Base Load Power Hub (BLPH)

SG-100D1 I/O LIST
HV Switchgear

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Document Class:2

ROSETTI MARINO	
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Sign	Date
Luca Mascia	20/12/2024

Rev.	Date	Description	Prepared	Reviewed	Approved
02	28/11/2024	As Built (ASB)	Giulietti	Santinelli	Mastri
01	09/08/2024	Accepted for Costruction (AFC)	Giulietti	Santinelli	Mastri
00	08/07/2024	Issue for Review (IFR)	Giulietti	Santinelli	Mastri

IMESA ELECTRICAL ENGINEERING MESA Doc. n. 231115/SD/41

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Revision / Change Log

Rev.	Description
00	Issue or Review (IFR)
01	Accepted for Costruction (AFC)
02	As Built (ASB)

No.	HOLD
1.	
2.	
3.	

No.	NOTE
1.	IP addresses and netwrork configuration parameters are not shown since reserved information
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ITEM	SWITCHGEAR TAG	VOLTAGE	TAG NAME	FEEDER CUBICLE No	SIGNAL_DESCRIPTION	TYPE ANALOG/DIGITAL	RELAY MODEL	UNIT	SCALE FACTOR	IEC61850 ITEM TAG	TECHNICAL KEY		Note
ELECTROLYSER FEEDER A-20000 "A1"													
1	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	PROTECTION TRIPPED "50-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHIPTOC1.ST.Op.general	SG100D1A1		1=failure
2	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	PROTECTION TRIPPED "51-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHLPTOC1.ST.Op.general	SG100D1A1		1=failure
3	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	PROTECTION TRIPPED "51N"	DIGITAL	REX640	N.A.	N.A.	LD0.EFLPTOC1.ST.Op.general	SG100D1A1		1=failure
4	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	PROTECTION TRIPPED "59N"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV1.ST.Op.general	SG100D1A1		1=failure
5	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	PROTECTION TRIPPED "27-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV1.ST.Op.general	SG100D1A1		1=failure
6	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	PROTECTION TRIPPED "59-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV1.ST.Op.general	SG100D1A1		1=failure
7	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	SELECTOR SWITCH IN LOCAL POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO6.stVal	SG100D1A1		1=local
8	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	SELECTOR SWITCH IN REMOTE POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO7.stVal	SG100D1A1		1=remote
9	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Line Current (L1)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsA.cVal.mag.f	SG100D1A1		
10	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Line Current (L2)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsB.cVal.mag.f	SG100D1A1		
11	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Line Current (L3)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsC.cVal.mag.f	SG100D1A1		
12	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Line Volts (L1-L2)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsAB.cVal.mag.f	SG100D1A1		
13	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Line Volts (L2-L3)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsBC.cVal.mag.f	SG100D1A1		
14	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Line Volts (L3-L1)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsCA.cVal.mag.f	SG100D1A1		
15	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Frequency	ANALOG	REX640	Hz	1	LD0.FMMXU1.Hz.mag.f	SG100D1A1		
16	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	APPARENT POWER (kVA)	ANALOG	REX640	kVA	1	LD0.PEMMXU1.TotVA.mag.f	SG100D1A1		
17	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	REAL POWER (kW)	ANALOG	REX640	kW	1	LD0.PEMMXU1.TotW.mag.f	SG100D1A1		
18	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	REACTIVE POWER (kVAR)	ANALOG	REX640	kVAR	1	LD0.PEMMXU1.TotVAr.mag.f	SG100D1A1		
19	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	POWER FACTOR	ANALOG	REX640	COSfi	1	LD0.PEMMXU1.TotPF.mag.f	SG100D1A1		
20	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind9.stVal	SG100D1A1		1=failure
21	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind8.stVal	SG100D1A1		1=failure
22	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	TRANSFORMER PROTECTION TRIPPED "OIL PRESSURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind12.stVal	SG100D1A1		1=failure
23	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	TRANSFORMER PROTECTION ALARM "OIL PRESSURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind11.stVal	SG100D1A1		1=failure
24	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind14.stVal	SG100D1A1		1=failure
25	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind13.stVal	SG100D1A1		1=failure
26	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	WATCHDOG PROTECTION RELAY	DIGITAL	REX640	N.A.	N.A.	LD0.LPHD1.PhyHealth.stVal	SG100D1A1		1=watchdog "OK"
27	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	V.T. HEALTLY CIRCUIT	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind2.stVal	SG100D1A1		1=healtly V.T.
