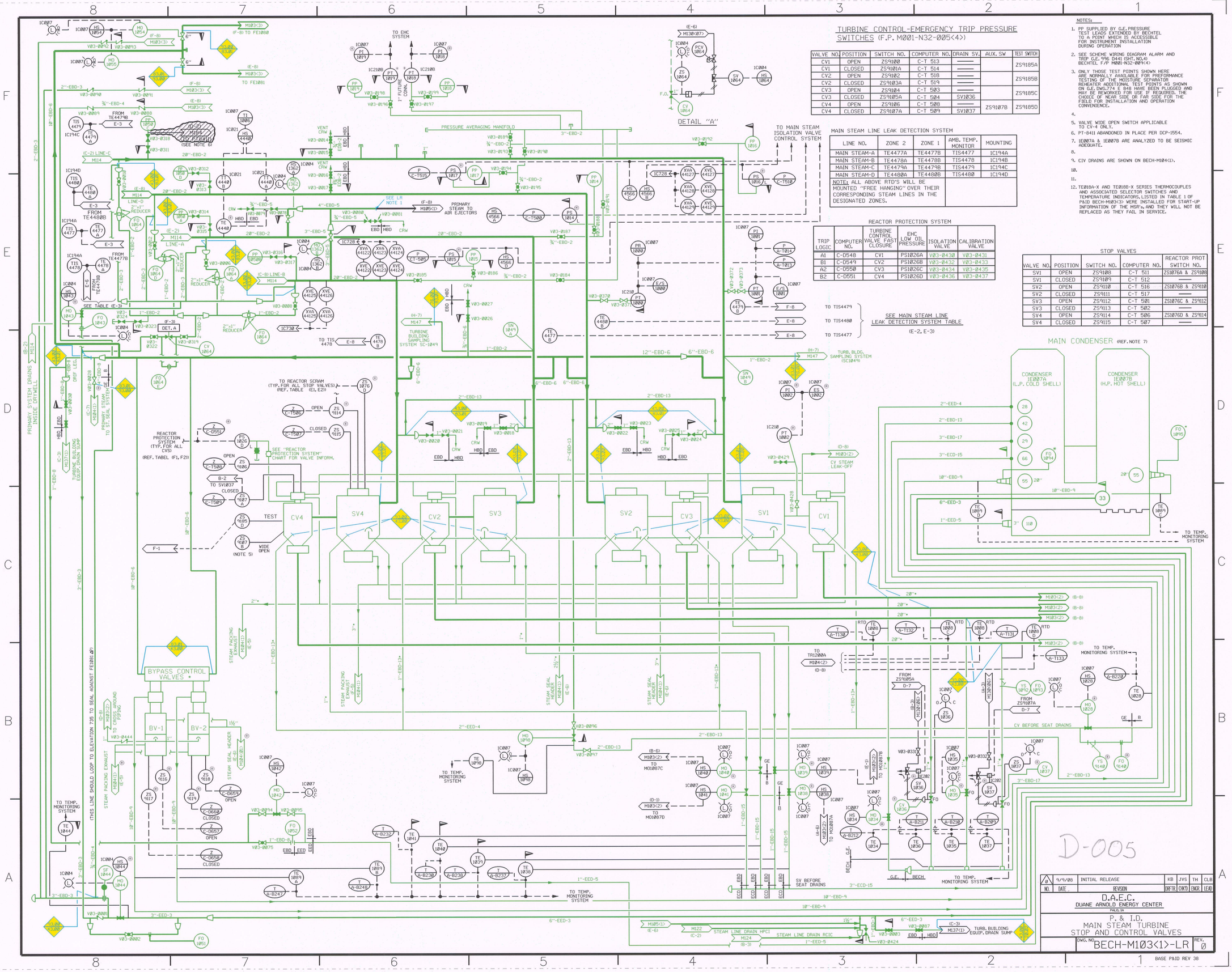

TURBINE CONTROL-EMERGENCY TRIP PRESSURE SWITCHES (F.P. M001-N32-Ø05<4>)

VALVE NO.	POSITION	SWITCH NO.	COMPUTER NO.	DRAIN SV.	AUX. SW	TEST SWITCH
CV1	OPEN	ZS9100	C-T 513	——		ZS9185A
CV1	CLOSED	ZS9101A	C-T 514	——		
CV2	OPEN	ZS9102	C-T 518	——		ZS9185B
CV2	CLOSED	ZS9103A	C-T 519	——		
CV3	OPEN	ZS9104	C-T 503	——		ZS9185C
CV3	CLOSED	ZS9105A	C-T 504	SV1036		
CV4	OPEN	ZS9106	C-T 508	——	ZS9107B	ZS9185D
CV4	CLOSED	ZS9107A	C-T 509	SV1037		

DETAIL "A"

MAIN STEAM LINE LEAK DETECTION SYSTEM

LINE NO.	ZONE 2	ZONE 1	AMB. TEMP. MONITOR	MOUNTING
MAIN STEAM-A	TE4477A	TE4477B	TIS4477	1C194A
MAIN STEAM-B	TE4478A	TE4478B	TIS4478	1C194B
MAIN STEAM-C	TE4479A	TE4479B	TIS4479	1C194C
MAIN STEAM-D	TE4480A	TE4480B	TIS4480	1C194D
NOTE: ALL ABOVE RTD'S WILL BE MOUNTED "FREE HANGING" OVER THEIR CORRESPONDING STEAM LINES IN THE DESIGNATED ZONES.				

