1IX-IN-008
UNIT CONTROL ROOM PANEL

1EP-EBB-01
250V BUS VOLTMETER
1EP-IEI-0158-N

1EP-EBB-01
250V SOURCE AMMETER
1EP-III-0168-N

OEP-EDP-2004
ELECTRICAL CONTROL ROOM DIST BD, PNL 6
SGW0716-XQ-06 (UNIT 1 AND UNIT 2 SHOWN)

250V DC BUS AMMETER
OEP-EAM-6A17

250V DC BUS VOLTMETER
OEP-EVM-6A15

OEP-43I 6A14 (OFF)
OEP-43I 6A11 (OFF)

1513

OEP-EC42-5 UNIT 1 ONLY

2EP-EDP-01A (NOT SHOWN, SAME AS UNIT 1 EXCEPT UNID PREFIX "2")

OEP-EC43-9 UNIT 2 ONLY

2IX-IN-008 (NOT SHOWN, SAME AS UNIT 1 EXCEPT UNID PREFIX "2")

OEP-EC42-6 UNIT 2 ONLY

OCO EEQC-64
COMMUNICATIONS OPERATIONS RECORDING TERMINATION CABINET
SGW7364-QA-01,02

1IX-II-020B
UNIT ANNUNCIATOR TERM. CAB.
SGW1640-IA-01

OCO-EEQC 64
COMM ORA TERMINATION CAB
SGW7364-QA 02

1EP-EC4A-14
1EP-EC4A-1
1EP-EC4A-48
1EP-EC4A-2
1EP-EC4A-45
1EP-EC4A-46

1EP-EC42-28
1EP-EC42-29

OEP-EC43-7 UNIT 1 ONLY

OEP-EC43-10

OQA-EC42-876(877)
OQA-EC42-878(879)
OQA-EC42-880(881)
OQA-EC42-883(884)

1IA-EC42-55
1IA-EC42-56
1IA-EC42-57

OQA-EC42-882 UNIT 2 ONLY SEE NOTE 7

1EP-EC43-32
1EP-EC43-34
OEP-EC43-37
OEP-EC43-38
OEP-EC43-19 UNIT 1 ONLY

TBI 63 64 GRD 0 TO ±1MA
TBI 59 60 GRD TBI L1 L2
TBI 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 156 157
TBI 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

BOARD DETAILS SHOWN FOR INFORMATION ONLY. FOR ACTUAL DETAILS REFER TO MFRR'S DWGS 2483-5X9, 2483-8X9 FOR WIRING AND SCHEMATICS

TRANSDUCER 1EP-EAMP-015
TRANSDUCER 1EP-EAMP-012

MISC LOADS

250V BATTERY CHARGER

1EP-72-011 2000A

1EP-EFU2-011

1EP-EDP-01A

1EP-ECON-011A 1EP-ECON-011B 1EP-ECON-011C 1EP-ECON-011D
1EP-ECON-011F 1EP-ECON-011E 1EP-ECON-011G 1EP-ECON-011H

1EP-EB-01
250V NORMAL BATTERY

TO ALARM RELAYS

1EP-EBC-01
250V NORMAL BAT. CHGR

OEP-EBC-01
SPARE 250V NORMAL BAT. CHGR.

1EY-EDP-20
120V AC PFD. DIST. PNL.

250V NORMAL BATTERY BOARD 1EP-E88-01

DISTRIBUTION PANEL 1EP-EDP-01A

2EP-EDP-01A
(SHOWN FOR UNIT 2 ONLY)

INTERCONNECTIONS

SYMBOLS:

AN XXXX — UNIT ANNUNCIATOR (XXXX-POINT NUMBER)

ORA XXX — COMMUNICATIONS OPERATIONS RECORDING AND ANNUNCIATION (XXX-POINT NUMBER)