28	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	INTERTRIP SEND TO L.V. SWITCHBOARD	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO4.stVal	SG100D1A1		1=Intertrip
29	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	K86 TRIPPED	DIGITAL	REX640	N.A.	N.A.	LD0.SBBIGGIO1.ST.Ind7.stVal	SG100D1A1		1=failure K86
30	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	C.B. CLOSED AND INSERTED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO8.stVal	SG100D1A1		1=C.B. closed
31	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	C.B. OPENED OR ISOLATED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO2.stVal	SG100D1A1		1=C.B. opened
32	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	MCB'S CLOSED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO3.stVal	SG100D1A1		1=MCB's closed
33	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	C.B. READY (TCS)	DIGITAL	REX640	N.A.	N.A.	LD0.TCSSCBR1.ST.CircAlm.stVal	SG100D1A1		0=C.B. ready, 1=TCS Alarm
34	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	C.B. READY TO CLOSE	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO1.stVal	SG100D1A1		1=C.B.ready to close
35	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	OPENING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO2.stVal	SG100D1A1		1=open command
36	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	CLOSING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO1.stVal	SG100D1A1		1=close command
37	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	K86 RESET COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO3.stVal	SG100D1A1		1=reset command
38	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	PROTECTION RELAY UNIT 7 HEALTHY	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind8.stVal	SG100D1A1		1= Relay unit 7 Healthy
TRANSFORMER FEEDER TR-200ED1 "A2"													
1	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "50-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHIPTOC1.ST.Op.general	SG100D1A2		1=failure
2	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "51-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHLPTOC1.ST.Op.general	SG100D1A2		1=failure
3	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "51N"	DIGITAL	REX640	N.A.	N.A.	LD0.EFLPTOC1.ST.Op.general	SG100D1A2		1=failure
4	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	SYNCHRO "OK"	DIGITAL	REX640	N.A.	N.A.	LD0.LEDGGIO1.ST.Ind3.stVal	SG100D1A2		1=failure
5	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "59N-1"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV1.ST.Op.general	SG100D1A2		1=failure
6	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "59N-2"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV2.ST.Op.general	SG100D1A2		1=failure
7	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "27-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV1.ST.Op.general	SG100D1A2		1=failure
8	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "27-2"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV2.ST.Op.general	SG100D1A2		1=failure
9	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "59-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV1.ST.Op.general	SG100D1A2		1=failure
10	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "59-2"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV2.ST.Op.general	SG100D1A2		1=failure
11	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "67-1"	DIGITAL	REX640	N.A.	N.A.	LD0.DPHLPTOC1.Op.general	SG100D1A2		1=failure
12	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION TRIPPED "67-2"	DIGITAL	REX640	N.A.	N.A.	LD0.DPHLPTOC2.Op.general	SG100D1A2		1=failure
13	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	SELECTOR SWITCH IN LOCAL POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO6.stVal	SG100D1A2		1=local
14	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	SELECTOR SWITCH IN REMOTE POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO7.stVal	SG100D1A2		1=remote
15	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Line Current (L1)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsA.cVal.mag.f	SG100D1A2		
16	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Line Current (L2)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsB.cVal.mag.f	SG100D1A2		
17	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Line Current (L3)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsC.cVal.mag.f	SG100D1A2		
18	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Line Volts (L1-L2)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsAB.cVal.mag.f	SG100D1A2		
19	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Line Volts (L2-L3)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsBC.cVal.mag.f	SG100D1A2		
20	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Line Volts (L3-L1)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsCA.cVal.mag.f	SG100D1A2		
21	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Frequency	ANALOG	REX640	Hz	1	LD0.FMMXU1.Hz.mag.f	SG100D1A2		
22	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	APPARENT POWER (kVA)	ANALOG	REX640	kVA	1	LD0.PEMMXU1.TotVA.mag.f	SG100D1A2		
23	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	REAL POWER (kW)	ANALOG	REX640	kW	1	LD0.PEMMXU1.TotW.mag.f	SG100D1A2		
24	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	REACTIVE POWER (kVAR)	ANALOG	REX640	kVAR	1	LD0.PEMMXU1.TotVAr.mag.f	SG100D1A2		
25	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	POWER FACTOR	ANALOG	REX640	COSfi	1	LD0.PEMMXU1.TotPF.mag.f	SG100D1A2		
26	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	TRANSFORMER PROTECTION TRIPPED "BUCHHOLZ"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind7.stVal	SG100D1A2		1=failure
27	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	TRANSFORMER PROTECTION ALARM "BUCHHOLZ"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind6.stVal	SG100D1A2		1=failure
28	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind9.stVal	SG100D1A2		1=failure
29	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind8.stVal	SG100D1A2		1=failure
30	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	TRANSFORMER PROTECTION TRIP "OIL PRESSURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind12.stVal	SG100D1A2		1=failure
31	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	TRANSF. OIL LEVEL VERY LOW ALARM	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind11.stVal	SG100D1A2		1=failure
32	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind14.stVal	SG100D1A2		1=failure
33	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind13.stVal	SG100D1A2		1=failure
34	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	TRANSF. GENERAL ALARM	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind7.stVal	SG100D1A2		1=failure
35	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	WATCHDOG PROTECTION RELAY	DIGITAL	REX640	N.A.	N.A.	LD0.LPHD1.PhyHealth.stVal	SG100D1A2		1=watchdog "OK"
36	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	V.T. HEALTLY CIRCUIT	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind2.stVal	SG100D1A2		1=healtly V.T.

