NOTES

1. FOR P&ID LEGEND REFER TO DWGS 9A310F00001 & 9A310F00002.
2. LOCATE ALL TEST CONNECTIONS (TC'S) ON THE BOTTOM OF THE CONNECTING PIPE.
3. VENTS AND DRAINS WILL BE LOCATED ON HIGH AND LOW POINTS, RESPECTIVELY, AND WILBE SHOWN ON LAYOUT DRAWINGS.
4. DELETED
5. ALL SYSTEMS SHOWN ARE NNS. ALL PIPING AND EQUIPMENT LOCATED IN MAB, FHB & EAB, AS NOTED, ARE TO BE SUPPORTED TO MEET QUALITY CLASS 7 REQUIREMENTS.
6. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR "CH".
7. ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION GROUP DESIGNATOR "N" AT 5.0' CLOCK POSITION OUTSIDE OF THE BALLOON.
8. ALL VENT AND DRAIN VALVES ON VENDOR EQUIPMENT WILL BE PURCHASED BY BEC.
9. DELETED
10. SIZE FOR VENT,DRAIN & TEST CONNECTIONS ARE AS FOLLOWS:

	CHILLER			CHW PUMPS		AHU		CMW LINES
	EVAP.	COND.	SEAL	BASE	CASING	SUPPLY	DISCH.	
VENT	¾" NPT	½" NPT	¼" NPT		¼" NPT	½" NPT	½" NPT	1"
DRAIN	¾" NPT	½" NPT	¼" NPT	1"	¾" NPT	½" NPT	½" NPT	1"
TEST								½"

11. FOR CONDENSOR WATER PIPING, SEE P&ID NO. 9F000333.
12. VENTS & DRAINS ACROSS EACH COOLING COIL ARE TO BE USED AS TEST CONNECTION FOR PRESSURE DIFFERENTIAL (FLOW) MEASUREMENTS.
13. VALVE PORT FOR BYPASS LINE WILL BE CLOSED AT FAILURE MODE.
14. INSTRUMENTATION ROOT VALVES ON CHILLERS BV101CH001, BV101CH002, BV101CH003, BV101CH004 ARE PROVIDED BY VENDOR. SEE VENDOR DRAWINGS 4101-01059 AND 4101-01050.
15. REQUIRED NEEDLE (METERING) VALVE POSITION IS 5½ TURNS OPEN: ½ TURN TO MAINTAIN ½ TO 1 GPM GLAND FLUSH FLOW TO PUMP SEAL.
16. ABANDONED IN PLACE. CONTACTS JUMPERED OUT IN SWITCH.

REFERENCE DWGS

1. 9V00006 MAB SUPPLY SYS P&ID
2. 9V00012 FHB SUPPLY SYS P&ID
3. 9V00021 RCB CHILLED WATER SYS P&ID
4. 9F000333 OPEN LOOP AUXILIARY COOLING WATER SYSTEM P&ID
5. 9F05045 PRESSURIZED GAS DISTRIBUTION SYSTEM ON 3 P&ID.

MAB CHILLER (11A) BV101VCH001 FOR CHILLER DETAIL SEE P&ID BV101V01042

MAB CHILLER (11B) BV101VCH002 FOR CHILLER DETAIL SEE P&ID BV101V01043

MAB CHILLER (11C) BV101VCH003 FOR CHILLER DETAIL SEE P&ID BV101V01044

MAB CHILLER (11D) BV101VCH004 FOR CHILLER DETAIL SEE P&ID BV101V01045

LOCKER RM & MISC OFFICES, LAB AREAS SUPPLEMENTARY AIR HANDLING UNIT C/C (SUPPLY SYSTEM "C") BV101VHX014

FUEL HANDLING BUILDING MAIN SUPPLY AIR HANDLING UNIT COOLING COILS (C/C) BV121VHX004 BV121VHX005 BV121VHX006

MAB MAIN SUPPLY SYS. "B" AIR HANDLING UNIT COOLING COILS (C/C) BV101VHX013

MAB MAIN SUPPLY SYS. "A" AIR HANDLING UNIT C/CS BV101VHX012

TO BREATHING AIR COMPRESSOR 9F05044 D-8

FROM BREATHING AIR COMPRESSOR 9F05044 D-8

PERMANENT STRAINER (TYP.) 9V101VPS004 9V101VPS005 9V101VPS006 9V101VPS007

MAB CHILLED WATER PUMP (TYP.) (11D) 9V101VPA004 (11A) 9V101VPA005 (11B) 9V101VPA006 (11C) 9V101VPA007

EXPANSION TANK USABLE VOLUME 280 GAL. 9V101VTS003

AIR SEPARATOR 9V101VTS002

SYSTEM MAKE UP WATER 9F05034 H-6

FROM CHEMICAL ADDITION TANK 9V00021 G-7

CHEMICAL ADDITION TANK 9V00021 H-7

FROM PRESS. GAS DISTRIBUTION SYSTEM 9F05045 B-8 NITROGEN GAS SUPPLY

SAMPLING POINT

COMPONENT LOCATION: MAB EXCEPT AS NOTED

NOT TO BE INCORPORATED AMENDMENT LIST		
TYPE	NUMBER	LOCATION/ DWG.COORD.
FCR	SZ00330	NA

D049

LR BOUNDARY DRAWING NO.	REV.
LR-STP-CH-6V109V00010*1	0D

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
23		REVISED PER CR 01-17903	JGL				
0-22	12-16-82	ISSUED FOR CONSTRUCTION	SIGNATURES ON FILE				

SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM-HVAC MECHANICAL AUXILIARY BUILDING CHILLED WATER SYSTEM

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA238.231	D070928		NONE	6V109V00010*1		23

ESEED_DGN

8 7 6 5 4 3 2 1

A B C D E F G H