



ANNUNCIATOR TABLE

ANNUNCIATOR	ANNUNCIATOR ENGRAVING
1-1-J	EDG 2 FAULT
1-1-K	EDG 2 TRBL
1-1-L	EDG 2 FREQUENCY
1-1-M	EDG 2 CURRENT HI
1-1-N	EDG 2 DC TURBO OIL PUMP ON (NOTE 14)
1-1-O	NOT READY FOR AUTO START/ABNORM SW POS (NOTE 18)
1-1-P	UNIT LOCKOUT (MC-24)
1-1-Q	FAIL TO REACH RATED SPEED & VOLTAGE (NOTE 3)
1-1-R	LOW OIL PRESSURE (NOTE 19)
1-1-S	OVERSPEED TRIP
1-1-T	LOW LUBE OIL LEVEL
1-1-U	LOW JACKET WATER TEMPERATURE
1-1-V	HIGH JACKET WATER TEMPERATURE
1-1-W	HIGH CRANKCASE PRESSURE
1-1-X	PT/PT FUSE FAILURE EXCITER
1-1-Y	PROTECTIVE RELAYS

NOTES

- WHEN THE IDLE START PUSHBUTTON (OS-0419, B-B) AT THE IDLE START PANEL IS DEPRESSED THE ENGINE WILL START AND ACCELERATE TO IDLE SPEED. WHEN THE IDLE RELEASE PUSHBUTTON (NOT SHOWN) AT THE IDLE START PANEL IS DEPRESSED THE ENGINE WILL ACCELERATE FROM IDLE SPEED TO RATED SPEED.
- IF THE EMERGENCY DIESEL GENERATOR 1-1 (ZONE H-6) FAILS TO REACH 300 RPM WITHIN 2 SEC OF A START SIGNAL, ANNUNCIATOR 1-1-K (ZONE J-2) WILL FAIL TO START. WILL ANNUNCIATE AND THE EMERGENCY DIESEL GENERATOR START CIRCUIT WILL BE LOCKED OUT. SEE MC-24.
- NOTE FOR EMERGENCY DIESEL GENERATOR 1-2 ANNUNCIATOR 44-1-C (ZONE J-23) IS SIMILAR.
- ANNUNCIATOR 43-1-D (ZONES C-3 AND J-7) "FAIL TO REACH RATED SPEED AND VOLTAGE" WILL ANNUNCIATE IF THE EMERGENCY DIESEL GENERATOR 1-1 (ZONE H-6) IS NOT UP TO 800RPM OR RATED VOLTAGE WITHIN 10 SEC OF RECEIVING A START SIGNAL.
- NOTE FOR EMERGENCY DIESEL GENERATOR 1-2 ANNUNCIATOR 44-1-D (ZONES C-23 AND J-24) IS SIMILAR.
- THERMOSTATIC CONTROL VALVES (ZONE H-2 AND H-19) START TO OPEN AT 185°F AND ARE FULL OPEN AT 188°F.
- A REVOLVING BLUE WARNING LIGHT LOCATED IN THE ASSOCIATED EMERGENCY DIESEL GENERATOR ROOM WILL LIGHT WHENEVER THE EMERGENCY DIESEL GENERATOR RECEIVES AN AUTOMATIC/EMERGENCY START SIGNAL. SEE MC-24.
- THE EDG 1-1 GOVERNOR MODE SELECTOR (GMS) SWITCH (ZONE A-3) WHEN IN "ELECT" POSITION, ALLSWS THE GOVERNOR TO OPERATE AS AN ELECTRIC GOVERNOR. WHEN GMS SWITCH IS IN "HYD" POSITION ENGINE SPEED CAN BE MANUALLY RAISED OR LOWERED VIA THE HYDRAULIC GOVERNOR CONTROL SWITCH (GCS) (ZONE A-2). THE GCS SWITCH IS NOT NORMALLY USED. CONTROL OF EDG 1-2 SPEED VIA BACKUP HYDRAULIC GOVERNOR IS SIMILAR.
- FOR GENERAL NOTES, PIPING SYMBOLS, INSTRUMENTATION SYMBOLS, AND OPERATIONAL SCHEMATIC INDEX, SEE INDEX SHEET DWG OS-050.
- 125 VDC CONTROL POWER FOR BREAKERS AC101 AND AD101 (ZONES E-4 AND E-23) IS SUPPLIED FROM THEIR RESPECTIVE SWITCHES ON 125 VDC CONTROL BUS. SEE OS-058, NOTE 8.
- UNLESS NOTED BY AN ACTUAL EMERGENCY, DO NOT TRANSFER THE EDG 1-1 GOVERNOR MODE SELECTOR SWITCH GMS (ZONE A-3) FROM "ELECT" TO "HYD" WHEN THE EMERGENCY DIESEL GENERATOR IS OPERATING ABOVE IDLE SPEED.