37	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	INTERTRIP SEND TO L.V. SWITCHBOARD	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO4.stVal	SG100D1A2		1=Intertrip
38	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	K86 TRIPPED	DIGITAL	REX640	N.A.	N.A.	LD0.SBBIGGIO1.ST.Ind7.stVal	SG100D1A2		1=failure K86
39	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Contactor CLOSED AND INSERTED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO8.stVal	SG100D1A2		1=Contactor closed
40	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Contactor OPENED OR ISOLATED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO2.stVal	SG100D1A2		1=Contactor opened
41	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	MCB'S CLOSED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO3.stVal	SG100D1A2		1=MCB's closed
42	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Contactor READY (TCS)	DIGITAL	REX640	N.A.	N.A.	LD0.TCSSCBR1.ST.CircAlm.stVal	SG100D1A2		0=C.B. ready, 1=TCS Alarm
43	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Contactor READY TO CLOSE	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO1.stVal	SG100D1A2		1=Contac. ready to close
44	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	OPENING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO2.stVal	SG100D1A2		1=open command
45	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	CLOSING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO1.stVal	SG100D1A2		1=close command
46	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	K86 RESET COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO3.stVal	SG100D1A2		1=reset command
47	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	PROTECTION RELAY UNIT 1 HEALTHY	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind8.stVal	SG100D1A2		1= Relay unit 1 Healthy
48	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	SELECTOR SWITCH OF OVERRIDE IN OFF (SIL ENABLED)	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind9.stVal	SG100D1A2		1=SIL enabled
BESS FEEDER A-85000 "A3"													
1	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "50-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHIPTOC1.ST.Op.general	SG100D1A3		1=failure
2	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "51-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHLPTOC1.ST.Op.general	SG100D1A3		1=failure
3	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "51N"	DIGITAL	REX640	N.A.	N.A.	LD0.EFLPTOC1.ST.Op.general	SG100D1A3		1=failure
4	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	SYNCHRO "OK"	DIGITAL	REX640	N.A.	N.A.	LD0.LEDGGIO1.ST.Ind3.stVal	SG100D1A3		1=syncho
5	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "59N-1"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV1.ST.Op.general	SG100D1A3		1=failure
6	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "59N-2"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV2.ST.Op.general	SG100D1A3		1=failure
7	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "27-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV1.ST.Op.general	SG100D1A3		1=failure
8	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "27-2"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV2.ST.Op.general	SG100D1A3		1=failure
9	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "59-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV1.ST.Op.general	SG100D1A3		1=failure
10	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "59-2"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV2.ST.Op.general	SG100D1A3		1=failure
11	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "67-1"	DIGITAL	REX640	N.A.	N.A.	LD0.DPHLPTOC1.Op.general	SG100D1A3		1=failure
12	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION TRIPPED "67-2"	DIGITAL	REX640	N.A.	N.A.	LD0.DPHLPTOC2.Op.general	SG100D1A3		1=failure
13	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	SELECTOR SWITCH IN LOCAL POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO6.stVal	SG100D1A3		1=local
14	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	SELECTOR SWITCH IN REMOTE POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO7.stVal	SG100D1A3		1=remote
15	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Line Current (L1)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsA.cVal.mag.f	SG100D1A3		
16	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Line Current (L2)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsB.cVal.mag.f	SG100D1A3		
17	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Line Current (L3)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsC.cVal.mag.f	SG100D1A3		
18	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Line Volts (L1-L2)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsAB.cVal.mag.f	SG100D1A3		
19	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Line Volts (L2-L3)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsBC.cVal.mag.f	SG100D1A3		
20	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Line Volts (L3-L1)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsCA.cVal.mag.f	SG100D1A3		
21	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Frequency	ANALOG	REX640	Hz	1	LD0.FMMXU1.Hz.mag.f	SG100D1A3		
22	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	APPARENT POWER (kVA)	ANALOG	REX640	kVA	1	LD0.PEMMXU1.TotVA.mag.f	SG100D1A3		
23	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	REAL POWER (kW)	ANALOG	REX640	kW	1	LD0.PEMMXU1.TotW.mag.f	SG100D1A3		
24	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	REACTIVE POWER (kVAR)	ANALOG	REX640	kVAR	1	LD0.PEMMXU1.TotVAr.mag.f	SG100D1A3		
25	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	POWER FACTOR	ANALOG	REX640	COSfi	1	LD0.PEMMXU1.TotPF.mag.f	SG100D1A3		
26	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind14.stVal	SG100D1A3		1=failure
27	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind13.stVal	SG100D1A3		1=failure
28	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	WATCHDOG PROTECTION RELAY	DIGITAL	REX640	N.A.	N.A.	LD0.LPHD1.PhyHealth.stVal	SG100D1A3		1=watchdog "OK"
29	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	V.T. HEALTLY CIRCUIT	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind2.stVal	SG100D1A3		1=healtly V.T.
30	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	INTERTRIP SEND TO L.V. SWITCHBOARD	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO4.stVal	SG100D1A3		1=Intertrip
31	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	K86 TRIPPED	DIGITAL	REX640	N.A.	N.A.	LD0.SBBIGGIO1.ST.Ind7.stVal	SG100D1A3		1=failure K86
32	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Contactor CLOSED AND INSERTED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO8.stVal	SG100D1A3		1=Contactor closed
33	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Contactor OPENED OR ISOLATED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO2.stVal	SG100D1A3		1=Contactor opened
34	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	MCB'S CLOSED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO3.stVal	SG100D1A3		1=MCB's closed
35	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Contactor READY (TCS)	DIGITAL	REX640	N.A.	N.A.	LD0.TCSSCBR1.ST.CircAlm.stVal	SG100D1A3		0=C.B. ready, 1=TCS Alarm
36	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Contactor READY TO CLOSE	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO1.stVal	SG100D1A3		1=Contac. ready to close
37	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	OPENING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO2.stVal	SG100D1A3		1=open command
38	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	CLOSING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO1.stVal	SG100D1A3		1=close command
39	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	K86 RESET COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO3.stVal	SG100D1A3		1=reset command
