3
41	SR-949**	VC EL 76'-9"	3
41	SR-952	VC EL 76'-0"	3
41	SR-952A**	VC EL 76'-0"	3
41	SR-953	VC EL 68'-0"	3
41	SR-953A	VC EL 65'-0"	3

Amendment No.

TABLE 3.12 - 1 (SHEET 8 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
42	SR-1107**	VC EL 68'-0"	3
42	SR-1108**	VC EL 69'-0"	3
42	SR-1109**	VC EL 65'-0"	3
42	SR-1111**	VC EL 69'-0"	3
43	SR-1020**	VC EL 80'-0"	3
43	SR-1020A	VC EL 81'-0"	3
43	SR-1021**	VC EL 75'-0"	3
43	SR-1022**	VC EL 75'-0"	3
43	SR-1024A	VC EL 74'-5"	3
43	SR-1025A	VC EL 69'-11"	3
43	SR-1026	VC EL 68'-9"	3
44	SR-1072	VC EL 68'-3"	3
44	SR-1073	VC EL 68'-7"	3
45	45-SR-9	VC EL 65'-7"	3
45	45-SR-30	Penetration Area EL 64'-0"	4
46	46-SR-2	VC EL 69'-0"	3
46	46-SR-3	VC EL 69'-0"	3
46	46-SR-30	Penetration Area EL 64'-0"	4
47	47-SR-30	Penetration Area EL 64'-0"	4
48	48-SR-30	Penetration Area EL 64'-0"	4
51	SR-20**	PAB EL 76'-0"	4
51	SR-21**	PAB EL 76'-0"	4
51	SR-21A**	PAB EL 75'-0"	4
51	SR-21B**	PAB EL 74'-9"	4
51	SR-21C (two)**	PAB EL 72'-0"	4
51	SR-24A**	PAB EL 64'-9"	4

Amendment No.

TABLE 3.12 - 1 (SHEET 9 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
51	SR-26B**	Penetration Area EL 61'-0"	4
52	52-SR-1**	VC EL 55'-0"	3
53	53-SR-1**	VC EL 55'-0"	3
53	53-SR-2**	VC EL 56'-9"	3
56	56-SR-6	VC EL 55'-6"	3
56	56-SR-12	VC EL 63'-3"	3
56	56-SR-26	VC EL 50'-9"	3
56	SR-83E**	PAB EL 66'-0"	4
57	SR-64**	PAB EL 32'-0"	4
60	SR-73A	PAB EL 71'-0"	4
60	SR-76A**	PAB EL 64'-8"	4
60	SR-77A**	PAB EL 47'-8"	4
60	SR-83A**	PAB EL 67'-3"	4
60	SR-83D**	PAB EL 67'-3"	4
60	SR-703 (two)	VC EL 55'-0"	3
60	SR-746A	VC EL 64'-6½"	3
60	SR-746B	VC EL 64'-6½"	3
60	SR-746C	VC EL 57'-0"	3
61	SR-881	VC EL 64'-2½"	3
61	SR-887	VC EL 68'-3"	3
61	SR-888**	VC EL 68'-3"	3
61	SR-890**	VC EL 78'-0"	3
62	SR-922A	VC EL 68'-0"	3
62	SR-922B	VC EL 68'-0"	3
62	SR-924	VC EL 70'-0"	3
62	SR-924A**	VC EL 70'-0"	3

Amendment No.

TABLE 3.12 - 1 (SHEET 10 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
64	64-SR-15**	VC EL 58'-0"	3
64	64-SR-20**	VC EL 47'-9"	3
70	70-SR-3	VC EL 85'-9½"	3
70	70-SR-4	VC EL 66'-10"	3
70	70-SR-5	VC EL 68'-6"	3
70	70-SR-6	VC EL 103'-0"	3
70	70-SR-10	VC EL 123'-9"	3
70	70-SR-11	VC EL 123'-9"	3
70	70-SR-12	VC EL 123'-9"	3
70	70-SR-13	VC EL 123'-9"	3
70	70-SR-14	VC EL 127'-3"	3
70	RCS-5	VC EL 102'-3 3/4"	3
70	RCS-6	VC EL 103'-0"	3
70	70-RCS-5A	VC EL 103'-0"	3
71	71-SR-1	VC EL 80'-0"	3
71	SR-963	VC EL 76'-0"	3
71	SR-964	VC EL 68'-0"	3
71	SR-964A	VC EL 68'-6"	3
71	SR-967A	VC EL 63'-10"	3
72	72-SR-1	VC EL 80'-0"	3
72	SR-1125	VC EL 80'-0"	3
72	SR-1126	VC EL 70'-0"	3
72	SR-1127	VC EL 70'-0"	3
72	SR-1128	VC EL 72'-0"	3
72	SR-1129	VC EL 63'-0"	3
72	SR-1131	VC EL 64'-0"	3

Amendment No.

