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 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light Co. 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light Co. 05000251
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 RECIP. NAME: VARGA, S.A. RECIPIENT AFFILIATION: Operating Reactors Branch 1

SUBJECT: Forwards addl response to Generic Ltr 83-28, Item 1.2, re post-trip review, data & info capability, per 850815 telcon & NRC 850719 draft technical evaluation rept. Reliability of digital data processing sys also discussed.

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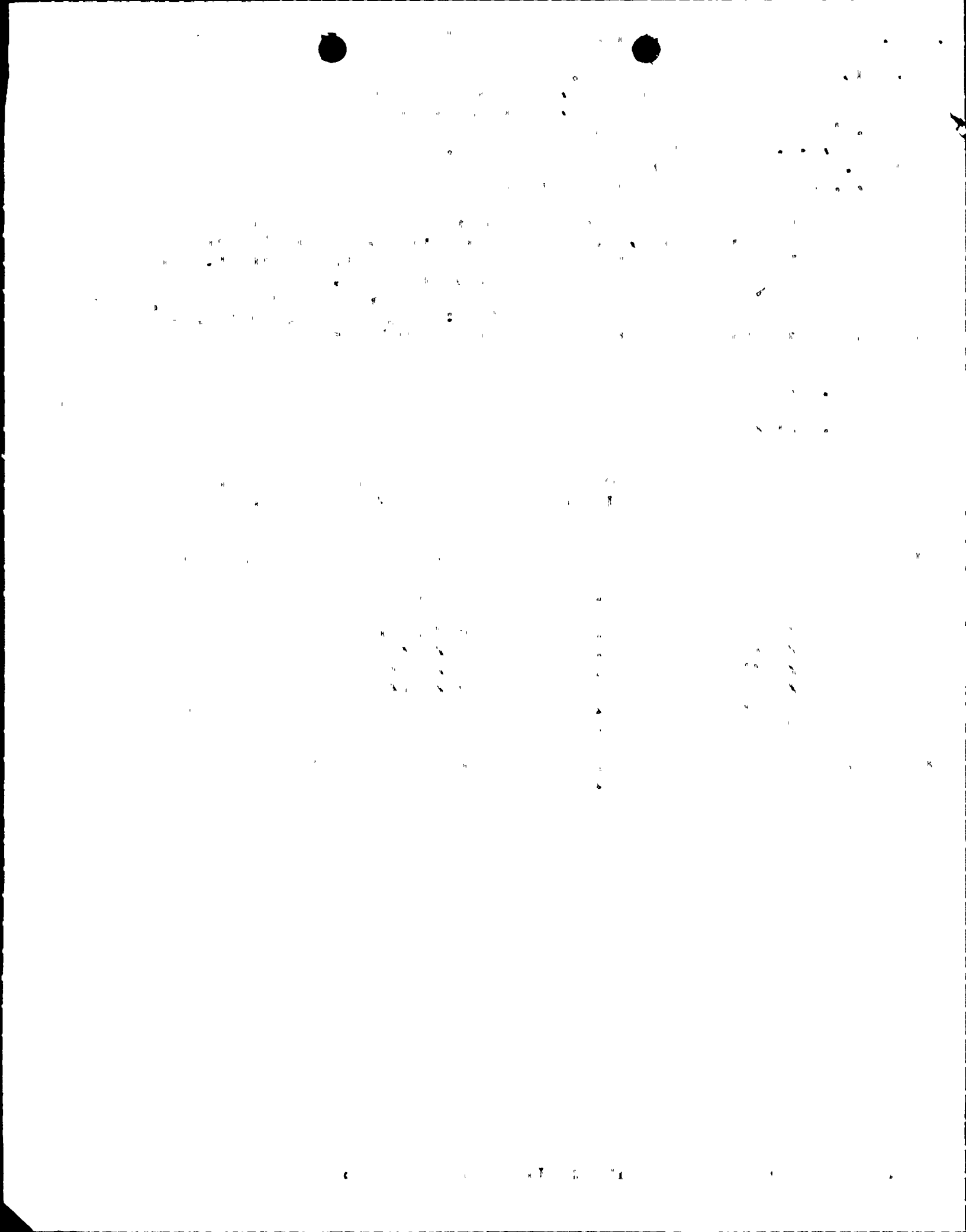
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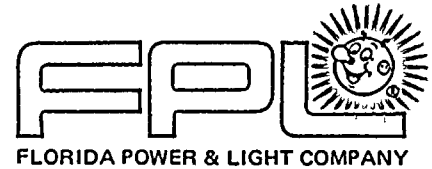
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SEP 27 1985

L-85-364

Office of Nuclear Reactor Regulation
Attention: Mr. Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Varga:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Generic Letter 83-28, Item 1.2
Post Trip Review: Data and Information Capability
NRC TAC Nos. 53643 and 53644

By letter dated July 19, 1985, you provided a Draft Technical Evaluation Report (TER) relating to post trip review data and information capability for Turkey Point Units 3 and 4. The TER identified open items in the following areas: the parameters monitored by the sequence of events and the time history recorders, the performance characteristics of the time history recorders, and the long-term data retention capability for post-trip review material. The open items and the information required to complete your review were discussed with Mr. D.G. McDonald and Mr. J.J. Kramer of the NRC in a conference call on August 15, 1985. The attached information documents the information discussed during that conference call, and also updates our initial response to Generic Letter 83-28 dated November 8, 1983.

In addition, we discussed the reliability/availability of the Digital Data Processing System (DDPS) with Mr. McDonald and Mr. Russ Brewer, IE Resident Inspector. Actions taken by FPL to improve the reliability of the DDPS are also discussed in Attachment 1.

If you have any further questions, please call us.

Very truly yours,

J.W. Williams, Jr.
Group Vice President
Nuclear Energy

JWW/TCG/mls
Attachments

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PDR ADDCK 05000250
PDR

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cc: Harold F. Reis, Esquire
Dr. J. Nelson Grace, NRC Region II
PNS-LI-85-327/1

ATTACHMENT I

Post Trip Review Data and Information Capability Turkey Point Units 3 and 4

NRC Open Items

The information supplied in response to Generic Letter 83-28 does not indicate that the post-trip review data and information capabilities are adequate in the following areas:

1. Based upon the information contained in the submittal, all of the parameters specified in part 2 of this report that should be recorded for use in a post-trip review are not recorded.
2. Time history recorders, as described in the submittal, do not meet the minimum performance characteristics.
3. The data retention procedures, as described in the submittal, may not ensure that the information recorded for the post-trip review is maintained in an accessible manner for the life of the plant.

It is possible that the current data and information capabilities at this nuclear power plant are adequate to meet the intent of these review criteria, but were not completely described. Under these circumstances, the licensee should provide an updated, more complete, description to show in more detail the data and information capabilities at this nuclear power plant. If the information provided accurately represents all current data and information capabilities, then the licensee should show that the data and information capabilities meet the intent of the criteria in part 2 of this report, or detail future modifications that would enable the licensee to meet the intent of the evaluation criteria.

(Reference NRC letter dated July 19, 1985, Salem ATWS Event - Generic Letter 83-28, Item 1.2 Post Trip Review: Data and Information Capability - Draft Technical Evaluation Report.)

FPL Response to Open Items

In the initial response to Generic Letter 83-28, FPL indicated that the data and information capabilities at Turkey Point Units 3 and 4 would be enhanced by installation of a new central computerized plant data and environmental monitoring system, the Safety Assessment System (SAS). The SAS is a redundant computer system that incorporates the following subsystems:

- Digital Data Processing System (DDPS)
- Safety Parameter Display System (SPDS)
- Plant mimics for major plant systems
- Signals described in FPL Regulatory Guide 1.97 Report
- Environmental Monitoring System
- Nuclear Chemistry Monitoring
- Database Historian

This system has the capability to store 14 hours of plant information on hard disc, which can then be archived on 4 hour magnetic tape. Magnetic tapes will be saved for 30 days before being overwritten with new data. As noted below, data relating to specific events will be retained.

Post trip review capability will be enhanced by this new system. The data base monitored has been enlarged from that monitored by DDPS. The SAS data base is provided in Attachment 2. As noted above, the DDPS software, which includes the sequence of events programs, will operate a part of SAS. The parameters for post trip review specified in the TER which were not previously recorded (i.e. containment radiation, steam generator pressure, feedwater flow, auxiliary feedwater system (flow, pump/valve status), AC and DC system status (bus voltage), diesel generator status and PORV position) will be available on SAS.

In addition, the following changes will be implemented to further enhance post trip review capability:

1. The scan rates for the parameters listed in Attachment 3 will be verified to be, or changed to 10 seconds or less. This action will be completed by November 30, 1985.
2. A procedure for archiving of the SAS data base for a time period 15 minutes prior and 15 minutes post event will be provided. Archiving will be by means of magnetic tape or paper output (hardcopy), which will become a quality document and be saved for the life of the plant. This action will be completed by June 30, 1986.
3. DDPS post trip review files will be modified to archive data 10 minutes prior and 10 minutes post event. This change from the existing 5 minutes prior and 3 minute post event will be implemented when DDPS software is generated on the SAS computers. This action has not yet been scheduled. The NRC Project Manager will be updated on the schedule by 6/30/86.

Portions of SAS are now operational on Unit 3. These include SPDS, parameter trending, and the data base historian. The same capabilities will be available for Unit 4 following its next refueling outage, scheduled for early 1986.

DDPS Reliability/Availability

The reliability/availability of the DDPS were discussed with the Turkey Point NRC Project Manager/IE Resident Inspector.

On a number of occasions, FPL has experienced DDPS computer problems due to overheating of the DPS analog interface equipment. The addition of a chilled water cooling system to the cable spreading room has reduced the ambient temperature in the room resulting in improved system reliability/availability. The computer room containing the SAS computers (which will eventually process DDPS information) has redundant chilled water coolers. SAS is designed to be highly reliable.

Problems have also been experienced with mercury wetted switches "hanging-up", and either affecting certain parameters monitored by DDPS or locking up the system. Individual switches were replaced as necessary when those problems occurred. No other action has been taken.

FPL will provide additional historical information regarding DDPS reliability/availability to the NRC Project Manager/IE Resident Inspector.

Future DDPS problems will be evaluated with the goal of maintaining high reliability and availability of the system.

ATTACHMENT 2

Parameter list for Scan Rates of 10 second or less.

Reactor Trip

Safety Injection

Containment Isolation

Turbine Trip

Control Rod Position

Neutron Flux, Power

Containment Pressure

Containment Radiation

Containment Sump Level

Primary System Pressure

Safety Injection; Flow, Pump/Valve Status

MSIV Position

Steam Generator Pressure

Steam Generator Level

Feedwater Flow

Steam Generator Pressure

Steam Generator Level

Feedwater Flow

Steam Flow

Auxiliary Feedwater System, Flow, Value Status

AC and DC System Status (Bus Voltage)

Diesel Generator Status - Powering Safety Bus

PORV Position

ATTACHMENT 3

SAS DATA BASE

NOTE: THE LAST COLUMN HAS THE CURRENT SCAN RATE. THE FOLLOWING APPLIES.

<u>SCAN CLASS</u>	<u>SCAN RATE</u>
1	1 sec
2	2 sec
3	4 sec
4	8 sec
5	16 sec
6	32 sec
7	60 sec

001 P1404	RCS PRESSURE CHANNEL A	0	-	10	VDC	0.000	10.000	0	-	3000	PSIG	(LIN)	1	1
002 P1406	RCS PRESSURE CHANNEL B	0	-	10	VDC	0.000	10.000	0	-	3000	PSIG	(LIN)	1	1
003 P1453	PRESSURIZER PRESSURE CH I	1	-	5	VDC	1.000	5.000	1700	-	2500	PSIG	(LIN)	1	1
004 P1456	PRESSURIZER PRESSURE CH II	1	-	5	VDC	1.000	5.000	1700	-	2500	PSIG	(LIN)	1	1
005 P1457	PRESSURIZER PRESSURE CH III	1	-	5	VDC	1.000	5.000	1700	-	2500	PSIG	(LIN)	1	1
006 LT459	PRESSURIZER LEVEL CHANNEL I	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	1
007 LT460	PRESSURIZER LEVEL CHANNEL II	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	1
008 LT461	PRESSURIZER LEVEL CHANNEL III	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	1
009 3B11	PRZR HTR CNTRL CR 3A CURRENT	1	-	5	VDC	1.000	5.000	0	-	600	AMPS	(LIN)	1	6
010 3B12	PRZR HTR BACK-UP CR 3A CURRENT	1	-	5	VDC	1.000	5.000	0	-	600	AMPS	(LIN)	1	6
011 3B13	PRZR HTR BACK-UP CR 3B CURRENT	1	-	5	VDC	1.000	5.000	0	-	600	AMPS	(LIN)	1	6
012 RV551A	PRIMARY SYSTEM SRV POS 551A	0	-	2	VDC	0.000	2.000	0	-	100	%	(SORT)	3	5
013 RV551B	PRIMARY SYSTEM SRV POS 551B	0	-	2	VDC	0.000	2.000	0	-	100	%	(SORT)	3	5
014 RV551C	PRIMARY SYSTEM SRV POS 551C	0	-	2	VDC	0.000	2.000	0	-	100	%	(SORT)	3	5
015 A08	CORE EXIT TEMP - INCORE TC A08	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
016 B05	CORE EXIT TEMP - INCORE TC B05	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
017 B10	CORE EXIT TEMP - INCORE TC B10	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
018 C08	CORE EXIT TEMP - INCORE TC C08	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
019 C12	CORE EXIT TEMP - INCORE TC C12	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
020 D03	CORE EXIT TEMP - INCORE TC D03	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
021 D05	CORE EXIT TEMP - INCORE TC D05	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
022 E04	CORE EXIT TEMP - INCORE TC E04	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
023 E07	CORE EXIT TEMP - INCORE TC E07	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
024 E08	CORE EXIT TEMP - INCORE TC E08	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
025 E10	CORE EXIT TEMP - INCORE TC E10	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
026 E12	CORE EXIT TEMP - INCORE TC E12	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
027 E14	CORE EXIT TEMP - INCORE TC E14	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
028 F03	CORE EXIT TEMP - INCORE TC F03	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
029 F05	CORE EXIT TEMP - INCORE TC F05	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
030 F09	CORE EXIT TEMP - INCORE TC F09	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
031 F11	CORE EXIT TEMP - INCORE TC F11	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
032 F13	CORE EXIT TEMP - INCORE TC F13	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
033 G01	CORE EXIT TEMP - INCORE TC G01	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
034 G02	CORE EXIT TEMP - INCORE TC G02	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
035 G06	CORE EXIT TEMP - INCORE TC G06	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
036 G08	CORE EXIT TEMP - INCORE TC G08	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
037 G15	CORE EXIT TEMP - INCORE TC G15	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
038 H03	CORE EXIT TEMP - INCORE TC H03	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
039 H05	CORE EXIT TEMP - INCORE TC H05	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
040 H08	CORE EXIT TEMP - INCORE TC H08	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
041 H09	CORE EXIT TEMP - INCORE TC H09	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
042 H11	CORE EXIT TEMP - INCORE TC H11	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
043 H13	CORE EXIT TEMP - INCORE TC H13	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
044 H15	CORE EXIT TEMP - INCORE TC H15	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
045 J02	CORE EXIT TEMP - INCORE TC J02	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
046 J10	CORE EXIT TEMP - INCORE TC J10	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
047 J12	CORE EXIT TEMP - INCORE TC J12	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
048 K03	CORE EXIT TEMP - INCORE TC K03	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
049 K05	CORE EXIT TEMP - INCORE TC K05	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
050 K08	CORE EXIT TEMP - INCORE TC K08	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
051 K11	CORE EXIT TEMP - INCORE TC K11	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
052 L06	CORE EXIT TEMP - INCORE TC L06	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
053 L08	CORE EXIT TEMP - INCORE TC L08	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
054 L12	CORE EXIT TEMP - INCORE TC L12	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
055 L14	CORE EXIT TEMP - INCORE TC L14	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
056 M03	CORE EXIT TEMP - INCORE TC M03	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
057 M09	CORE EXIT TEMP - INCORE TC M09	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
058 M11	CORE EXIT TEMP - INCORE TC M11	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
059 N04	CORE EXIT TEMP - INCORE TC N04	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
060 N06	CORE EXIT TEMP - INCORE TC N06	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
061 N08	CORE EXIT TEMP - INCORE TC N08	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
062 N10	CORE EXIT TEMP - INCORE TC N10	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9
063 P07	CORE EXIT TEMP - INCORE TC P07	N/A	-	N/A		0.000	0.000	200	-	2300	DEG F	(D/L)	7	9