40	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION RELAY UNIT 2 HEALTHY	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind8.stVal	SG100D1A3		1= Relay unit 2 Healthy
41	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	PROTECTION RELAY UNIT 4 HEALTHY	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind6.stVal	SG100D1A3		1= Relay unit 4 Healthy
42	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	SELECTOR SWITCH OF OVERRIDE (SIL ENABLED)	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind9.stVal	SG100D1A3		1=SIL enabled
TRANSFORMER FEEDER TR-200DE1 "A4"													
1	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "50"	DIGITAL	REX640	N.A.	N.A.	LD0.PHHPTOC2.ST.Op.general	SG100D1A4		1=failure
2	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "50-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHHPTOC1.ST.Op.general	SG100D1A4		1=failure
3	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "50-2"	DIGITAL	REX640	N.A.	N.A.	LD0.PHIPTOC1.ST.Op.general	SG100D1A4		1=failure
4	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "51"	DIGITAL	REX640	N.A.	N.A.	LD0.PHLPTOC2.ST.Op.general	SG100D1A4		1=failure
5	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "51-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHLPTOC1.ST.Op.general	SG100D1A4		1=failure
6	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "51N"	DIGITAL	REX640	N.A.	N.A.	LD0.EFLPTOC1.ST.Op.general	SG100D1A4		1=failure
7	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "51G"	DIGITAL	REX640	N.A.	N.A.	LD0.EFHPTOC1.ST.Op.general	SG100D1A4		1=failure
8	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "59N-1"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV1.ST.Op.general	SG100D1A4		1=failure
9	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "59N-2"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV2.ST.Op.general	SG100D1A4		1=failure
10	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "27-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV1.ST.Op.general	SG100D1A4		1=failure
11	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED "59-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV1.ST.Op.general	SG100D1A4		1=failure
12	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	SELECTOR SWITCH IN LOCAL POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO6.stVal	SG100D1A4		1=local
13	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	SELECTOR SWITCH IN REMOTE POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO7.stVal	SG100D1A4		1=remote
14	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Line Current (L1)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsA.cVal.mag.f	SG100D1A4		
15	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Line Current (L2)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsB.cVal.mag.f	SG100D1A4		
16	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Line Current (L3)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsC.cVal.mag.f	SG100D1A4		
17	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	VOLTAGE MAIN BUS BAR (L1-I2)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsAB.cVal.mag.f	SG100D1A4		
18	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	VOLTAGE MAIN BUS BAR (L2-L3)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsBC.cVal.mag.f	SG100D1A4		
19	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	VOLTAGE MAIN BUS BAR (L3-L1)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsCA.cVal.mag.f	SG100D1A4		
20	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Frequency	ANALOG	REX640	Hz	1	LD0.FMMXU1.Hz.mag.f	SG100D1A4		

21	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	APPARENT POWER (kVA)	ANALOG	REX640	kVA	1	LD0.PEMMXU1.TotVA.mag.f	SG100D1A4		
22	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	REAL POWER (kW)	ANALOG	REX640	kW	1	LD0.PEMMXU1.TotW.mag.f	SG100D1A4		
23	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	REACTIVE POWER (kVAR)	ANALOG	REX640	kVAR	1	LD0.PEMMXU1.TotVAr.mag.f	SG100D1A4		
24	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	POWER FACTOR	ANALOG	REX640	COSfi	1	LD0.PEMMXU1.TotPF.mag.f	SG100D1A4		
25	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	TRANSFORMER PROTECTION TRIPPED "BUCHHOLZ"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind7.stVal	SG100D1A4		1=failure
26	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	TRANSFORMER PROTECTION ALARM "BUCHHOLZ"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind6.stVal	SG100D1A4		1=failure
27	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind9.stVal	SG100D1A4		1=failure
28	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind8.stVal	SG100D1A4		1=failure
29	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION TRIPPED ALARM "OIL LEVEL"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind10.stVal	SG100D1A4		1=failure
30	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	TRANSFORMER PROTECTION TRIPPED "OIL PRESSURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind12.stVal	SG100D1A4		1=failure
31	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind14.stVal	SG100D1A4		1=failure
32	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind13.stVal	SG100D1A4		1=failure
33	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	TRANSF. OIL LEVEL VERY LOW ALARM	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind11.stVal	SG100D1A4		1=failure
34	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	TRANSFORMER GENERAL ALARM	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind7.stVal	SG100D1A4		1=failure
35	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	WATCHDOG PROTECTION RELAY	DIGITAL	REX640	N.A.	N.A.	LD0.LPHD1.PhyHealth.stVal	SG100D1A4		1=watchdog "OK"
36	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	INTERTRIP SEND TO L.V. SWITCHBOARD	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO4.stVal	SG100D1A4		1=Intertrip
37	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	K86 TRIPPED	DIGITAL	REX640	N.A.	N.A.	LD0.SBBIGGIO1.ST.Ind7.stVal	SG100D1A4		1=failure K86
38	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Contactor CLOSED AND INSERTED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO8.stVal	SG100D1A4		1=Contactor closed
39	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Contactor OPENED OR ISOLATED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO2.stVal	SG100D1A4		1=Contactor opened
40	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	MCB'S CLOSED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO3.stVal	SG100D1A4		1=MCB's closed
41	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Contactor READY (TCS)	DIGITAL	REX640	N.A.	N.A.	LD0.TCSSCBR1.ST.CircAlm.stVal	SG100D1A4		0=C.B. ready, 1=TCS Alarm
42	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Contactor READY TO CLOSE	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO1.stVal	SG100D1A4		1=Contac. ready to close
43	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	OPENING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO2.stVal	SG100D1A4		1=open command
44	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	CLOSING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO1.stVal	SG100D1A4		1=close command
45	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	K86 RESET COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO3.stVal	SG100D1A4		1=reset command
46	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	PROTECTION RELAY UNIT 3 HEALTHY	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind8.stVal	SG100D1A4		1= Relay unit 3 Healthy
47	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	SELECTOR SWITCH OF OVERRIDE (SIL ENABLED)	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind9.stVal	SG100D1A4		1=SIL enabled
INCOMING FEEDER TR-100AD1 "A6"													
1	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	PROTECTION TRIPPED "50-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHIPTOC1.ST.Op.general	SG100D1A6		1=failure
