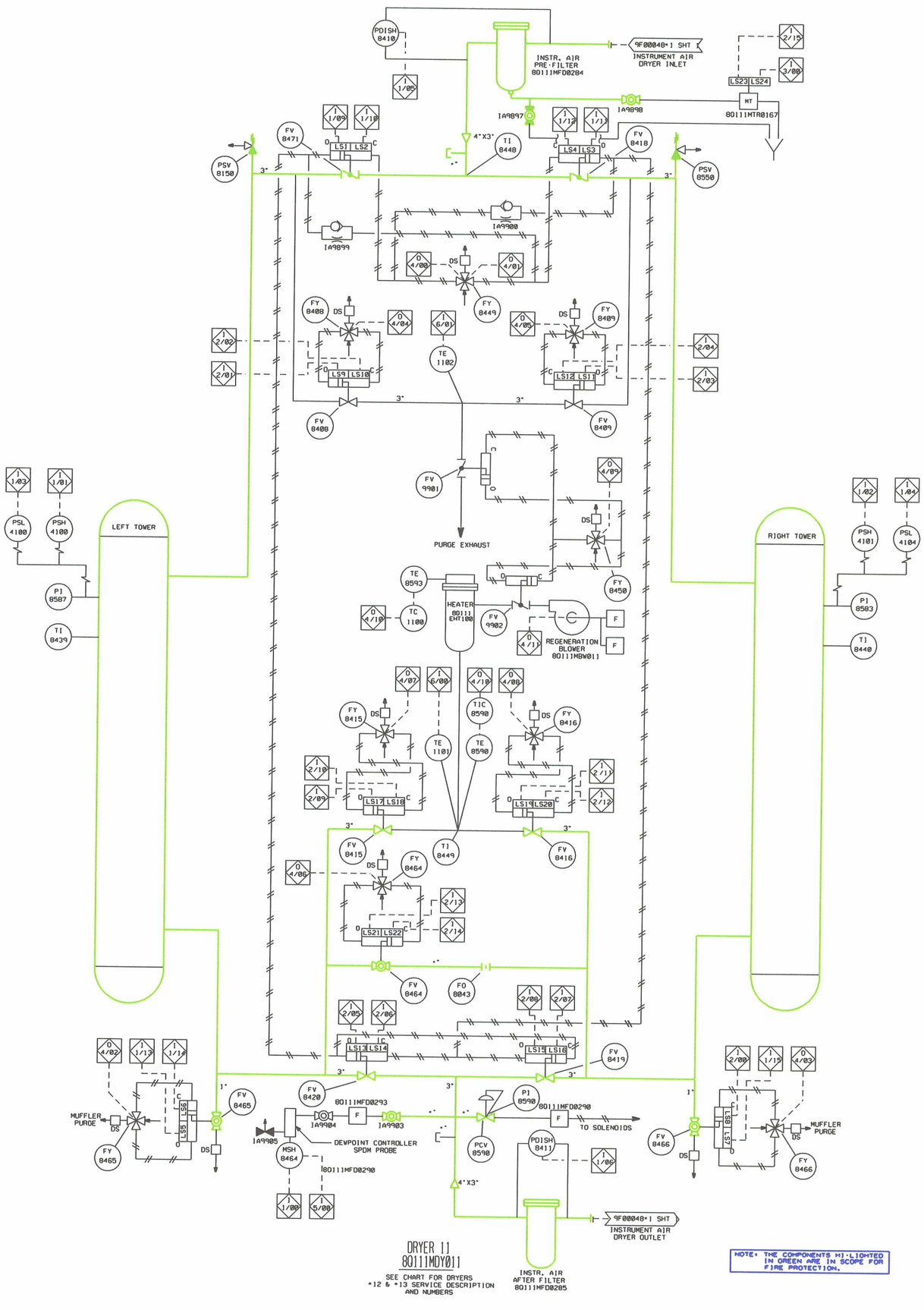

SERVICE DESCRIPTION	VENDOR I.D.	DRYER 11 80111MDY011	DRYER 12 80111MDY012	DRYER 13 80111MDY013
CONTROL PANEL		80111ZLP0211	80111ZLP0212	80111ZLP0213
SLC 5/05 PROGRAM CONTROLLER		N11AFCK8590	N11AFCK8591	N11AFCK8592
HAND CONTROL SWITCH		N11AHSB400	N11AHSB401	N11AHSB402
DEW POINT INDICATOR		N11AMSH8464	N11AMSH8465	N11AMSH8466
PREFILTER	F3	80111MFD0284	80111MFD0286	80111MFD0288
PREFILTER DIFF. PRESS. INDICATIND SWITCH	DP1 DPS1	N11APDISH8410	N11APDISH8412	N11APDISH8414
PREFILTER MOIST. TRAP		80111MTR0167	80111MTR0168	80111MTR0169
PREFILTER MOIST. DRAIN OPEN POSITION SWITCH	LS23	N11AZSO8491	N11AZSO8495	N11AZSO8499
PREFILTER MOIST. DRAIN CLOSED POSITION SWITCH	LS24	N11AZSC8491	N11AZSC8495	N11AZSC8499
PREFILTER MOIST. MANUAL DRAIN	V17	80111TIA9897	80111TIA9906	80111TIA9915
PREFILTER MOIST. DRAIN ISO. VALVE	V18	80111TIA9898	80111TIA9907	80111TIA9916
DRYER INLET TEMP.	T4	N11AT18448	N11AT18450	N11AT18452
LEFT TOWER INLET VALVE	V1	N11AFV8471	N11AFV8425	N11AFV8433
LEFT TOWER INLET VALVE OPEN POSITION SWITCH	LS1	N11AZSO8471	N11AZSO8425	N11AZSO8433
LEFT TOWER INLET VALVE CLOSED POSITION SWITCH	LS2	N11AZSC8471	N11AZSC8425	N11AZSC8433
RIGHT TOWER INLET VALVE	V2	N11AFV8418	N11AFV8426	N11AFV8434
RIGHT TOWER INLET VALVE OPEN POSITION SWITCH	LS3	N11AZSO8418	N11AZSO8426	N11AZSO8434
RIGHT TOWER INLET VALVE CLOSED POSITION SWITCH	LS4	N11AZSC8418	N11AZSC8426	N11AZSC8434
LEFT TOWER PRESS. RELIEF VALVE	PRV1	N11APSV8150	N11APSV8152	N11APSV8154
RIGHT TOWER PRESS. RELIEF VALVE	PRV2	N11APSV8550	N11APSV8153	N11APSV8155
