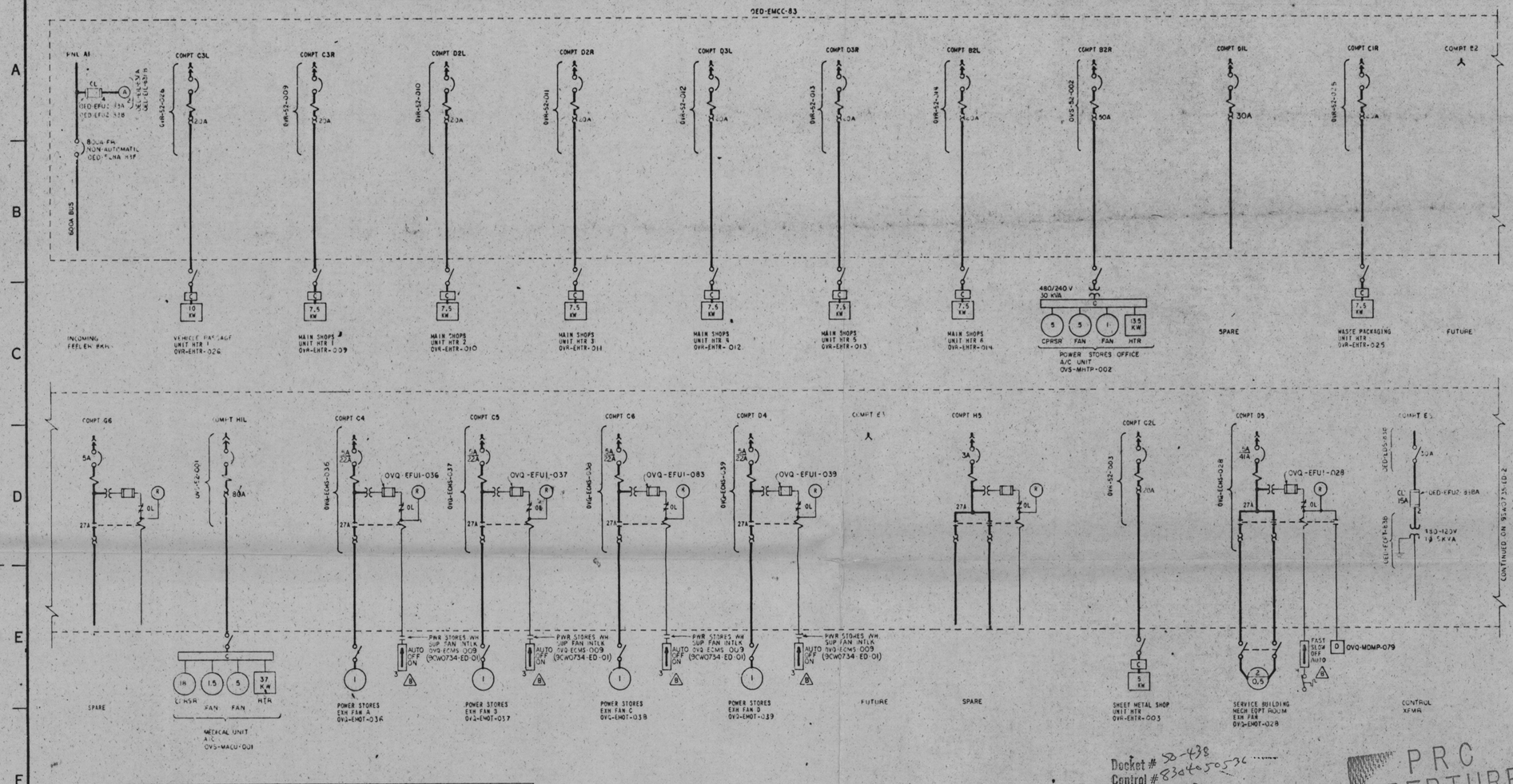
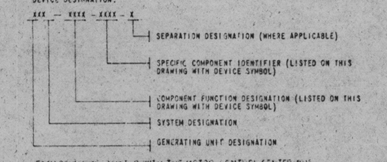