2	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	PROTECTION TRIPPED "51-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHLPTOC1.ST.Op.general	SG100D1A6		1=failure
3	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	PROTECTION TRIPPED "51N"	DIGITAL	REX640	N.A.	N.A.	LD0.EFLPTOC1.ST.Op.general	SG100D1A6		1=failure
4	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	SYNCHRO "OK"	DIGITAL	REX640	N.A.	N.A.	LD0.LEDGGIO1.ST.Ind3.stVal	SG100D1A6		1=failure
5	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	PROTECTION TRIPPED "59N-1"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV1.ST.Op.general	SG100D1A6		1=failure
6	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	PROTECTION TRIPPED "59N-2"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV2.ST.Op.general	SG100D1A6		1=failure
7	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	PROTECTION TRIPPED "27-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV1.ST.Op.general	SG100D1A6		1=failure
8	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	PROTECTION TRIPPED "27-2"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV2.ST.Op.general	SG100D1A6		1=failure
9	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	PROTECTION TRIPPED "59-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV1.ST.Op.general	SG100D1A6		1=failure
10	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	PROTECTION TRIPPED "59-2"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV2.ST.Op.general	SG100D1A6		1=failure
11	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	SELECTOR SWITCH IN LOCAL POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO6.stVal	SG100D1A6		1=local
12	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	SELECTOR SWITCH IN REMOTE POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO7.stVal	SG100D1A6		1=remote
13	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Line Current (L1)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsA.cVal.mag.f	SG100D1A6		
14	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Line Current (L2)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsB.cVal.mag.f	SG100D1A6		
15	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Line Current (L3)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsC.cVal.mag.f	SG100D1A6		
16	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Line Volts (L1-l2)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsAB.cVal.mag.f	SG100D1A6		
17	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Line Volts (L2-L3)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsBC.cVal.mag.f	SG100D1A6		
18	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Line Volts (L3-L1)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsCA.cVal.mag.f	SG100D1A6		
19	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Frequency	ANALOG	REX640	Hz	1	LD0.FMMXU1.Hz.mag.f	SG100D1A6		
20	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	APPARENT POWER (kVA)	ANALOG	REX640	kVA	1	LD0.PEMMXU1.TotVA.mag.f	SG100D1A6		
21	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	REAL POWER (kW)	ANALOG	REX640	kW	1	LD0.PEMMXU1.TotW.mag.f	SG100D1A6		
22	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	REACTIVE POWER (kVAR)	ANALOG	REX640	kVAR	1	LD0.PEMMXU1.TotVAr.mag.f	SG100D1A6		
23	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	POWER FACTOR	ANALOG	REX640	COSfi	1	LD0.PEMMXU1.TotPF.mag.f	SG100D1A6		
24	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind9.stVal	SG100D1A6		1=failure
25	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind8.stVal	SG100D1A6		1=failure
26	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER PROTECTION TRIPPED "OIL PRESSURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind12.stVal	SG100D1A6		1=failure
27	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSF. PROT. SELF DEHYDRATING BREATHER ALARM	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind11.stVal	SG100D1A6		1=failure
28	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind14.stVal	SG100D1A6		1=failure
29	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind13.stVal	SG100D1A6		1=failure
30	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER PROTECTION ALARM BUCHHOLZ	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind7.stVal	SG100D1A6		1=failure
31	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER PROTECTION TRIPPED BUCHHOLZ	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind9.stVal	SG100D1A6		1=failure
32	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER OLTC PROTECTION RELAY	DIGITAL	REX640	N.A.	N.A.	LD0.SBBIGGIO1.ST.Ind9.stVal	SG100D1A6		1=failure
33	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER PROTECTION ALARM LEVEL OIL	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.Ind10.stVal	SG100D1A6		1=failure
34	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER PROTECTION TRIPPED LEVEL OIL	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind7.stVal	SG100D1A6		1=failure
35	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER PROTECTION ALARM OIL LEVEL INDICATOR	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind3.stVal	SG100D1A6		1=failure
36	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSF. OLTC PROTECTION TRIPPED OIL LEVEL INDICATOR	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind1.stVal	SG100D1A6		1=failure
37	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRANSFORMER PROTECTION ALARM MEMBRANE CONTROL	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind6.stVal	SG100D1A6		1=failure
38	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	WATCHDOG PROTECTION RELAY	DIGITAL	REX640	N.A.	N.A.	LD0.LPHD1.PhyHealth.stVal	SG100D1A6		1=watchdog "OK"
39	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	V.T. HEALTLY CIRCUIT	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind2.stVal	SG100D1A6		1=healtly V.T.
40	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	INTERTRIP SEND TO 66kV SWITCHB.	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO4.stVal	SG100D1A6		1=Intertrip
41	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	K86 TRIPPED	DIGITAL	REX640	N.A.	N.A.	LD0.SBBIGGIO1.ST.Ind7.stVal	SG100D1A6		1=failure K86
42	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	C.B. CLOSED AND INSERTED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO8.stVal	SG100D1A6		1=C.B. closed
43	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	C.B. OPENED OR ISOLATED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO2.stVal	SG100D1A6		1=C.B. opened
44	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	MCB'S CLOSED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO5.stVal	SG100D1A6		1=MCB's closed
45	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	C.B. READY (TCS)	DIGITAL	REX640	N.A.	N.A.	LD0.TCSSCBR1.ST.CircAlm.stVal	SG100D1A6		0=C.B. ready, 1=TCS Alarm
46	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	C.B. READY TO CLOSE	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO1.stVal	SG100D1A6		1=C.B.ready to close
47	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	OPENING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO2.stVal	SG100D1A6		1=open command
48	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	CLOSING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO1.stVal	SG100D1A6		1=close command
49	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	K86 RESET COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO3.stVal	SG100D1A6		1=reset command
50	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	LIVE VOLTAGE 6.6kV ON THE MAIN BUS-BARS	DIGITAL	REX640	N.A.	N.A.	LD0.VMMXU2.ST.HiWrn.stVal	SG100D1A6		1= voltage 6,6kV on the bars alive
50	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TRIPPED ARC CABLE COMPARTEMENT	DIGITAL	REX640	N.A.	N.A.	LD0.SCBOGGIO1.ST.SPCSO2.stVal	SG100D1A6		1=failure ARC Cable comp.

