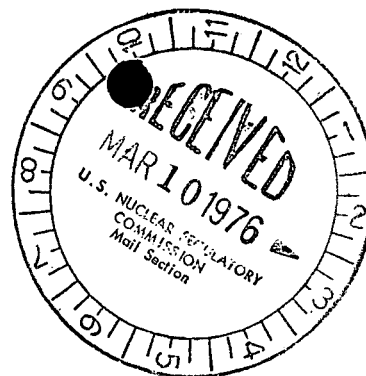


William J. Cahill, Jr.
Vice President

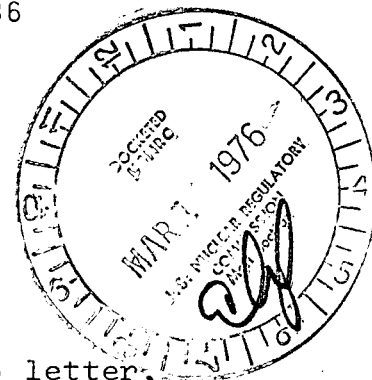
Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N Y 10003
Telephone (212) 460-3819



March 8, 1976

Re Indian Point Unit No. 3
Docket No. 50-286

Director of Nuclear Reactor Regulation
ATTN: Mr. Dominic B. Vassallo, Chief
Light Water Reactor Branch No. 5
Division of Project Management
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555



Dear Mr. Vassallo

In response to Item 1 of your January 21, 1976 letter, valves 842 and 843 in the mini-flow return line from the discharge of the safety injection pumps to the re-fueling water storage tank will be de-energized in the open position whenever the reactor coolant system TAVG is greater than 350°F. This condition is indicated in paragraph 3.3.A.3.j of the proposed full power Technical Specifications transmitted to you by letter dated January 29, 1976.

At least one of these two valves must be closed during the recirculation mode of a loss of coolant accident to prevent radioactive water from entering the re-fueling water storage tank. Therefore, each valve will be provided with its own power "ON-OFF" switch to allow restoration of power from the control room. During the changeover from injection to recirculation transferring each "TWO POSITION-MAINTAINED" switch to the "ON" position will restore power to the control circuit and, thus, permit the existing valve control switches in the control room to operate the valves. A status light on each "ON-OFF" switch module will indicate when the control circuit is operable.

Finally, redundant position indication will be provided in the control room in accordance with NRC Branch Technical Position EICSB 18 by supplementing the existing indication systems with an independent status light system. The new status light system consists of

2431

811120189 760308
PDR ADOCK 05000286
PDR

Mr. Dominic B. Vassallo - 2 -

March 8, 1976

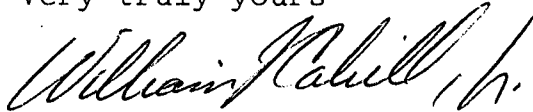
Re Indian Point Unit No. 3
Docket No. 50-286

separate limit switches mounted on each valve stem and cables routed in dedicated conduit separate from the existing raceway system. Within the control panel the power supply (circuit 8 on d.c. power panel 33) and the alarm chain will be routed in flexible ("sealtite") conduit into a spare module where the status light will be mounted.

A listing of those electrical schematics affected by these changes is delineated in Attachment A. Forwarded herewith are seven (7) copies of finalized versions of those schematics listed in Attachment A.

This completes our response to your January 21, 1976 letter. The information requested by item 2 of that letter was forwarded to you by letter dated January 29, 1976.

