



Carolina Power & Light Company

SERIAL: NLS-85-076

MAR 14 1985

Director of Nuclear Reactor Regulation
Attention: Mr. D. B. Vassallo, Chief
Operating Reactors Branch No. 2
Division of Licensing
United States Nuclear Regulatory Commission
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 & 50-324/LICENSE NOS. DPR-71 & DPR-62
EMERGENCY DIESEL GENERATORS - REQUEST FOR INFORMATION

Dear Mr. Vassallo:

By letter dated January 30, 1985 and received February 4, 1985, Carolina Power & Light Company (CP&L) was requested to provide information on shared emergency diesel generators at the Brunswick Steam Electric Plant Unit Nos. 1 and 2. This request was generated as a result of a condition identified at the Surry Station where for certain conditions of the onsite power system the engine louvers (a support auxiliary) for the swing diesel would not be provided with electrical power. The concern was raised that if the engine louvers did not open to provide proper ventilation, the swing diesel generator may overheat and not be able to perform its safety function.

In order to determine whether this condition exists for other multi-unit sites which use shared emergency diesel sets, the commission requested the following information:

1. A list of all support auxiliaries which require electrical power to support proper operation of the shared emergency diesel generator sets. For cases where all of the shared emergency diesel generator sets are identical only a single list of such support auxiliaries should be provided.
2. Supplement the list of items provided in item 1 with appropriate electrical single line and other schematic diagrams which will permit verifying that all of the identified support auxiliaries are provided with electrical power for all conditions of the station which require the use of the shared emergency diesel generator sets.

The Brunswick Plant does not use a swing diesel generator configuration. Four diesels each serving separate emergency electrical buses are used. These diesels are effectively set up as two per unit. However, in the unlikely event of a loss of offsite power concurrent with a loss of coolant accident (LOCA), either unit could be safely shutdown even if the two diesels dedicated to that unit were not functional. For the reasons stated above, CP&L does not believe that the condition identified at the Surry Station is relevant to the Brunswick site.

Because the company did not feel that the situation described was relevant to the Brunswick Plant and because of the extensive manpower and time required in addition to efforts already being dedicated to the upcoming refueling outage for Unit 1, we initiated a call to your staff on February 28, 1985 to discuss our position. As a result of that call, your staff agreed that the drawings listed below would be sufficient for them to perform their review.

411 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

8503190550 850314
PDR ADOCK 05000324
P PDR

*AO15
APERTURE CARD DIST.
DRAWINGS TO PM*

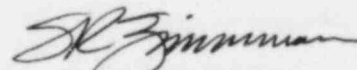
Mr. D. B. Vassallo
Page 2

The following drawings are attached for your use in resolving this issue.

<u>DRAWING NO.</u>	<u>REVISION</u>	<u>DESCRIPTION</u>
9527-F-3003	10	4160V E3 & E4
9527-F-3004	10	4160V E1 & E2
9527-F-3044	7	480V Key One Line Drawing
9527-F-3057	12	480V MCC's DGA, DGB, DGC, DGD
9527-LL-9111 SH. 21	3	Core Spray Pump 1A
9527-LL-9111 SH. 22	6	Core Spray Pump 1A
9527-LL-9204 SH. 37	3	Ventilation Fan G-EF-DG
9527-LL-9204 SH. 59	5	Ventilation Fan A-SF-DG
9527-D-4101	4	DG Building Ventilation System

Should you have any questions concerning this issue, please contact Mr. Richard J. Fasnacht at (919) 836-7318.