51	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	TR-100AD1 GENERAL ALAM	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind4.stVal	SG100D1A6		1=failure
52	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	RR-100D1 NER GENERAL ALARM	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind8.stVal	SG100D1A6		1=failure
FUEL CELL A-80000 "A7"													
1	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "50-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHIPTOC1.ST.Op.general	SG100D1A6		1=failure
2	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "51-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHLPTOC1.ST.Op.general	SG100D1A6		1=failure
3	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "51N"	DIGITAL	REX640	N.A.	N.A.	LD0.EFLPTOC1.ST.Op.general	SG100D1A6		1=failure
4	SG100D1	6.6kV	FUEL CELL A-80000	A7	SYNCHRO "OK"	DIGITAL	REX640	N.A.	N.A.	LD0.LEDGGIO1.ST.Ind3.stVal	SG100D1A6		1=failure
5	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "59N-1"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV1.ST.Op.general	SG100D1A6		1=failure
6	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "59N-2"	DIGITAL	REX640	N.A.	N.A.	LD0.ROVPTOV2.ST.Op.general	SG100D1A6		1=failure
7	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "27-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV1.ST.Op.general	SG100D1A6		1=failure
8	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "27-2"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTUV2.ST.Op.general	SG100D1A6		1=failure
9	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "59-1"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV1.ST.Op.general	SG100D1A6		1=failure
10	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "59-2"	DIGITAL	REX640	N.A.	N.A.	LD0.PHPTOV2.ST.Op.general	SG100D1A6		1=failure
11	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "67-1"	DIGITAL	REX640	N.A.	N.A.	LD0.DPHLPTOC1.Op.general	SG100D1A6		1=failure
12	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION TRIPPED "67-2"	DIGITAL	REX640	N.A.	N.A.	LD0.DPHLPTOC2.Op.general	SG100D1A6		1=failure
13	SG100D1	6.6kV	FUEL CELL A-80000	A7	SELECTOR SWITCH IN LOCAL POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO6.stVal	SG100D1A6		1=local
14	SG100D1	6.6kV	FUEL CELL A-80000	A7	SELECTOR SWITCH IN REMOTE POSITION	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO7.stVal	SG100D1A6		1=remote
15	SG100D1	6.6kV	FUEL CELL A-80000	A7	Line Current (L1)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsA.cVal.mag.f	SG100D1A6		
16	SG100D1	6.6kV	FUEL CELL A-80000	A7	Line Current (L2)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsB.cVal.mag.f	SG100D1A6		
17	SG100D1	6.6kV	FUEL CELL A-80000	A7	Line Current (L3)	ANALOG	REX640	A	1	LD0.CMMXU1.A.phsC.cVal.mag.f	SG100D1A6		
18	SG100D1	6.6kV	FUEL CELL A-80000	A7	Line Volts (L1-I2)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsAB.cVal.mag.f	SG100D1A6		
19	SG100D1	6.6kV	FUEL CELL A-80000	A7	Line Volts (L2-L3)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsBC.cVal.mag.f	SG100D1A6		
20	SG100D1	6.6kV	FUEL CELL A-80000	A7	Line Volts (L3-L1)	ANALOG	REX640	kV	1	LD0.VMMXU1.PPV.phsCA.cVal.mag.f	SG100D1A6		
21	SG100D1	6.6kV	FUEL CELL A-80000	A7	Frequency	ANALOG	REX640	Hz	1	LD0.FMMXU1.Hz.mag.f	SG100D1A6		
22	SG100D1	6.6kV	FUEL CELL A-80000	A7	APPARENT POWER (kVA)	ANALOG	REX640	kVA	1	LD0.PEMMXU1.TotVA.mag.f	SG100D1A6		
23	SG100D1	6.6kV	FUEL CELL A-80000	A7	REAL POWER (kW)	ANALOG	REX640	kW	1	LD0.PEMMXU1.TotW.mag.f	SG100D1A6		
24	SG100D1	6.6kV	FUEL CELL A-80000	A7	REACTIVE POWER (kVAR)	ANALOG	REX640	kVAR	1	LD0.PEMMXU1.TotVAr.mag.f	SG100D1A6		
25	SG100D1	6.6kV	FUEL CELL A-80000	A7	POWER FACTOR	ANALOG	REX640	COSfi	1	LD0.PEMMXU1.TotPF.mag.f	SG100D1A6		
26	SG100D1	6.6kV	FUEL CELL A-80000	A7	TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind14.stVal	SG100D1A6		1=failure
27	SG100D1	6.6kV	FUEL CELL A-80000	A7	TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind13.stVal	SG100D1A6		1=failure
28	SG100D1	6.6kV	FUEL CELL A-80000	A7	WATCHDOG PROTECTION RELAY	DIGITAL	REX640	N.A.	N.A.	LD0.LPHD1.PhyHealth.stVal	SG100D1A6		1=watchdog "OK"
29	SG100D1	6.6kV	FUEL CELL A-80000	A7	V.T. HEALTLY CIRCUIT	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind2.stVal	SG100D1A6		1=healtly V.T.
