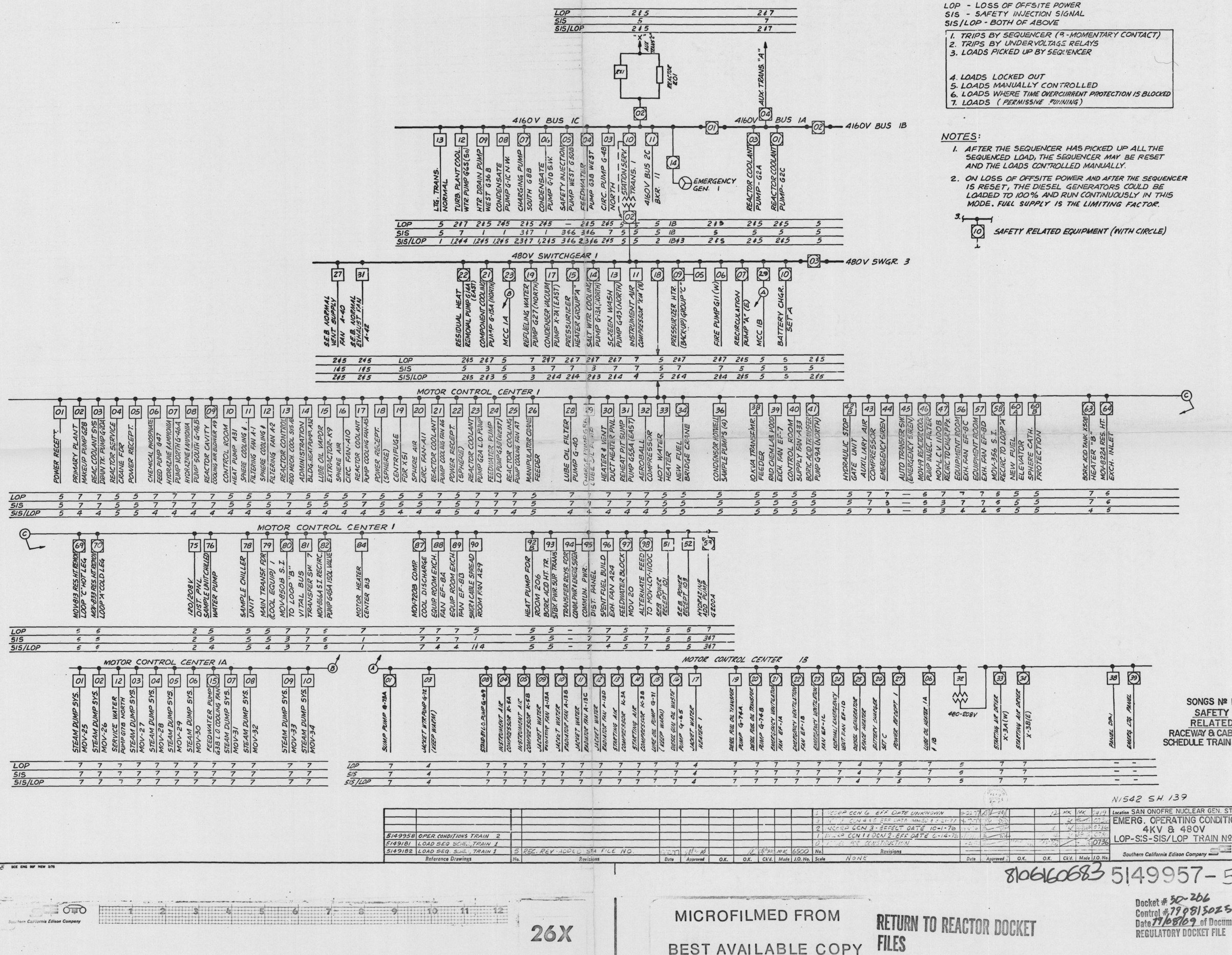
OPERATING CONDITIONS
LOP - LOSS OF OFFSITE POWER
SIS - SAFETY INJECTION SIGNAL
SIS/LOP - BOTH OF ABOVE
1. TRIPS BY SEQUENCER (9 - MOMENTARY CONTACT)
2. TRIPS BY UNDERVOLTAGE RELAYS
3. LOADS PICKED UP BY SEQUENCER
4. LOADS LOCKED OUT
5. LOADS MANUALLY CONTROLLED
6. LOADS WHERE TIME OVERCURRENT PROTECTION IS BLOCKED
7. LOADS (PERMISSIVE RUNNING)
NOTES:
1. AFTER THE SEQUENCER HAS PICKED UP ALL THE SEQUENCED LOAD, THE SEQUENCER MAY BE RESET AND THE LOADS CONTROLLED MANUALLY.