Yours very truly,

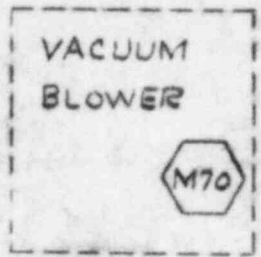


S. R. Zimmerman
Manager
Nuclear Licensing Section

RWS/pgp (1238RWS)

Attachments

cc: Dr. J. Nelson Grace (NRC-RII)
Mr. L. W. Garner (NRC-BNP)
Mr. M. Grotenhuis (NRC)

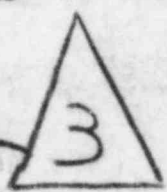


DQ7-YV2 (C)
4/c #12

Also Available On Aperture Card

NOTE:
ALL WIRE NO'S TO BE PREFIXED WITH CIRCUIT NO. DQ7.

TI APERTURE CARD



3	AS BUILT TO SHOW APPENDIX 'R' DATA 8-20-84
2	DELETED AS PER UBX 2702 5-20-74
1	ADDED REF DWG NOS. REMOVED RELAY COMPT ECG CABLE D 3/26/73
0	FIRST ISSUE
REV	DESCRIPTION

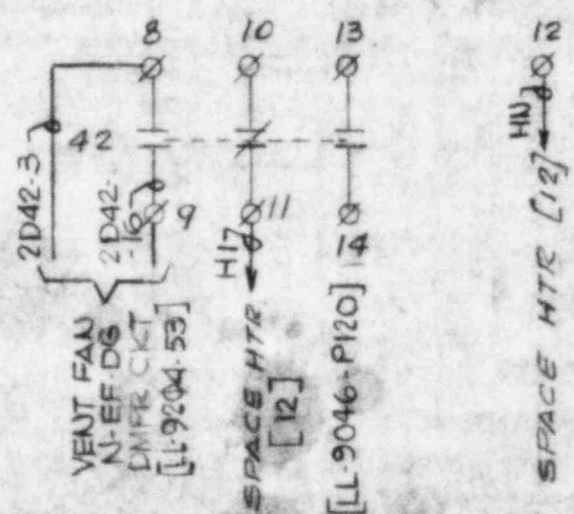
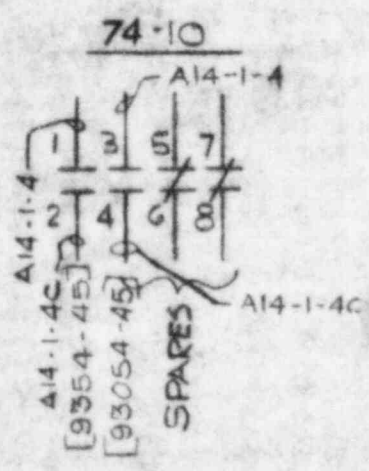
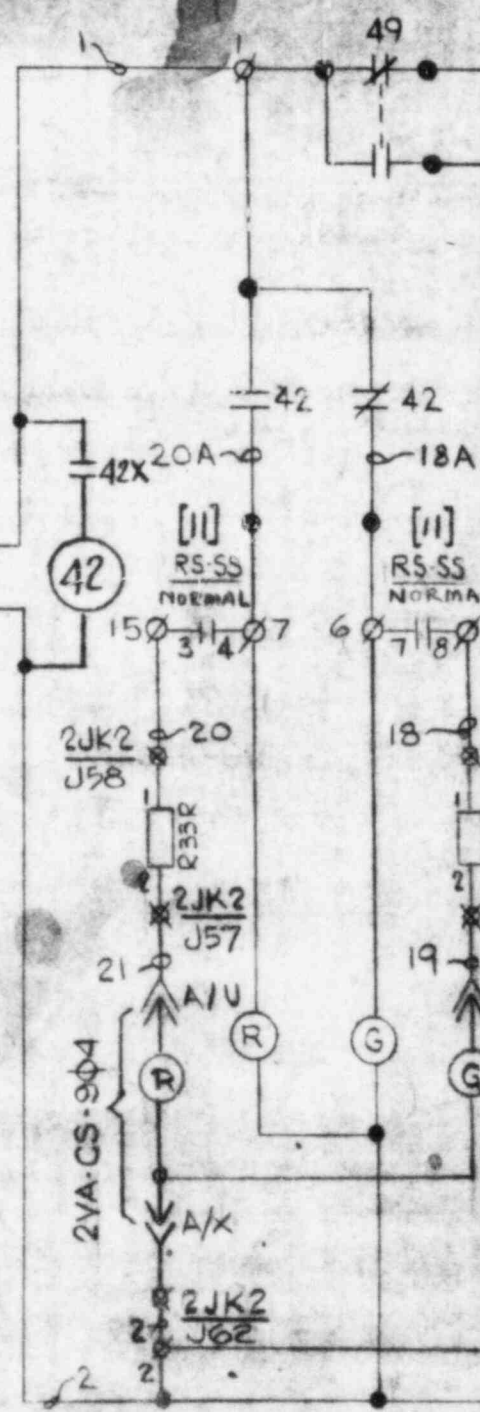
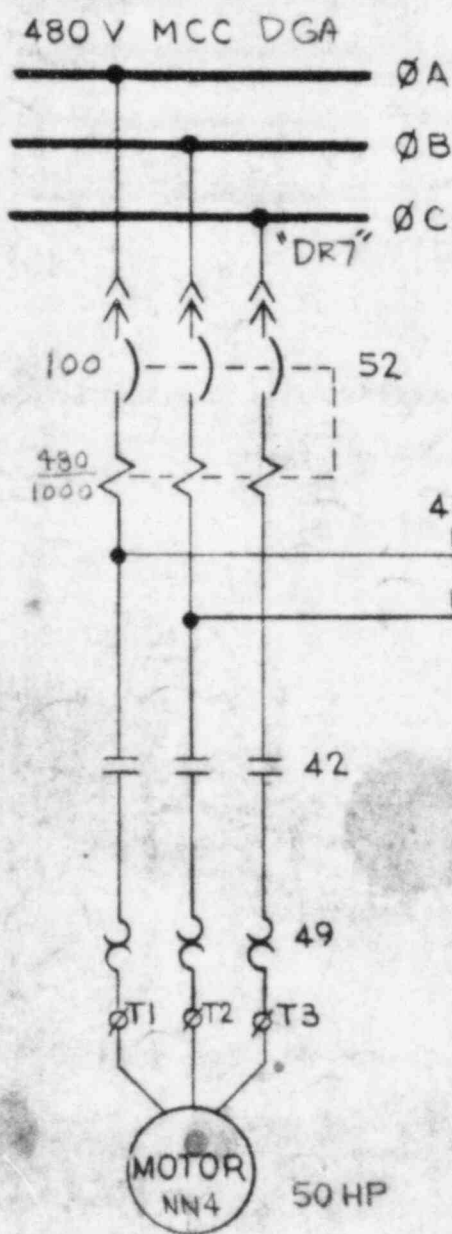
8503190550-01

