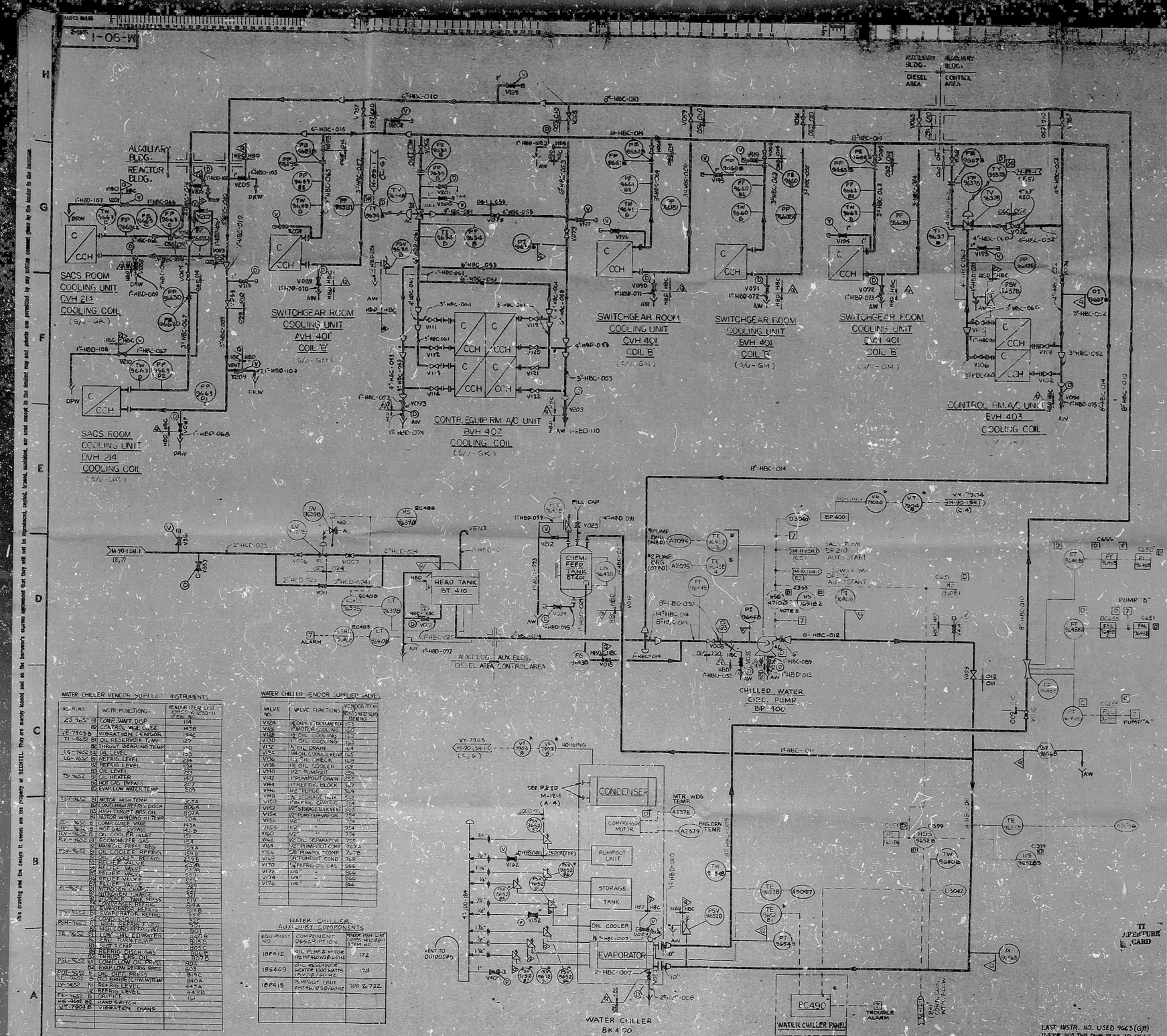

WATER CHILLER VENDOR SUPPLIED INSTRUMENTS

INSTR. NO	INSTR. FUNCTION	VENDOR ITEM LIST (DWG. M-250-11 ITEM NO.)
ZS 9652	B1 COMP. SHAFT DISP.	114
	B2 CONTROL VALVE CLOSE	M38
VE-7903B	B1 VIBRATION SENSOR	184C
TI-9652	B1 OIL RESERVOIR T. MI	127
	B2 THRUST BEARING TEMP.	110
LG-9652	B1 OIL LEVEL	103
LG-9652	B1 REFRIG. LEVEL	234
	B2 REFRIG. LEVEL	234
	B3 OIL LEVEL	739
TC-9652	B1 OIL HEATER	140
	B2 HOT GAS BYPASS	207
	B3 EVAP. LOW WATER TEMP.	205
TSH-9652	B1 MOTOR HIGH TEMP.	305A
	B2 COND. HIGH REFRIG. DISCH.	306A
	B3 HIGH THRUST BRG. OIL	307A
	B4 MOTOR WINDING HI TEMP.	304
ZC-9652	B1 COMP. GUIDE VANE	143A
HV-9652	B1 HOT GAS BYPASS	141B
TCV-9652	B1 OIL COOLER INLET	151
RV-9652	B1 ECONOMIZER GAS	154
	B2 MAIN OIL PRESS. REG.	157A
PSV-9652	B1 OIL COOLER REFRIG.	159B
	B2 OIL COOLER REFRIG.	159B
	B3 RELIEF VALVE	453B
	B4 RELIEF VALVE	453B
	B5 RELIEF VALVE	557
	B6 RELIEF VALVE	557
	B7 RELIEF VALVE	558
PI-9652	B1 NITROGEN CHARGE	521
	B2 NITROGEN CHARGE	521
	B3 CONDENSER TANK PRESS.	517
	B4 CONDENSER REFRIG.	519A
	B5 EVAPORATOR REFRIG.	519B
	B6 EVAPORATOR REFRIG.	519
PSH-7603	B1 COND. LIQUID	523
	B2 HIGH REFRIG. PRESS.	521
	B3 HIGH COND. REFRIG. PRESS.	501
TE-9652	B1 LOW CHILLED WATER	207B
	B2 END TURN TEMP.	905D
	B3 SUCTION	805C
	B4 REFRIG. DISCH. GAS	806B
	B5 THRUST BRG. OIL	307B
PSL-9652	B1 COMP. LOW OIL PRESS.	802
	B2 EVAP. LOW REFRIG. PRESS.	803
PDL-9652	B1 OIL DIFF. PRESS.	315C
TC-9652	B1 CO BRINE (CHW. W) TEMP.	240A
LV-9652	B1 REFRIG. LEVEL	445A
	B2 REFRIG. LEVEL	445B