Very truly yours



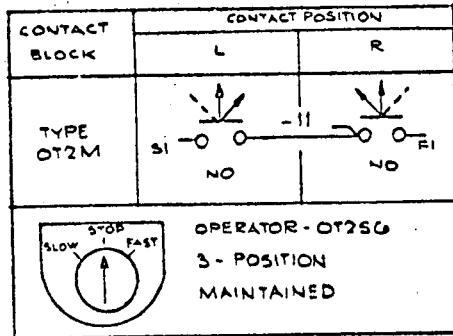
William J. Cahill, Jr.
Vice President

Enc.
mrb

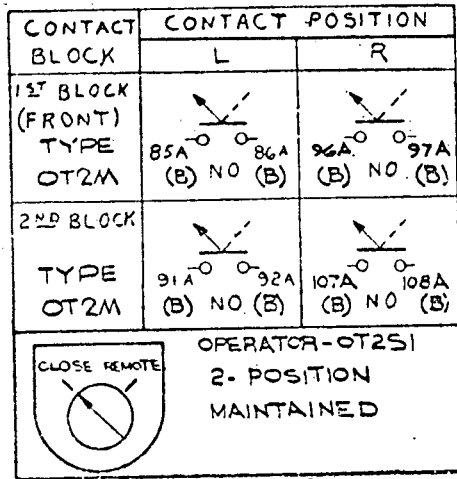
ATTACHMENT A

500B971

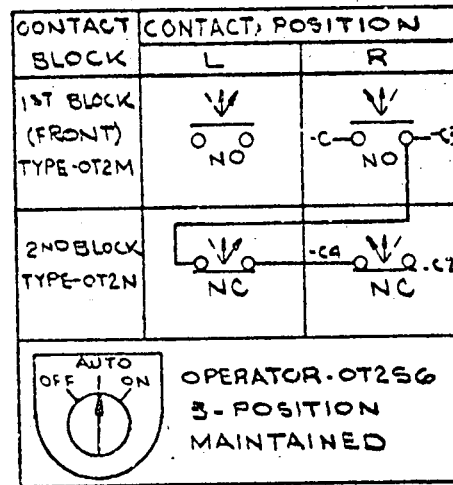
Sheet 11	Sub. 8
117	Sub. 14
151	Sub. 1
172	Sub. 1



DEV. Y

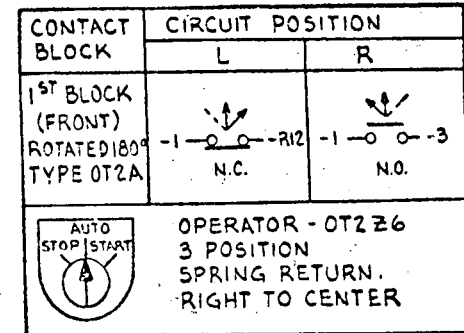
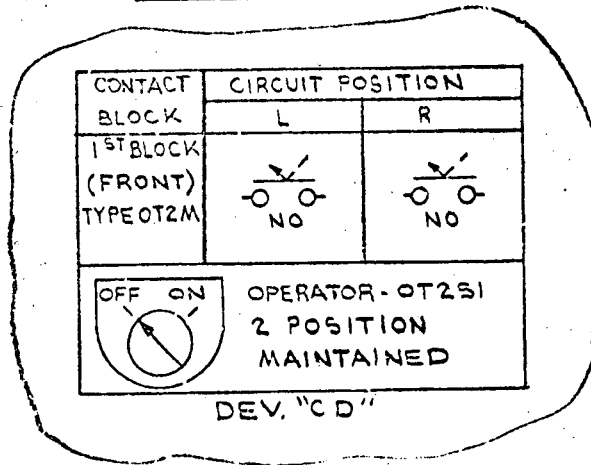


DEV. X



DEV. "A B"

ECN-70028



DEV. "BC"