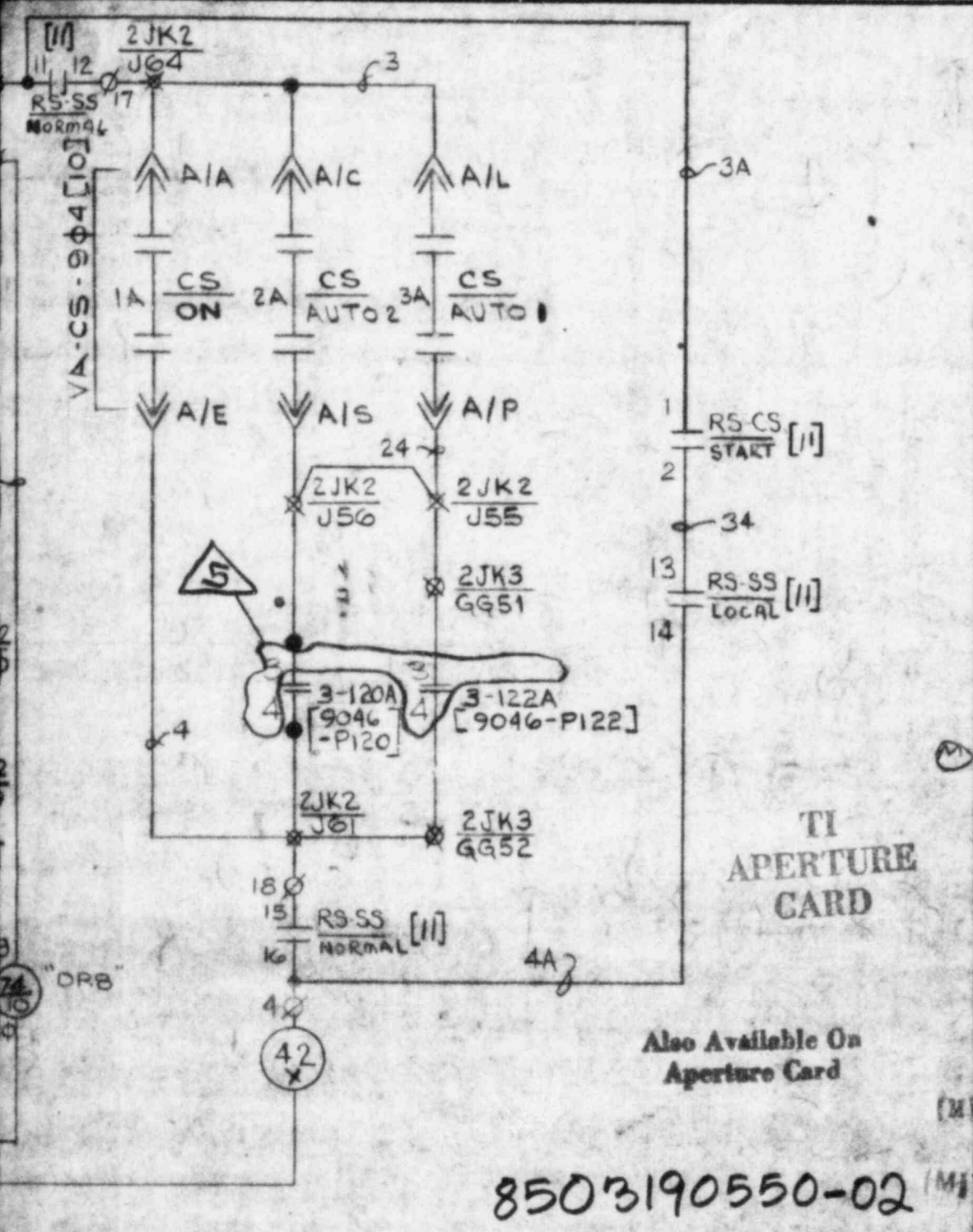
A A R D V A R C	
CATEGORY: ASS. REQ'D POS: OP	
SAFE SHUTDOWN	
	CABLES WIRE NUMBERS
0 (CR/LOC)	A/C 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
P (CR)	
Y (LOCAL)	
DEVICES	
NON-SAFE SHUTDOWN	
CABLES	
REASON	
REF: APP. K ALT. SHUTDOWN CAP. REPORT	