Low Range

Hi Range

UNITS

CON TYPE (Gross)

065 RC07	CORE EXIT TEMP - INCORE TC R07	N/A	-	N/A	0.000	0.000	200	-	2300	DEC F	(D/L)	7	9
066 TRCETA	REPRESENTATIVE CORE EXIT TEMP	N/A	-	N/A	0.000	0.000	32	-	2300	DEC F	(D/L)	7	9
067 TRCETB	REPRESENTATIVE CORE EXIT TEMP	N/A	-	N/A	0.000	0.000	32	-	2300	DEC F	(D/L)	7	9
068 TE413A	RCS HOT LEG WTR TEMP LOOP A	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
069 TE413B	RCS HOT LEG WTR TEMP LOOP A	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
070 TE411B	RCS HOT LEG TEMP BYPASS LOOP A	1	-	5	VDC	1.000	5.000	340	-	650	DEC F	(LIN)	1 7
071 TE423A	RCS HOT LEG WTR TEMP LOOP B	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
072 TE423B	RCS HOT LEG WTR TEMP LOOP B	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
073 TE421B	RCS HOT LEG TEMP BYPASS LOOP B	1	-	5	VDC	1.000	5.000	340	-	650	DEC F	(LIN)	1 7
074 TE433A	RCS HOT LEG WTR TEMP LOOP C	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
075 TE433B	RCS HOT LEG WTR TEMP LOOP C	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
076 TE431B	RCS HOT LEG TEMP BYPASS LOOP C	1	-	5	VDC	1.000	5.000	340	-	650	DEC F	(LIN)	1 7
077 TE410A	RCS COLD LEG WTR TEMP LOOP A	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
078 TE410B	RCS COLD LEG WTR TEMP LOOP A	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
079 TE411C	RCS COLD LEG TMP BYPASS LOOP A	1	-	5	VDC	1.000	5.000	310	-	620	DEC F	(LIN)	1 7
080 TE420A	RCS COLD LEG WTR TEMP LOOP B	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
081 TE420B	RCS COLD LEG WTR TEMP LOOP B	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
082 TE421C	RCS COLD LEG TMP BYPASS LOOP B	1	-	5	VDC	1.000	5.000	310	-	620	DEC F	(LIN)	1 7
083 TE430A	RCS COLD LEG WTR TEMP LOOP C	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
084 TE430B	RCS COLD LEG WTR TEMP LOOP C	1	-	5	VDC	2.000	10.000	0	-	750	DEC F	(LIN)	1 3
085 TE431C	RCS COLD LEG TMP BYPASS LOOP C	1	-	5	VDC	1.000	5.000	310	-	620	DEC F	(LIN)	1 7
086 3P200A	RCP 3A MOTOR CURRENT	1	-	5	VDC	1.000	5.000	0	-	1200	AMPS	(LIN)	1 5
087 3P200B	RCP 3B MOTOR CURRENT	1	-	5	VDC	1.000	5.000	0	-	1200	AMPS	(LIN)	1 5
088 3P200C	RCP 3C MOTOR CURRENT	1	-	5	VDC	1.000	5.000	0	-	1200	AMPS	(LIN)	1 5
089 FT130	RCP A SEAL WATER FLOW	1	-	5	VDC	1.000	5.000	0	-	25	GPM	(LIN)	1 6
090 FT629	RCP A CCW RETURN FLOW	1	-	5	VDC	1.000	5.000	0	-	200	GPM	(LIN)	1 7
091 FT156A	RCP A #1 SEAL LEAKOFF FLOW-HI	1	-	5	VDC	1.000	5.000	0	-	6	GPM	(LIN)	1 6
092 FT156B	RCP A #1 SEAL LEAKOFF FLOW-LO	1	-	5	VDC	1.000	5.000	0	-	1	GPM	(LIN)	1 6
093 PT131	RCP A SHAFT SEAL DELTA P	1	-	5	VDC	1.000	5.000	0	-	100	"H2O	(LIN)	1 6
094 PT156	RCP A #1 SEAL DELTA P	1	-	5	VDC	1.000	5.000	0	-	400	PSIQ	(LIN)	1 6
095 TE131	RCP A BEARING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
096 TE132	RCP A SHAFT SEAL TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
097 TE417A	RCP A UPPER THRUST BEARING TMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
098 TE417B	RCP A LOWER THRUST BEARING TMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
099 TE418A	RCP A UPPER GUIDE BEARING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
100 TE418B	RCP A STATOR WINDING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
101 TE419	RCP A LOWER GUIDE BEARING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
102 FT127	RCP B SEAL WATER FLOW	1	-	5	VDC	1.000	5.000	0	-	25	GPM	(LIN)	1 6
103 FT632	RCP B CCW RETURN FLOW	1	-	5	VDC	1.000	5.000	0	-	200	GPM	(LIN)	1 7
104 FT155A	RCP B #1 SEAL LEAKOFF FLOW-HI	1	-	5	VDC	1.000	5.000	0	-	6	GPM	(LIN)	1 6
105 FT155B	RCP B #1 SEAL LEAKOFF FLOW-LO	1	-	5	VDC	1.000	5.000	0	-	1	GPM	(LIN)	1 6
106 PT128	RCP B SHAFT SEAL DELTA P	1	-	5	VDC	1.000	5.000	0	-	100	"H2O	(LIN)	1 6
107 PT155	RCP B #1 SEAL DELTA P	1	-	5	VDC	1.000	5.000	0	-	400	PSIQ	(LIN)	1 6
108 TE128	RCP B BEARING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
109 TE129	RCP B SHAFT SEAL TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
110 TE427A	RCP B UPPER THRUST BEARING TMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
111 TE427B	RCP B LOWER THRUST BEARING TMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
112 TE428A	RCP B UPPER GUIDE BEARING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
113 TE428B	RCP B STATOR WINDING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
114 TE429	RCP B LOWER GUIDE BEARING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
115 FT124	RCP C SEAL WATER FLOW	1	-	5	VDC	1.000	5.000	0	-	25	GPM	(LIN)	1 6
116 FT135	RCP C CCW RETURN FLOW	1	-	5	VDC	1.000	5.000	0	-	200	GPM	(LIN)	1 7
117 FT154A	RCP C #1 SEAL LEAKOFF FLOW-HI	1	-	5	VDC	1.000	5.000	0	-	6	GPM	(LIN)	1 6
118 FT154B	RCP C #1 SEAL LEAKOFF FLOW-LO	1	-	5	VDC	1.000	5.000	0	-	1	GPM	(LIN)	1 6
119 PT125	RCP C SHAFT SEAL DELTA P	1	-	5	VDC	1.000	5.000	0	-	100	"H2O	(LIN)	1 6
120 PT154	RCP C #1 SEAL DELTA P	1	-	5	VDC	1.000	5.000	0	-	400	PSIQ	(LIN)	1 6
121 TE125	RCP C BEARING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
122 TE126	RCP C SHAFT SEAL TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
123 TE437A	RCP C UPPER THRUST BEARING TMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
124 TE437B	RCP C LOWER THRUST BEARING TMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
125 TE438A	RCP C UPPER GUIDE BEARING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7
126 TE438B	RCP C STATOR WINDING TEMP	1	-	5	VDC	1.000	5.000	30	-	300	DEC F	(LIN)	1 7

127	IC439	RCP C LOWER GUIDE BEARING TEMP	1	-	5	VDC	1.000	5.000	50	-	300	DEG F	(LIN)	1	7
128	AS0128						0.000	0.000		-					
129	TE133	RCP A,B,C SEAL WTR RETURN TEMP	1	-	5	VDC	1.000	5.000	50	-	300	DEG F	(LIN)	1	7
130	AS0130						0.000	0.000		-					
131	FT414	RCS FLOW LOOP A CH 1	1	-	5	VDC	1.000	5.000	0	-	120	%	(LIN)	1	7
132	FT415	RCS FLOW LOOP A CH 2	1	-	5	VDC	1.000	5.000	0	-	120	%	(LIN)	1	7
133	FT416	RCS FLOW LOOP A CH 3	1	-	5	VDC	1.000	5.000	0	-	120	%	(LIN)	1	7
134	FT424	RCS FLOW LOOP B CH 1	1	-	5	VDC	1.000	5.000	0	-	120	%	(LIN)	1	7
135	FT425	RCS FLOW LOOP B CH 2	1	-	5	VDC	1.000	5.000	0	-	120	%	(LIN)	1	7
136	FT426	RCS FLOW LOOP B CH 3	1	-	5	VDC	1.000	5.000	0	-	120	%	(LIN)	1	7
137	FT434	RCS FLOW LOOP C CH 1	1	-	5	VDC	1.000	5.000	0	-	120	%	(LIN)	1	7
138	FT435	RCS FLOW LOOP C CH 2	1	-	5	VDC	1.000	5.000	0	-	120	%	(LIN)	1	7
139	FT436	RCS FLOW LOOP C CH 3	1	-	5	VDC	1.000	5.000	0	-	120	%	(LIN)	1	7
140	RVL-A	RX VESSEL WATER LEVEL CH A	N/A	-	N/A		0.000	0.000	0	-	100	%	(D/L)	7	9
141	RVL-B	RX VESSEL WATER LEVEL CH B	N/A	-	N/A		0.000	0.000	0	-	100	%	(D/L)	7	9
142	SMP-A	RCS PRESS SAT MARGIN CH A	N/A	-	N/A		0.000	0.000	-3000	-	3000	PSI	(D/L)	7	9
143	SMP-B	RCS PRESS SAT MARGIN CH B	N/A	-	N/A		0.000	0.000	-3000	-	3000	PSI	(D/L)	7	9
144	SMT-A	RCS TEMP SAT MARGIN CH A	N/A	-	N/A		0.000	0.000	-2100	-	700	DEG F	(D/L)	7	9
145	SMT-B	RCS TEMP SAT MARGIN CH B	N/A	-	N/A		0.000	0.000	-2100	-	700	DEG F	(D/L)	7	9
146	TT6397	REACTOR HEAD TEMPERATURE	1	-	5	VDC	1.000	5.000	100	-	700	DEG F	(LIN)	1	6
147	TT6398	PRESSURIZER TEMPERATURE	1	-	5	VDC	1.000	5.000	100	-	700	DEG F	(LIN)	1	6
148	TE1497	CTMT ATMOSPHERE TEMPERATURE	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	4
149	TE1498	CTMT ATMOSPHERE TEMPERATURE	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	4
150	TE1499	CTMT ATMOSPHERE TEMPERATURE	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	4
151	TE1493	CTMT COOLER 3A INLET TEMP	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	7
152	TE1481	CTMT COOLER 3A OUTLET TEMP	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	7
153	TE1484	CTMT COOLER 3B INLET TEMP	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	7
154	TE1482	CTMT COOLER 3B OUTLET TEMP	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	7
155	TE1487	CTMT COOLER 3C INLET TEMP	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	7
156	TE1485	CTMT COOLER 3C OUTLET TEMP	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	7
157	TE1488	CTMT COOLER 3D INLET TEMP	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	7
158	TE1486	CTMT COOLER 3D OUTLET TEMP	1	-	5	VDC	1.000	5.000	0	-	300	DEG F	(LIN)	1	7
159	PT6306A	CTMT WIDE RANGE PRESSURE CH A	0	-	10	VDC	0.000	10.000	0	-	180	PSIG	(LIN)	1	1
160	PT6306B	CTMT WIDE RANGE PRESSURE CH B	0	-	10	VDC	0.000	10.000	0	-	180	PSIG	(LIN)	1	1
161	PT6423A	CTMT NARROW RANGE PRESS CH A	0	-	10	VDC	0.000	10.000	-6	-	18	PSIG	(LIN)	1	4
162	PT6423B	CTMT NARROW RANGE PRESS CH B	0	-	10	VDC	0.000	10.000	-6	-	18	PSIG	(LIN)	1	4
163	LT154E	CTMT SUMP LEVEL	N/A	-	N/A		0.000	0.000	0	-	300	GAL	(D/L)	7	9
164	LT6308A	CTMT SUMP NR WATER LEVEL CH A	1	-	5	VDC	2.000	10.000	0	-	369	"H2O	(LIN)	1	7
165	LT6308B	CTMT SUMP NR WATER LEVEL CH B	1	-	5	VDC	2.000	10.000	0	-	369	"H2O	(LIN)	1	7
166	LT6309A	CONTAINMENT WATER LEVEL CH A	1	-	5	VDC	2.000	10.000	393	-	487.5	"H2O	(LIN)	1	7
167	LT6309B	CONTAINMENT WATER LEVEL CH B	1	-	5	VDC	2.000	10.000	393	-	487.5	"H2O	(LIN)	1	7
168	LT6421	RCS DRAINDOWN LEVEL	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	5
169	AE6307A	CTMT H2 CONCENTRATION CH. A	1	-	5	VDC	2.000	10.000	0	-	20	XH2	(CALC)	6	7
170	AE6307B	CTMT H2 CONCENTRATION CH. B	1	-	5	VDC	2.000	10.000	0	-	20	XH2	(CALC)	6	7
171	AE6372	RCS ACTIVITY GROSS CPS	0	-	10	VDC	0.000	10.000	1E1	-	1E6	CPS	(LOG)	4	7
172	AE6373	CTMT AIR ANAL. -GAMMA SPECTRUM	0	-	10	VDC	0.000	10.000	1E1	-	1E6	CPS	(LOG)	4	7
173	AE6424	RCS BORON CONCENTRATION	1	-	5	VDC	1.000	5.000	0	-	6000	PPM	(LIN)	1	7
174	AE6453	RCS HYDROGEN CONCENTRATION	1	-	5	VDC	1.000	5.000	0	-	100	% OF VOL	(LIN)	1	7
175	AE6454	RCS PH	1	-	5	VDC	1.000	5.000	1	-	13	PH	(LIN)	1	7
176	AE6455	RCS CHLORIDE	1	-	5	VDC	1.000	5.000	0	-	20	PPM	(LIN)	1	7
177	AE6456	RCS DISSOLVED OXYGEN	1	-	5	VDC	1.000	5.000	0	-	20	PPM	(LIN)	1	7
178	HP-ND680	PLANT & ENVIRONS RADIATION	N/A	-	N/A		0.000	0.000	0	-	1E38	(MAN)	8	M	
179	HP-RO2	ENVIRONS BETA/GAMMA DOSE RATE	N/A	-	N/A		0.000	0.000	0	-	5000	MR/HR	(MAN)	8	M
180	HP2200	AIRBORNE RAD. & PARTICULATE	N/A	-	N/A		0.000	0.000	0	-	5E5	CPM	(MAN)	8	M
181	HP6112	PLANT & ENVIRONS RADIATION	N/A	-	N/A		0.000	0.000	0	-	1000	R/HR	(MAN)	8	M
182	R11	CTMT PARTICULATE ACTIVITY	0	-	5	VDC	0.000	5.000	0	-	1E6	CPM	(LIN)	1	7
183	R12	CONTAINMENT GAS ACTIVITY	0	-	5	VDC	0.000	5.000	0	-	1E6	CPM	(LIN)	1	7
184	R14	PLANT VENT GAS ACTIVITY	0	-	5	VDC	0.000	5.000	0	-	1E6	CPS	(LIN)	1	4
185	R15	CONDENSATE AIR EJECTOR (PRMS)	0	-	5	VDC	0.000	5.000	0	-	1E6	CPM	(LIN)	1	4
186	R17A	CCW LOOP A LEAKAGE (PRMS)	0	-	5	VDC	0.000	5.000	0	-	1E6	CPM	(LIN)	1	6
187	R17B	CCW LOOP B LEAKAGE (PRMS)	0	-	5	VDC	0.000	5.000	0	-	1E6	CPM	(LIN)	1	6
188	R18	LIQUID RELEASE GROSS ACTIVITY	0	-	5	VDC	0.000	5.000	0	-	1E6	CPS	(LIN)	1	6
189	R19	STM GEN LIQUID SAMPLE ACTIVITY	0	-	5	VDC	0.000	5.000	0	-	1E6	CPM	(LIN)	1	4