30	SG100D1	6.6kV	FUEL CELL A-80000	A7	INTERTRIP SEND TO L.V. SWITCHBOARD	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO4.stVal	SG100D1A6		1=Intertrip
31	SG100D1	6.6kV	FUEL CELL A-80000	A7	K86 TRIPPED	DIGITAL	REX640	N.A.	N.A.	LD0.SBBIGGIO1.ST.Ind7.stVal	SG100D1A6		1=failure K86
32	SG100D1	6.6kV	FUEL CELL A-80000	A7	Contactor CLOSED AND INSERTED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC1.ST.SPCSO8.stVal	SG100D1A6		1=Contactor closed
33	SG100D1	6.6kV	FUEL CELL A-80000	A7	Contactor OPENED OR ISOLATED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO2.stVal	SG100D1A6		1=Contactor opened
34	SG100D1	6.6kV	FUEL CELL A-80000	A7	MCB'S CLOSED	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO3.stVal	SG100D1A6		1=MCB's closed
35	SG100D1	6.6kV	FUEL CELL A-80000	A7	Contactor READY (TCS)	DIGITAL	REX640	N.A.	N.A.	LD0.TCSSCBR1.ST.CircAlm.stVal	SG100D1A6		0=C.B. ready, 1=TCS Alarm
36	SG100D1	6.6kV	FUEL CELL A-80000	A7	Contactor READY TO CLOSE	DIGITAL	REX640	N.A.	N.A.	LD0.MVGAPC2.ST.SPCSO1.stVal	SG100D1A6		1=Contac. ready to close
37	SG100D1	6.6kV	FUEL CELL A-80000	A7	OPENING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO2.stVal	SG100D1A6		1=open command
38	SG100D1	6.6kV	FUEL CELL A-80000	A7	CLOSING COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO1.stVal	SG100D1A6		1=close command
39	SG100D1	6.6kV	FUEL CELL A-80000	A7	K86 RESET COMMAND	DIGITAL	REX640	N.A.	N.A.	LD0.SPCGAPC1.SPCSO3.stVal	SG100D1A6		1=reset command
40	SG100D1	6.6kV	FUEL CELL A-80000	A7	PROTECTION RELAY UNIT 6 HEALTHY	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind8.stVal	SG100D1A6		1= Relay unit 6 Healthy
41	SG100D1	6.6kV	FUEL CELL A-80000	A7	AUXILIARY 230VAC HEALTHY (ALL SWITCHBOARD)	DIGITAL	REX640	N.A.	N.A.	LD0.SDBIGGIO1.ST.Ind7.stVal	SG100D1A6		1=auxiliary 230Vac ON
42	SG100D1	6.6kV	FUEL CELL A-80000	A7	MCB'S CLOSED (FROM MEASURE UNIT A5)	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind6.stVal	SG100D1A6		1=MCB's closed (A5)
43	SG100D1	6.6kV	FUEL CELL A-80000	A7	V.T. HEALTLY CIRCUIT (FROM MEASURE UNIT A5)	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind7.stVal	SG100D1A6		1=healty V.T. (A5)
44	SG100D1	6.6kV	FUEL CELL A-80000	A7	UPS 110VDC A SUPPLY "ON" (FROM MEASURE UNIT A5)	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind8.stVal	SG100D1A6		1=auxiliary 110Vdc ON "A" (A5)
45	SG100D1	6.6kV	FUEL CELL A-80000	A7	UPS 110VDC B SUPPLY "ON" (FROM MEASURE UNIT A5)	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind9.stVal	SG100D1A6		1=auxiliary 110Vdc ON "B" (A5)
46	SG100D1	6.6kV	FUEL CELL A-80000	A7	230VAC SUPPLY "ON" (FROM MEASURE UNIT A5)	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind10.stVal	SG100D1A6		1=auxiliary 230Vac "ON" (A5)
47	SG100D1	6.6kV	FUEL CELL A-80000	A7	24VDC SUPPLY "ON" (FROM MEASURE UNIT A5)	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind11.stVal	SG100D1A6		1=auxiliary 24Vd "ON" (A5)
48	SG100D1	6.6kV	FUEL CELL A-80000	A7	EARTHING SWITCH OPENED (FROM MEASURE UNIT A5)	DIGITAL	REX640	N.A.	N.A.	LD0.SCBIGGIO1.ST.Ind3.stVal	SG100D1A6		1=earthing switch open (A5)

ITEM	SWITCHGEAR TAG	VOLTAGE	TAG NAME	FEEDER CUBICLE No	SIGNAL_DESCRIPTION	DATA CARD	TCP REGISTER	TYPE ANALOG/DIGITAL	UNIT	SCALE FACTOR	Warning Alarm [°C]	Critical Alarm [°C]	DATA CARD SENSOR
ELECTROLYSER FEEDER A-20000 "A1"													
1	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Phase L1 - Temperature Detection - Main Bus Bar	11	40117	Analog	ΔT	1	20	30	Channel 1
2	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Phase L3 - Temperature Detection - Main Bus Bar	11	40118	Analog	ΔT	1	20	30	Channel 2
3	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Phase L1 - Temperature Detection - C.B. Compart.	11	40119	Analog	ΔT	1	20	30	Channel 3
4	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Phase L2 - Temperature Detection - C.B. Compart.	11	40120	Analog	ΔT	1	20	30	Channel 4
5	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Phase L3 - Temperature Detection - C.B. Compart.	11	40121	Analog	ΔT	1	20	30	Channel 5
6	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Phase L1 - Temperature Detection - Cabel Compart.	11	40122	Analog	ΔT	1	20	30	Channel 6
7	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Phase L2 - Temperature Detection - Cabel Compart.	11	40123	Analog	ΔT	1	20	30	Channel 7
8	SG100D1	6.6kV	ELECTROLYSER FEEDER A-20000	A1	Phase L3 - Temperature Detection - Cabel Compart.	11	40124	Analog	ΔT	1	20	30	Channel 8
TRANSFORMER FEEDER TR-200ED1 "A2"													
1	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Phase L1 - Temperature Detection - Main Bus Bar	12	40125	Analog	ΔT	1	20	30	Channel 1
2	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Phase L3 - Temperature Detection - Main Bus Bar	12	40126	Analog	ΔT	1	20	30	Channel 2
3	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Phase L1 - Temperature Detection - C.B. Compart.	12	40127	Analog	ΔT	1	20	30	Channel 3
4	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Phase L2 - Temperature Detection - C.B. Compart.	12	40128	Analog	ΔT	1	20	30	Channel 4