NOTES

1. THIS DRAWING SHOWS INTERCONNECTION OF INSTRUMENT, CONTROL, ANNUNCIATION, LIGHTING CIRCUITS AND BATTERY CIRCUITS
2. SHOWN FOR UNIT 1. UNIT 2 SIMILAR EXCEPT AS NOTED AND SHOWN IN PARENTHESIS
3. 250V BATTERY BOARD PROVIDED ON CONTRACT 75K3-86429
4. 250V BATTERY CHARGERS PROVIDED ON CONTRACT 76K5-86342-1
5. FOR INTERNAL WIRING ON 1M-OB, SEE CONTRACT 71C62-54114-2, DRG 48-1038518F-LM
6. 250V BATTERY PROVIDED ON CONTRACT 77K7-821614.
7. THE 250V NORMAL SPARE BATTERY CHARGER FAILURE ALARM TO THE OPERATIONS RECORDER IS WIRED FROM THE UNIT 2 250V DISTRIBUTION PANEL ONLY. ALL OTHER UNIT 2 ALARMS ARE THE SAME AS UNIT 1 EXCEPT FOR THE UNID CODE UNIT PREFIX
8. ALL ANNUNCIATION CONTACTS ARE CLOSE-TO-ALARM
9. THE 250V BATTERY BUS AMMETER SCALE PLATES TO BE MARKED WITH "CHARGE" AND "DISCHARGE" IN THE APPROPRIATE RANGES:

1EP-EAM-012
2EP-EAM-012

OEP-EAM-6A17 (REMOVE +, -DESIGNATIONS)

1EP-III-016B
2EP-III-016B (REMOVE +, -DESIGNATIONS)

1513, S1

REFERENCE DWGS

SGW1625-EP	SINGLE LINES
SGW2625-EP	
SGW2620-EP	KEY DIAGRAM
SGC0600-EP	
SGC1600-EP	CABLE SCHEDULES
SGC2600-EP	

REFER TO MFRR'S DWG 2483-5X9, 8X9 FOR WIRING AND SCHEMATICS

REFER TO MFRR'S DWG 110 608 020-45331 (NOTE 4) 110 601 020-45331

REFER TO: SGW1625-EP-2 SGW2625-EP-2

120V AC LIGHTING PNL 1EP-ELC-1300 (2EP-ELC-2300) SGW0644-EP-3

TO 26V TURB DISTR PNL 1ES-EDP-10

SGW0640-EP-13 ZONE E3

SGW0640-EP-13 ZONE E4

TO 26V TURB DISTR PNL 1ES-EDP-10

COMPANION DWGS: SGW0640-EP-1, 2, 13, 14

Docket # 50-438
Cont. # 8304050536
Date 3-25-83 of Document
REGULATORY DOCKET FILE

PRC APERTURE CARD

6	1513, S1				ADDED AMMETER SCALE MARKING REQUIREMENTS
5	S1	10-13-81			INCORPORATED FOR E-2125 REVISED REF DWG.
4	1140	5-81			CHANGED SHUNT CONNECTIONS REMOVED LOCATIONS.
3	S1	4-1-80			ADDED TERMINAL NUMBERS ZONE D9
2	S1	7-13-79			REVISED JUMPER NUMBERS, COLOR CODES, AND METER UNID.
1	S1				REVISED CABLE NOS. RELEASED MONITORING SYSTEMS TERMINATIONS.

DSN C.E. CHATHAM
DRN R.A. FAGAN
CHD R.L. WHITE-FR.
SUP A.E. COURTNEY
ENGINEER M.R. Stinson

SCALE EXCEPT AS NOTED

GENERAL
UNITS 1&2

SCHEMATIC DIAGRAM
250V NORMAL DC POWER
DISTRIBUTION SYSTEM

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED
M.W. Stinson	C.E. Chatham	R.M. Bellamy
KNOXVILLE 8-2-79	00 C SGW0640-EP-12 R0	

INSPECTED AND APPROVED FOR ISSUE