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191	RAD6304FLD	PLANT VENT FLOW RATE	N/A	-	N/A	0.000	0.000	0	-	80	L/MIN	(D/L)	7	7	
192	RAD6304LH	PLANT VENT GAS LOW RANGE RAD	N/A	-	N/A	0.000	0.000	1E-7	-	6E-2	UCI/CC	(D/L)	7	7	
193	RAD6304HR	PLANT VENT GAS MID RANGE RAD	N/A	-	N/A	0.000	0.000	2.5E-2	-	4E2	UCI/CC	(D/L)	7	7	
194	RAD6304HHR	PLANT VENT GAS HIGH RANGE RAD	N/A	-	N/A	0.000	0.000	1E0	-	1E3	UCI/CC	(D/L)	7	7	
195	RAD6304IOD	PLANT VENT IODINE	N/A	-	N/A	0.000	0.000	1E1	-	1E6	CPM	(D/L)	7	7	
196	RAD6304PAR	PLANT VENT PARTICULATE	N/A	-	N/A	0.000	0.000	1E1	-	1E6	CPM	(D/L)	7	7	
197	RAD6311A	CTMT HR RADIATION CHANNEL A	0	-	.1	VDC	0.000	10.000	1E0	-	1E8	R/HR	(LOG)	4	4
198	RAD6311B	CTMT HR RADIATION CHANNEL B	0	-	.1	VDC	0.000	10.000	1E0	-	1E8	R/HR	(LOG)	4	4
199	RAD6417LF	AIR EJECTOR GAS LOW RANGE RAD	N/A	-	N/A	0.000	0.000	1E-7	-	6E-2	UCI/CC	(D/L)	7	7	
200	RAD6417MR	AIR EJECTOR GAS MID RANGE RAD	N/A	-	N/A	0.000	0.000	2.5E-2	-	4E2	UCI/CC	(D/L)	7	7	
201	RAD6417HR	AIR EJECTOR GAS HIGH RANGE RAD	N/A	-	N/A	0.000	0.000	1E0	-	1E3	UCI/CC	(D/L)	7	7	
202	RAD6417IOD	AIR EJECTOR GAS IODINE	N/A	-	N/A	0.000	0.000	1E1	-	1E6	CPM	(D/L)	7	7	
203	RAD6417PAR	AIR EJECTOR GAS PARTICULATE	N/A	-	N/A	0.000	0.000	1E1	-	1E6	CPM	(D/L)	7	7	
204	RAD6418LR	SPENT FUEL PIT GAS LOW RANGE	N/A	-	N/A	0.000	0.000	1E-7	-	6E-2	UCI/CC	(D/L)	7	7	
205	RAD6418MR	SPENT FUEL PIT GAS MID RANGE	N/A	-	N/A	0.000	0.000	2.5E-2	-	4E2	UCI/CC	(D/L)	7	7	
206	RAD6418HR	SPENT FUEL PIT GAS HIGH RANGE	N/A	-	N/A	0.000	0.000	1E0	-	1E3	UCI/CC	(D/L)	7	7	
207	RAD6418IOD	SPENT FUEL PIT GAS IODINE	N/A	-	N/A	0.000	0.000	1E1	-	1E6	CPM	(D/L)	7	7	
208	RAD6418PAR	SPENT FUEL PIT GAS PARTICULATE	N/A	-	N/A	0.000	0.000	1E1	-	1E6	CPM	(D/L)	7	7	
209	RAD6426	STEAM LINE RADIOACTIVITY	N/A	-	N/A	0.000	0.000	1E-7	-	1E3	UCI/CC	(D/L)	7	7	
210	RD1401	IN-CTMT #3 NEAR PERS HATCH	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
211	RD1402	#3 FUEL TRANSFER CRANE BRIDGE	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
212	RD1403	IN-CTMT #3 AT INCORE INSTR	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
213	RD1407	SPENT FUEL BLDG TRANSF CANAL	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	7
214	RD1409	TANK & PUMP ROOM EXPOSURE RATE	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
215	RD1410	CHEM STOR AREA EXPOSURE RATE	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
216	RD1412	CASK WSH AREA #3 EXPOSURE RATE	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
217	RD1413	OUTSIDE SAMPLE ROOM #3	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
218	RD1415	NORTH END OF NO/SO CORRIDOR	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
219	RD1416	SOUTH END OF NO/SO CORRIDOR	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
220	RD1417	EAST END OF EAST/WEST CORRIDOR	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
221	RD1418	WEST END OF EAST/WEST CORRIDOR	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
222	RD1420	CONTROL ROOM RAD EXPOSURE RATE	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
223	RD1421	SPENT FUEL BUILDING UNIT 3	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
224	RD1423	NEW FUEL BUILDING UNIT 3	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
225	RD1419	SPENT FUEL PIT EXHAUST UNIT 3	1	-	5	VDC	1.000	5.000	1E-1	-	1E3	MR/HR	(LOG)	4	6
226	10M-DEW-SD	10 METER DEW POINT (S. DADE)	0	-	5	VDC	0.000	5.000	0	-	120	DEG F	(LIN)	1	7
227	10M-S/T-ir	10 METER SIGMA THETA (T. P.)	0	-	5	VDC	0.000	5.000	0	-	100	DEG	(LIN)	1	6
228	10M-WD-SD	10 METER WIND DIRECTION (S. D.)	0	-	5	VDC	0.000	5.000	0	-	340	DEG	(LIN)	1	3
229	10M-WD-TP	10 METER WIND DIRECTION (T. P.)	0	-	5	VDC	0.000	5.000	0	-	340	DEG	(LIN)	1	3
230	10M-WS-SD	10 METER WIND SPEED (S. DADE)	0	-	5	VDC	0.000	5.000	0	-	120	MPH	(LIN)	1	3
231	10M-WS-TP	10 METER WIND SPEED (T. P.)	0	-	5	VDC	0.000	5.000	0	-	120	MPH	(LIN)	1	3
232	60M-DEW-SD	60 METER DEW POINT (S. DADE)	0	-	5	VDC	0.000	5.000	0	-	120	DEG F	(LIN)	1	7
233	60M-WD-SD	60 METER WIND DIRECTION (S. D.)	0	-	5	VDC	0.000	5.000	0	-	340	DEG	(LIN)	1	3
234	60M-WS-SD	60 METER WIND SPEED (S. DADE)	0	-	5	VDC	0.000	5.000	0	-	120	MPH	(LIN)	1	3
235	D-TMP-A-SD	ESTIMATE OF ATMOS. STABILITY	0	-	5	VDC	0.000	5.000	-5	-	5	DEG F	(LIN)	1	3
236	D-TMP-B-SD	ESTIMATE OF ATMOS. STABILITY	0	-	5	VDC	0.000	5.000	-5	-	5	DEG F	(LIN)	1	3
237	TMP-A-SD	AIR TEMPERATURE CH. A (S. D.)	0	-	5	VDC	0.000	5.000	0	-	120	DEG F	(LIN)	1	3
238	TMP-B-SD	AIR TEMPERATURE CH. B (S. D.)	0	-	5	VDC	0.000	5.000	0	-	120	DEG F	(LIN)	1	3
239	RAIN-SD	RAINFALL (S. DADE)	0	-	5	VDC	0.000	5.000	0	-	1	INCH	(LIN)	1	7
240	SUN-DIR-SD	DIRECT SOLAR RADIATION (S. D.)	0	-	5	VDC	0.000	5.000	0	-	3	LANGLEYS	(LIN)	1	7
241	SUN-TOT-SD	TOTAL SOLAR RADIATION (S. D.)	0	-	5	VDC	0.000	5.000	0	-	3	LANGLEYS	(LIN)	1	7
242	PT474	STM GEN A PRESSURE CHANNEL II	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	2
243	PT475	STM GEN A PRESSURE CHANNEL III	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	2
244	PT476	STM GEN A PRESSURE CHANNEL IV	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	2
245	PT484	STM GEN B PRESSURE CHANNEL II	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	2
246	PT485	STM GEN B PRESSURE CHANNEL III	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	2
247	PT486	STM GEN B PRESSURE CHANNEL IV	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	2
248	PT494	STM GEN C PRESSURE CHANNEL II	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	2
249	PT495	STM GEN C PRESSURE CHANNEL III	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	2
250	PT496	STM GEN C PRESSURE CHANNEL IV	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	2
251	PT464	STEAM HEADER PRESSURE	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	3
252	PT456	STEAM HEADER PRESSURE	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	3

253 P1468	STEAM HEADER PRESSURE	1	-	5	VDC	1.000	5.000	0	-	1400	PSIG	(LIN)	1	3
254 RV1400	STM LINE A 1085 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
255 RV1401	STM LINE A 1100 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
256 RV1402	STM LINE A 1115 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
257 RV1403	STM LINE A 1130 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
258 RV1405	STM LINE B 1085 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
259 RV1406	STM LINE B 1100 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
260 RV1407	STM LINE B 1115 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
261 RV1408	STM LINE B 1130 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
262 RV1410	STM LINE C 1085 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
263 RV1411	STM LINE C 1100 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
264 RV1412	STM LINE C 1115 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
265 RV1413	STM LINE C 1130 PSI ISOL VLV	0	-	2	VDC	0.000	10.000	0	-	100	%	(SORT)	3	7
266 LT474	STM GEN A NR LEVEL CHANNEL I	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	4
267 LT475	STM GEN A NR LEVEL CHANNEL II	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	4
268 LT476	STM GEN A NR LEVEL CHANNEL III	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	4
269 LT477	STM GEN A WIDE RANGE LEVEL	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	5
270 LT484	STM GEN B NR LEVEL CHANNEL I	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	4
271 LT485	STM GEN B NR LEVEL CHANNEL II	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	4
272 LT486	STM GEN B NR LEVEL CHANNEL III	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	4
273 LT487	STM GEN B WIDE RANGE LEVEL	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	5
274 LT494	STM GEN C NR LEVEL CHANNEL I	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	4
275 LT495	STM GEN C NR LEVEL CHANNEL II	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	4
276 LT496	STM GEN C NR LEVEL CHANNEL III	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	4
277 LT497	STM GEN C WIDE RANGE LEVEL	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	5
278 FT474	STM GEN A STM FLOW CH III	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
279 FT475	STM GEN A STM FLOW CH IV	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
280 FT484	STM GEN B STM FLOW CH III	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
281 FT485	STM GEN B STM FLOW CH IV	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
282 FT494	STM GEN C STM FLOW CH III	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
283 FT495	STM GEN C STM FLOW CH IV	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
284 FT477	STM GEN A MAIN FW FLOW CH III	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
285 FT476	STM GEN A MAIN FW FLOW CH IV	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
286 FT487	STM GEN B MAIN FW FLOW CH III	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
287 FT486	STM GEN B MAIN FW FLOW CH IV	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
288 FT497	STM GEN C MAIN FW FLOW CH III	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
289 FT496	STM GEN C MAIN FW FLOW CH IV	1	-	5	VDC	1.000	5.000	0	-	4E6	LB/HR	(LIN)	1	3
290 FT1401A	AFW FLOW TO STM GEN A CH A	1	-	5	VDC	2.000	10.000	0	-	300	GPM	(SORT)	3	4
291 FT1401B	AFW FLOW TO STM GEN A CH B	1	-	5	VDC	2.000	10.000	0	-	300	GPM	(SORT)	3	4
292 FT1457A	AFW FLOW TO STM GEN B CH A	1	-	5	VDC	2.000	10.000	0	-	300	GPM	(SORT)	3	4
293 FT1457B	AFW FLOW TO STM GEN B CH B	1	-	5	VDC	2.000	10.000	0	-	300	GPM	(SORT)	3	4
294 FT1458A	AFW FLOW TO STM GEN C CH A	1	-	5	VDC	2.000	10.000	0	-	300	GPM	(SORT)	3	4
295 FT1458B	AFW FLOW TO STM GEN C CH B	1	-	5	VDC	2.000	10.000	0	-	300	GPM	(SORT)	3	4
296 PT472	PRZR RELIEF TANK PRESSURE	1	-	5	VDC	1.000	5.000	0	-	120	PSIG	(LIN)	1	4
297 TE471	PRESSURIZER RELIEF TANK TEMP	1	-	5	VDC	1.000	5.000	50	-	350	DEG F	(LIN)	1	6
298 LT470	PRESSURIZER RELIEF TANK LEVEL	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	6
299 NI31D	STARTUP RATE SRA	1	-	5	VDC	1.000	5.000	.5	-	5	DPM	(LIN)	1	1
300 NI32D	STARTUP RATE SRB	1	-	5	VDC	1.000	5.000	.5	-	5	DPM	(LIN)	1	1
301 NI33D	STARTUP RATE IRA	1	-	5	VDC	1.000	5.000	.5	-	5	DPM	(LIN)	1	1
302 NI36D	STARTUP RATE IRB	1	-	5	VDC	1.000	5.000	.5	-	5	DPM	(LIN)	1	1
303 N31	SOURCE RANGE NIS CH I	0	-	5	VDC	0.000	5.000	1E0	-	1E6	CPS	(LOG)	4	4
304 N32	SOURCE RANGE NIS CH II	0	-	5	VDC	0.000	5.000	1E0	-	1E6	CPS	(LOG)	4	4
305 N35	INTERMEDIATE RANGE NIS CH I	0	-	5	VDC	0.000	5.000	1E-11	-	1E-3	AMPS	(LOG)	4	4
306 N36	INTERMEDIATE RANGE NIS CH II	0	-	5	VDC	0.000	5.000	1E-11	-	1E-3	AMPS	(LOG)	4	4
307 N41	POWER RANGE NIS AVG POWER	0	-	5	VDC	0.000	5.000	0	-	120	%	(LIN)	1	1
308 N41U	PHR RNG NIS DET A UPR CURRENT	0	-	5	VDC	0.000	5.000	0	-	500	M AMPS	(LIN)	1	3
309 N41L	PHR RNG NIS DET B LWR CURRENT	0	-	5	VDC	0.000	5.000	0	-	500	M AMPS	(LIN)	1	3
310 N41FDI	N41 RADIAL TILT	N/A	-	N/A		0.000	0.000	-100	-	100	%	(CALC)	6	3
311 N42	POWER RANGE NIS AVG POWER	0	-	5	VDC	0.000	5.000	0	-	120	%	(LIN)	1	1
312 N42U	PHR RNG NIS DET A UPR CURRENT	0	-	5	VDC	0.000	5.000	0	-	500	M AMPS	(LIN)	1	3
313 N42L	PHR RNG NIS DET B LWR CURRENT	0	-	5	VDC	0.000	5.000	0	-	500	M AMPS	(LIN)	1	3
314 N42FDI	N42 RADIAL TILT	N/A	-	N/A		0.000	0.000	-100	-	100	%	(CALC)	6	3
315 N43	POWER RANGE NIS AVG POWER	0	-	5	VDC	0.000	5.000	0	-	120	%	(LIN)	1	1