REACTOR PROTECTION SYSTEM

TRIP LOGIC	COMPUTER NO.	TURBINE CONTROL VALVE FAST CLOSURE	EHC LOW OIL PRESSURE	ISOLATION VALVE	CALIBRATION VALVE
A1	C-D548	CV1	PS1026A	VØ3-0430	VØ3-0431
B1	C-D549	CV2	PS1026B	VØ3-0432	VØ3-0433
A2	C-D550	CV3	PS1026C	VØ3-0434	VØ3-0435
B2	C-D551	CV4	PS1026D	VØ3-0436	VØ3-0437

SEE MAIN STEAM LINE LEAK DETECTION SYSTEM TABLE (E-2, E-3)

NOTES:

1. PP SUPPLIED BY G.E. PRESSURE TEST LEADS EXTENDED BY BECHTEL TO A POINT WHICH IS ACCESSIBLE FOR INSTRUMENT INSTALLATION DURING OPERATION
2. SEE SCHEME WIRING DIAGRAM ALARM AND TRIP G.E. 996 (441 (SHT. NO.4) BECHTEL F/P M001-N32-ØØ9<4>
3. ONLY THOSE TEST POINTS SHOWN HERE ARE NORMALLY AVAILABLE FOR PREFORMANCE TESTING OF THE MOISTURE SEPARATOR REHEATER ADDITIONAL TEST POINTS AS SHOWN ON G.E. DWG.774 E 848 HAVE BEEN PLUGGED AND MAY BE REWORKED FOR USE IF REQUIRED. THE CHOICE OF NEAR SIDE OR FAR SIDE FOR THE FIELD FOR INSTALLATION AND OPERATION CONVENIENCE.
4.
5. VALVE WIDE OPEN SWITCH APPLICABLE TO CV-4 ONLY.
6. PT-8411 ABANDONED IN PLACE PER DCP-1554.
7. 1E007A & 1E007B ARE ANALYZED TO BE SEISMIC ADEQUATE.
8.
9. CIV DRAINS ARE SHOWN ON BECH-M104<1>.
10.
11.
12. TE018A-X AND TE018B-X SERIES THERMOCOUPLES AND ASSOCIATED SELECTOR SWITCHES AND TEMPERATURE INDICATORS, LISTED IN TABLE 1 OF P&ID BECH-M103<3> WERE INSTALLED FOR START-UP INFORMATION OF THE MSR's, AND THEY WILL NOT BE REPLACED AS THEY FAIL IN SERVICE.

STOP VALVES

VALVE NO.	POSITION	SWITCH NO.	COMPUTER NO.	REACTOR PROT SWITCH NO.
SV1	OPEN	ZS9108	C-T 511	ZS1076A & ZS9108
SV1	CLOSED	ZS9109	C-T 512	——
SV2	OPEN	ZS9110	C-T 516	ZS1076B & ZS9110
SV2	CLOSED	ZS9111	C-T 517	——
SV3	OPEN	ZS9112	C-T 501	ZS1076C & ZS9112
SV3	CLOSED	ZS9113	C-T 502	——
SV4	OPEN	ZS9114	C-T 506	ZS1076D & ZS9114
SV4	CLOSED	ZS9115	C-T 507	——

LR NOTES:

1. THIS IS THE TURBINE BUILDING (HEATER BAY) TO TURBINE BUILDING (SJAE ROOM) BOUNDARY. THE PIPING IN THE SJAE ROOM IS NOT IN SCOPE FOR 10CFR50.54 CRITERION (a)(2). REFER TO ISOMETRIC DRAWING EBD-Ø05-Ø1.
2. ALL EXPOSED DRAIN PIPING AND FUNNELS ARE IN SCOPE FOR LICENSE RENEWAL.

LR LEGEND:

- COMPONENTS IN SCOPE PER 10CFR54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 54.21
- COMPONENTS NOT SUBJECT TO AMR
- COMPONENTS IN SCOPE PER 10CFR54.4(a)(2) AND SUBJECT TO AMR PER 54.21
- SYSTEM BOUNDARY INTERFACE

20.02 TURBINE BUILDING SUMPS
43.00 MAIN CONDENSER
76.00 TURBINE BLDG SAMPLING
83.01 MAIN STEAM
93.00 MAIN TURBINE

NO.	DATE	REVISION	DRTR	CHKD	ENGR	LEAD
Ø	9/9/08	INITIAL RELEASE	KB	JVS	TH	CLB

D.A.E.C.
DUANE ARNOLD ENERGY CENTER
PALO, IA

P. & I.D.
MAIN STEAM TURBINE
STOP AND CONTROL VALVES

DWG. NO. BECH-M103<1>-LR REV. Ø

BASE P&ID REV 38