REFERENCE DRAWINGS	
DWG NO	TITLE
25W0720-RP-1	PLANT AC AUX PWR SYS-SINGLE LINE
25W0720-ED-1	480V SWGR TXR (OED-EUT-3-1) SINGLE LINE
25W0740-****	SCHEMATICS SERIES
50W0742-002	TYP MCC SCHEMATICS

* * SYSTEM NUMBER

NOTES:

1. 480V MCC PROVIDED ON CONTRACT NO. 76K5-86242.
2. THE FOLLOWING UNIQUE SCHEME SHALL BE USED TO IDENTIFY THE MCC SWITCHGEAR AND DEVICE DESIGNATION.



EACH DEVICE ASSOCIATED WITH THE MOTOR CONTROL CENTER-PLUS AUXILIARY CONTROL POWER TRANSFORMER MAIN SUPPLY OR SPARE CIRCUIT BREAKER IS PART OF THE 480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM WITH SYSTEM DESIGNATION ED.

3. ALL MOLDED CASE CIRCUIT BREAKERS ARE 3-POLE, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 65,000 SYMMETRICAL RMS AMPS AT 480V. ALL CIRCUIT BREAKERS ARE 100A FRAME EXCEPT AS NOTED. FOR CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP THE SHUNT COIL TRIP VOLTAGE SHALL BE 55% OF THE RATED VOLTAGE OF THE COIL.
4. ALL MOTOR STARTERS WILL UTILIZE CIRCUIT BREAKERS WITH ADJUSTABLE MAGNETIC TRIP SETTINGS. ALL OTHER CIRCUIT BREAKERS HAVE THERMAL MAGNETIC TRIP.
5. ALL MOTOR STARTERS SHALL BE PROVIDED WITH 3 ELECTRICALLY SEPARATE AUXILIARY CONTACTS.
6. ALL SINGLE COMPARTMENT CONTROL TRANSFORMERS ARE 1.3 KVA 480-120V 150VA WITH PROVIDED SECONDARY UNLESS OTHERWISE NOTED. FUSES 1.5 AMP EXCEPT AS NOTED.
7. A 120V RED INDICATING LIGHT TO BE PROVIDED IN COMPARTMENTS SHOWN AND PARALLELED WITH THE STARTER COIL.
8. GROUND FAULT PROTECTION (50G5) FOR INDIVIDUAL LOADS SHOWN SHALL BE SET TO PICKUP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
9. UNLESS OTHERWISE SHOWN ALL COMPONENTS EXTERNAL TO THE MOTOR CONTROL CENTER ARE ASSIGNED UNIQUE IDENTIFICATION NUMBERS AS SHOWN IN PARENTHESIS UNDER SYMBOLS WHERE "XXX" INDICATES DIGITS THAT ARE THE SAME AS THOSE SHOWN FOR THE LOAD.

SYMBOLS:

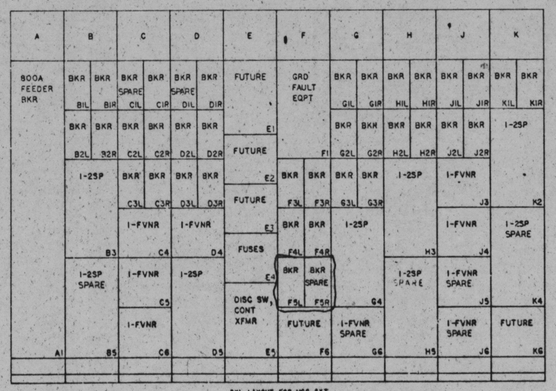
- D - - - MOTOR OPERATED DAMPER
- C - - - CONTROL SUPPLIED BY MFR
- R - - - RED INDICATING LIGHT (XXX-EIL-XXX)
- MAG. TRIP ONLY BKR
- X - CONTINUOUS CURRENT TRIP
- Y - TRIP SETTING
- - - - DISCONNECT SWITCH (XXX-EDS-XXX)
- - - - HAND INDICATING SWITCH (XXX-EHIS-XXX)

△1 LOCATED ON CONTROL PNL IN CRAFT FORMANS OFFICE.