2. ON LOSS OF OFFSITE POWER AND AFTER THE SEQUENCER IS RESET, THE DIESEL GENERATORS COULD BE LOADED TO 100% AND RUN CONTINUOUSLY IN THIS MODE. FUEL SUPPLY IS THE LIMITING FACTOR.
3. SAFETY RELATED EQUIPMENT (WITH CIRCLE)
LOP 2&5 2&7
SIS 5 7
SIS/LOP 2&5 2&7
AUX TRANS "X"
AUX TRANS "A"
REACTOR 201
4160V BUS 1C
4160V BUS 1A
4160V BUS 1B
LTG. TRANS. NORMAL
TURB. PLANT COOL WTR. PUMP G65(5a)
HTR. DRAIN PUMP WEST G36B
CONDENSATE PUMP G-1C N.W.
CHARGING PUMP SOUTH G6B
CONDENSATE PUMP G-1D S.W.
SAFETY INJECTION PUMP WEST G50B
FEEDWATER PUMP G3B WEST
CIRC. PUMP G-4B NORTH
STATION SERV. TRANS. 1
4160V BUS 2C BKR. 11
EMERGENCY GEN. 1
REACTOR COOLANT PUMP- G2A
REACTOR COOLANT PUMP- G2C
480V SWITCHGEAR 1
480V SWGR. 3
S.E.B. NORMAL VENT SUPPLY FAN A-40
S.E.B. NORMAL EXHAUST FAN A-42
RESIDUAL HEAT REMOVAL PUMP G14A (EAST)
COMPONENT COOLING PUMP G-15A (NORTH)
MCC 1A
REFUELING WATER PUMP G27 (NORTH)
CONDENSER VACUUM PUMP X-7A (EAST)
PRESSURIZER HEATER GROUP "A"
SALT WTR COOLING PUMP G-33A (NORTH)
SCREEN WASH PUMP G43 (NORTH)
INSTRUMENT AIR COMPRESSOR "A" (S)
PRESSURIZER HTR. (BACKUP) GROUP "C"
FIRE PUMP G11 (W)
RECIRCULATION PUMP "A" (E)
MCC 1B
BATTERY CHGR. SET A
MOTOR CONTROL CENTER 1
POWER RECEPT.
PRIMARY PLANT MAKEUP PUMP G28
REAC. COOLANT SYS DRAIN TK. PUMP G32A
REACTOR SERVICE CRANE FOR
POWER RECEPT.
CHEMICAL PHOSPHATE FEED PUMP G47
HYDRAZINE AMMONIA PUMP NORTH G46A
HYDRAZINE AMMONIA PUMP SOUTH G46B
REACTOR CAVITY COOLING AIR BLOWER #9
CONTROL ROOM HEAT PUMP A31
SPHERE COOLING #1
FILTERING FAN A-1
SPHERE COOLING #2
FILTERING FAN A-2
REACTOR CONTROL ROD MECH. COOL SYS A2
ADMINISTRATION BLDG. HEAT PUMP A32
LUBE OIL VAPOR EXTRACTOR K9
SPHERE AIR CIRC. FAN A10
REACTOR COOLANT PUMP COOLING FAN A5
POWER RECEPT. (SPHERE)
CENTRIFUGE FOR X51
SPHERE AIR CIRC. FAN A11
REACTOR COOLANT PUMP COOLING FAN A6
POWER RECEPT. (SPHERE)
REACTOR COOLANT PUMP G2A L.O. PUMP
FEEDWATER PUMP L.O. PUMP G3A (WEST)
REACTOR COOLANT PUMP COOLING FAN A7
MANIPULATOR CRANE FEEDER
LUBE OIL FILTER PUMP G-4C
CHARGE PUMP G-5A
LUBE OIL PUMP G-5C
HEATER # VENT DUCT HEATER PNL
REHEAT PIT SUMP PUMP G55A (EAST)
AEROBALL COMPRESSOR
HOT WATER HEATER
NEW FUEL BRIDGE CRANE
CONDENSOR HOTWELL SAMPLE PUMPS (4)
10 KVA TRANSFORMR FEEDER
RAD CHEM LAB HOOD EXH. FAN EF-7
CONTROL ROOM SUPPLY FAN A33
BORIC ACID TRANSFER PUMP G9A (NORTH)
HYDRAULIC STOP GATE UNIT
AUXILIARY AIR COMPRESSOR
EMERGENCY SCREEN
AUTO TRANSFER SW (EMERGENCY SCREEN)
MOV-19 REACTOR COOL PUMP INLET. FILTER
MOV-4 C.V. I/D DB RECIRC TO CHARPPS.