- NOTE FOR EDG 1-2 GMS SWITCH (ZONE A-24) IS SIMILAR.
- SYSTEM IS LINED UP FOR DIESEL GENERATOR STANDBY CONDITION (READY FOR AUTO OR MANUAL START) IN ACCORDANCE WITH APPLICABLE PROCEDURES.
- LOW OIL LEVEL ALARM SETPOINT AS SENSED BY LS120181 (ZONE G-14) AND LS120201 (ZONE G-29) IS MEASURED FROM BOTTOM OF EMERGENCY DIESEL GENERATOR ENGINE OIL LEVEL DISTRICT.
- FOR OPERATION OF PSH20143 (ZONE G-5) AND PSH20144 (ZONE G-21) EMERGENCY DIESEL GENERATOR AIR START/ENGINE AIR SYSTEM DWG OS-0418, MC-24.
- DELETED.
- ALARM PANEL 37 FOR EMERGENCY DIESEL GENERATOR 1-1 IS LOCATED ON RACK R3601.
- ALARM PANEL 37 FOR EMERGENCY DIESEL GENERATOR 1-2 IS LOCATED ON RACK R3602.
- VALVES 332 AND 333 (ZONES D-12 AND F-13) ARE INTERNAL TO THE HEAD OF THE TURBO LUBE OIL FILTER ON EMERGENCY DIESEL GENERATOR 1-1 LUBE OIL SYSTEM.
NOTE FOR VALVES 352 AND 353 (ZONES G-29 AND F-30) ON EDG 1-2 IS SIMILAR.
- WHENEVER THE EMERGENCY DIESEL GENERATOR SYSTEM IS INOPERABLE, THE OPERATOR IS TO PLACE THE HANDSWITCH MS4808 (ZONE F-31) IN "NOT OPER" AS INDICATED BY THE "BYPASS" LIGHT (ZONE F-31).
- THE EDG 1-1 "NOT READY FOR AUTO START/ABNORM SW POS" WINDOW 44-1-A (ZONE C-3) WILL ANNUNCIATE WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:
-EXCITER FIELD SHORTING RELAY FSS ENERGIZED IN PANEL C3617 (NOT SHOWN).
-VOLTAGE REGULATOR CONTROL SWITCH IN OFF IN PANEL C3617 (NOT SHOWN).
-SAFETY SHUTDOWN RELAY SDR ENERGIZED IN PANEL C3618 (NOT SHOWN).
-LOSS OF DC POWER TO PANEL C3621 OR FUSE 2P OR 2N BLOWN IN PANEL C3621.
-GOVERNOR MODE SELECTOR SWITCH IN "HYD" (ZONE A-3) -APPENDIX 2 LOCAL/NORMAL SWITCH IN LOCAL ON PANEL C3621 (NOT SHOWN).
- THE EDG 1-2 "NOT READY FOR AUTO START/ABNORM SW POS" WINDOW 44-1-A (ZONE C-24) WILL ANNUNCIATE WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:
-EXCITER FIELD SHORTING RELAY FSS ENERGIZED IN PANEL C3618 (NOT SHOWN).
-VOLTAGE REGULATOR CONTROL SWITCH IN OFF IN PANEL C3618 (NOT SHOWN).
-SAFETY SHUTDOWN RELAY SDR ENERGIZED IN PANEL C3619 (NOT SHOWN).
-LOSS OF DC POWER TO PANEL C3622 OR FUSE 2P OR 2N BLOWN IN PANEL C3622.
-GOVERNOR MODE SELECTOR SWITCH IN "HYD" (ZONE A-24)
- ANNUNCIATOR 1-1-A (ZONE K-B) ALARMS ON BLOWN FUSE OR LOSS OF POWER TO CONTROL PANEL C3621 FOR EMERGENCY DIESEL GENERATOR 1-1.
ANNUNCIATOR 1-1-K (ZONE K-25) ALARMS ON BLOWN FUSE OR LOSS OF POWER TO CONTROL PANEL C3622 FOR EMERGENCY DIESEL GENERATOR 1-2.
- ALL COMPONENTS WITH CORRESPONDING VENDOR I.D.'S ARE SHOWN THIS "I" WITH THE VENDOR I.D. SHOWN WITHIN THE BRACKET.
- FOR ADDITIONAL OPERATION OF EDG 1-1, 532 AND EDG 1-2, 533 SEE EMERGENCY DIESEL GENERATOR AIR START/ENGINE AIR SYSTEM DWG OS-0418, MC-24.
- FOR ADDITIONAL OPERATION OF AC101 (ZONE E-4) SEE 4.16 KV SYSTEM DWG OS-058, MC-3-14.

