

LEGEND

DEVICE	FUNCTION
a	BREAKER AUXILIARY SWITCH
b	BREAKER AUXILIARY SWITCH
H	TRUCK OPERATED CELL SWITCH SHOWN FOR BREAKER IN TEST POSITION
TD	TIME DELAY RELAY
OTS	OVERCURRENT TRIP SWITCH
CTSA	OVERCURRENT TRIP SWITCH, AUXILIARY RELAY
SH TR	SHUNT TRIP
SS	SYNCHRONIZING SWITCH
1	BREAKER CONTROL SWITCH CONTACT CLOSED IN POSITION SHOWN: C - CLOSE (START) T - TRIP (STOP) SC - SLIP CLOSE (SLIP START) ST - SLIP TRIP (SLIP STOP) O - OFF (AUTO) CTC - CLOSE TRIP OFF (NEUTRAL) PO - PULL OUT
2	TIME DELAY STARTING OR CLOSING RELAY
3	INTERLOCKING RELAY
20	ELECTRIC OPERATED VALVE
27	UNDervOLTAGE RELAY
33	POSITION SWITCH
42	MOTOR STARTER
63	LIQUID OR GAS PRESSURE RELAY
71	LIQUID OR GAS LEVEL RELAY
74	ALARM RELAY
80	LIQUID OR GAS FLOW RELAY
86	LOCKOUT RELAY

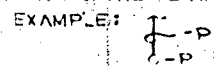
EQUIPMENT LOCATION SYMBOLS

3	480 V. SWGR. 31
4	480 V. SWGR. 32
13	480 V. MCC 37
15	TURBINE GENERATOR
16	LOCAL AT EQUIPMENT
17	CONTROL ROOM PANEL DF - TURBINE START-UP SUPRV. PANEL GH - ELECTRICAL SUPRV. PANEL SL - CONTROL MGMT. & SYNCHRONIZATION SUPV. PNL SS - SAFEGUARDS SUPRV. PANEL SJ - CONDENS. WATER & AIR SUPRV. PANEL BC - FEEDWATER & CONDENSATE SUPRV. PANEL

20	INTAKE STRUCTURE
24	DE-ICING PUMPS PIT
42	FAN ROOM CONTROL CABINET
52	DIESEL GEN. SWGR. A - D.G. 31 CTL BOARD B - 32 C - 33
54	DE-ICING PUMPS CTL CABINET

INDICATES W. DWG. 5009971 (U.E. & C. F.P. 9321-CE-3307) SHEET NUMBER.

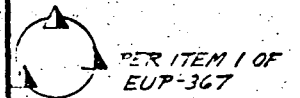
1. WIRE NUMBERS OF WIRES CONNECTED TO 480V. SWGR TERMINALS WILL CARRY THE SAME SUFFIX AS THE TERMINAL.



2. SUBSCRIPT ON 480V SWITCHGEAR LOCATION SYMBOLS REFER TO SWITCHGEAR COMPT. NUMBER
 TYPICAL 3 33B - CELL N°
3. SYMBOL φ DENOTES EQUIP. WIRING INCLUDING CELL TO CELL WIRES
 SYMBOL φ DENOTES WIRES TO TERMINAL
- ← CONT.

SH.	REL.	INDEX
2	PA	UNDervOLTAGE RELAY - BUS 2A & C CONTROL POWER
3	---	RELAY TABLE - BUS 6A
4	4A	INTERLOCKING RELAYS - BUS 6A
5	5A	8FP 31, 32 & 33 AUTO-START
6	6A	EG1, EG2, & EG3 AUTO-START
7	7A	52/3A - STA. SERV. TRANSF. 3 - BUS 3A TIE
8	8A	52/D12 - DE-ICING PUMP 32
9	9A	52/MCC7 - BUS 7A FEED TO MCC 25 - LIGHTING TRANSF. 32 52/MCC8 - BUS 8A FEED TO MCC 32 52/5B - TRANSFER SERVICE BUS - 515 KVA
10	10A	52/EXF1 - PA BLDG. 6 OR CR PUMPS EXH. FAN 31
11	11A	52/AE1 - AUX. FEEDWATER PUMP 31
12	12A	52/3AT6A - BUS 2A - BUS 6A TIE
13	3A	52/EXF2 - PA BLDG. 6 OR CR PUMPS EXH. FAN 32
14	14A	52/LT1E - 150 KVA LTG. TRANSF. 3 - 6000/6000 V (3) 30MVA 52/MCC7 - BUS 6A FEED TO MCC 37
15	15A	52/MCC6 - BUS 6A FEED TO MCC 36B
16	16A	52/AE3 - AUX. FEEDWATER PUMP 33
17	17A	52/EG2 - EMERG. DIESEL GENERATOR 22
18	18A	52/6A - STA. SERV. TRANSF. 6 - BUS 6A TIE
19	19A	52/TAO - TURBINE AUX. CR. PUMP
Δ 31	31A	RESIDUAL HEAT REMOVAL PUMP NO. 31
Δ 34	34A	SERVICE WATER PUMP NO. 35
Δ 36	36A	CIRCULATION PUMP NO. 35
Δ 38	38A	HEAT EXCHANGER HEATER CONTROL GROUP 31
Δ 39	39A	HEAT EXCHANGER HEATER CONTROL GROUP 31
Δ 40	40A	CONTAINMENT SPRAY PUMP NO. 34
Δ 41	41A	AC POWER SUPPLY MCC 37 NO. 32
Δ 44	44A	SERVICE WATER PUMP NO. 33
Δ 46	46A	COMPONENT COOLING PUMP NO. 33
Δ 48	48A	CONTAINMENT RECIRCULATING FAN NO. 34
Δ 70	70A	SAFETY INJECTION PUMP NO. 35
Δ 72	72A	CHARGING PUMP NO. 32
Δ 73	73A	CHARGING PUMP NO. 33
Δ 75	75A	RESIDUAL HEAT REMOVAL PUMP NO. 32
Δ 79	79A	CONTAINMENT RECIRCULATING FAN NO. 35
Δ 80	80A	SERVICE WATER PUMP NO. 36
Δ 80A	80A	SERVICE WATER PUMP NO. 35 (BACK-UP)
Δ 80B	80B	SERVICE WATER PUMP NO. 39 (BACK-UP)

PART OF NOTE 3. FOR EXTERNAL WIRING TYP. φ 33B - CELL NO. SYMBOL * DENOTES SWGR. 32 WIRING TO BE TERMINATED IN SWGR. 32 CELLS FOR EXTENSION BY OTHERS.



3	REVISED PER ITEM 1 OF EUP-367			
6	ALL 2 WIRE TERMINALS			
1	ADDED NOTES 2 & 3			
9	FIRST ISSUE FOR INSTRUCTION			
2	DATE	DESCRIPTION	ENGR	SUP ENG
ENGINEER		(W)		
STATE REG. NO.		UNITED ENGINEERS & CONSTRUCTORS INC.		

WESTINGHOUSE ELECTRIC CORPORATION
 FOR
 CONSOLIDATED EDISON COMPANY
 INDIAN POINT GENERATING STATION - UNIT NO. 3

SCHEMATIC DIAGRAM
480V. SWITCHGEAR 32

SHEET NO. 1

U.E. & C. DWG. NO. 9321-LL-31183	CON. ED. CO. DWG. NO. D202470
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