AB-664

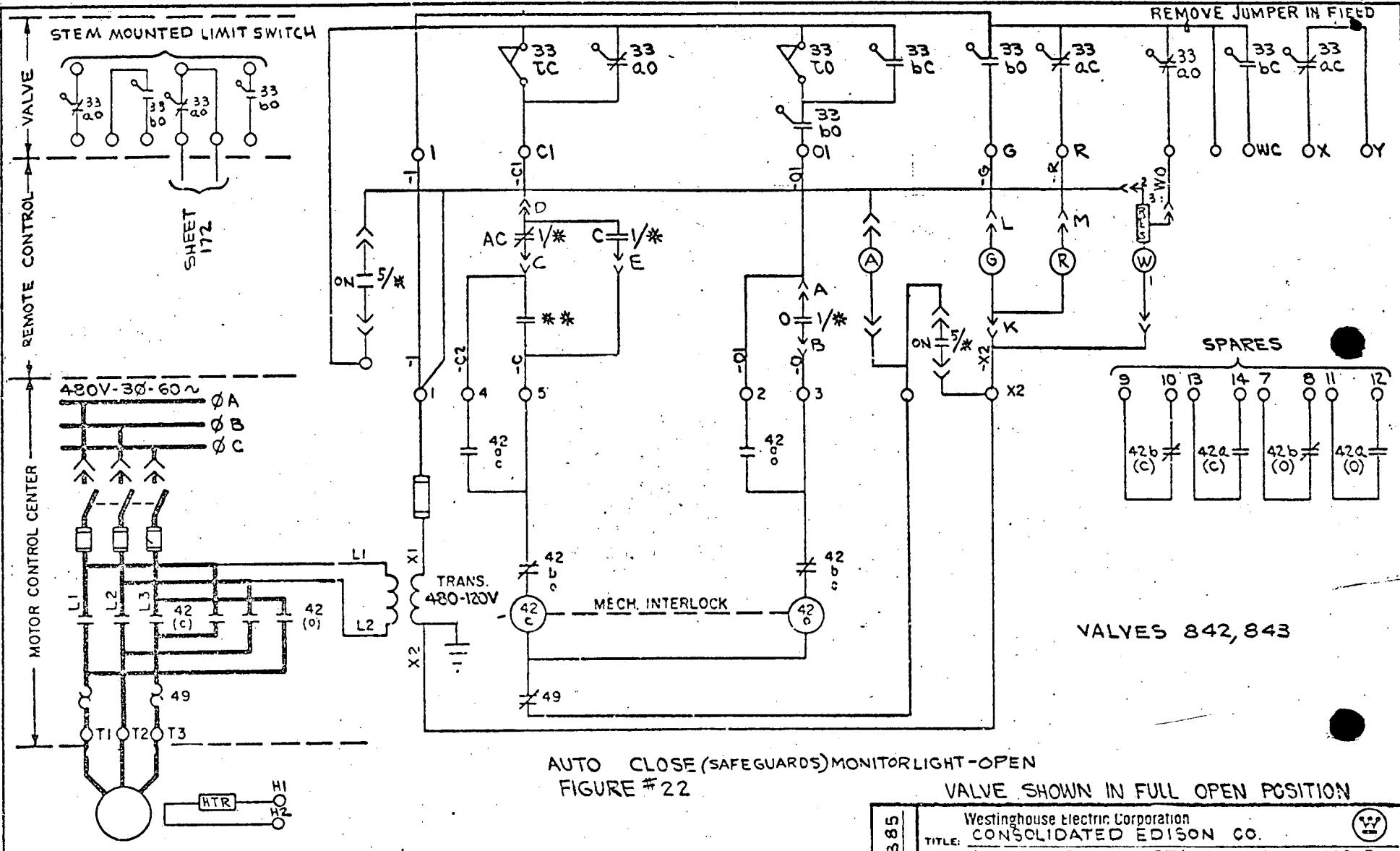
ECN-30739 W.C.D. 2-9-76 W.C.D. 3-3-76 W.C.D. 3-3-76	ECN-30467 W.C.D. 1-16-74 W.C.D. 1-16-74 W.C.D. 11-3-74	ECN-30252 W.C.D. 2-11-74 W.C.D. 2-11-74 W.C.D. 2-11-74	ECN-9793 W.C.D. 7-6-73 W.C.D. 7-7-73 W.C.D. 7-9-74	ECN-3089 W.C.D. 10-19-71 W.C.D. 10-19-71 W.C.D. 10-19-71	ECN-7691 W.C.D. 3-31-71 W.C.D. 3-31-71 W.C.D. 3-31-71	ECN-6551 W.C.D. 1-13-70 W.C.D. 1-13-70 W.C.D. 1-13-70	S.O. INT-385	Westinghouse Electric Corporation TITLE: CONSOLIDATED EDISON CO. INDIAN POINT STATION - UNIT NO. 3 ELEMENTARY WIRING DIAG. SWITCH DEVELOPMENT	
8	7	6	5	4	3	2		PCRALLE 3270 W.C.D. 4-2-72	500B971
									SHEET-11

