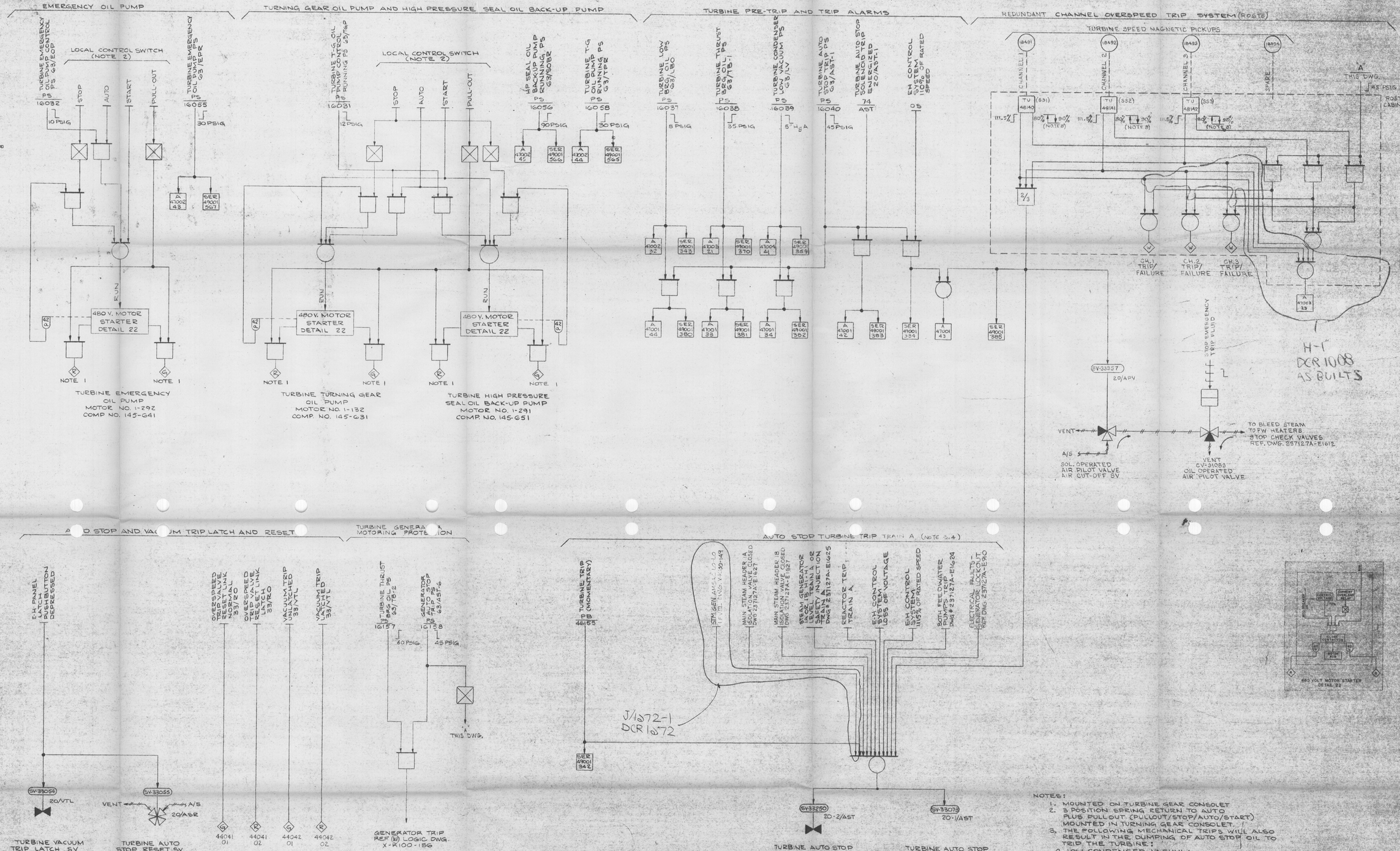

NOTES:

1. MOUNTED ON TURBINE GEAR CONSOLET
2. 3 POSITION SPRING RETURN TO AUTO PLUS PULLOUT (PULLOUT/STOP/AUTO/START) MOUNTED IN TURNING GEAR CONSOLET.
3. THE FOLLOWING MECHANICAL TRIPS WILL ALSO RESULT IN THE DUMPING OF AUTO STOP OIL TO TRIP THE TURBINE:
   a. LOW CONDENSER VACUUM
      10" Hg ABS. (UNLATCHED)
      2.5-4.5 PSIG (LATCHED)
   b. THRUST BEARING
      75-80 PSIG
   c. LOW BEARING OIL PRESSURE
      5-7 PSIG
   d. MANUAL TRIP OF OVERSPEED TRIP MECHANISM.
4.
5.
6.
7.
8. OUTPUT ALSO GOES TO LOGIC "1" ON CHANNEL FAILURE