ENGINEER *C. Berman* DATE 1/4/74
STATE REG. NORTH CAROLINA No.

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NOS. 1 & 2 - MCC "DGA" - COMPT "DQ7"
DIESEL GENERATOR NO. 1
CRANKCASE VACUUM BLOWER
CABLE DIAGRAM





5	AS BUILT PER PM 80-140
4	3-17-80 DWG. UPDATE & AS BUILT PER PM 77-370-A BP
3	5/16/75 REV. PER FECP #1109 L.C.
2	ADDED DRB & ANN. DWG. REF 8-21-74 TJK
1	8-22-73 ADDED CONTROL CKT. FOR STR.
0	FIRST ISSUE
REV	DESCRIPTION

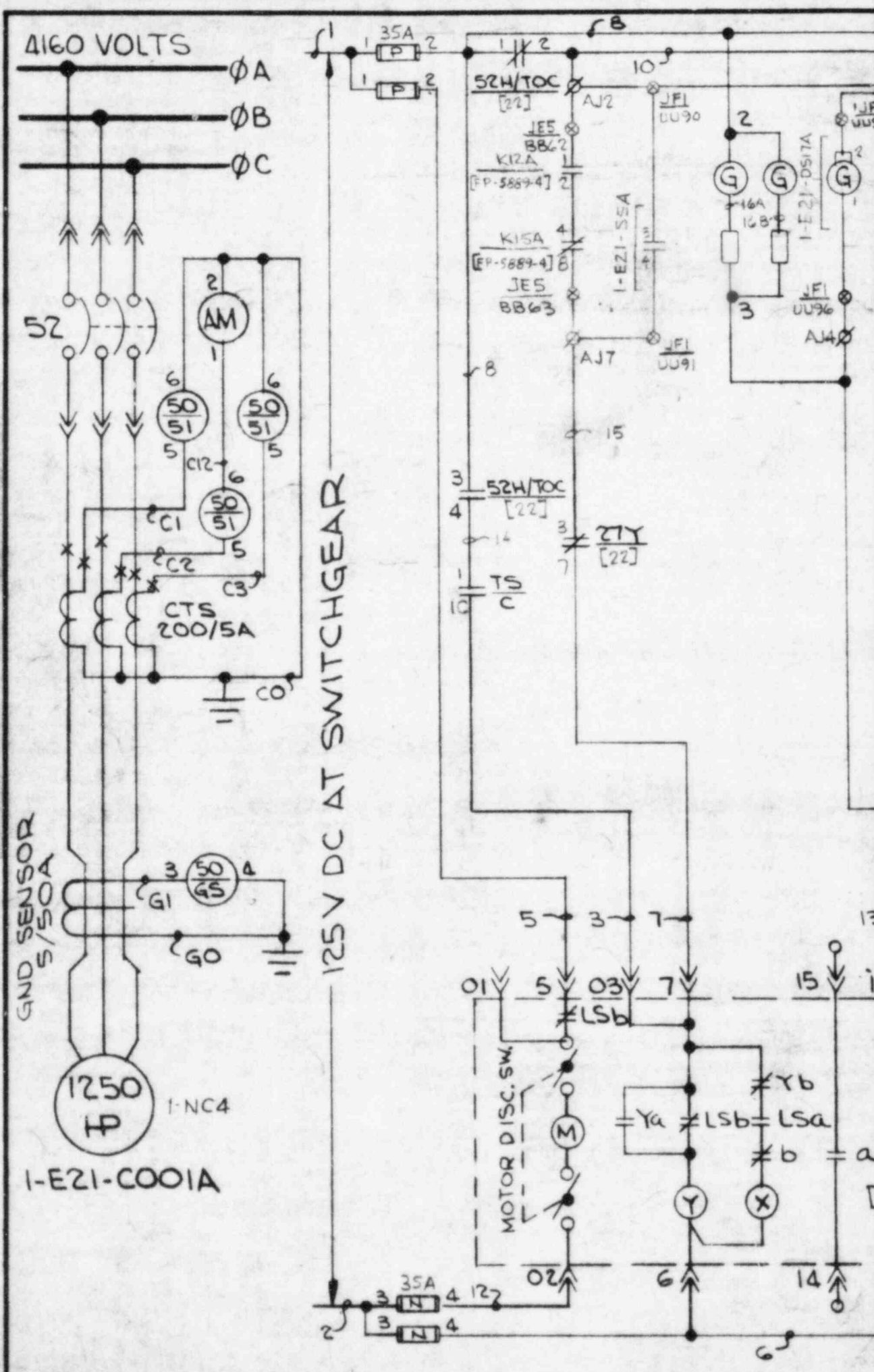
8503190550-02

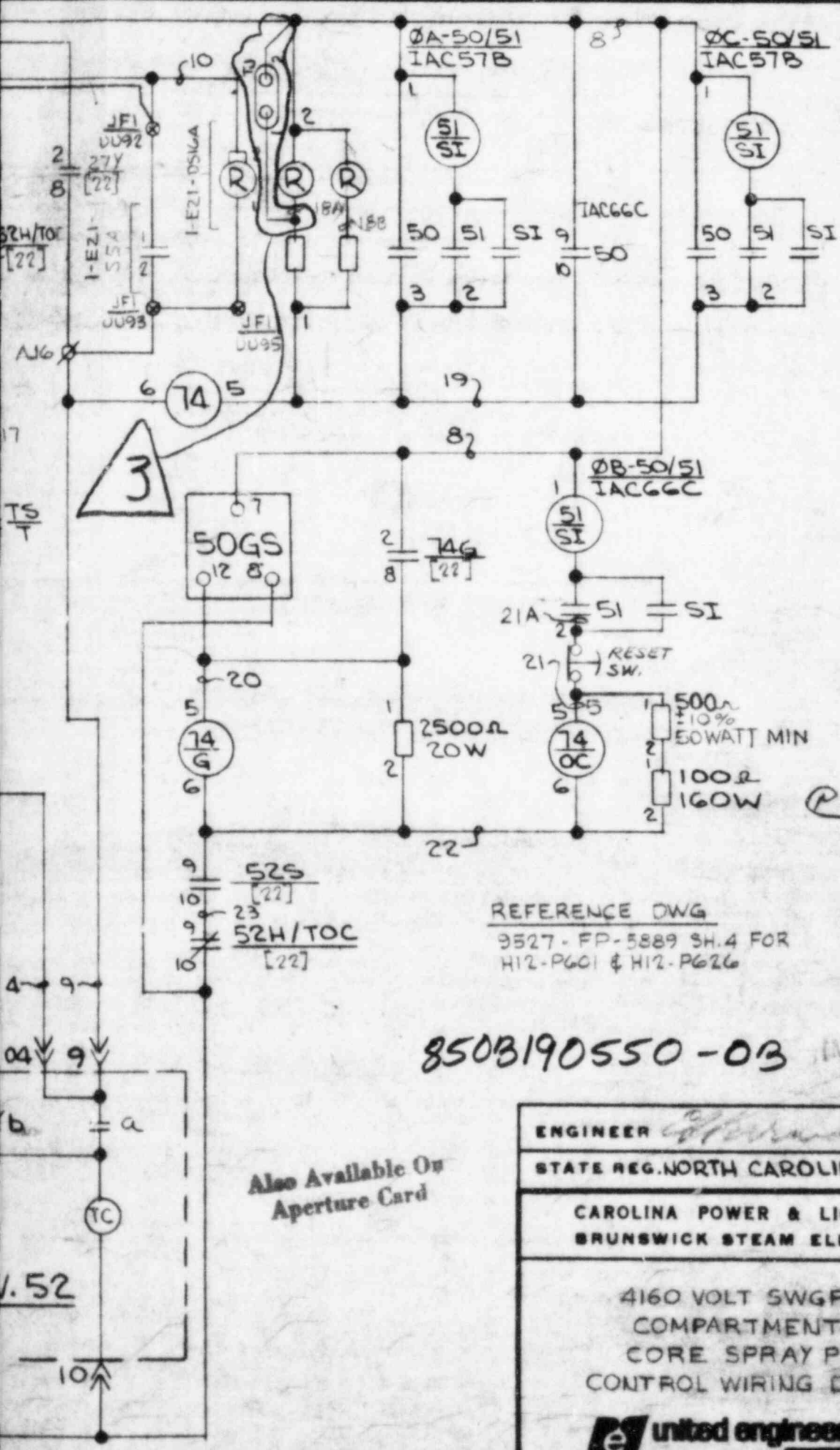
2021
SPARE TERMINALS

42X
[THIS SH]
SPARE

ENGINEER *Chapman* DATE 3/26/73
 STATE REG. NORTH CAROLINA No. 6037
 CAROLINA POWER & LIGHT COMPANY
 BRUNSWICK STEAM ELECTRIC PLANT
 UNIT NOS. 1 & 2 - MCC "DGA" - COMPT "DR7"
 VENTILATION SUPPLY AIR FAN
 A-SF-DG
 CONTROL WIRING DIAGRAM