	VALVE (MCC LOC)	FUNCTION	FIG SH	SW SH	OPER MODE	** INTERLOCKS OR AUTO CONT. CONTACT	REF DWG & REMARKS
14	ECN-30733 W.C.D. 2-10-76 3-3-76 3-3-76	842 36A-7FM MIN FLOW ISOLATION VALVE	22/151 *127A	1/* C/10 5/* CO/11	O/ FAI	ON AIR ↑ 842-C2 EB 43/RS-5 F5 ↓ 842-C	SW/LGTS SBIF PNL MON.LGTS. SBIF 332C 3300 SH. 112 ANN SA160 332C R' LT. SH.147
13	ECN-30713 12-31 D. PETROCELLI 75 12-31-75	843 36B-7FM MIN FLOW ISOLATION VALVE	22/151 *127A	1/* C/10 5/* CO/11	O/ FAI	ON 2A ↑ 843-C2 C11 43/RS-5 O11 ↓ 2B 843-C	SW/LGTS SBIF PNL MON.LGTS. SBIF 332C 3300 SH. 112 ANN SK160 332C R' LT. SH. 47
12	ECN-30407 PHEARN 7-30-74 5-3-76	743 36A-7RM RESIDUAL HEAT REMOVAL LOOP OUTLET VALVE	8/132 *127A	C/10	O/ FAI	ON IT ↑ 743-C2 C1 43/RS-5 RI ↓ 1A 743-C	SW/LGTS SUFF PNL MON LGTS SBIF 332C ANN SA160 332C R' LT. SH.147
11	ECN-30268 W.C.D. 3-5-74 2-2-74 2-6-74	1870 36B-7RM RESIDUAL HEAT REMOVAL LOOP OUTLET VALVE	8/132 *127A	C/10	O/ FAI	ON 2M ↑ 1870-C2 E7 43/RS-5 F7 ↓ 2N 1870-C	SW/LGTS SUFF PNL MON. LGTS. SBIF 332C ANN SA160 332C R' LT. SH.147
10	ECN-9793 W.C.D. 7-5-73 2-1-73 7-23-73	1870 36B-7RM RESIDUAL HEAT REMOVAL LOOP OUTLET VALVE	8/132 *127A	C/10	O/ FAI	ON 2M ↑ 1870-C2 E7 43/RS-5 F7 ↓ 2N 1870-C	SW/LGTS SUFF PNL MON. LGTS. SBIF 332C ANN SA160 332C R' LT. SH.147
9	ECN-9750 W.C.D. 5-3-73 5-3-73 5-3-73	1870 36B-7RM RESIDUAL HEAT REMOVAL LOOP OUTLET VALVE	8/132 *127A	C/10	O/ FAI	ON 2M ↑ 1870-C2 E7 43/RS-5 F7 ↓ 2N 1870-C	SW/LGTS SUFF PNL MON. LGTS. SBIF 332C ANN SA160 332C R' LT. SH.147
8	ECN 9557 CHANGES ARE CIRCLED PHEARN 10-25-72 2-2-72 11-1-72	747 36A-6RM RESIDUAL HEAT LOOP DISCHARGE STOP VALVE	8/132 *125B	9/10	O/ FAI	ON 3 SI 7 SA1 747-C ↑ 747-C2 IF ON 43/RS5 B7 747-C3 Y1H	SW-SGF PNL IND. LGTS-SGF SBIF 332C ANN SH.160 MON. LGT. - SBIF 332C R' LT. SH.147