TABLE 3.12 - 1 (SHEET 11 of 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
73	SR-1016**	VC EL 76'-3"	3
73	SR-1016A	VC EL 76'-7"	3
73	SR-1017	VC EL 69'-1"	3
73	SR-1017A	VC EL 69'-0"	3
73	SR-1017B	VC EL 69'-0"	3
73	SR-1018A	VC EL 69'-0"	3
73	73-SR-1**	VC EL 80'-0"	3
74	74-SR-1	VC EL 80'-4"	3
74	SR-1085	VC EL 67'-8"	3
74	SR-1086	VC EL 68'-9"	3
74	SR-1087	VC EL 68'-11"	3
74	SR-1087A	VC EL 70'-4"	3
74	SR-1088**	VC EL 80'-4"	3
74	SR-1089	VC EL 68'-9"	3
74	SR-1090**	VC EL 67'-8"	3
74	SR-1092	VC EL 71'-0"	3
76	76-H-15	VC EL 65'-0"	3
78	78-SR-1	VC EL 70'-6"	3
79	SR-901**	VC EL 51'-0"	3
79	SR-902	VC EL 56'-6"	3
79	SR-903**	VC EL 56'-6"	3
79	SR-904**	VC EL 56'-6"	3
79	SR-905**	VC EL 56'-6"	3
79	SR-906**	VC EL 56'-6"	3
79	SR-907	VC EL 56'-6"	3
79	SR-908	VC EL 56'-6"	3
79	SR-909**	VC EL 56'-6"	3

Amendment No.



TABLE 3.12 - 1 (SHEET 12 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
79	SR-910**	VC EL 56'-6"	3
79	SR-911**	VC EL 46'-3"	3
79	SR-911A**	VC EL 55'-0"	3
80	SR-915B**	VC EL 58'-0"	3
80	SR-916**	VC EL 58'-0"	3
80	SR-920A	VC EL 58'-8"	3
80	SR-920B**	VC EL 58'-0"	3
93	SR-752	VC EL 73'-9"	3
93	SR-752A	VC EL 73'-9"	3
93	SR-753	VC EL 85'-3"	3
94	SR-759	VC EL 85'-3"	3
96	SR-913**	VC EL 58'-0"	3
155	SR-50A	PAB EL 25'-0"	4
163	SR-250	PAB EL 68'-6"	4
163	SR-250A	PAB EL 68'-6"	4
163	163-SR-5	Penetration Area EL 48'-0"	4
250	250-SR-1	PAB EL 110'-0"	4
293	SR-761	VC EL 49'-2"	3
293	SR-762**	VC EL 62'-0"	3
293	SR-762A**	VC EL 62'-0"	3
293	SR-763**	VC EL 53'-0"	3
293	SR-763A	VC EL 50'-0"	3
293	SR-764**	VC EL 68'-6"	3
317	317-SR-1	VC EL 65'-0"	3
317	SR-766	VC EL 57'-0"	3
317	SR-766A	VC EL 53'-6"	3



TABLE 3.12 - 1 (SHEET 13 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
318	318-SR-1**	VC EL 3'-6"	3
318	318-SR-2**	VC EL 57'-0"	3
318	318-SR-3**	VC EL 66'-8"	3
318	318-SR-5**	VC EL 88'-2"	3
342	342-SR-6	VC EL 103'-0"	3
343	343-SR-5	VC EL 103'-0"	3
344	344-SR-4	VC EL 103'-0"	3
350	PWR-156**	VC EL 63'-6"	3
351	PWR-127	VC EL 60'-0"	3
351	PWR-128	VC EL 55'-0"	3
351	PWR-129	VC EL 55'-0"	3
351	SR-742**	VC EL 56'-2 7/8"	3
351	351-SR-1	VC EL 55'-0"	3
352	PWR-152	VC EL 66'-6"	3
352	SR-713**	VC EL 51'-0"	3
352	352-SR-2**	VC EL 63'-0"	3
353	PWR-147A	VC EL 60'-0"	3
353	PWR-148	VC EL 48'-9"	3
353	SR-736	VC EL 47'-3 1/4"	3
353	SR-737	VC EL 48'-9"	3
353	SR-737A	VC EL 58'-6"	3
355	SR-748	VC EL 56'-0"	3
356	356-SR-1**	VC EL 55'-3"	3
356	SR-708**	VC EL 55'-3"	3
356	SR-714**	VC EL 61'-6"	3
356	SR-715**	VC EL 61'-6"	3