315 N43U	PWR RNG NIS DET A UPR CURRENT	0	-	5	VDC	0.000	5.000	0	-	500	M AMPS	(LIN)	1	3
317 N43I	PWR RNG NIS DET B LWR CURRENT	0	-	5	VDC	0.000	5.000	0	-	500	M AMPS	(LIN)	1	3
318 N43FDI	N43 RADIAL TILT	N/A	-	N/A		0.000	0.000	-100	-	100	%	(CALC)	6	3
319 N44	POWER RANGE NIS AVG POWER	0	-	5	VDC	0.000	5.000	0	-	120	%	(LIN)	1	1
320 N44U	PWR RNG NIS DET A UPR CURRENT	0	-	5	VDC	0.000	5.000	0	-	500	M AMPS	(LIN)	1	3
321 N44L	PWR RNG NIS DET B LWR CURRENT	0	-	5	VDC	0.000	5.000	0	-	500	M AMPS	(LIN)	1	3
322 N44FDI	N44 RADIAL TILT	N/A	-	N/A		0.000	0.000	-100	-	100	%	(CALC)	6	3
323 RWS1-3A	RWS1 LEVEL CHAN 3A LT3-6583A	1	-	5	VDC	2.000	10.000	0	-	335000	GAL	(LIN)	1	1
324 RWS1-3B	RWS1 LEVEL CHAN 3B LT3-6583B	1	-	5	VDC	2.000	10.000	0	-	335000	GAL	(LIN)	1	1
325 CST-A	CST LEVEL CHAN A LT6384A	0	-	10	VDC	0.000	10.000	0	-	250000	GAL	(LIN)	1	5
326 CST-B	CST LEVEL CHAN B LT6384B	0	-	10	VDC	0.000	10.000	0	-	250000	GAL	(LIN)	1	5
327 PT1612X	ABSOLUTE CONDENSER PRESSURE	1.139	-	5.000	VDC	1.139	5.000	.17	-	5	"HGA	(LIN)	1	6
328 TE607A	CCW HEAT EXCH A OUTLET TEMP	1	-	5	VDC	1.000	5.000	50	-	200	DEG F	(LIN)	1	7
329 TE607B	CCW HEAT EXCH B OUTLET TEMP	1	-	5	VDC	1.000	5.000	50	-	200	DEG F	(LIN)	1	7
330 FT613A	CCW HEADER A FLOW	1	-	5	VDC	1.000	5.000	0	-	14000	GPM	(SQRT)	3	6
331 FT613B	CCW HEADER B FLOW	1	-	5	VDC	1.000	5.000	0	-	14000	GPM	(SQRT)	3	6
332 TE604A	RHR PUMP A DISCHARGE TEMP	1	-	5	VDC	1.000	5.000	50	-	400	DEG F	(LIN)	1	6
333 TE604B	RHR PUMP B DISCHARGE TEMP	1	-	5	VDC	1.000	5.000	50	-	400	DEG F	(LIN)	1	6
334 TE606	RHR HEAT EXCHANGER OUTLET TEMP	1	-	5	VDC	1.000	5.000	50	-	400	DEG F	(LIN)	1	6
335 FT605	RHR SYSTEM FLOW	1	-	5	VDC	1.000	5.000	0	-	8500	GPM	(SQRT)	3	6
336 FT608	RHR TEST LINE FLOW	1	-	5	VDC	1.000	5.000	0	-	300	GPM	(LIN)	1	7
337 FT122	CHARGING FLOW	1	-	5	VDC	1.000	5.000	0	-	150	GPM	(SQRT)	3	4
338 PT121	CHARGING PUMP PRESSURE	1	-	5	VDC	1.000	5.000	0	-	3500	PSIG	(LIN)	1	7
339 TE123	RHX CHARGING FLOW OUT TEMP	1	-	5	VDC	1.000	5.000	100	-	600	DEG F	(LIN)	1	7
340 FT150	LOW PRESS LETDOWN FLOW CONTROL	1	-	5	VDC	1.000	5.000	0	-	150	GPM	(SQRT)	3	4
341 LT112	VOLUME CONTROL TANK LEVEL	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	5
342 LT115	VOLUME CONTROL TANK LEVEL	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	5
343 PT117	VOLUME CONTROL TANK PRESSURE	1	-	5	VDC	1.000	5.000	0	-	100	PSIG	(LIN)	1	7
344 TE115	VOLUME CONTROL TANK TEMP	1	-	5	VDC	1.000	5.000	50	-	300	DEG F	(LIN)	1	7
345 PT3-940	SI PUMP HDR HOT LEG PRESSURE	1	-	5	VDC	1.000	5.000	0	-	2000	PSIG	(LIN)	1	7
346 PT3-943	SI PUMP HDR COLD LEG PRESSURE	1	-	5	VDC	1.000	5.000	0	-	2000	PSIG	(LIN)	1	7
347 FT932	HHSI FLO (HOT LEG) INSIDE CTMT	1	-	5	VDC	1.000	5.000	0	-	600	GPM	(SQRT)	3	6
348 FT933	HHSI FLO (HOT LEG) INSIDE CTMT	1	-	5	VDC	1.000	5.000	0	-	600	GPM	(SQRT)	3	6
349 FT3-940	HHSI FLOW TO HOT LEG	1	-	5	VDC	1.000	5.000	0	-	1000	GPM	(SQRT)	3	4
350 FT3-943	HHSI TO BORON INJ TANK	1	-	5	VDC	1.000	5.000	0	-	1000	GPM	(SQRT)	3	4
351 PT921	ACCUMULATOR TANK A PRESSURE	1	-	5	VDC	1.000	5.000	0	-	800	PSIG	(LIN)	1	4
352 PT923	ACCUMULATOR TANK A PRESSURE	1	-	5	VDC	1.000	5.000	0	-	800	PSIG	(LIN)	1	4
353 PT925	ACCUMULATOR TANK B PRESSURE	1	-	5	VDC	1.000	5.000	0	-	800	PSIG	(LIN)	1	4
354 PT927	ACCUMULATOR TANK B PRESSURE	1	-	5	VDC	1.000	5.000	0	-	800	PSIG	(LIN)	1	4
355 PT929	ACCUMULATOR TANK C PRESSURE	1	-	5	VDC	1.000	5.000	0	-	800	PSIG	(LIN)	1	4
356 PT931	ACCUMULATOR TANK C PRESSURE	1	-	5	VDC	1.000	5.000	0	-	800	PSIG	(LIN)	1	4
357 LT920	ACCUMULATOR TANK A LEVEL	1	-	5	VDC	1.000	5.000	2000	-	9000	GAL	(LIN)	1	4
358 LT922	ACCUMULATOR TANK A LEVEL	1	-	5	VDC	1.000	5.000	2000	-	9000	GAL	(LIN)	1	4
359 LT924	ACCUMULATOR TANK B LEVEL	1	-	5	VDC	1.000	5.000	2000	-	9000	GAL	(LIN)	1	4
360 LT926	ACCUMULATOR TANK B LEVEL	1	-	5	VDC	1.000	5.000	2000	-	9000	GAL	(LIN)	1	4
361 LT928	ACCUMULATOR TANK C LEVEL	1	-	5	VDC	1.000	5.000	2000	-	9000	GAL	(LIN)	1	4
362 LT930	ACCUMULATOR TANK C LEVEL	1	-	5	VDC	1.000	5.000	2000	-	9000	GAL	(LIN)	1	4
363 LT1001	WASTE HOLDUP TANK LEVEL	1	-	5	VDC	1.000	5.000	0	-	24000	GAL	(LIN)	1	7
364 PT1036	GAS DECAY TANK A PRESSURE	1	-	5	VDC	1.000	5.000	0	-	160	PSIG	(LIN)	1	6
365 PT1037	GAS DECAY TANK B PRESSURE	1	-	5	VDC	1.000	5.000	0	-	160	PSIG	(LIN)	1	6
366 PT1038	GAS DECAY TANK C PRESSURE	1	-	5	VDC	1.000	5.000	0	-	160	PSIG	(LIN)	1	6
367 PT1039	GAS DECAY TANK D PRESSURE	1	-	5	VDC	1.000	5.000	0	-	160	PSIG	(LIN)	1	6
368 PT1052	GAS DECAY TANK E PRESSURE	1	-	5	VDC	1.000	5.000	0	-	160	PSIG	(LIN)	1	6
369 PT1053	GAS DECAY TANK F PRESSURE	1	-	5	VDC	1.000	5.000	0	-	160	PSIG	(LIN)	1	6
370 LT6265	BLOWDOWN TANK LEVEL	1	-	5	VDC	1.000	5.000	0	-	100	%	(LIN)	1	6
371 FT6274	BLOWDOWN HX TO CONDENSER	1	-	5	VDC	1.000	5.000	0	-	71500	LB/HR	(LIN)	1	6
372 3K4AMPS-113	EMERG D/O A CURRENT TO UNIT 3	1	-	5	VDC	2.000	10.000	0	-	600	AMPS	(LIN)	1	5
373 3K4AMPS-114	EMERG D/O A CURRENT TO UNIT 4	1	-	5	VDC	2.000	10.000	0	-	600	AMPS	(LIN)	1	5
374 3K4VOLTS	EMERG D/O A VOLTS	1	-	5	VDC	2.000	10.000	0	-	5000	VAC	(LIN)	1	4
375 3K4KW	EMERG D/O A POWER	N/A	-	N/A		0.000	0.000	0	-	2850	KW	(CALC)	6	3
376 3AA	SWITCHGEAR 3A VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	5250	VOLTS	(LIN)	1	5
377 3AB	SWITCHGEAR 3B VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	5250	VOLTS	(LIN)	1	5
378 3AC	SWITCHGEAR 3C VOLTAGE	1	-	5	VDC	1.000	5.000	0	-	5250	VOLTS	(LIN)	1	5

379 3B01	LOAD CENTER 3A STATUS	1	-	5	VDC	2.000	10.000	0	-	600	VOLTS	(LIN)	1	5
380 3B02	LOAD CENTER 3B STATUS	1	-	5	VDC	2.000	10.000	0	-	600	VOLTS	(LIN)	1	5
381 3B03	LOAD CENTER 3C STATUS	1	-	5	VDC	2.000	10.000	0	-	600	VOLTS	(LIN)	1	5
382 3B04	LOAD CENTER 3D STATUS	1	-	5	VDC	2.000	10.000	0	-	600	VOLTS	(LIN)	1	5
383 3B41	LOAD CENTER 3E VOLTAGE	1	-	5	VDC	1.000	5.000	0	-	600	VOLTS	(LIN)	1	5
384 3B14	LOAD CENTER 3F VOLTAGE	1	-	5	VDC	1.000	5.000	0	-	600	VOLTS	(LIN)	1	5
385 3B15	LOAD CENTER 3G VOLTAGE	1	-	5	VDC	1.000	5.000	0	-	600	VOLTS	(LIN)	1	5
386 3B05	MCC-3A BUS VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	600	VOLTS	(LIN)	1	6
387 3B06	MCC-3B BUS VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	600	VOLTS	(LIN)	1	6
388 3B07	MCC-3C BUS VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	600	VOLTS	(LIN)	1	6
389 B08	MCC-D BUS VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	600	VOLTS	(LIN)	1	6
390 3B09	MCC-3E BUS VOLTAGE	1	-	5	VDC	1.000	5.000	0	-	550	VOLTS	(LIN)	1	6
391 3/4B10	MCC-F WTR TRMT PLT	1	-	5	VDC	1.000	5.000	0	-	550	VOLTS	(LIN)	1	6
392 3B06(INV)	MCC-3B NON-VITAL BUS STATUS	1	-	5	VDC	1.000	5.000	0	-	550	VOLTS	(LIN)	1	6
393 3B07(INV)	MCC-3C NON-VITAL BUS STATUS	1	-	5	VDC	1.000	5.000	0	-	550	VOLTS	(LIN)	1	6
394 B08(INV)	MCC-D NON-VITAL BUS STATUS	1	-	5	VDC	1.000	5.000	0	-	550	VOLTS	(LIN)	1	6
395 3B43	CONDENSATE POLISHING MCC	1	-	5	VDC	1.000	5.000	0	-	550	VOLTS	(LIN)	1	6
396 B16	RADWASTE BLDG MCC-B16	1	-	5	VDC	1.000	5.000	0	-	550	VOLTS	(LIN)	1	6
397 3D23	125 VDC POWER SOURCE 3B BATT.	1	-	5	VDC	2.000	10.000	0	-	150	VDC	(LIN)	14-82	
398 3D01	125 VDC POWER SOURCE 3A BATT	1	-	5	VDC	2.000	10.000	0	-	150	VDC	(LIN)	14-82	
399 3Y01AMPS	120 VAC INVERTER 3A CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	14-82	
400 3Y01VOLT	120 VAC INVERTER 3A VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	14-82	
401 3Y02AMPS	120 VAC INVERTER 3B CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	14-82	
402 3Y02VOLT	120 VAC INVERTER 3B VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	14-82	
403 3Y03AMPS	120 VAC INVERTER 3C CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	14-82	
404 3Y03VOLT	120 VAC INVERTER 3C VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	14-82	
405 3Y07AMPS	120 VAC INVERTER 3D CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	14-82	
406 3Y07VOLT	120 VAC INVERTER 3D VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	14-82	
407 3Y04AMPS	120 VAC INVERTER AS CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	14-82	
408 3Y04VOLT	120 VAC INVERTER AS VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	14-82	
409 3Y06AMPS	120 VAC INVERTER CS CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	14-82	
410 3Y06VOLT	120 VAC INVERTER CS VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	14-82	
411 VREF-0A1	0VDC REF MODACS A F0 J00 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
412 VREF-0A2	0VDC REF MODACS A F0 J03 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
413 VREF-0A3	0VDC REF MODACS A F0 J06 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
414 VREF-0A4	0VDC REF MODACS A F1 J00 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
415 VREF-0A5	0VDC REF MODACS A F1 J03 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
416 VREF-0A6	0VDC REF MODACS A F1 J06 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
417 VREF-0A7	0VDC REF MODACS A F2 J00 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
418 VREF-0A8	0VDC REF MODACS A F2 J03 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
419 VREF-0A9	0VDC REF MODACS A	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
420 VREF-0A10	0VDC REF MODACS A	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
421 VREF-2A1	2VDC REF MODACS A F0 J00 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
422 VREF-2A2	2VDC REF MODACS A F0 J03 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
423 VREF-2A3	2VDC REF MODACS A F0 J06 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
424 VREF-2A4	2VDC REF MODACS A F1 J00 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
425 VREF-2A5	2VDC REF MODACS A F1 J03 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
426 VREF-2A6	2VDC REF MODACS A F1 J06 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
427 VREF-2A7	2VDC REF MODACS A F2 J00 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
428 VREF-2A8	2VDC REF MODACS A F2 J03 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
429 VREF-2A9	2VDC REF MODACS A	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
430 VREF-2A10	2VDC REF MODACS A	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
431 VREF-4A1	4VDC REF MODACS A F0 J00 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
432 VREF-4A2	4VDC REF MODACS A F0 J03 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
433 VREF-4A3	4VDC REF MODACS A F0 J06 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
434 VREF-4A4	4VDC REF MODACS A F1 J00 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
435 VREF-4A5	4VDC REF MODACS A F1 J03 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
436 VREF-4A6	4VDC REF MODACS A F1 J06 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
437 VREF-4A7	4VDC REF MODACS A F2 J00 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
438 VREF-4A8	4VDC REF MODACS A F2 J03 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
439 VREF-4A9	4VDC REF MODACS A	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
440 VREF-4A10	4VDC REF MODACS A	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
441 VREF-8A1	8VDC REF MODACS A F0 J00 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8