DESIGN DRAWING FOR DCR 1672

237127A-E2057 J

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WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT - UNIT NO. 1
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INTEGRATED LOGIC DIAGRAM TURBINE SYSTEM

Designed By
Pioneer Service & Engineering Co.
Chicago, Ill. 60690

	DRAWN	DESIGNED	CHECKED	APPROVED	PROJECT & DWG. NO.	SHT
	4-19-72	JCC 4-12-73	MAB 4-12-73	4-19-73	237127A-E2057 J	2 OF 4

REVISIONS

B REVISED TURB GEN MOTOR PROTECT SETPOINT DWN: JCC CHKD: KM 8-7-73 APPD: JCC 8-13-73 FILMED: 8-22-73

C REMOVED SIGNAL TO 2CHEATER STM SUPPLY VLV ON E1629. DWN: F.J.T. 11-21-73 CHKD: WRD 11-23-73 APPD: JCC 11-23-73 FILMED: 11-30-73

D ADDED SIGNALS FROM MS ISOLATION VLVS TO THE TURB AUTO STOP TRIP SYS. (DCM-188) DWN: TY MOY 4-30-74 CHKD: MAB 5-2-74 APPD: JCC 5-3-74 FILMED: 5-6-74

E CHANGED THE ALARM POINT ASSOCIATED WITH PS-16056 FROM 4700244 TO 4700245 "AS BUILT" DWN: TY MOY 7-1-74 CHKD: MAB 7-1-74 APPD: JCC 7-1-74 FILMED: 7-8-74

E-1 PDS PROJ. W80K207 DCR-1008 REMOVED SINGLE CHANNEL OVERSPEED TRIP SYSTEM. ADDED REDUNDANT CHANNEL OVERSPEED TRIP SYSTEM. DELETED ALARM A4700324 & SER 49001374. REVISED ALARMS A4700323, A4700149, & SER 49001385. REMOVED NOTES 4, 5, 6 & 7. ADDED NOTE 8. DWN: A.C.C. 3-3-82 CHKD: R.G. 3-15-82 APPD: DE COY 3-19-82

PDS FILMED 3-23-82

E-2 INFO. TRANS. PER DCR-1008 DWN: KUOPE 7-16-82 CHKD: SP 7-26-82

F DCR 1008 COMPLETE SEE REV. E-2 APPD: JTK 7-15-83 FILMED: (WPS) 8-17-83

F-1 ADDED NOTE TRAIN A TO TS STOP TURBINE GEN LOG E-8 PER DWG. DISCREP BY: E. TWETTEN 8-8-84 CHK: D.M.

G DRAWING DISCREPANCY COMPLETE SEE REV. F-1 APPD: B. BERNDT 12-14-84 FILMED: 2-22-84

G-1 DCR 1009 ADDED ANNUNCIATOR (A470093232) ACTIVATION FOR OVERSPEED TRIP RELAY ACTIVATION BY: KTD 9-3-84 CHK'D: JM 9-7-84