TABLE 3.12 - 1 (SHEET 14 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
356	SR-716	VC EL 61'-6"	3
356	SR-717**	VC EL 61'-6"	3
356	SR-718**	VC EL 61'-6"	3
356	SR-718A	VC EL 55'-3"	3
356	SR-720	VC EL 55'-3"	3
356	SR-747**	VC EL 53'-10"	3
358	SR-738B	VC EL 55'-1 3/4"	3
358	SR-738A	VC EL 55'-4 1/8"	3
361	SR-732A	VC EL 65'-0"	3
361	SR-749	VC EL 53'-6"	3
361	SR-749A	VC EL 57'-0"	3
361	SR-749B	VC EL 55'-0"	3
361	SR-749C	VC EL 53'-6"	3
361	SR-755	VC EL 56'-9"	3
361	SR-756	VC EL 71'-6"	3
361	361-SR-10	VC EL 61'-6"	3
413	SR-376A**	DGB EL 91'-6"	4
413	SR-395A**	DGB EL 77'-6"	4
414	SR-377A**	DGB EL 93'-7"	4
414	SR-396A**	DGB EL 88'-0"	4
518	SR-71A	PAB EL 70'-0"	4
577	577-SR-1	VC EL 65'-1 1/2"	3
577	577-SR-5	VC EL 59'-6"	3
577	577-SR-13	VC EL 54'-11"	3
577	577-SR-15	VC EL 56'-6"	3
577	577-SR-17	VC EL 62'-0"	3

TABLE 3.12 - 1 (SHEET 15 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
V-2	SR-V20A	AFB EL 55'-2"	4
V-2	SR-V20B	AFB EL 55'-2"	4
V-3	SR-M29	AFB EL 65'-10"	4
V-3	SR-M30	AFB EL 64'-0"	4
V-3	SR-M31	AFB EL 64'-0"	4
V-3	SR-M32**	AFB EL 76'-10"	4
V-3	SR-M33	AFB EL 83'-6"	4
V-4	SR-M25	AFB EL 78'-6"	4
V-4	SR-M26**	AFB EL 74'-0"	4
V-4	SR-M27	AFB EL 76'-0"	4
V-4	SR-M52	AFB EL 76'-0"	4
V-4	SR-M28**	AFB EL 85'-6"	4
V-5	SR-M34	AFB EL 76'-3"	4
V-5	SR-M35	AFB EL 73'-6"	4
V-5	SR-M36	AFB EL 73'-6"	4
V-5	SR-M37	AFB EL 76'-3"	4
V-5	SR-M38	AFB EL 85'-0"	4
V-5	SR-M54	AFB EL 76'-2"	4
V-6	SR-M39	AFB EL 64' 2"	4
V-6	SR-M40	AFB EL 64'-2"	4
V-6	SR-M41	AFB EL 64'-0 1/2"	4
V-6	SR-M42**	AFB EL 83'-0"	4
V-6	SR-M43**	AFB EL 83'-0"	4
PCA-2	SR-418**	AFB EL 65'-3"	4
PCA-3	SR-432**	AFB EL 60'-3"	4
MS-3	SR-M20A**	AFB EL 27'-5"	4

Amendment No.

TABLE 3.12 - 1 (SHEET 16 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
MS-3	SR-M21A**	AFB EL 20'-6"	4
MS-3	SR-M20B**	AFB EL 27'-5"	4
MS-3	SR-M21B**	AFB EL 20'-6"	4
MS-3	SR-M22A**	AFB EL 26'-7"	4
MS-3	SR-M22B**	AFB EL 26'-7"	4
MS-3	SR-M23B**	AFB EL 27'-6"	4
MS-3	SR-M24**	AFB EL 27'-6"	4
MS-3	SR-499	AFB EL 68'-0"	4
MS-3	SR-500**	AFB EL 68'-0"	4
MS-3	SR-501	AFB EL 68'-0"	4
MS-3	SR-501A**	AFB EL 65'-1"	4
MS-3	SR-501B**	AFB EL 65'-1"	4
MS-3	SR-502**	AFB EL 66'-0"	4
MS-3	SR-503	AFB EL 66'-8"	4
MS-3	SR-503A**	AFB EL 65'-11"	4
MS-3	SR-503B**	AFB EL 65'-1"	4
MS-3	SR-504**	AFB EL 58'-10"	4
MS-3	SR-505**	AFB EL 55'-10"	4
MS-3	SR-506**	AFB EL 51'-7"	4
MS-3	SR-507**	AFB EL 38'-6"	4
MS-3	SR-507A**	AFB EL 48'-5 1/8"	4
MS-3	SR-507B**	AFB EL 48'-7 5/8"	4
MS-3	SR-507C**	AFB EL 35'-5 7/8"	4
MS-3	MS-SR-129***	AFB EL 55'-10"	4
BFD	SR-A8**	AFB EL 49'-10"	4
BFD	SR-A9**	AFB EL 51'-4"	4
BFD	SR-A10**	AFB EL 52'-10"	4