442 VREF-8A2	8VDC REF MODACS A F0 J03 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
443 VREF-8A3	8VDC REF MODACS A F0 J06 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
444 VREF-8A4	8VDC REF MODACS A F1 J00 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
445 VREF-8A5	8VDC REF MODACS A F1 J03 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
446 VREF-8A6	8VDC REF MODACS A F1 J06 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
447 VREF-8A7	8VDC REF MODACS A F2 J00 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
448 VREF-8A8	8VDC REF MODACS A F2 J03 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
449 VREF-8A9	8VDC REF MODACS A	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
450 VREF-8A10	8VDC REF MODACS A	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
451 VREF-0B1	0VDC REF MODACS B F0 J00 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
452 VREF-0B2	0VDC REF MODACS B F0 J03 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
453 VREF-0B3	0VDC REF MODACS B F0 J06 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
454 VREF-0B4	0VDC REF MODACS B F1 J00 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
455 VREF-0B5	0VDC REF MODACS B F1 J03 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
456 VREF-0B6	0VDC REF MODACS B F1 J06 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
457 VREF-0B7	0VDC REF MODACS B F2 J00 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
458 VREF-0B8	0VDC REF MODACS B F2 J03 CH 0	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
459 VREF-0B9	0VDC REF MODACS B	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
460 VREF-0B10	0VDC REF MODACS B	0	-	0	MVDC	0.000	0.000	0	-	0	MVDC	(VREF)	N	8
461 VREF-2B1	2VDC REF MODACS B F0 J00 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
462 VREF-2B2	2VDC REF MODACS B F0 J03 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
463 VREF-2B3	2VDC REF MODACS B F0 J06 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
464 VREF-2B4	2VDC REF MODACS B F1 J00 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
465 VREF-2B5	2VDC REF MODACS B F1 J03 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
466 VREF-2B6	2VDC REF MODACS B F1 J06 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
467 VREF-2B7	2VDC REF MODACS B F2 J00 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
468 VREF-2B8	2VDC REF MODACS B F2 J03 CH 1	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
469 VREF-2B9	2VDC REF MODACS B	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
470 VREF-2B10	2VDC REF MODACS B	2	-	2	VDC	0.000	0.000	2	-	2	VOLTS	(VREF)	N	8
471 VREF-4B1	4VDC REF MODACS B F0 J00 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
472 VREF-4B2	4VDC REF MODACS B F0 J03 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
473 VREF-4B3	4VDC REF MODACS B F0 J06 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
474 VREF-4B4	4VDC REF MODACS B F1 J00 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
475 VREF-4B5	4VDC REF MODACS B F1 J03 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
476 VREF-4B6	4VDC REF MODACS B F1 J06 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
477 VREF-4B7	4VDC REF MODACS B F2 J00 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
478 VREF-4B8	4VDC REF MODACS B F2 J03 CH 2	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
479 VREF-4B9	4VDC REF MODACS B	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
480 VREF-4B10	4VDC REF MODACS B	4	-	4	VDC	0.000	0.000	4	-	4	VOLTS	(VREF)	N	8
481 VREF-8B1	8VDC REF MODACS B F0 J00 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
482 VREF-8B2	8VDC REF MODACS B F0 J03 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
483 VREF-8B3	8VDC REF MODACS B F0 J06 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
484 VREF-8B4	8VDC REF MODACS B F1 J00 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
485 VREF-8B5	8VDC REF MODACS B F1 J03 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
486 VREF-8B6	8VDC REF MODACS B F1 J06 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
487 VREF-8B7	8VDC REF MODACS B F2 J00 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
488 VREF-8B8	8VDC REF MODACS B F2 J03 CH 3	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
489 VREF-8B9	8VDC REF MODACS B	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
490 VREF-8B10	8VDC REF MODACS B	8	-	8	VDC	0.000	0.000	8	-	8	VOLTS	(VREF)	N	8
491 DDPS044	PRESSURIZER LEVEL WIDE RANGE	N/A	-	N/A		0.000	0.000	0	-	100	%	(D/L)	7	9
492 DDPS050	TURBINE FIRST STG PRFS CH 3	N/A	-	N/A		0.000	0.000	0	-	120	%	(D/L)	7	9
493 DDPS052	PRESSURIZER LIQUID TEMPERATURE	N/A	-	N/A		0.000	0.000	100	-	700	DEG F	(D/L)	7	9
494 DDPS053	PRESSURIZER STEAM TEMPERATURE	N/A	-	N/A		0.000	0.000	100	-	700	DEG F	(D/L)	7	9
495 DDPS079	STM GEN BLOWDOWN FLOW	N/A	-	N/A		0.000	0.000	0	-	1E3	LB/HR	(D/L)	7	9
496 DDPS104	INTAKE COOLING WATER TEMP	N/A	-	N/A		0.000	0.000	0	-	200	DEG F	(D/L)	7	9
497 DDPS127	TURBINE CONTROL OIL PRESSURE	N/A	-	N/A		0.000	0.000	0	-	100	PSI	(D/L)	7	9
498 DDPS138	GENERATOR MEGAWATTS INDICATION	N/A	-	N/A		0.000	0.000	0	-	1000	MW	(D/L)	7	9
499 DDPS145	FEEDWATER TEMPERATURE 1	N/A	-	N/A		0.000	0.000	300	-	450	DEG F	(D/L)	7	9
500 DDPS147	GENERATOR MEGAVARS INDICATION	N/A	-	N/A		0.000	0.000	-500	-	300	MVAR	(D/L)	7	9
501 RWST-4A	RWST LEVEL CHAN 4A LT4-6583A	1	-	5	VDC	2.000	10.000	0	-	335000	GAL	(LIN)	1	1
502 RWST-4B	RWST LEVEL CHAN 4B LT4-6583B	1	-	5	VDC	2.000	10.000	0	-	335000	GAL	(LIN)	1	1
503 PT4-940	SI PUMP HDR HOT LEG PRESSURE	1	-	5	VDC	1.000	3.000	0	-	2000	PSIG	(LIN)	1	7
504 PT4-943	SI PUMP HDR COLD LEG PRESSURE	1	-	5	VDC	1.000	3.000	0	-	2000	PSIG	(LIN)	1	7

505 FT4-940	INSTR FLOW TO HOT LEG	1	-	5	VDC	1.000	5.000	0	-	1000	GPM	(SQRT)	3	4
506 FT4-943	HIGH TO BORDON INJ TANK	1	-	5	VDC	1.000	5.000	0	-	1000	GPM	(SQRT)	3	4
507 4K4AMPS-114	EMERG. D/O B CURRENT TO UNIT 4	1	-	5	VDC	2.000	10.000	0	-	600	AMPS	(LIN)	1	4 ⁴⁸
508 4K4AMPS-115	EMERG. D/O B CURRENT TO UNIT 3	1	-	5	VDC	2.000	10.000	0	-	600	AMPS	(LIN)	1	4 ⁴⁸
509 4K4VOLTS	EMERG. D/O B VOLTS	1	-	5	VDC	2.000	10.000	0	-	5000	VAC	(LIN)	1	4
510 4K4KW	EMERG. D/O B POWER	N/A	-	N/A		0.000	0.000	0	-	2850	KW	(CALC)	6	3
511 4B09	MCC-4E BUS VOLTAGE	1	-	5	VDC	1.000	5.000	0	-	350	VOLTS	(LIN)	1	6
512 4B23	125 VDC POWER SOURCE 4A BATT	1	-	5	VDC	2.000	10.000	0	-	150	VDC	(LIN)	1	4 ⁴⁸
513 4D01	125 VDC POWER SOURCE 4B BATT	1	-	5	VDC	2.000	10.000	0	-	150	VDC	(LIN)	1	4 ⁴⁸
514 4Y01AMPS	120 VAC INVERTER 4A CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	1	4 ⁴⁸
515 4Y01VOLTS	120 VAC INVERTER 4A VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	1	4 ⁴⁸
516 4Y02AMPS	120 VAC INVERTER 4B CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	1	4 ⁴⁸
517 4Y02VOLTS	120 VAC INVERTER 4B VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	1	4 ⁴⁸
518 4Y03AMPS	120 VAC INVERTER 4C CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	1	4 ⁴⁸
519 4Y03VOLTS	120 VAC INVERTER 4C VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	1	4 ⁴⁸
520 4Y07AMPS	120 VAC INVERTER 4D CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	1	4 ⁴⁸
521 4Y07VOLTS	120 VAC INVERTER 4D VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	1	4 ⁴⁸
522 4Y04AMPS	120 VAC INVERTER 8S CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	1	4 ⁴⁸
523 4Y04VOLTS	120 VAC INVERTER 8S VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	1	4 ⁴⁸
524 4Y06AMPS	120 VAC INVERTER DS CURRENT	1	-	5	VDC	2.000	10.000	0	-	100	AMPS	(LIN)	1	4 ⁴⁸
525 4Y06VOLTS	120 VAC INVERTER DS VOLTAGE	1	-	5	VDC	2.000	10.000	0	-	150	VAC	(LIN)	1	4 ⁴⁸
526 PRZ-AVPRES	PRESSURIZER AVERAGE PRESSURE	N/A	-	N/A		0.000	0.000	1700	-	2500	PSIG	(CALC)	6	3
527 PRZ-AVLVL	PRESSURIZER AVERAGE LEVEL	N/A	-	N/A		0.000	0.000	0	-	100	%	(CALC)	6	3
528 THA-AVTEMP	RCS HOT LEG A AVG TEMP	N/A	-	N/A		0.000	0.000	0	-	750	DEG F	(CALC)	6	3
529 THB-AVTEMP	RCS HOT LEG B AVG TEMP	N/A	-	N/A		0.000	0.000	0	-	750	DEG F	(CALC)	6	3
530 THC-AVTEMP	RCS HOT LEG C AVG TEMP	N/A	-	N/A		0.000	0.000	0	-	750	DEG F	(CALC)	6	3
531 TCA-AVTEMP	RCS COLD LEG A AVG TEMP	N/A	-	N/A		0.000	0.000	0	-	750	DEG F	(CALC)	6	3
532 TCB-AVTEMP	RCS COLD LEG B AVG TEMP	N/A	-	N/A		0.000	0.000	0	-	750	DEG F	(CALC)	6	3
533 TCC-AVTEMP	RCS COLD LEG C AVG TEMP	N/A	-	N/A		0.000	0.000	0	-	750	DEG F	(CALC)	6	3
534 RCSA-AVFLC	RCS A AVERAGE FLOW	N/A	-	N/A		0.000	0.000	0	-	120	%	(CALC)	6	3
535 RCSB-AVFLC	RCS B AVERAGE FLOW	N/A	-	N/A		0.000	0.000	0	-	120	%	(CALC)	6	3
536 RCSC-AVFLC	RCS C AVERAGE FLOW	N/A	-	N/A		0.000	0.000	0	-	120	%	(CALC)	6	3
537 AVQ-STAB	AVQ EST OF ATMOS STABILITY	N/A	-	N/A		0.000	0.000	-3	-	5	DEG F	(CALC)	6	3
538 SOA-AVPRES	STM GEN A AVERAGE PRESSURE	N/A	-	N/A		0.000	0.000	0	-	1400	PSIG	(CALC)	6	3
539 SOB-AVPRES	STM GEN B AVERAGE PRESSURE	N/A	-	N/A		0.000	0.000	0	-	1400	PSIG	(CALC)	6	3
540 SOC-AVPRES	STM GEN C AVERAGE PRESSURE	N/A	-	N/A		0.000	0.000	0	-	1400	PSIG	(CALC)	6	3
541 SOA-AVLVL	STM GEN A AVERAGE NR LEVEL	N/A	-	N/A		0.000	0.000	0	-	100	%	(CALC)	6	3
542 SOB-AVLVL	STM GEN B AVERAGE NR LEVEL	N/A	-	N/A		0.000	0.000	0	-	100	%	(CALC)	6	3
543 SOC-AVLVL	STM GEN C AVERAGE NR LEVEL	N/A	-	N/A		0.000	0.000	0	-	100	%	(CALC)	6	3
544 RHST3AVLVL	RHST (UNIT 3) AVERAGE LEVEL	N/A	-	N/A		0.000	0.000	0	-	335000	GAL	(CALC)	6	3
545 RHST4AVLVL	RHST (UNIT 4) AVERAGE LEVEL	N/A	-	N/A		0.000	0.000	0	-	335000	GAL	(CALC)	6	3
546 VCT-AVLVL	VOLUME CONTROL TANK AVG LEVEL	N/A	-	N/A		0.000	0.000	0	-	100	%	(CALC)	6	3
547 ACCA-AVPRS	ACCUMULATOR A AVG PRESS	N/A	-	N/A		0.000	0.000	0	-	800	PSIG	(CALC)	6	3
548 ACCB-AVPRS	ACCUMULATOR B AVG PRESS	N/A	-	N/A		0.000	0.000	0	-	800	PSIG	(CALC)	6	3
549 ACCC-AVPRS	ACCUMULATOR C AVG PRESS	N/A	-	N/A		0.000	0.000	0	-	800	PSIG	(CALC)	6	3
550 ACCA-AVLVL	ACCUMULATOR A AVG LEVEL	N/A	-	N/A		0.000	0.000	2000	-	9000	GAL	(CALC)	6	3
551 ACCB-AVLVL	ACCUMULATOR B AVG LEVEL	N/A	-	N/A		0.000	0.000	2000	-	9000	GAL	(CALC)	6	3
552 ACCC-AVLVL	ACCUMULATOR C AVG LEVEL	N/A	-	N/A		0.000	0.000	2000	-	9000	GAL	(CALC)	6	3
553 FT6277A	STM GEN A BLOWDOWN FLOW	1	-	5	VDC	1.000	5.000	0	-	200000	LB/HR	(LIN)	1	4
554 FT6277B	STM GEN B BLOWDOWN FLOW	1	-	5	VDC	1.000	5.000	0	-	200000	LB/HR	(LIN)	1	4
555 FT6277C	STM GEN C BLOWDOWN FLOW	1	-	5	VDC	1.000	5.000	0	-	200000	LB/HR	(LIN)	1	4
556 FT6585A	RCP A SEAL LEAK-OFF FLOW	1	-	5	VDC	1.000	5.000	0	-	1.5	GPM	(LIN)	1	3
557 FT6585B	RCP B SEAL LEAK-OFF FLOW	1	-	5	VDC	1.000	5.000	0	-	1.5	GPM	(LIN)	1	3
558 FT6585C	RCP C SEAL LEAK-OFF FLOW	1	-	5	VDC	1.000	5.000	0	-	1.5	GPM	(LIN)	1	3
559 FI6584	PLANT VENT FLOW MONITOR	N/A	-	N/A		0.000	0.000	0	-	150000	CFM	(D/L)	7	7
560 FY6327	COND POL SYS DEMIN FLOW	1	-	5	VDC	1.000	5.000	0	-	13880	GPM	(LIN)	1	7
561 SUMP-AVLVL	CTMT SUMP WTR AVG LVL	N/A	-	N/A		0.000	0.000	0	-	69000	GAL	(CALC)	6	3
562 TH-AVTEMP	RCS HOT LEG AVG TEMP	N/A	-	N/A		0.000	0.000	0	-	750	DEG F	(CALC)	6	3
563 CTMT-AVTEMP	CTMT ATMOSPHERE AVG TEMP	N/A	-	N/A		0.000	0.000	0	-	300	DEG F	(CALC)	6	3
564 AVG-RVL	RA VESSEL WATER AVERAGE LEVEL	N/A	-	N/A		0.000	0.000	0	-	100	%	(CALC)	6	3
565 CTMT-AVTEMP	CTMT NARROW RANGE AVG PRESS	N/A	-	N/A		0.000	0.000	-2	-	18	PSIG	(CALC)	6	3
566 SD-AVTEMP	AVERAGE AIR TEMPERATURE (S. D.)	N/A	-	N/A		0.000	0.000	0	-	120	DEG F	(CALC)	6	3