FE-9652	B ORIFICE	161
HS-9652	B2 HAND SWITCH	
VT-7903B	VIBRATION TRANS.	

WATER CHILLER VENDOR SUPPLIED VALVES

VALVE NO.	VALVE FUNCTION	VENDOR ITEM LIST (DWG. M-250-11 ITEM NO.)
V126	3/4 OIL FILL TANK REF.	153
V127	1 MOTOR COOLING	150
V128	1/2 OIL COOLING	152
V130	1/2 OIL COOLING	163
V132	1/2 OIL DRAIN	164
V133	1/4 OIL COOLER VENT	165
V134	1/2 OIL CHECK	168
V138	1/2 OIL COOLER	169
V140	1/2 PUMPOUT	254
V142	1/2 PUMPOUT DRAIN	255
V144	1/2 REFRIG. BLOCK	347
V146	1/2 PURGE	349
V148	1/2 STORAGE TANK	512
V150	1/2 REFRIG. CHARGE	514
V152	1/2 STORAGE TANK VENT	515
V154	1/2 PUMPOUT VAPOR	754
V155	1/2 "	754
V155	1/2 "	754
V160	1/2 "	754
V162	1/2 OIL SEPARATOR	755
V164	1/2 PUMPOUT COND.	757A
V166	1/2 PUMPOUT COMP.	757B
V168	1/2 PUMPOUT COND.	758
V170	1/2 REFRIG. OIL GAS	866
V172	1/4 "	866
V174	1/4 "	866
V176	1/4 "	866

WATER CHILLER AUXILIARY COMPONENTS

EQUIPMENT NO.	COMPONENT DESCRIPTION	VENDOR ITEM LIST (DWG. M-250-11 ITEM NO.)
1BP412	OIL PUMP & MOTOR 1/12 HP 460 V/3Ø/60 HZ	172
1BE409	OIL RESERVOIR HEATER 1000 WATTS 115 V/1Ø/60 HZ	173
1BP415	PUMPOUT UNIT 2HP 460 V/3Ø/60 HZ	700 & 722

SYSTEM

REV.	REFERENCE DWGS	DATE	VERIFIED
1	DIESEL AREA CONTROL DIAGRAM	11-1-1	
2	CONTROL AREA CONTROL DIAGRAM	11-1-1	
3	DIESEL AREA CONTROL DIAGRAM	11-1-1	
4	CONTROL AREA COOLING SYSTEM	11-1-1	
5	DELETED		
6	REACTOR BLDG. SYSTEM DIAGRAM	11-1-1	
7	CONTR. AREA CHILLED WATER	11-1-1	
8	DIESEL AREA CHILLED WATER	11-1-1	
9	SAFETY AUX. COOLING SYS.	11-1-1	
10	REFRIG. MACHINE FLOW SCHEMATIC		
11	REFRIG. MACHINE ITEM LIST		