H DCR 1068 SEE DWG. SCG REV. G-1 APPD: PED 6-14-84 FILMED (WPS) 6-25-84

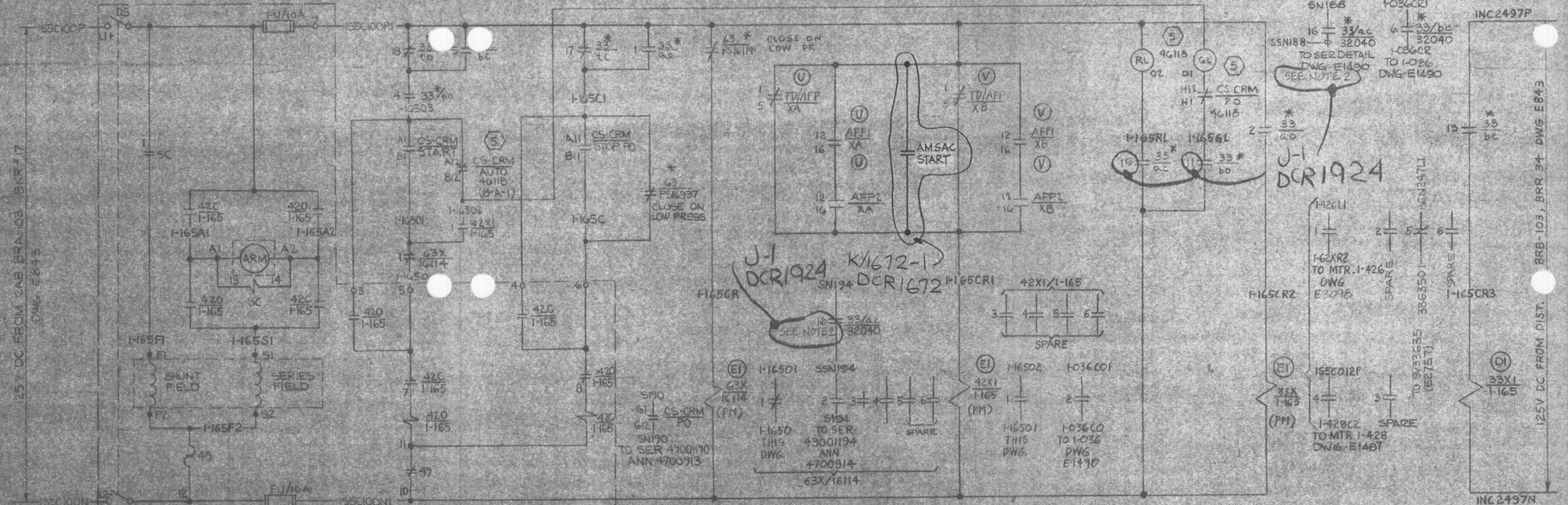
H-1 DCR 1008 AS BUILTS REVISED DWG. W. ROSLOWSKI CHANGES REQUESTED PER ETTWEIN DWN: KTD 11-2-89 CHKD: JM 11-2-89

J DCR 1672 CONTROL SEE REV. H-1 APPD: PED 11-13-89 FILMED (WPS) 11-27-89

DESIGN SECTION APPROVALS

SECTION	INITIALS	DATE
ELECTRICAL	DCM	4/17/73
ELEC. CONTROL		
LIGHTING		
MECHANICAL	JWL	4-17-73
INSTRUMENT		
NTB, PLG & VTL		
STR. ANAL. & SUP.		
NUCLEAR	K	4-18-73
HYDRAULIC		
STRUCTURAL		
SUPERVISOR		

SEAL



NOTES

1. * REMOTE MOUNTED DEVICE
CONTACT 10 ENABLES SER POINTS 188 AND 194 AND 189

J-1 DCR 1924

REFERENCES

1. COMPLETE ELECT. DWG. LIST--237127A-E200
2. SYMBOL LIST DWG-- 237127A-E1094

REVISIONS	
J-1	ADDED NOTE 2 & CHANGED CONTACT NUMBERS PER DCR 1924 BY BEHCOE 5-4-89 CHKD. JMS 11-29
L	DCR 1924 COMPL. PER REV. 11 APPD. DAO 5-28-87 ELMT. JMS 6-23-87
K/1672-1	ADDED AMSAC START PER DCR 1672 BY L. ZEHREN 2-17-88

REV. K/1672-1 ADDED AMSAC START PER DCR 1672 BY L. ZEHREN 2-17-88
INT. JMS FROM ELMT. JMS 6-23-87
CHKD. JMS 4-16-87
J DCR 1924 COMPL. PER REV. 11
INT. DAO FROM REV. 4 APPD. DAO 4-23-86
ELMT. JMS 4-23-86