001 3AAB01	LOAD CENTER BREAKER 3A	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	5
002 3AB09	LOAD CENTER BREAKER 3B	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	5
003 3AA14	LOAD CENTER BREAKER 3C	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	5
004 3AB14	LOAD CENTER BREAKER 3D	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	5
005 3P06	120 VAC INV PNL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	74 302
006 3P07	120 VAC INV PNL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	74 302
007 3P08	120 VAC INV PNL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	74 302
008 3P09	120 VAC INV PNL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	74 302
009 3P21	VITAL AC PANEL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	74 302
010 3P22	VITAL AC PANEL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	74 302
011 3P23	VITAL AC PANEL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	74 302
012 3P24	VITAL AC PANEL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	74 302
013 TURBMANTRP	TURBINE MANUAL TRIP	OPEN	CLOSED	OFF	ON	NORMAL	OPERATED	1
014 GENFLDDBRTR	GENERATOR FIELD BREAKER	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	3
015 RX-TRIP	REACTOR MANUAL TRIP	OPEN	CLOSED	OFF	ON	NOT TRIPPED	TRIPPED	5
016 RTBYA	REACTOR TRIP BYPASS BREAKER A	OPEN	CLOSED	OFF	ON	TRIPPED	NOT TRIPPED	1
017 RTBYB	REACTOR TRIP BYPASS BREAKER B	OPEN	CLOSED	OFF	ON	TRIPPED	NOT TRIPPED	1
018 RTA	REACTOR TRIP BREAKER A STATUS	OPEN	CLOSED	OFF	ON	TRIPPED	NOT TRIPPED	1
019 RTB	REACTOR TRIP BREAKER B STATUS	OPEN	CLOSED	OFF	ON	TRIPPED	NOT TRIPPED	1
020 RPICBA	BANK A ROD BOTTOM SWITCHES	OPEN	CLOSED	OFF	ON	NOT IN	FULL IN	44 302
021 RPICBB	BANK B ROD BOTTOM SWITCHES	OPEN	CLOSED	OFF	ON	NOT IN	FULL IN	44 302
022 RPICBC	BANK C ROD BOTTOM SWITCHES	OPEN	CLOSED	OFF	ON	NOT IN	FULL IN	44 302
023 RPICBD	BANK D ROD BOTTOM SWITCHES	OPEN	CLOSED	OFF	ON	NOT IN	FULL IN	44 302
024 RPISDA	S/D BANK A ROD BOTTOM SWITCHES	OPEN	CLOSED	OFF	ON	NOT IN	FULL IN	44 302
025 RPISDB	S/D BANK B ROD BOTTOM SWITCHES	OPEN	CLOSED	OFF	ON	NOT IN	FULL IN	44 302
026 3AA01	RCP 3A (3P200A) BRKR STATUS	OPEN	CLOSED	OFF	ON	OFF	ON	2
027 3AB01	RCP 3B (3P200B) BRKR STATUS	OPEN	CLOSED	OFF	ON	OFF	ON	2
028 3AB06	RCP 3C (3P200C) BRKR STATUS	OPEN	CLOSED	OFF	ON	OFF	ON	2
029 RCP-A-MV	RCP A MOTOR VIBRATION	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	3
030 RCP-A-SV	RCP A SHAFT VIBRATION	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	3
031 CV303A0	RCP A SEAL LEAKOFF	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
032 CV303AC	RCP A SEAL LEAKOFF	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
033 CV303A	RCP A SEAL LEAKOFF							6
034 FIC156	RCP A #1 SEAL B/P FLOW	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
035 LC417L	RCP A UPPER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
036 LC417H	RCP A UPPER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
037 LC417	RCP A UPPER OIL RESERVOIR LVL					NORMAL	ABNORMAL	3
038 LC419L	RCP A LOWER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
039 LC419H	RCP A LOWER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
040 LC419	RCP A LOWER OIL RESERVOIR LVL					NORMAL	ABNORMAL	3
041 RCP-B-MV	RCP B MOTOR VIBRATION	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	3
042 RCP-B-SV	RCP B SHAFT VIBRATION	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	3
043 CV303B0	RCP B SEAL LEAKOFF	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
044 CV303BC	RCP B SEAL LEAKOFF	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
045 CV303B	RCP B SEAL LEAKOFF							6
046 FIC155	RCP B #1 SEAL B/P FLOW	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
047 LC427L	RCP B UPPER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
048 LC427H	RCP B UPPER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
049 LC427	RCP B UPPER OIL RESERVOIR LVL					NORMAL	ABNORMAL	3
050 LC427L	RCP B LOWER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
051 LC427H	RCP B LOWER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
052 LC429	RCP B LOWER OIL RESERVOIR LVL					NORMAL	ABNORMAL	3
053 RCP-C-MV	RCP C MOTOR VIBRATION	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	3
054 RCP-C-SV	RCP C SHAFT VIBRATION	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	3
055 CV303C0	RCP C SEAL LEAKOFF	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
056 CV303CC	RCP C SEAL LEAKOFF	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
057 CV303C	RCP C SEAL LEAKOFF							6
058 FIC154	RCP C #1 SEAL B/P FLOW	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
059 LC437L	RCP C UPPER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
060 LC437H	RCP C UPPER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
061 LC437	RCP C UPPER OIL RESERVOIR LVL					NORMAL	ABNORMAL	3
062 LC439L	RCP C LOWER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
063 LC439H	RCP C LOWER OIL RESERVOIR LVL	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7

UNIT	DESCRIPTION	STATUS	MODE	ALARM	TEST	ACTUAL	SETPOINT	UNIT
065	CV3070	#1 SEAL BYPASS VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	7
066	CV307C	#1 SEAL BYPASS VALVE	OPEN	CLOSED	OFF	ON	NOT CLOSED	7
067	CV307	#1 SEAL BYPASS VALVE	OPEN	CLOSED	OFF	ON	NOT CLOSED	7
068	SI-PMP-3A	SAFETY INJECTION PUMP 3A	OPEN	CLOSED	OFF	ON	OFF	5
069	SI-PMP-3B	SAFETY INJECTION PUMP 3B	OPEN	CLOSED	OFF	ON	OFF	5
070	CHGP-3A	CHARGING PUMP 3A STATUS	OPEN	CLOSED	OFF	ON	OFF	6
071	CHGP-3B	CHARGING PUMP 3B STATUS	OPEN	CLOSED	OFF	ON	OFF	6
072	CHGP-3C	CHARGING PUMP 3C STATUS	OPEN	CLOSED	OFF	ON	OFF	6
073	CSP-3A	CTHT SPRAY PUMP 3A STATUS	OPEN	CLOSED	OFF	ON	OFF	6
074	CSP-3B	CTHT SPRAY PUMP 3B STATUS	OPEN	CLOSED	OFF	ON	OFF	6
075	RHRP-3A	RHR PUMP 3A STATUS	OPEN	CLOSED	OFF	ON	OFF	5
076	RHRP-3B	RHR PUMP 3B STATUS	OPEN	CLOSED	OFF	ON	OFF	5
077	CCWP-3A	COMPONENT COOLING WTR PUMP 3A	OPEN	CLOSED	OFF	ON	OFF	5
078	CCWP-3B	COMPONENT COOLING WTR PUMP 3B	OPEN	CLOSED	OFF	ON	OFF	5
079	CCWP-3C	COMPONENT COOLING WTR PUMP 3C	OPEN	CLOSED	OFF	ON	OFF	5
080	FWP-3A	FEEDWATER PUMP 3A STATUS	OPEN	CLOSED	OFF	ON	OFF	2
081	FWP-3B	FEEDWATER PUMP 3B STATUS	OPEN	CLOSED	OFF	ON	OFF	2
082	HDP-3A	HEATER DRAIN PUMP 3A	OPEN	CLOSED	OFF	ON	OFF	6
083	HDP-3B	HEATER DRAIN PUMP 3B	OPEN	CLOSED	OFF	ON	OFF	6
084	CWP-3A1	CIRC WTR PMP 3A1 STATUS	OPEN	CLOSED	OFF	ON	OFF	7
085	CWP-3A2	CIRC WTR PMP 3A2 STATUS	OPEN	CLOSED	OFF	ON	OFF	7
086	CWP-3B1	CIRC WTR PMP 3B1 STATUS	OPEN	CLOSED	OFF	ON	OFF	7
087	CWP-3B2	CIRC WTR PMP 3B2 STATUS	OPEN	CLOSED	OFF	ON	OFF	7
088	COND-3A	CONDENSATE PUMP 3A STATUS	OPEN	CLOSED	OFF	ON	OFF	2
089	COND-3B	CONDENSATE PUMP 3B STATUS	OPEN	CLOSED	OFF	ON	OFF	2
090	COND-3C	CONDENSATE PUMP 3C STATUS	OPEN	CLOSED	OFF	ON	OFF	2
091	NC31HV	SOURCE RANGE HI VOLTAGE STATUS	OPEN	CLOSED	OFF	ON	OFF	2
092	NC32HV	SOURCE RANGE HI VOLTAGE STATUS	OPEN	CLOSED	OFF	ON	OFF	2
093	SIAS-A1	AUTO SAFETY INJ ACTUATION	OPEN	CLOSED	OFF	ON	NOT ACTUATED	1
094	SIAS-A2	AUTO SAFETY INJ ACTUATION	OPEN	CLOSED	OFF	ON	NOT ACTUATED	1
095	SIAS-M1	MANUAL SAFETY INJ ACTUATION	OPEN	CLOSED	OFF	ON	NOT ACTUATED	1
096	SIAS-M2	MANUAL SAFETY INJ ACTUATION	OPEN	CLOSED	OFF	ON	NOT ACTUATED	1
097	FIAS-10X	FW ISOL ACTUATION (LOOP A)	OPEN	CLOSED	OFF	ON	ACTUATED	1
098	FIAS-20X	FW ISOL ACTUATION (LOOP A)	OPEN	CLOSED	OFF	ON	ACTUATED	1
099	FIAS-30X	FW ISOL ACTUATION (LOOP B)	OPEN	CLOSED	OFF	ON	ACTUATED	1
100	FIAS-40X	FW ISOL ACTUATION (LOOP B)	OPEN	CLOSED	OFF	ON	ACTUATED	1
101	FIAS-50X	FW ISOL ACTUATION (LOOP C)	OPEN	CLOSED	OFF	ON	ACTUATED	1
102	FIAS-60X	FW ISOL ACTUATION (LOOP C)	OPEN	CLOSED	OFF	ON	ACTUATED	1
103	SLIS-1	STEAM LINE ISOLATION SIGNAL	OPEN	CLOSED	OFF	ON	NOT ACTUATED	1
104	SLIS-2	STEAM LINE ISOLATION SIGNAL	OPEN	CLOSED	OFF	ON	NOT ACTUATED	1
105	DAMP1	NORMAL INTAKE DAMPER STATUS	OPEN	CLOSED	OFF	ON	OPEN	7
106	DAMP2	EMERG INTAKE DAMPER STATUS	OPEN	CLOSED	OFF	ON	CLOSED	7
107	DAMP3	EMERG INTAKE DAMPER STATUS	OPEN	CLOSED	OFF	ON	CLOSED	7
108	DAMP11	RECIRCULATION DAMPER STATUS	OPEN	CLOSED	OFF	ON	CLOSED	7
109	AS0109							
110	DAMP14	TOILET EXHAUST DAMPER STATUS	OPEN	CLOSED	OFF	ON	OPEN	7
111	DAMP22	CONTROL ROOM KITCHEN VENT DMPR	OPEN	CLOSED	OFF	ON	OPEN	7
112	H2SYS	H2 SYSTEM	OPEN	CLOSED	OFF	ON	NORMAL	5
113	AX6307A	CTHT H2 MONITOR RANGE SWITCH	OPEN	CLOSED	OFF	ON	20X RANGE	7
114	AX6307B	CTHT H2 MONITOR RANGE SWITCH	OPEN	CLOSED	OFF	ON	20X RANGE	7
115	CTHT-PRESS	CONTAINMENT PRESSURE >50%	OPEN	CLOSED	OFF	ON	NORMAL	5
116	AS0116							
117	AS0117							
118	ECCFAN-3A	EMERG CTHT COOLING FAN 3A	OPEN	CLOSED	OFF	ON	OFF	7
119	ECCFAN-3B	EMERG CTHT COOLING FAN 3B	OPEN	CLOSED	OFF	ON	OFF	7
120	ECCFAN-3C	EMERG CTHT COOLING FAN 3C	OPEN	CLOSED	OFF	ON	OFF	7
121	CRDMFAN-3A	CRDM COOLING FAN 3A	OPEN	CLOSED	OFF	ON	OFF	7
122	CRDMFAN-3B	CRDM COOLING FAN 3B	OPEN	CLOSED	OFF	ON	OFF	7
123	3C229AF-D	ISOLATION CAB 3A FRONT DOOR	OPEN	CLOSED	OFF	ON	OPEN	7
124	3C229AR-D	ISOLATION CAB 3A REAR DOOR	OPEN	CLOSED	OFF	ON	OPEN	7
125	3C229BF-D	ISOLATION CAB 3B FRONT DOOR	OPEN	CLOSED	OFF	ON	OPEN	7
126	3C229BR-D	ISOLATION CAB 3B REAR DOOR	OPEN	CLOSED	OFF	ON	OPEN	7