NOTES:

1. THE CONTROL EQUIP ROOM A/C UNITS, SWITCHGEAR ROOM COOLERS AND THE CHILLED WATER SYSTEM HEAD TANKS ARE LOCATED IN THE AUXILIARY BUILDING DIESEL AREA H&V EQUIPMENT ROOM.
2. THE CONTROL ROOM CHILLED WATER IS A SEISMIC CATEGORY I SYSTEM EXCEPT AS NOTED.
3. AIR VENTS SHALL BE INSTALLED AS REQUIRED.
4. COILS AND COIL PIPING ARE STARTUP SYSTEM GR, GP, OR GAL.
5. DELETED
6. AWS ARE NOT Q.
7. THIS P & ID CONTAINS SYSTEMS OR PORTIONS OF SYSTEMS:
   GJ - AUX. BLDG (CONTROL AREA) CHILLED WATER
   GK - AUX. BLDG (CONTROL & WING AREA) HVAC
   GM - AUX. BLDG (D.G. AREA) HVAC
   GR - REACTOR BLDG. HVAC
8. SELECTOR SWITCH HSS-4710 D IS A RSP CHANNEL TRANSFER SWITCH. THIS SWITCH IS SHOWN ONLY ONCE THIS P & ID, BUT THE SWITCH IS ALSO SHOWN OTHER P & IDS.
9. PRESSURE GAGE ROOT VALVES ON ASME SECTION III CLASS 2 OR CLASS 3 LINES ON THIS P & ID SHALL BE IN THE OPEN POSITION ONLY WHILE BEING READ BY AN OPERATOR. OTHERWISE, THESE ROOT VALVES SHALL REMAIN IN THE CLOSED POSITION.

I, Robert W. Henderson III being a registered professional engineer, certify that this document defines the requirements prescribed in the subparagraphs NA-1252(d), (e) of ASME Boiler and Pressure Vessel Code, Section III, 1974 Edition, with addenda through Winter 1975.

REV.	DATE	REVISIONS	DR.	CK.	PE	PM	CE	PM
A	11/15/75	REVISED TO INCORPORATE DCN'S M-2.3 & 3.4 & 4 AND FCR'S M-2.1 & 2 & BP-7294	M	BK				
A	7/8/75	REVISED PER FCR M-1640	KM	BK				
A	7/6/75	REVISED PER DCN 5 FOR M 858 & REVISION LIST	KM	BK				
A	5/14/75	REVISED PER DCN 4 AND REVISION LIST	BP	BK				
A	5/14/75	REVISED PER DCN'S 1, 2 & 3, COST REDUCTION ITEM 3&4 CHANGE LIST, CORRECTED COMPUTER POINT A2081 ON DCN #2 TO READ A2021	RL	BK				
A	4/4/75	REVISED PER REVISION LIST DESIGN PROGRESS ISSUE	RL	BK				
A	3/11/75	REVISED PER REVISION LIST QTS ISSUE						
A	2/7/75	INSTRUMENT DESIGN ISSUE REVISED PER LIST OF REVISIONS						
A	2/3/75	REVISED PER LIST OF REVISIONS	S	I	S	N	E	D
A	2/3/75	ISSUED FOR CONSTRUCTION	S	I	G	N	E	D

DR.	DATE	DESIGNED	CHECKED	PE	PM	CE	PM
NONE		J. KUO	A.L. ODEN				

BECHTEL
SAN FRANCISCO

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
HOPE CREEK GENERATING STATION

P&ID
AUXILIARY BUILDING CONTROL AREA
CHILLED WATER SYSTEM
CONTROL AREA CHILLERS

JOB NO.	DRAWING NO.	SHT.	REV.
10855	M-90-1 SHT-2	9	Q

LAST INSTR. NO. USED 9663 (GB)
INSTR. NOS. THIS DWG. 9634 TO 9663

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PDR RIDS

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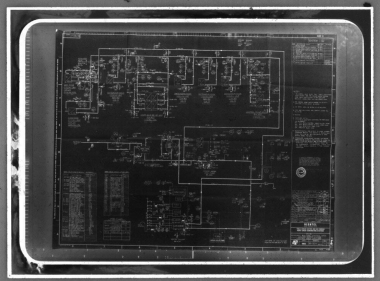

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