LEFT TOWER TIME DELAY VALVE	FCV1	80111TIA9899	80111TIA9908	80111TIA9917
RIGHT TOWER TIME DELAY VALVE	FCV2	80111TIA9900	80111TIA9909	80111TIA9918
TOWER INLET/OUTLET SWITCHING SOLENOID	SV1	N11AFY8449	N11AFY8454	N11AFY8489
LEFT TOWER PURGE OUTLET SOLENOID VALVE	SV4	N11AFY8408	N11AFY8421	N11AFY8429
LEFT TOWER PURGE OUTLET VALVE	V5	N11AFV8408	N11AFV8421	N11AFV8429
LEFT TOWER PURGE OUTLET VALVE OPEN POSITION SWITCH	LS9	N11AZSO8408	N11AZSO8421	N11AZSO8429
LEFT TOWER PURGE OUTLET VALVE CLOSED POSITION SWITCH	LS10	N11AZSC8408	N11AZSC8421	N11AZSC8429
RIGHT TOWER PURGE OUTLET SOLENOID VALVE	SV5	N11AFY8409	N11AFY8422	N11AFY8430
RIGHT TOWER PURGE OUTLET VALVE	V6	N11AFV8409	N11AFV8422	N11AFV8430
RIGHT TOWER PURGE OUTLET VALVE OPEN POSITION SWITCH	LS11	N11AZSO8409	N11AZSO8422	N11AZSO8430
RIGHT TOWER PURGE OUTLET VALVE CLOSED POSITION SWITCH	LS12	N11AZSC8409	N11AZSC8422	N11AZSC8430
MAIN PURGE EXHAUST ISOLATION VALVE	V12	N11AFV9901	N11AFV9910	N11AFV9919
MAIN PURGE EXHAUST SUPPLY ISOLATION VALVE	V13	N11AFV9902	N11AFV9911	N11AFV9920
MAIN PURGE SUPPLY/EXHAUST CONTROL SOLENOID VALVE	SV9	N11AFY8450	N11AFY8455	N11AFY8460
REGENERATION HEATER	HX	80111EHT100	80111EHT101	80111EHT102
TEMPERATURE CONTROLLER		N11ATC1100	N11ATC1103	N11ATC1106
REGENERATION HEATER OUTLET TEMPERATURE	T3	N11AT18449	N11AT18451	N11AT18453
REGENERATION BLOWER	B	80111MBW011	80111MBW012	80111MBW013
LEFT TOWER PURGE INLET VALVE	V9	N11AFV8415	N11AFV8423	N11AFV8431
LEFT TOWER PURGE INLET VALVE OPEN POSITION SWITCH	LS17	N11AZSO8415	N11AZSO8423	N11AZSO8431
LEFT TOWER PURGE INLET VALVE CLOSED POSITION SWITCH	LS18	N11AZSC8415	N11AZSC8423	N11AZSC8431