127	3C2300B-D	PDC CPU/MODACS A CABINET DOORS	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
128	3C2300C/D-D	PDC CPU/MODACS B CABINET DOORS	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
129	3C245R-D	TERMINATION CABINET DOORS	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
130	3C229AF-T	ISOLATION CAB 3A FRONT TEMP	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
131	3C229AR-T	ISOLATION CAB 3A REAR TEMP	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
132	3C229BF-T	ISOLATION CAB 3B FRONT TEMP	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
133	3C229BR-T	ISOLATION CAB 3B REAR TEMP	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
134	3C230A-T	PDC 3A CPU TEMP	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
135	3C230B-T	PDC 3A MODACS TEMP	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
136	3C230C-T	PDC 3B MODACS TEMP	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
137	3C230D-T	PDC 3B CPU TEMP	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
138	C231-T	PEDS CABINET 1 TEMPERATURE	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
139	C232-T	PEDS CABINET 2 TEMPERATURE	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
140	C233-T	PEDS CABINET 3 TEMPERATURE	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
141	C234-T	PEDS CABINET 4 TEMPERATURE	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
142	C235-T	PEDS CABINET 5 TEMPERATURE	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
143	3V21	UNIT 3 SPENT FUEL PIT FAN STAT	OPEN	CLOSED	OFF	ON	OFF	ON	7
144	PS2322	N2 SUPPLY FOR FW VALVES	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
145	PS2323	N2 SUPPLY FOR FW VALVES	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
146	AS0146								
147	AS0147								
148	LCV115A0	3-WAY LETDOWN TO VCT	OPEN	CLOSED	OFF	ON	TO HOLDUP	TO VCT	5
149	LCV115AC	3-WAY LETDOWN TO VCT	OPEN	CLOSED	OFF	ON	TO VCT	TO HOLDUP	5
150	LCV115A	3-WAY LETDOWN TO VCT							C
151	LCV115B0	LETDOWN FROM RWST	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	5
152	LCV115B0	LETDOWN FROM RWST	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	5
153	LCV115R	LETDOWN FROM RWST							C
154	LCV115C0	VCT LETDOWN TO CHARG PMPS	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	5
155	LCV115CC	VCT LETDOWN TO CHARG PMPS	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	5
156	LCV115C	VCT LETDOWN TO CHARG PMPS							C
157	HCV1210	CHARGING LINE FLOW CONTROL VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
158	HCV121C	CHARGING LINE FLOW CONTROL VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
159	HCV121	CHARGING LINE FLOW CONTROL VLV							C
160	HCV1420	RHR LOOP TO L/D BEFORE NR HX	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
161	HCV142C	RHR LOOP TO L/D BEFORE NR HX	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
162	HCV142	RHR LOOP TO L/D BEFORE NR HX							C
163	TCV1430	3-WAY LETDOWN TO VCT	OPEN	CLOSED	OFF	ON	TO VCT	TO DEMIN	6
164	TCV143C	3-WAY LETDOWN TO VCT	OPEN	CLOSED	OFF	ON	TO DEMIN	TO VCT	6
165	TCV143	3-WAY LETDOWN TO VCT							C
166	PCV1450	LETDOWN CONTROL OUT NR HX	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	5
167	PCV145C	LETDOWN CONTROL OUT NR HX	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	5
168	PCV145	LETDOWN CONTROL OUT NR HX							C
169	CV200A0	LETDOWN LINE 450PM ORIFICE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
170	CV200AC	LETDOWN LINE 450PM ORIFICE VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
171	CV200A	LETDOWN LINE 450PM ORIFICE VLV							C
172	CV200B0	LETDOWN LINE 600PM ORIFICE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
173	CV200BC	LETDOWN LINE 600PM ORIFICE VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
174	CV200B	LETDOWN LINE 600PM ORIFICE VLV							C
175	CV200C0	LETDOWN LINE 600PM ORIFICE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
176	CV200CC	LETDOWN LINE 600PM ORIFICE VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
177	CV200C	LETDOWN LINE 600PM ORIFICE VLV							C
178	CV2040	LP LETDOWN LINE CTMT ISOL VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
179	CV204C	LP LETDOWN LINE CTMT ISOL VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
180	CV204	LP LETDOWN LINE CTMT ISOL VLV							C
181	CV310A0	CHARGING LINE STOP LOOP A	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
182	CV310AC	CHARGING LINE STOP LOOP A	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
183	CV310A	CHARGING LINE STOP LOOP A							C
184	CV310B0	CHARGING LINE STOP LOOP C	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
185	CV310BC	CHARGING LINE STOP LOOP C	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
186	CV310B	CHARGING LINE STOP LOOP C							C
187	CV3110	AUXILIARY SPRAY STOP	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
188	CV311C	AUXILIARY SPRAY STOP	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
189	CV311	AUXILIARY SPRAY STOP							C

190	MOV3810	RCP SEAL WATER RETURN VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
191	MOV331C	RCP SEAL WATER RETURN VALVE	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
192	MOV381	RCP SEAL WATER RETURN VALVE							C
193	CV3870	EXCESS LETDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
194	CV387C	EXCESS LETDOWN	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
195	CV387	EXCESS LETDOWN							C
196	PCV455A0	PRESSURIZER SPRAY FROM LOOP C	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	4
197	PCV455AC	PRESSURIZER SPRAY FROM LOOP C	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	4
198	PCV455A	PRESSURIZER SPRAY FROM LOOP C							C
199	PCV455B0	PRESSURIZER SPRAY FROM LOOP B	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	4
200	PCV455BC	PRESSURIZER SPRAY FROM LOOP B	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	4
201	PCV455B	PRESSURIZER SPRAY FROM LOOP B							C
202	PCV455C0	PRESSURIZER PORV FROM PT444	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
203	PCV455CC	PRESSURIZER PORV FROM PT444	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
204	PCV455C	PRESSURIZER PORV FROM PT444							C
205	PCV4560	PRESSURIZER PORV FROM PT445	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
206	PCV456C	PRESSURIZER PORV FROM PT445	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
207	PCV456	PRESSURIZER PORV FROM PT445							C
208	LCV4600	RCS LOOP B COLD LEG LETDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
209	LCV460C	RCS LOOP B COLD LEG LETDOWN	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
210	LCV460	RCS LOOP B COLD LEG LETDOWN							C
211	FCV4780	STM GEN A MAIN FW CONTROL VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
212	FCV478C	STM GEN A MAIN FW CONTROL VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
213	FCV478	STM GEN A MAIN FW CONTROL VLV							C
214	FCV4790	S/G A BYPASS FW CONTROL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
215	FCV479C	S/G A BYPASS FW CONTROL VALVE	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
216	FCV479	S/G A BYPASS FW CONTROL VALVE							C
217	FCV4880	STM GEN B MAIN FW CONTROL VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
218	FCV488C	STM GEN B MAIN FW CONTROL VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
219	FCV488	STM GEN B MAIN FW CONTROL VLV							C
220	FCV4890	S/G B BYPASS FW CONTROL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
221	FCV489C	S/G B BYPASS FW CONTROL VALVE	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
222	FCV489	S/G B BYPASS FW CONTROL VALVE							C
223	FCV4980	STM GEN C MAIN FW CONTROL VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
224	FCV498C	STM GEN C MAIN FW CONTROL VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
225	FCV498	STM GEN C MAIN FW CONTROL VLV							C
226	FCV4990	S/G C BYPASS FW CONTROL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
227	FCV499C	S/G C BYPASS FW CONTROL VALVE	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
228	FCV499	S/G C BYPASS FW CONTROL VALVE							C
229	CV516	PRZR RELIEF TK TO GAS ANALYZER	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
230	CV519A0	PRZR REL TK PRI WTR SUPPLY-O/C	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
231	CV519AC	PRZR REL TK PRI WTR SUPPLY-O/C	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
232	CV519A	PRZR REL TK PRI WTR SUPPLY-O/C							C
233	CV519B	PRZR REL TK PRI WTR SUPPLY-I/C	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
234	CV522A0	PRI WTR TO RCP A STANDPIPE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
235	CV522AC	PRI WTR TO RCP A STANDPIPE	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
236	CV522A	PRI WTR TO RCP A STANDPIPE							C
237	CV522B0	PRI WTR TO RCP B STANDPIPE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
238	CV522BC	PRI WTR TO RCP B STANDPIPE	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
239	CV522B	PRI WTR TO RCP B STANDPIPE							C
240	CV522C0	PRI WTR TO RCP C STANDPIPE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
241	CV522CC	PRI WTR TO RCP C STANDPIPE	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
242	CV522C	PRI WTR TO RCP C STANDPIPE							C
243	MOV5350	PRESSURIZER RELIEF ISOL VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	5
244	MOV535C	PRESSURIZER RELIEF ISOL VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	5
245	MOV535	PRESSURIZER RELIEF ISOL VLV							C
246	MOV5360	PRESSURIZER RELIEF ISOL VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	5
247	MOV536C	PRESSURIZER RELIEF ISOL VLV	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	5
248	MOV536	PRESSURIZER RELIEF ISOL VLV							C
249	FCV605	RHR FLOW BYPASS AROUND HX	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
250	MOV6260	RCP'S THERMAL BARRIER CLG WTR	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	7
251	MOV626C	RCP'S THERMAL BARRIER CLG WTR	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
252	MOV626	RCP'S THERMAL BARRIER CLG WTR							C

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253	MOV716AD	RCP THERMAL BARRIER CCH	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
254	MOV716AC	RCP THERMAL BARRIER CCH	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
255	MOV716A	RCP THERMAL BARRIER CCH							C
256	MOV716BD	RCP THERMAL BARRIER CCH	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
257	MOV716BC	RCP THERMAL BARRIER CCH	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
258	MOV716B	RCP THERMAL BARRIER CCH							C
259	MOV7300	CCW FROM RCP'S BEARING COOLER	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
260	MOV730C	CCW FROM RCP'S BEARING COOLER	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
261	MOV730	CCW FROM RCP'S BEARING COOLER							C
262	CV739	EXCESS LETDOWN HX CCH ISOL VLV	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
263	MOV744AD	RHR TO COLD LEO I/C	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
264	MOV744AC	RHR TO COLD LEO I/C	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
265	MOV744A	RHR TO COLD LEO I/C							C
266	MOV744BD	RHR TO COLD LEO-I/C	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
267	MOV744BC	RHR TO COLD LEO-I/C	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
268	MOV744B	RHR TO COLD LEO-I/C							C
269	MOV750D	RHR INLET ISOLATION VALVE	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
270	MOV750C	RHR INLET ISOLATION VALVE	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
271	MOV750	RHR INLET ISOLATION VALVE							C
272	MOV751D	RHR INLET ISOLATION VALVE	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
273	MOV751C	RHR INLET ISOLATION VALVE	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
274	MOV751	RHR INLET ISOLATION VALVE							C
275	HCV75B	RHR HEAT EXCH FLOW CONTROL VLV	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
276	MOV843AD	BORON INJ TNK OUTLET STOP VLV	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	6
277	MOV843AC	BORON INJ TNK OUTLET STOP VLV	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	6
278	MOV843A	BORON INJ TNK OUTLET STOP VLV							C
279	MOV843BD	BORON INJ TNK OUTLET STOP VLV	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	6
280	MOV843BC	BORON INJ TNK OUTLET STOP VLV	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	6
281	MOV843B	BORON INJ TNK OUTLET STOP VLV							C
282	CV855	N2 TO ACCUMULATORS A,B,C	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
283	MOV860AD	S CTMT RECIRC TO RHR SUCT-O/C	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
284	MOV860AC	S CTMT RECIRC TO RHR SUCT-O/C	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
285	MOV860A	S CTMT RECIRC TO RHR SUCT-O/C							C
286	MOV860BD	N CTMT RECIRC TO RHR SUCT-O/C	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
287	MOV860BC	N CTMT RECIRC TO RHR SUCT-O/C	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
288	MOV860B	N CTMT RECIRC TO RHR SUCT-O/C							C
289	MOV861AD	N CTMT RECIRC TO RHR SUCT-O/C	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
290	MOV861AC	N CTMT RECIRC TO RHR SUCT-O/C	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
291	MOV861A	N CTMT RECIRC TO RHR SUCT-O/C							C
292	MOV861BD	S CTMT RECIRC TO RHR SUCT-O/C	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
293	MOV861BC	S CTMT RECIRC TO RHR SUCT-O/C	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
294	MOV861B	S CTMT RECIRC TO RHR SUCT-O/C							C
295	MOV862AD	RWST TO SAFETY INJECTION SYS	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	6
296	MOV862AC	RWST TO SAFETY INJECTION SYS	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	6
297	MOV862A	RWST TO SAFETY INJECTION SYS							C
298	MOV862BD	RWST TO SAFETY INJECTION SYS	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	6
299	MOV862BC	RWST TO SAFETY INJECTION SYS	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	6
300	MOV862B	RWST TO SAFETY INJECTION SYS							C
301	MOV863AD	SUPPLY TO HHSI OR CTMT SPRAY	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
302	MOV863AC	SUPPLY TO HHSI OR CTMT SPRAY	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
303	MOV863A	SUPPLY TO HHSI OR CTMT SPRAY							C
304	MOV863BD	SUPPLY TO HHSI OR CTMT SPRAY	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
305	MOV863BC	SUPPLY TO HHSI OR CTMT SPRAY	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
306	MOV863B	SUPPLY TO HHSI OR CTMT SPRAY							C
307	MOV3-864AD	RWST ISOLATION STOP VALVE	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	6
308	MOV3-864AC	RWST ISOLATION STOP VALVE	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	6
309	MOV3-864A	RWST ISOLATION STOP VALVE							C
310	MOV3-864BD	RWST ISOLATION STOP VALVE	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	6
311	MOV3-864BC	RWST ISOLATION STOP VALVE	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	6
312	MOV3-864B	RWST ISOLATION STOP VALVE							C
313	MOV865AD	ACCUM TANK A TO RCS ISOL VALVE	OPEN	CLOSED	OFF	ON	ACT OPEN	OPEN	7
314	MOV865AC	ACCUM TANK A TO RCS ISOL VALVE	OPEN	CLOSED	OFF	ON	ACT CLOSED	CLOSED	7
315	MOV865A	ACCUM TANK A TO RCS ISOL VALVE							C