DRAWING TRANSFERRED TO
 THE CUSTODY OF CP&I
 REV 3 UC 33252





TI APERTURE CARD

REFERENCE DWG
9527-FP-5889 SH.4 FOR
H12-P601 & H12-P626

8503190550-03

3	2-21-79 AS BUILT PER PM 77-137 BP
2	AS BUILT PER FECF-1127 2-10-76 AFB 3-1-75
1	REV FOR CHECK OF SYSTEM E21
0	FIRST ISSUE
REV	DESCRIPTION

Also Available On
Aperture Card

ENGINEER *[Signature]* DATE 10/13/72

STATE REG. NORTH CAROLINA No. 6037

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT

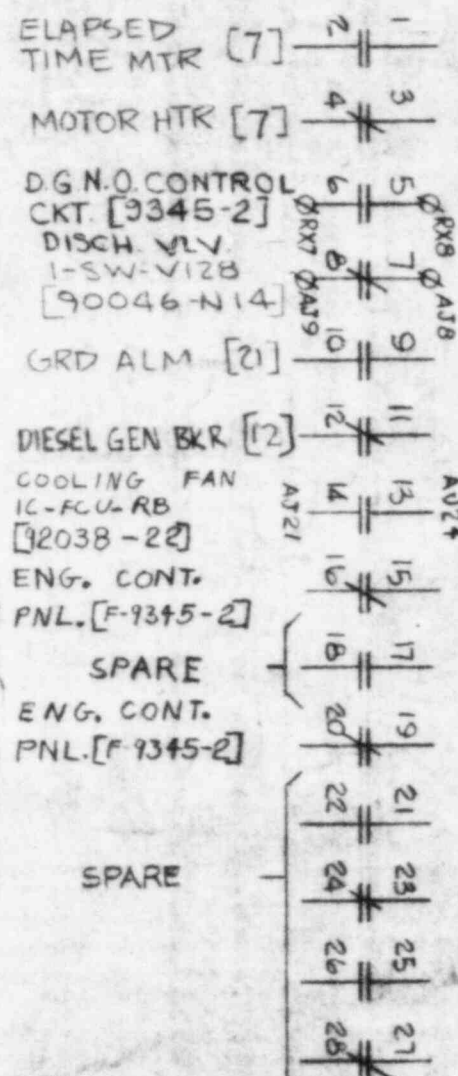
4160 VOLT SWGR E1
COMPARTMENT AF2
CORE SPRAY PUMP IA
CONTROL WIRING DIAGRAM

united engineers & constructors inc.