SERVICE DESCRIPTION	VENDOR I.D.	DRYER 11 80111MDY011	DRYER 12 80111MDY012	DRYER 13 80111MDY013
LEFT TOWER PURGE INLET VALVE CONTROL SOLENOID	SV7	N11AFY8415	N11AFY8423	N11AFY8431
RIGHT TOWER PURGE INLET VALVE	V10	N11AFV8416	N11AFV8424	N11AFV8432
RIGHT TOWER PURGE INLET VALVE OPEN POSITION SWITCH	LS19	N11AZSO8416	N11AZSO8424	N11AZSO8432
RIGHT TOWER PURGE INLET VALVE CLOSED POSITION SWITCH	LS20	N11AZSC8416	N11AZSC8424	N11AZSC8432
RIGHT TOWER PURGE INLET VALVE CONTROL SOLENOID	SV8	N11AFY8416	N11AFY8424	N11AFY8432
REPRESSURIZATION VALVE	V11	N11AFV8464	N11AFV8467	N11AFV8470
REPRESSURIZATION VALVE OPEN POSITION SWITCH	LS21	N11AZSO8464	N11AZSO8467	N11AZSO8470
REPRESSURIZATION VALVE CLOSED POSITION SWITCH	LS22	N11AZSC8464	N11AZSC8467	N11AZSC8470
DEPRESSURIZATION VALVE CONTROL SOLENOID	SV6	N11AFY8464	N11AFY8467	N11AFY8470
DEPRESSURIZATION ORIFICE	OU1	N11AFO8043	N11AFO8044	N11AFO8045
LEFT TOWER OUTLET VALVE	V7	N11AFV8420	N11AFV8428	N11AFV8436
LEFT TOWER OUTLET VALVE OPEN POSITION SWITCH	LS13	N11AZSO8420	N11AZSO8428	N11AZSO8436
LEFT TOWER OUTLET VALVE CLOSED POSITION SWITCH	LS14	N11AZSC8420	N11AZSC8428	N11AZSC8436
RIGHT TOWER OUTLET VALVE	V8	N11AFV8419	N11AFV8427	N11AFV8435
RIGHT TOWER OUTLET VALVE OPEN POSITION SWITCH	LS15	N11AZSO8419	N11AZSO8427	N11AZSO8435
RIGHT TOWER OUTLET VALVE CLOSED POSITION SWITCH	LS16	N11AZSC8419	N11AZSC8427	N11AZSC8435
LEFT TOWER DEPRESSURIZATION VALVE	V3	N11AFV8465	N11AFV8468	N11AFV8462
LEFT TOWER DEPRESSURIZATION VALVE CONTROL SOLENOID	SV2	N11AFY8465	N11AFY8468	N11AFY8462
LEFT TOWER DEPRESSURIZATION VALVE OPEN POSITION SWITCH	LS5	N11AZSO8465	N11AZSO8468	N11AZSO8462
LEFT TOWER DEPRESSURIZATION VALVE CLOSED POSITION SWITCH	LS6	N11AZSC8465	N11AZSC8468	N11AZSC8462
RIGHT TOWER DEPRESSURIZATION VALVE	V4	N11AFV8466	N11AFV8469	N11AFV8472
RIGHT TOWER DEPRESSURIZATION VALVE CONTROL SOLENOID	SV3	N11AFY8466	N11AFY8469	N11AFY8472
RIGHT TOWER DEPRESSURIZATION VALVE OPEN POSITION SWITCH	LS7	N11AZSO8466	N11AZSO8469	N11AZSO8472
RIGHT TOWER DEPRESSURIZATION VALVE CLOSED POSITION SWITCH	LS8	N11AZSC8466	N11AZSC8469	N11AZSC8472
LEFT TOWER TEMPERATURE	T1	N11AT18439	N11AT18442	N11AT18445
RIGHT TOWER TEMPERATURE	T2	N11AT18440	N11AT18443	N11AT18446
LEFT TOWER PRESSURE	P1	N11AP18587	N11AP18588	N11AP18589