NOV86580	ACCUM TANK B TO RCS ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
317 NOV86580	ACCUM TANK B TO RCS ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
318 NOV86580	ACCUM TANK B TO RCS ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
319 NOV86580	ACCUM TANK C TO RCS ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
320 NOV86580	ACCUM TANK C TO RCS ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
321 NOV86580	ACCUM TANK C TO RCS ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
322 NOV86580	HHSI (HOT LEG) ISOL VLV-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
323 NOV86580	HHSI (HOT LEG) ISOL VLV-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
324 NOV86580	HHSI (HOT LEG) ISOL VLV-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
325 NOV86580	HHSI (HOT LEG) ISOL VLV-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
326 NOV86580	HHSI (HOT LEG) ISOL VLV-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
327 NOV86580	HHSI (HOT LEG) ISOL VLV-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
328 NOV86580	HHSI VALVE TO COLD LEG A	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
329 NOV86580	HHSI VALVE TO COLD LEG B	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
330 NOV86580	HHSI VALVE TO COLD LEG C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
331 NOV86580	HHSI (HOT LEG) ISOL VLV-0/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
332 NOV86580	HHSI (HOT LEG) ISOL VLV-0/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
333 NOV86580	HHSI (HOT LEG) ISOL VLV-0/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
334 NOV86580	ALTERNATE LHSI ISOL VALVE-0/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
335 NOV86580	ALTERNATE LHSI ISOL VALVE-0/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
336 NOV86580	ALTERNATE LHSI ISOL VALVE-0/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
337 NOV86580	HI HEAD SI PUMP DISCHARGE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
338 NOV86580	HI HEAD SI PUMP DISCHARGE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
339 NOV86580	HI HEAD SI PUMP DISCHARGE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
340 NOV86580	HI HEAD SI PUMP DISCHARGE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
341 NOV86580	HI HEAD SI PUMP DISCHARGE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
342 NOV86580	HI HEAD SI PUMP DISCHARGE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
343 NOV86580	CTMT SPRAY PUMP 3A DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
344 NOV86580	CTMT SPRAY PUMP 3A DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
345 NOV86580	CTMT SPRAY PUMP 3A DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
346 NOV86580	CTMT SPRAY PUMP 3B DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
347 NOV86580	CTMT SPRAY PUMP 3B DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
348 NOV86580	CTMT SPRAY PUMP 3B DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
349 NOV86580	PRZR STM SPACE SAMPLE-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
350 NOV86580	PRZR LIQUID SPACE SAMPLE-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
351 NOV86580	ACCUM A SAMPLE VALVE-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
352 NOV86580	ACCUM B SAMPLE VALVE-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
353 NOV86580	ACCUM C SAMPLE VALVE-1/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
354 NOV86580	PRZR STM SPACE SAMPLE-0/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
355 NOV86580	PRZR LIQUID SPACE SAMPLE-0/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
356 NOV86580	ACCUM A,B,C SAMPLE VALVE-0/C	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
357 NOV86580	MSIV A BYPASS ISOLATION VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
358 NOV86580	MSIV B BYPASS ISOLATION VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
359 NOV86580	MSIV C BYPASS ISOLATION VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
360 NOV86580	STM LINE A SUPPLY TO AFW PUMP	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
361 NOV86580	STM LINE B SUPPLY TO AFW PUMP	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
362 NOV86580	STM LINE C SUPPLY TO AFW PUMP	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
363 NOV86580	STM GEN A FEEDWATER ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
364 NOV86580	STM GEN B FEEDWATER ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
365 NOV86580	STM GEN C FEEDWATER ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
366 NOV86580	CCW TO NORMAL CTMT COOLING	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
367 NOV86580	CCW FROM NORMAL CTMT COOLING	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
368 NOV86580	FEEDWTR PMP 3A DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
369 NOV86580	FEEDWTR PMP 3A DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
370 NOV86580	FEEDWTR PMP 3A DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
371 NOV86580	FEEDWTR PMP 3B DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
372 NOV86580	FEEDWTR PMP 3B DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
373 NOV86580	FEEDWTR PMP 3B DISCH VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
374 NOV86580	S/G A BLOWDOWN LQD SAMPLE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
375 NOV86580	S/G B BLOWDOWN LQD SAMPLE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
376 NOV86580	S/G C BLOWDOWN LQD SAMPLE VLV	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
377 NOV86580	STM DUMP TO ATMOS STM GEN A	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7
378 NOV86580	STM DUMP TO ATMOS STM GEN B	OPEN	CLOSED	OFF	ON	NOT OPEN	NOT CLOSED	7

379	CV1808	STM BOMB TO ATMOS STM GEN C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
380	CV20110	LP FW HEATERS BYPASS VALVE	OPEN	CLOSED	OFF	ON	CT OPEN	OPEN	3
381	CV2011C	LP FW HEATERS BYPASS VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	3
382	CV2011	LP FW HEATERS BYPASS VALVE							C
383	POV2600	CTMT PURGE AIR SUPPLY-O/C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
384	POV2601	CTMT PURGE AIR SUPPLY-I/C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
385	POV2602	CTMT PURGE AIR RETURN-O/C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
386	POV2603	CTMT PURGE AIR RETURN-I/C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
387	POV2604	MAIN STM (MSIV) STM CFN A	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
388	POV2605	MAIN STM (MSIV) STM GEN B	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
389	POV2606	MAIN STM (MSIV) STM CFN C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
390	MSVVLVS	MAIN STM STOP VALVES	OPEN	CLOSED	OFF	ON	OPEN	NOT OPEN	3
391	CV2803	CTMT INST AIR SUPPLY ISOL VLV	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
392	CV2814	CTMT CLR A CCH RTN BYPASS VLV	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
393	CV2810	CTMT CLR B CCH RTN BYPASS VLV	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
394	CV2812	CTMT CLR C CCH RTN BYPASS VLV	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
395	CV2816	AUX FW TO S/O A CONTROL VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
396	CV2817	AUX FW TO S/O B CONTROL VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
397	CV2818	AUX FW TO S/O C CONTROL VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
398	CV2819	CTMT INSTR AIR BLEED VALVE-I/C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
399	CV2821	CTMT SUMP PUMP A DISCH VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
400	CV2822	CTMT SUMP PUMP B DISCH VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
401	CV2826	CTMT INSTR AIR BLEED VALVE-O/C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
402	CV2831	AUX FW TO S/O A CONTROL VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
403	CV2832	AUX FW TO S/O B CONTROL VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
404	CV2833	AUX FW TO S/O C CONTROL VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
405	CV2900	STM GEN A FW CHECK VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
406	CV2901	STM GEN B FW CHECK VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
407	CV2902	STM GEN C FW CHECK VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
408	CV2905	CCW TO EMERG CTMT COOLER 3A	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
409	CV2903	CCW TO EMERG CTMT COOLER 3B	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
410	CV2904	CCW TO EMERG CTMT COOLER 3C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
411	CV2908	CCW FROM EMERG CTMT COOLER 3A	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
412	CV2906	CCW FROM EMERG CTMT COOLER 3B	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
413	CV2907	CCW FROM EMERG CTMT COOLER 3C	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
414	SV2905	WATER TO EMERGENCY COOLER 3A	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
415	SV2906	WATER TO EMERGENCY COOLER 3A	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
416	SV2907	WATER TO EMERGENCY COOLER 3B	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
417	SV2908	WATER TO EMERGENCY COOLER 3B	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
418	SV2909	WATER TO EMERGENCY COOLER 3C	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
419	SV2910	WATER TO EMERGENCY COOLER 3C	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
420	ECF-A	EMERG CTMT FILT A TEMPERATURE	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
421	ECF-B	EMERG CTMT FILT B TEMPERATURE	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
422	ECF-C	EMERG CTMT FILT C TEMPERATURE	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
423	SV2911	CTMT AIR SAMPLE TO RAD MON	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
424	SV2912	CTMT AIR SAMPLE FROM RAD MON	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
425	SV2913	CTMT AIR SAMPLE TO RAD MON	OPEN	CLOSED	OFF	ON	OPEN	CLOSED	7
426	CV4658A	RCDT VENT VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
427	CV4658B	RCDT VENT VALVE	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
428	CV4659A	RCDT LINE TO GAS ANALYZER	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
429	CV4659B	RCDT LINE TO GAS ANALYZER	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
430	CV4668A	RCDT DISCH TO HOLDUP TANK	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	7
431	CV4668B	RCDT DISCH TO HOLDUP TANK	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
432	LCV6265A0	BLOWDOWN HX TO CONDENSER	OPEN	CLOSED	OFF	ON	CT OPEN	OPEN	7
433	LCV6265AC	BLOWDOWN HX TO CONDENSER	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
434	LCV6265A	BLOWDOWN HX TO CONDENSER							C
435	LCV6265B0	BLOWDOWN TANK TO CANAL	OPEN	CLOSED	OFF	ON	CT OPEN	OPEN	7
436	LCV6265BC	BLOWDOWN TANK TO CANAL	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
437	LCV6265B	BLOWDOWN TANK TO CANAL							C
438	CV6267A0	B/D TO TANK 15 DISCH TO ATMOS	OPEN	CLOSED	OFF	ON	CT OPEN	OPEN	7
439	CV6267AC	B/D TO TANK 15 DISCH TO ATMOS	OPEN	CLOSED	OFF	ON	CT CLOSED	CLOSED	7
440	CV6267A	B/D TO TANK 15 DISCH TO ATMOS							C
441	CV6267B0	B/D TO TANK 15 DISCH TO ATMOS	OPEN	CLOSED	OFF	ON	CT OPEN	OPEN	7

74 R18
 74 R18
 74 R18

NO	DESCRIPTION	STATUS	MODE	VALVE	POSITION	STATUS	MODE	VALVE	POSITION	STATUS
443	CV6275D	INLET TO TANK T5 DISCH TO ATMOS	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
444	CV6275AD	STM GEN A BLOWDOWN ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
445	CV6275AC	STM GEN A BLOWDOWN ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
446	CV6275A	STM GEN A BLOWDOWN ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
447	CV6275BD	STM GEN B BLOWDOWN ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
448	CV6275BC	STM GEN B BLOWDOWN ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
449	CV6275B	STM GEN B BLOWDOWN ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
450	CV6275CD	STM GEN C BLOWDOWN ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
451	CV6275CC	STM GEN C BLOWDOWN ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
452	CV6275C	STM GEN C BLOWDOWN ISOL VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
453	FCV6278AD	STEAM GENERATOR A BLOWDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
454	FCV6278AC	STEAM GENERATOR A BLOWDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
455	FCV6278A	STEAM GENERATOR A BLOWDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
456	FCV6278BD	STEAM GENERATOR B BLOWDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
457	FCV6278BC	STEAM GENERATOR B BLOWDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
458	FCV6278B	STEAM GENERATOR B BLOWDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
459	FCV6278CD	STEAM GENERATOR C BLOWDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
460	FCV6278CC	STEAM GENERATOR C BLOWDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
461	FCV6278C	STEAM GENERATOR C BLOWDOWN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
462	SV6318A	REACTOR VENT DISCHARGE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
463	SV6318B	REACTOR VENT DISCHARGE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
464	SV6319A	PRESSURIZER VENT DISCHARGE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
465	SV6319B	PRESSURIZER VENT DISCHARGE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
466	SV6320A	PRZR/REACTOR VENT DISCHARGE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
467	SV6320B	PRZR/REACTOR VENT DISCHARGE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
468	FCV6324D	INLET TO COND POLISHING SYSTEM	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
469	FCV6324C	INLET TO COND POLISHING SYSTEM	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
470	FCV6324	INLET TO COND POLISHING SYSTEM	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
471	PCV6325D	COND POLISH SYS DIFF PRESS CV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
472	PCV6325C	COND POLISH SYS DIFF PRESS CV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
473	PCV6325	COND POLISH SYS DIFF PRESS CV	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
474	FCV6329AD	FILT DEMIN A OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
475	FCV6329AC	FILT DEMIN A OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
476	FCV6329A	FILT DEMIN A OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
477	FCV6329BD	FILT DEMIN B OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
478	FCV6329BC	FILT DEMIN B OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
479	FCV6329B	FILT DEMIN B OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
480	FCV6329CD	FILT DEMIN C OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
481	FCV6329CC	FILT DEMIN C OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
482	FCV6329C	FILT DEMIN C OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
483	FCV6329DD	FILT DEMIN D OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
484	FCV6329DC	FILT DEMIN D OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
485	FCV6329D	FILT DEMIN D OUTLET FLOW	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
486	CV6351AD	FLT DEMIN A COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
487	CV6351AC	FLT DEMIN A COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
488	CV6351A	FLT DEMIN A COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
489	CV6351BD	FLT DEMIN B COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
490	CV6351BC	FLT DEMIN B COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
491	CV6351B	FLT DEMIN B COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
492	CV6351CD	FLT DEMIN C COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
493	CV6351CC	FLT DEMIN C COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
494	CV6351C	FLT DEMIN C COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
495	CV6351DD	FLT DEMIN D COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
496	CV6351DC	FLT DEMIN D COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
497	CV6351D	FLT DEMIN D COND WTR IN	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
498	SV6385	PRZR RELIEF TANK GAS ANAL LINE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
499	MOV6386D	RCP SEAL	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
500	MOV6386C	RCP SEAL	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
501	MOV6386	RCP SEAL	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
502	SV6427A	HOT LEG RCS SAMPLE LOOP A	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
503	SV6427B	HOT LEG RCS SAMPLE LOOP B	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7
504	SV6428	HOT LEG RCS SAMPLE LINE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	OPEN	7

506 4P07	120 VAC INV PNL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	7
507 4P08	120 VAC INV PNL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	7
508 4P09	120 VAC INV PNL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	7
509 4P21	VITAL AC PANEL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	7
510 4P22	VITAL AC PANEL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	7
511 4P23	VITAL AC PANEL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	7
512 4P24	VITAL AC PANEL BRKR STATUS	OPEN	CLOSED	OFF	ON	DEENERGIZED	ENERGIZED	7
513 SI-PHP-4A	SAFETY INJECTION PUMP 4A	OPEN	CLOSED	OFF	ON	OFF	ON	5
514 SI-PHP-4B	SAFETY INJECTION PUMP 4B	OPEN	CLOSED	OFF	ON	OFF	ON	5
515 MOV4-864AD	RWST ISOLATION STOP VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
516 MOV4-864AC	RWST ISOLATION STOP VALVE	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
517 MOV4-864A	RWST ISOLATION STOP VALVE							C
518 MOV4-864BD	RWST ISOLATION STOP VALVE	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	6
519 MOV4-864BC	RWST ISOLATION STOP VALVE	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	6
520 MOV4-864B	RWST ISOLATION STOP VALVE							C
521 FIC626	RCP A,B,C COOL WTR TOTAL FLOW	OPEN	CLOSED	OFF	ON	NORMAL	LOW	7
522 TIC627	RCP BEARING COOL RTN LINE TEMP	OPEN	CLOSED	OFF	ON	NORMAL	HIGH	7
523 PCV6269D	BLOWDOWN TNK T5 PRESS CONTROL	OPEN	CLOSED	OFF	ON	NOT OPEN	OPEN	5
524 PCV6269C	BLOWDOWN TNK T5 PRESS CONTROL	OPEN	CLOSED	OFF	ON	NOT CLOSED	CLOSED	5
525 PCV6269	BLOWDOWN TNK T5 PRESS CONTROL							C
526 RX-SCRAM	REACTOR TRIP STATUS					TRIPPED	NOT TRIPPED	3