EQUIPMENT ROOM EXH. FAN EF-8C
EQUIPMENT ROOM EXH. FAN EF-8D
MOV-356 S.I. RECIRC TO LOOP "A"
NEW FUEL ELEVATOR
SPHERE CATH. PROTECTION
BORIC ACID TANK X50B HEATER "B"
MOV-8224 RES. HT. EXCH. INLET
MOTOR CONTROL CENTER 1
MOV-813 RES. HT. REMOVAL LOOP "C" HOT LEG
MOV-833 RES. HT. REMOVAL LOOP "A" COLD LEG
120/208 V DIST. PNL. SAMPLE UNIT CHILLED WATER PUMP
SAMPLE CHILLER UNIT
MAIN TRANSF. FOR (COOL EQUIP.) 1
MOV-850B S.I. TO LOOP "B"
VITAL BUS TRANSFER SW. 7
MOV-856A S.I. RECIRC.
PUMP G45A 150L VALVE
MOTOR HEATER CENTER B13
MOV-720B COMP. COOL DISCHARGE
EQUIP. ROOM EXCH. FAN EF-8A
EQUIP ROOM EXCH. FAN EF-8B
SWGR. CABLE SPREAD ROOM FAN A29
HEAT PUMP FOR ROOM 206
BORIC ACID HT. TR.
STBY. PWR. SUP. TRANS
TRANSFER RLYS. FOR COMM. PWR & EMERG. SWGR
COMMUN. PWR. DIST. PANEL
SPENT FUEL BUILD EXH. FAN A24
FEEDWATER BLOCK MOV 20
ALTERNATE FEED TO MOV-LCV-1100C
SEB POWER RECEPT 101
SEB POWER RECEPT 103
HYDRAZINE ADD PUMP G200A
MOTOR CONTROL CENTER 1A
STEAM DUMP SYS. MOV-25
STEAM DUMP SYS. MOV-26
SERVICE WATER PUMP G17B NORTH
STEAM DUMP SYS. MOV-27
STEAM DUMP SYS. MOV-28
STEAM DUMP SYS. MOV-29
STEAM DUMP SYS. MOV-30
FEEDWATER PUMP G3B L.O. COOLING FAN
STEAM DUMP SYS. MOV-31
STEAM DUMP SYS. MOV-32
STEAM DUMP SYS. MOV-33
STEAM DUMP SYS. MOV-34
MOTOR CONTROL CENTER 1B
SUMP PUMP G-73A
JACKET WTR PUMP G-12 (KEEP WARM)
STEAM SYS L.O. PUMP G-69
INSTRUMENT AIR COMPRESSOR K-6A
INSTRUMENT AIR COMPRESSOR K-6B
JACKET WATER RADIATOR FAN A-13A
JACKET WATER RADIATOR FAN A-13B
JACKET WATER RADIATOR FAN A-13C
JACKET WATER RADIATOR FAN A-13D
STARTING AIR COMPRESSOR K-3A
STARTING AIR COMPRESSOR K-3B
LUBE OIL PUMP G-11 (KEEP WARM)
DIESEL GEN. OIL WATER PUMP G-6S
JACKET WATER HEATER 1
DIESEL FUEL OIL TRANSFER PUMP G-74A
DIESEL FUEL OIL TRANSFER PUMP G-74B
EMERGENCY VENTILATION FAN EF-1A
EMERGENCY VENTILATION FAN EF-1B
EMERGENCY VENTILATION FAN EF-1C
NORMAL/EMERGENCY VENT. FAN EF-10
DIESEL GENERATOR SPACE HEATER
BATTERY CHARGER SET C
POWER RECEPT. 1
LUBE OIL HEATER 1A
LUBE OIL HEATER 1B
480-208V
STARTING AIR DRYER X-3A(W)
STARTING AIR DRYER X-3B(E)
PANEL DPJ
EMERG. LTG. PANEL
SONGS № 1
SAFETY
RELATED
RACEWAY & CABLE
SCHEDULE TRAIN "F"
N1542 SH 139
5149958 OPER. CONDITIONS TRAIN 2
5149181 LOAD SEQ. SCHED., TRAIN 1
5149182 LOAD SEQ. SCHED., TRAIN 1
Reference Drawings
5 REC. REV - ADDED STA FILE NO.
Revisions
Location SAN ONOFRE NUCLEAR GEN. STA.
EMERG. OPERATING CONDITION
4KV & 480V
LOP-SIS-SIS/LOP TRAIN № 1
Southern California Edison Company
8106160683 5149957-5
Docket # 50-206
Control # 7908150253
Date 7/16/8169 of Document
REGULATORY DOCKET FILE
MICROFILMED FROM BEST AVAILABLE COPY
RETURN TO REACTOR DOCKET FILES
26X