7	ECN-7666 L.G. 6-16-71 2-2-71 6-23-71	899B 36B-6RM RESIDUAL HEAT LOOP DISCHARGE STOP VALVE.	8/132 *125B	C/10	O/ FAI	ON 4 SI 8 GA1 899B-C ↑ 899B-C2 2C ON 43/RS5 H7 899B-C3 2D	SW-SGF PNL IND. LGTS-SGF SBIF 332C ANN SH.160 MON. LGT. - SBIF 332C R' LT. SH.147
6	ECN-7161 L.G. 3-9-71 3-31-71 4-2-71	899B 36B-6RM RESIDUAL HEAT LOOP DISCHARGE STOP VALVE.	8/132 *125B	C/10	O/ FAI	ON 4 SI 8 GA1 899B-C ↑ 899B-C2 2C ON 43/RS5 H7 899B-C3 2D	SW-SGF PNL IND. LGTS-SGF SBIF 332C ANN SH.160 MON. LGT. - SBIF 332C R' LT. SH.147
5	ECN-6887 W. MEARS 12/1/70 1/4/71 1/5/71	856G 36A-4FM HIGH HEAD INJECTION LINE STOP VALVE	9/12B 2/152	9/10	C/ FAI	ECN-7008B	SW SB2F PNL IND. LGTS-SB2F PNL MON. LT. SB2F 332C ANN SH.160 332C SH.172 SEE NOTE 1
4	ECN-6811 W.C.D. 10-26-70 10-27-70 10-30-70	856H 36B-4FM HIGH HEAD INJECTION LINE STOP VALVE	20/152 *125A	C/10	O/ FAI	SEE SH.155	SW/LGTS SB2F RELAY SB1R MON. LT. SB2F PNL 856H-VX ANN SH.160 2/6 SH.172 SEE NOTE 1
3	ECN 6325 BACKCIRCLED 6/10/70 PHEARN 6-10-70 6-10-70	856H 36B-4FM HIGH HEAD INJECTION LINE STOP VALVE	20/152 *125A	C/10	O/ FAI	SEE SH.155	SW/LGTS SB2F RELAY SB1R MON. LT. SB2F PNL 856H-VX ANN SH.160 2/6 SH.172 SEE NOTE 1
2	ECN-5851 BERBER 5/4/70 4/7/70 4/7/70	856H 36B-4FM HIGH HEAD INJECTION LINE STOP VALVE	20/152 *125A	C/10	O/ FAI	SEE SH.155	SW/LGTS SB2F RELAY SB1R MON. LT. SB2F PNL 856H-VX ANN SH.160 2/6 SH.172 SEE NOTE 1
1	SUB S.O. INT-385	856J 36B-8FM HIGH HEAD INJECTION LINE STOP VALVE	20/152 *125A	C/10	O/ FAI	SEE SH.155	SW/LGTS SB2F RELAY SB1R MON. LT. SB2F PNL 856J-VX ANN SH.160 2/6 SH.172 SEE NOTE 1