33X1 1-165

1S6018P 1-052LJ
33X1 1-165 — 1-427C2 TO 1-427 DWG-E1487
33X1 1-165 — 1-052C2 TO 1-052 DWG-1443
SPARE

TI APERTURE CARD

DESIGN DRAWING FOR DCR 1672

AFW

2ND LEVEL REVIEW COMPLETED FOR:-		
SYST.	DWG.	DATE
FW II	237127A-E1486	3/5/87

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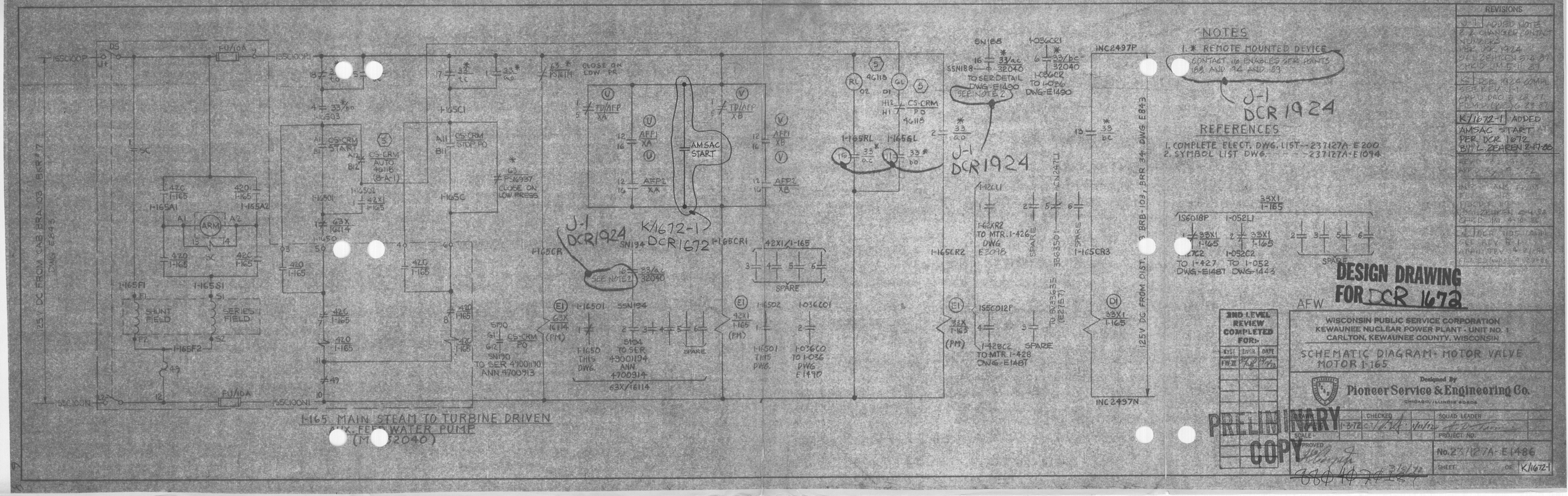
WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT - UNIT NO. 1
CARLTON, KEWAUNEE COUNTY, WISCONSIN

SCHEMATIC DIAGRAM - MOTOR VALVE MOTOR 1-165

Designed By
Pioneer Service & Engineering Co.
CHICAGO, ILLINOIS 60606

DRAWN	CHECKED	SQUAD LEADER
WEG 1-3-72		
SCALE:		PROJECT NO.
APPROVED 3/5/87		No. 237127A-E1486
		SHEET OF K/1672-1

8804070189



NOTES

1. * REMOTE MOUNTED DEVICE
CONTACT 16 ENABLES SER POINTS 188 AND 194 AND 189

J-1 DCR 1924

REFERENCES

1. COMPLETE ELECT. DWG. LIST--237127A-E200
2. SYMBOL LIST DWG. ---237127A-E1094

REVISIONS

J-1 ADDED NOTE 2 & CHANGED CONTACT NUMBERS PER DCR 1924 BY L. ZEHREN 5-4-87 CHK'D JM 5-11-87

K DCR 1924 COMPL SEE REV J-1 APP'D DAO 5-28-87 FILM'D (KIP) 6-23-87

K/1672-1 ADDED AMSAC START PER DCR 1672 BY L. ZEHREN 2-17-88

REV'D [illegible] APP'D [illegible]

INTERCHANGE FROM [illegible] CHK'D [illegible] BY L. ZEHREN 4-4-88 CHK'D JM 4-10-88

J DCR 1105 COMPL SEE REV J-1 APP'D [illegible] FILM'D [illegible]

DESIGN DRAWING FOR DCR 1672

AFW

2ND LEVEL REVIEW COMPLETED FOR:

SYST	ENGR	DATE
FW-II	[illegible]	[illegible]

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT - UNIT NO. 1
CARLTON, KEWAUNEE COUNTY, WISCONSIN

SCHEMATIC DIAGRAM - MOTOR VALVE MOTOR 1-165

Designed By
Pioneer Service & Engineering Co.
CHICAGO, ILLINOIS 60606

DRAWN	CHECKED	SQUAD LEADER
1-3-72	[illegible] 1/11/72	[illegible]
SCALE		PROJECT NO.
PROVED [illegible] 3/3/72		No. 237127A-E1486
		SHEET OF K/1672-1

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