△2 LOCATED IN ROOM OR AREA SERVED.

△3 LOCATED NEAR **N OR EQUIPMENT CONNECTED.

THERMOSTAT (XXX-ETH-XXX)



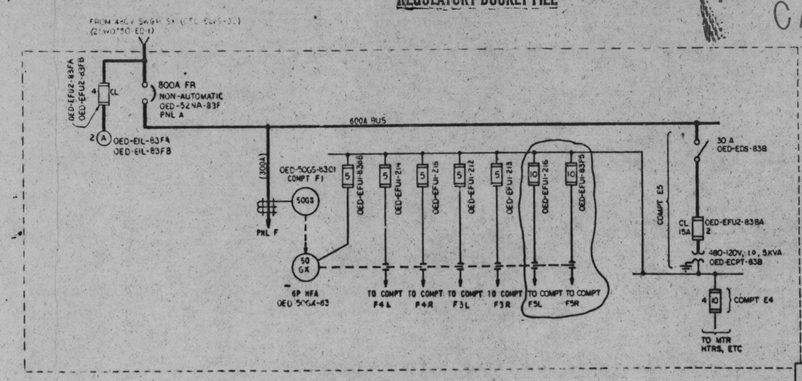
PNL LAYOUT FOR MCC SXZ

PRINTS REQD R.C. BR. H. PROJ.

DWG	SIZE
F	H
ME	
EE	
CE	
AD	
CO	
EO	
MD	
BF	
SW	
BL	
PA	

Docket # 50-438
Control # 8304050526
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD



KEY DIAGRAM

COMPANION DWG: 9SW0735-ED-2

INSPECTED AND APPROVED FOR ISSUE
DESIGN PROJECT MANAGER

REV NO.	ECN NO.	DATE	DSGN	DFTG	CHKD	SUPV	ENGR	REP	SUBM	RECM	APPR
5	11303										
	ECN-1303 ADD RCPT FOR WELDING ROD OVEN										
5	704,747										
	ECN-747 ADD PWR STORES OFF ACU ECN-704 CHGS DUE TO DUPLEX SEWAGE GRINDER PUMP ADDITION										
4	576										
	ECN-576 CHGS DUE TO POWER STORES STACK SYSTEM ADDITION										
3	471,51										
	ECN-471 CHGS DUE TO MFR'R INFO, ECN-51 MINOR CHANGES										
2	184,51,184										
	ECN-51 MINOR CHANGES, ECN-184 REMOVE SMPRS & UNIT HEATERS UPDATE TO SHOW LATEST COMPT. ASSIGNMENTS & VENDOR AS CONSTRUCTED CHANGES.										
1	50,138										
	ECN 138 REV TO SHOW CHGS IN GENERAL ARRANGEMENT OF SHOPS SINGS & REV GRID NOS. ECN 138 REVISE TO SHOW LATEST FAN HP RATINGS, UNIT NOS. & EXH FRIP SETTINGS.										

DSGN J. A. DEBUE
DRWN G. G. [illegible]
CHKD J. W. [illegible]
SUPV J. A. BLOODGOOD
INSP
ENGINEER

SERVICE & OFFICE BUILDING

UNIT 1 & 2

SINGLE LINE
480 V MCC SXZ
OED-EMCC-83

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED
[signature]	[signature]	[signature]

KNOXVILLE 12-20-74 88 E 9SW0735-ED-1 R

RECORD DRAWING AS CONSTRUCTED