Westinghouse Electric Corporation
 CONSOLIDATED EDISON CO
 INDIAN POINT STATION UNIT NO. 3
 ELEMENTARY WIRING DIAG VALVE TABLE-MOV
 RWKEMERER
 508971
 SHEET 117
 PITTSBURGH, PA. U.S.A.

OPER MODE
 O = NORMALLY OPERATED OPEN
 C = NORMALLY OPERATED CLOSED
 X = NORMALLY OPERATED OPEN & CLOSE
 FC = FAILED CLOSED
 FO = FAILED OPEN
 FAI = FAILED AS IS

NOTE 1. SWITCH LEGEND PLATE TO BE ENGRAVED CLOSE-OPEN
 2. REFERS TO CABLE SCHEM. 9321-LL-31263 SH.
 ECN-70058



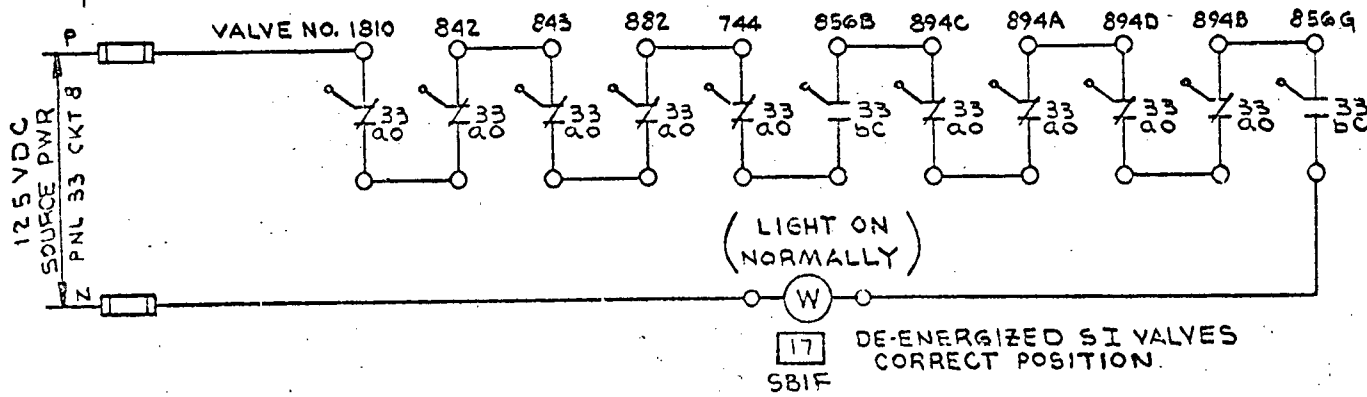
AUTO CLOSE (SAFEGUARDS) MONITOR LIGHT-OPEN
FIGURE # 22

VALVE SHOWN IN FULL OPEN POSITION

NOTE:
1. WIRE DESIGNATIONS ARE TO BE PREFIXED WITH VALVE NO.
2. LETTER (A) ETC. REFERS TO CABLE SCHEMATIC

SO. INT. 385	Westinghouse Electric Corporation		
	TITLE: CONSOLIDATED EDISON CO.		
	INDIAN POINT STATION UNIT NO. 3		
	ELEMENTARY WIRING DIAG. MOTOR OPERATED VALVE		
SUB	1	<i>Sub</i> 2-11-56 <i>Boys</i> 7/7/60 <i>Q. M. L.</i> 9/2	<div style="font-size: 2em; font-weight: bold;">500B971</div> SHEET-151
	ATOMIC POWER DIV.		PITTSBURGH, PA. U.S.A.

500B971
SHEET 172



NOTE:
1. ALL LIMIT SWITCH CONTACTS FROM A STEM MOUNTED LIMIT SWITCH.

50 INT-385
86377

1	CHANGE
T	

DFTM.	<i>Herber</i>	2-10-76
CHKR.		
DES. ENG.	<i>J. Boyer</i>	3/5/76
MFG. ENG.		
MTLS. ENG.		
APP.		
APP.		
APP.		
DFTG. SUPV.	<i>W. Mack</i>	3-5-76

Westinghouse Electric Corporation	
NUCLEAR ENERGY SYSTEMS, PITTSBURGH, PA., U.S.A.	
TITLE: CONSOLIDATED EDISON CO.	
INDIAN POINT STATION-UNIT NO. 3	
S.I. VALVES POSITION LIGHT	
SCALE	500B971
DIMENSIONS IN INCHES	SHEET 172
DO NOT SCALE	SUB 1

WHITE BACKGROUND OF PRINTS INDICATES FULLY APPROVED
GREEN BACKGROUND OF PRINTS INDICATES PRELIMINARY DRAWING. USE APPROVED OR WIRE OR DRINKING WATER SUPPLIES FOR ELECTRIFICATION USE.

NEXT ASSY. REF. DWG.