Amendment No.

TABLE 3.12 - 1 (SHEET 17 OF 18)

Safety Related Shock Suppressors (Snubbers)

Line No.	Snubber No.	Location (Approx.)	Category
BFD	SR-A11**	AFB EL 28'-6"	4
BFD	SR-A13**	AFB EL 25'-9"	4
BFD	SR-A24**	AFB EL 54'-4"	4
BFD	SR-464A**	AFB EL 54'-4"	4
BFD	SR-465A**	AFB EL 52'-4"	4
BFD	SR-466A**	AFB EL 51'-0"	4
BFD	SR-471A**	AFB EL 20'-0"	4
BFD	SR-472A**	AFB EL 27'-0"	4
BFD	SR-473A**	AFB EL 20'-0"	4
BFD	SR-474A**	AFB EL 20'-0"	4
BFD	SR-475A**	AFB EL 20'-0"	4
BFD	SR-484A**	AFB EL 19'-0"	4
BFD	SR-486A**	AFB EL 19'-0"	4
BFD	SR-490A**	AFB EL 19'-0"	4
BFD	SR-492A**	AFB EL 19'-0"	4
BFD	SR-494A**	AFB EL 26'-6"	4
BFD	SR-496A**	AFB EL 26'-6"	4
Steam Gen.			
#21	SG21-1 thru SG21-4	VC-E1.94'	2,3
#21	SG21-5 and SG21-6	VC-E1.46'	2,3
#22	SG22-1 thru SG22-4	VC-E1.94'	2,3
#22	SG22-5 and SG22-6	VC-E1.46'	2,3
#23	SG23-1 thru SG23-4	VC-E1.94'	2,3
#23	SG23-5 and SG23-6	VC-E1.46'	2,3
#24	SG24-1 thru SG24-4	VC-E1.94'	2,3
#24	SG24-5 and SG24-6	VC-E1.46'	2,3

TABLE 3.12 - 1 (SHEET 18 OF 18)

Safety Related Shock Suppressors (Snubbers)

NOTES:

- (1) Location: AFB - Aux. Boiler Feed Pump Bldg. and Pipe  
Bridge Area  
PAB - Primary Auxiliary Building  
VC - Containment Building  
DGB - Diesel Generator Building  
SG - Steam Generator

(2) Categories:

1. Snubber in high radiation area during shutdown.\*
2. Snubber especially difficult to remove. (Because of size and/or location).
3. Snubber inaccessible during normal operation.\* (Because of high radiation and/or temperature environment).
4. Snubber accessible during normal operation.\*

\* Modifications to this Table due to changes in high radiation areas may be made without prior license amendment provided that a revision to this Table is included with the next license amendment request.

\*\* Deletion of this snubber has been approved in accordance with a redesign of the support system of this line. When conditions permit, this snubber will be removed from its associated piping system and shall then be considered deleted from this Table.

\*\*\* Addition of this snubber has been approved in accordance with a redesign of the support system of this line. When conditions permit, this snubber will be added to the appropriate piping system and shall then be considered added to this Table.



ATTACHMENT B

APPLICATION FOR AMENDMENT  
TO OPERATING LICENSE

Safety Evaluation

Consolidated Edison Company of New York, Inc.

Indian Point Unit No. 2

Docket No. 50-247

Facility Operating License No. DPR-26

February, 1979



### Safety Evaluation

The proposed changes, contained in Attachment A to this Application, consist of revising Table 3.12-1 of the Indian Point Unit No. 2 Technical Specifications to permit deletion of certain hydraulic shock suppressors (snubbers) listed in that Table as part of a redesign of the support systems of the lines on which the snubbers are installed. Since hydraulic snubbers have a potential for leakage, this makes them inherently less reliable than passive restraints. The purpose of the piping support system redesign is to improve the reliability of the piping system by reducing the number of hydraulic snubbers necessary to satisfy the design criteria.