RIGHT TOWER PRESSURE	P2	N11AP18583	N11AP18584	N11AP18585
LEFT TOWER FAIL TO SHIFT PRESSURE SWITCH	PS1	N11APSH4100	N11APSH4103	N11APSH4106
LEFT TOWER SYSTEM PRESSURE LOW SWITCH	PS3	N11APSL4100	N11APSL4101	N11APSL4102
RIGHT TOWER FAIL TO SHIFT PRESSURE SWITCH	PS2	N11APSH4101	N11APSH4104	N11APSH4107
RIGHT TOWER SYSTEM PRESSURE LOW SWITCH	PS4	N11APSL4104	N11APSL4105	N11APSL4108
HEATER OUTLET TEMP. ELEMENT	RTD1	N11ATE1101	N11ATE1104	N11ATE1107
PURGE OUTLET TEMP. ELEMENT	RTD2	N11ATE1102	N11ATE1105	N11ATE1108
AFTERFILTER	F4	80111MFD0285	80111MFD0287	80111MFD0289
AFTERFILTER DIFF. PRESS. INDICATING SWITCH	DP2 DPS2	N11APDISH8411	N11APDISH8413	N11APDISH8415
PILOT AIR FILTER	F1	80111MFD0290	80111MFD0291	80111MFD0292
DEWPOINT CONTROLLER ISOLATION VALVE	V14	80111TIA9903	80111TIA9912	80111TIA9921
DEWPOINT PROBE FILTER	F2	80111MFD0293	80111MFD0294	80111MFD0295
DEWPOINT PROBE INLET VALVE	V15	80111TIA9904	80111TIA9913	80111TIA9922
DEWPOINT PROBE OUTLET VALVE	V16	80111TIA9905	80111TIA9914	80111TIA9923
TEMP. INDICATING CONTROLLER	TIC	N11ATIC8590	N11ATIC8591	N11ATIC8592
PRESS. CONTROL VALVE	R1	N11APCV8590	N11APCV8591	N11APCV8592
PRESSURE INDICATOR	P3	N11AP18590	N11AP18591	N11AP18592
TEMP. THERMOCOUPLE	TJC	N11ATE8590	N11ATE8591	N11ATE8592
THERMOCOUPLE THERMOSTAT	THI	N11ATE8593	N11ATE8594	N11ATE8595

REFERENCE DRAWINGS:
802439--0006605
802439--0006705
802439--0006805
802439--0006905

NOTES:
1. ALL SLC POINTS GO TO THE MASTER CONTROL COMPUTER
2. ALL INSTRUMENTS AND EQUIPMENT ON THIS P&ID ARE PROVIDED BY VENDOR AS A PACKAGED UNIT.

D204

LR BOUNDRY DRAWING NO.	REV.
LR-STP-IA-8Q119F00048*1-2	0B

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
2		REVISED AND ISSUED PER DCP 00-01-40	KS				
0-1	7/22/96	THIS DWG & 8Q119F00048 *1 SHT 1 SUPERCEDE 8Q119F00048 &	SIGNATURES ON FILE				
		INCORP MCN 8827437. MCN 8827442. MCN 8827451. MCN 8827461 & MDCN 8827413 WRITTEN					
		AGAINST 8Q119F00048 *1					

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

PIPING AND INSTRUMENTATION DIAGRAM
INSTRUMENT AIR
DRYERS 11, 12 & 13

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	F0209.021	D070928		NONE	8Q119F00048*1	2	2

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