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
OTSA	OVERCURRENT TRIP SWITCH AUXILIARY RELAY
SH TR	SHUNT TRIP
SS	SYNCHRONIZING SWITCH

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)
- CTO- 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
- [5] 480 V. MCC 37
- [15] TURBINE GENERATOR
- [16] LOCAL AT EQUIPMENT
- [17] CONTROL ROOM PANEL
  - SF - TURBINE START-UP SUPERV. PANEL
  - SH - ELECTRICAL SUPERV. PANEL
  - SL - CONT. BLDG. VENT & PRESSURIZATION SUPV. PNL
  - SS - SAFEGUARDS SUPERV. PANEL
  - SJ - COOLING WATER & AIR SUPERV. PANEL
  - SC - FEEDWATER & CONDENSATE SUPERV. PANEL
- [20] INTAKE STRUCTURE
- [35] DE-ICING PUMPS PIT
- [42] FAN ROOM CONTROL CABINET
- [52] DIESEL GEN. SWGR.
  - A - D.G. 31 CTL. BOARD
  - B - 32
  - C - 33
- [56] DE-ICING PUMPS CTL. CABINET

NOTES

△ - INDICATES W DWG. 500B971 (U.E. & C. E.P. 9321-05-3307) SHEET NUMBER.

1. WIRE NUMBERS OF WIRES CONNECTED TO 480V. SWGR TERMINALS WILL CARRY THE SAME SUFFIX AS THE TERMINAL.
   EXAMPLE: -P, -P
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.
   TYP. ϕ33B ← CELL NO

PART OF NOTE 3. FOR EXTERNAL WIRING SYMBOL * DENOTES SWGR.32 WIRING TO BE TERMINATED IN SWGR.32 CELL 5 FOR EXTENTION BY OTHERS.

PER ITEM 1 OF EUP-367

INDEX

SH.		
2	2A	UNDERVOLTAGE RELAY-BUS 2A & L.C. CONTROL POWER
3	—	RELAY TABLE - BUS 6A
4	4A	INTERLOCK NG RELAYS - BUS 6A
5	5A	BFP 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/DI2 - DE-ICING PUMP 32
9	9A	[illegible] - BUS 3A FEED TO MCC 25 52/LT2 - LIGHTING TRANSF. 32 52/MCC2 - BUS 3A FEED TO MCC 32 52/SB - NUCLEAR SERVICE BLDG. 315 KVA
10	10A	52/EXF1 - PA BLDG. & OR C P PURGE EXH. FAN 31
11	11A	52/AF1 - AUX. FEEDWATER PUMP 31
12	12A	52/3ATGA - BUS 2A - BUS 6A TIE
13	13A	52/EXF2 - PA BLDG & OR C P PURGE EXH. FAN 32
14	14A	52/LTIE - 150 KVA LTG. TRANSF. 31 & FLOODLIGHTS (SMPR) 52/MCC7 - BUS 6A FEED TO MCC 37
15	15A	52/MCC6B - BUS 6A FEED TO MCC 36B
16	16A	52/AF3 - AUX. FEEDWATER PUMP 33
17	17A	52/EG2 - EMERG. DIESEL GENERATOR 32
18	18A	52/6A - STA. SERV. TRANSF. 3 - BUS 6A TIE
19	19A	52/TAO - TURBINE AUX. OIL PUMP
△31	31A	RESIDUAL HEAT REMOVAL PUMP NO. 31
△34	31A	SERVICE WATER PUMP NO. 35
△36	31A	RECIRCULATION PUMP NO. 35
△38	38A	PRESSURIZER HEATER CONTROL GROUP
△39	38A	PRESSURIZER HEATER BACKUP GROUP 31
△40	38A	CONTAINMENT SPRAY PUMP NO. 34
△41	41A	RCD POWER SUPPLY M-G SET NO. 32
△44	41A	SERVICE WATER PUMP NO. 33
△46	41A	COMPONENT COOLING PUMP NO. 33
△48	48A	CONTAINMENT RECIRCULATING FAN NO. 34
△70	70A	SAFETY INJECTION PUMP NO. 33
△72	72A	CHARGING PUMP NO. 32
△73	73A	CHARGING PUMP NO. 33
△75	73A	RESIDUAL HEAT REMOVAL PUMP NO. 32
△79	79A	CONTAINMENT RECIRCULATING FAN NO. 35
△80	80A	SERVICE WATER PUMP NO. 36
△80C	80A	SERVICE WATER PUMP NO. 38 (BACK-UP)
△80D	80A	SERVICE WATER PUMP NO. 39 (BACK-UP)

DATE	DESCRIPTION	ENGR	SUP ENG	(W)
[illegible]	REVISED PER ITEM 1 OF EUP-367	[illegible]	[illegible]	
[illegible]	ADDED CABLE SCHEM. SHEETS [illegible]	[illegible]	[illegible]	
[illegible]	ADDED NOTES 2 & 3	[illegible]	[illegible]	
[illegible]	FIRST ISSUE FOR CONSTRUCTION	[illegible]	[illegible]	

ENGINEER [illegible]
STATE REG. [illegible] NO. [illegible]
UNITED ENGINEERS & CONSTRUCTORS INC.

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

SCHEMATIC DIAGRAM
480 V. SWITCHGEAR 32
SHEET NO. 1

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

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