By Application sworn to on March 23, 1977, as amended by Applications sworn to on December 16, 1977 and April 28, 1978, Consolidated Edison had requested deletion of hydraulic snubbers from Table 3.12-1 based on a comparison of certain safety-related lines with comparable lines in Indian Point Unit No. 3. The geometry and operating conditions of the lines involved are similar for both units, but the selection and location of supports and restraints was very much improved in Unit No. 3 by means of more detailed and current piping analysis methods. Accordingly, to utilize the improved Unit No. 3 design in Unit No. 2, the support systems for the Unit No. 2 lines were redesigned so that the piping and supports could be represented by the same analytical conditions found in the Unit No. 3 analyses.

The above design approach of reducing snubbers by comparison of similar lines between Unit No. 2 and Unit No. 3 was reviewed and approved by the Regulatory Staff as documented in its Safety Evaluation

supporting Amendment No. 39 to Facility Operating License No. DPR-26, dated May 5, 1978. This Amendment was issued in response to the fore-mention Applications. The Staff Safety Evaluation stated that "...the reliability of the piping system will be increased by this modification of support systems because the number of hydraulic snubbers, which require frequent inspection to assure operability, will be reduced. This modification will, therefore, reduce the potential of a piping failure due to a malfunction of the support system."

Additional re-evaluations of the Indian Point Unit No. 2 safety-related piping support systems by comparison with similar Unit No. 3 lines have been performed. Furthermore, for Unit No. 2 lines that are dissimilar from their Unit No. 3 counterparts, thermal analyses were performed to determine if any hydraulic snubbers could be replaced by passive rigid restraints while still satisfying thermal design criteria. Two outside consultants, Associated Technologies, Inc. (ATI) and EDS Nuclear (EDS) were utilized during the performance of the Unit No. 2 support system redesign. Their final reports, which are the supporting documents for the present change request, are being submitted concurrently with this Application as described in the forwarding letter for this Application.

The proposed redesign modifications, as described in the consultant reports, can be placed into three (3) general categories: (1) simple deletion of a snubber deemed unnecessary with no replacement, (2) simple one-for-one replacement of a snubber with a passive rigid restraint, and (3) hardware modifications to the support system of a line to permit

the deletion of a snubber(s). The consultant reports clearly define the requirements for removal or replacement of each individual snubber to be deleted. Snubber identifications together with associated modification requirements and analytical justifications are provided in detail in those reports and are not to be presented here.

In addition to the results of the consultant reports described above, the proposed changes to Table 3.12-1 also reflect an editorial correction in restraint identification and elimination of snubbers from the rerouting and resupporting of a safety-related pipe line. Specifically, these changes are:

- (a) Delete: Line No. 577, Snubber No. 577-SR-4.

(This restraint is not a snubber but a rigid restraint in present plant design and is incorrectly included in Table 3.12-1).

- (b) To be Removed: Line No. 14, Snubber No. SR-1097

Line No. 14, Snubber No. SR-1098

(Consolidated Edison has designed a rerouting of this line and in resupporting the new piping run has eliminated these snubbers from the support system).

Due to the extensive effort required to complete all of the work associated with the hydraulic snubber reduction program described herein, it is possible that unforeseen delays or circumstances during a plant outage could prevent all of the work from being completed in one outage. Accordingly, rather than deleting all of the hydraulic

snubbers to be removed from the proposed Table 3.12-1 technical specification pages contained in Attachment A to this Application, it is proposed to leave those snubbers listed in Table 3.12-1 and identify them by the double-asterisk (\*\*). This would apply the double-asterisk footnote at the end of Table 3.12-1 to the snubbers to be removed and would allow them to be removed as scheduling permits. Upon removal of the snubber from its piping system, the double-asterisk footnote appropriately permits the snubber to be considered deleted from Table 3.12-1 as well.

Finally, as part of the support system redesign for line number MS-3, a new snubber (No. MS-SR-129, AFB EL 55'-10") will be added to the piping system. On the proposed Table 3.12-1 pages, this new snubber is identified by a triple-asterisk (\*\*\*). This designation references a new triple-asterisk footnote at the end of Table 3.12-1. This footnote would permit the snubber to be considered added to the Table following its installation in the plant.

The proposed changes have been reviewed by the Station Nuclear Safety Committee and the Consolidated Edison Nuclear Facilities Safety Committee. Both committees concur that these changes do not represent a significant hazards consideration and will not cause any change in the types or an increase in amounts of effluents or any change in the authorized power level of the facility.