NOTES (CONT'D)

- FOR ADDITIONAL OPERATION OF MS221 AND 2550/DG1 (ZONES D-5 AND D-7) SEE 4.16 KV SYSTEM DWG OS-058, MC-4 AND CL-7.
- ALL VALVES ARE PREFIXED BY "LO" UNLESS OTHERWISE NOTED.
- WHERE NOTED THE TANK CAPACITY IS NOMINAL. WHERE APPLICABLE, SEE OS-05-06708 TANK LEVEL CALIBRATION CURVES FOR INDICATED LEVEL VS. VOLUME RELATIONSHIP. (REF. PLANS 88-0976).
- THE FIELD FLASH SELECTOR SWITCH (FFSS) IS PLACED IN THE 800 RPM POSITION WHEN PERFORMING AN IDLE START OF EDG 1-1. AFTER COMPLETION OF RUN PLACE THE FFSS BACK IN 400 RPM POSITION.
- OPERATION OF FFSS FOR EDG 1-2 (ZONE C-25) IS SIMILAR.
- 200 RPM INDICATOR LAMP HAS BEEN ABANDONED IN PLACE PER ECP 02-0738.

LR NOTES:

A. FOR GENERAL LICENSE RENEWAL NOTES REFER TO LR-M001-01

LICENSE RENEWAL BOUNDARY DRAWING LR-OS041A2 REV. 1

SYSTEMS SHOWN ON THIS DRAWING: 13: COMPONENT COOLING & DEMINERALIZED WATER STORAGE 17: DIESELS

DAVIS-BESSE NUCLEAR POWER STATION UNIT NO. 1

OPERATIONAL SCHEMATIC OF EMERGENCY DIESEL GENERATOR SYSTEMS

DRAWING NO.	REV.
OS-041A SH 2	26

REFERENCES

DRAWING	DESCRIPTION
W-0100	E-48 SH 2A
W-1800-13	E-48 SH 2B
W-1800-4	E-48 SH 2C
W-1800-7	E-48 SH 2D
W-1800-9	E-48 SH 2E
W-1800-10	E-48 SH 2F
W-1800-11	E-48 SH 2G
W-1800-12	E-48 SH 2H
W-1800-14	E-48 SH 2I
W-1800-15	E-48 SH 2J
W-1800-16	E-48 SH 2K
W-1800-17	E-48 SH 2L
W-1800-18	E-48 SH 2M
W-1800-19	E-48 SH 2N
W-1800-20	E-48 SH 2O
W-1800-21	E-48 SH 2P
W-1800-22	E-48 SH 2Q
W-1800-23	E-48 SH 2R
W-1800-24	E-48 SH 2S
W-1800-25	E-48 SH 2T
W-1800-26	E-48 SH 2U
W-1800-27	E-48 SH 2V
W-1800-28	E-48 SH 2W
W-1800-29	E-48 SH 2X
W-1800-30	E-48 SH 2Y
W-1800-31	E-48 SH 2Z

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