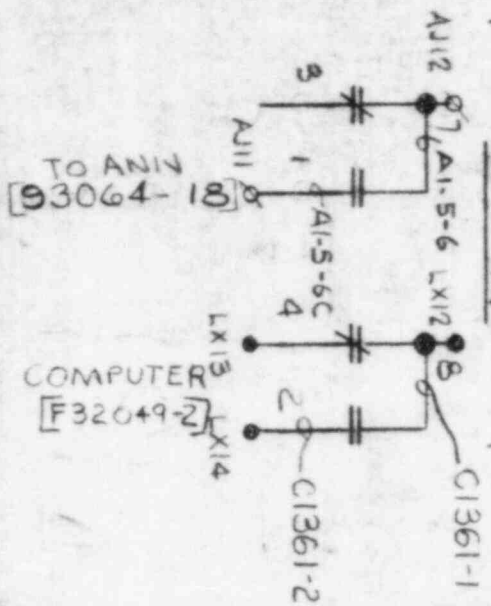
SH-21 9527-LL-9111

DRAWING TRANSFERRED TO
 THE CUSTODY OF CPAL
 REV 2/25/52 UC

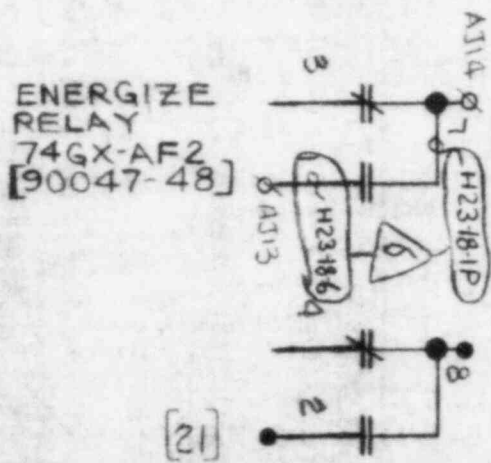
DEV 529 MECHANISM OPERATED SWITCHES



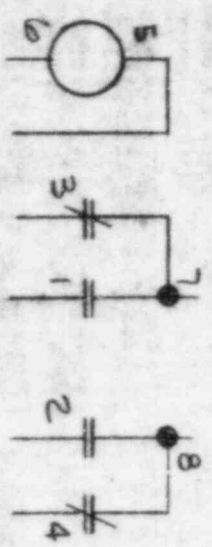
DEV. 74



DEV. 74G



DEV. 27Y

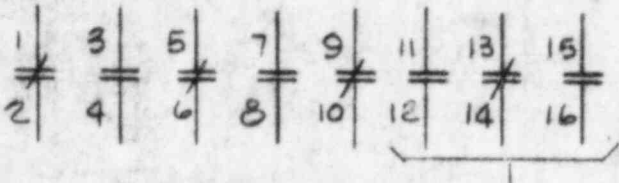


BUS PT COMPT [10]

[21]

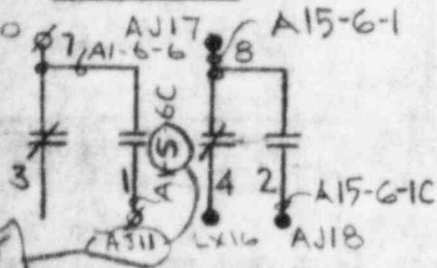
[21]

DEV. 52H / TOC



[2] [2] SPARE [2] [2] SPARE

DEV 740C



[93064-16]
TO ANN

[90047-49]

Also Available On Aperture Card

TI APERTURE CARD

8503190550-04

6	REV FOR CHECK OF SYSTEM E21 3-7-75
5	REVISE PER U.B.X. 4825 11-13-74
4	ADDED WIRE NOS, J.M. 9-16-74
3	ADDED WIRE NOS.
2	ADDED TERM. NO'S
1	ADDED ALARM CIRCUITS
REV. NO.	FIRST ISSUE
	DESCRIPTION

ENGINEER *J. J. Worman* DATE 10/13/72

STATE REG. NORTH CAROLINA No. 6037

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT

4160 VOLT SWITCHGEAR "E1"
COMPARTMENT "AF2"
CORE SPRAY PUMP 1A
CONTROL WIRING DIAGRAM

UNITED ENGINEERS & CONSTRUCTORS INC.

DOCUMENT PAGE PULLED

* OVERSIZE DUPLICATE DRAWINGS

SEE APERTURE CARDS

APERTURE CARD NO# 8202030262

AVAILABILITY PDR CF HOLD

NUMBER OF PAGES. 1

ADDITIONAL APERTURE CARD NUMBERS BELOW.

_____	_____
_____	_____
_____	_____
_____	_____