5	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Phase L3 - Temperature Detection - C.B. Compart.	12	40129	Analog	ΔT	1	20	30	Channel 5
6	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Phase L1 - Temperature Detection - Cabel Compart.	12	40130	Analog	ΔT	1	20	30	Channel 6
7	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Phase L2 - Temperature Detection - Cabel Compart.	12	40131	Analog	ΔT	1	20	30	Channel 7
8	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A2	Phase L3 - Temperature Detection - Cabel Compart.	12	40132	Analog	ΔT	1	20	30	Channel 8
BESS FEEDER A-85000 "A3"													
1	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Phase L1 - Temperature Detection - Main Bus Bar	13	40133	Analog	ΔT	1	20	30	Channel 1
2	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Phase L3 - Temperature Detection - Main Bus Bar	13	40134	Analog	ΔT	1	20	30	Channel 2
3	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Phase L1 - Temperature Detection - C.B. Compart.	13	40135	Analog	ΔT	1	20	30	Channel 3
4	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Phase L2 - Temperature Detection - C.B. Compart.	13	40136	Analog	ΔT	1	20	30	Channel 4
5	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Phase L3 - Temperature Detection - C.B. Compart.	13	40137	Analog	ΔT	1	20	30	Channel 5
6	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Phase L1 - Temperature Detection - Cabel Compart.	13	40138	Analog	ΔT	1	20	30	Channel 6
7	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Phase L2 - Temperature Detection - Cabel Compart.	13	40139	Analog	ΔT	1	20	30	Channel 7
8	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A3	Phase L3 - Temperature Detection - Cabel Compart.	13	40140	Analog	ΔT	1	20	30	Channel 8
TRANSFORMER FEEDER TR-200DE1 "A4"													
1	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Phase L1 - Temperature Detection - Main Bus Bar	14	40141	Analog	ΔT	1	20	30	Channel 1
2	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Phase L3 - Temperature Detection - Main Bus Bar	14	40142	Analog	ΔT	1	20	30	Channel 2
3	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Phase L1 - Temperature Detection - C.B. Compart.	14	40143	Analog	ΔT	1	20	30	Channel 3
4	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Phase L2 - Temperature Detection - C.B. Compart.	14	40144	Analog	ΔT	1	20	30	Channel 4
5	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Phase L3 - Temperature Detection - C.B. Compart.	14	40145	Analog	ΔT	1	20	30	Channel 5
6	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Phase L1 - Temperature Detection - Cabel Compart.	14	40146	Analog	ΔT	1	20	30	Channel 6
7	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Phase L2 - Temperature Detection - Cabel Compart.	14	40147	Analog	ΔT	1	20	30	Channel 7
8	SG100D1	6.6kV	TRANSFORMER FEEDER TR-200ED1	A4	Phase L3 - Temperature Detection - Cabel Compart.	14	40148	Analog	ΔT	1	20	30	Channel 8

ITEM	SWITCHGEAR TAG	VOLTAGE	TAG NAME	FEEDER CUBICLE No	SIGNAL_DESCRIPTION	DATA CARD	TCP REGISTER	TYPE ANALOG/DIGITAL	UNIT	SCALE FACTOR	Warning Alarm [°C]	Critical Alarm [°C]	DATA CARD SENSOR
MEASURING BUS BAR "A5"													
1	SG100D1	6.6kV	MEASURING BUS BAR	A5	Phase L1 - Temperature Detection - Main Bus Bar	10	40109	Analog	ΔT	1	20	30	Channel 4
2	SG100D1	6.6kV	MEASURING BUS BAR	A5	Phase L3 - Temperature Detection - Main Bus Bar	10	40110	Analog	ΔT	1	20	30	Channel 5
3	SG100D1	6.6kV	MEASURING BUS BAR	A5	Phase L1 -Temperature Detection - T.V. Compartment	10	40111	Analog	ΔT	1	20	30	Channel 6
4	SG100D1	6.6kV	MEASURING BUS BAR	A5	Phase L2 -Temperature Detection - T.V. Compartment	10	40112	Analog	ΔT	1	20	30	Channel 7
5	SG100D1	6.6kV	MEASURING BUS BAR	A5	Phase L3 -Temperature Detection - T.V. Compartment	10	40113	Analog	ΔT	1	20	30	Channel 8
INCOMING FEEDER TR-100AD1 "A6"													
1	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Phase L1 - Temperature Detection - Main Bus Bar	15	40149	Analog	ΔT	1	20	30	Channel 1
2	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Phase L3 - Temperature Detection - Main Bus Bar	15	40150	Analog	ΔT	1	20	30	Channel 2
3	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Phase L1 - Temperature Detection - C.B. Compart.	15	40151	Analog	ΔT	1	20	30	Channel 3
4	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Phase L2 - Temperature Detection - C.B. Compart.	15	40152	Analog	ΔT	1	20	30	Channel 4
5	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Phase L3 - Temperature Detection - C.B. Compart.	15	40153	Analog	ΔT	1	20	30	Channel 5
6	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Phase L1 - Temperature Detection - Cabel Compart.	15	40154	Analog	ΔT	1	20	30	Channel 6
7	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Phase L2 - Temperature Detection - Cabel Compart.	15	40155	Analog	ΔT	1	20	30	Channel 7
8	SG100D1	6.6kV	INCOMING FEEDER TR-100AD1	A6	Phase L3 - Temperature Detection - Cabel Compart.	15	40156	Analog	ΔT	1	20	30	Channel 8
FUEL CELL A-80000 "A7"													
1	SG100D1	6.6kV	FUEL CELL A-80000	A7	Phase L1 - Temperature Detection - Main Bus Bar	16	40157	Analog	ΔT	1	20	30	Channel 1
2	SG100D1	6.6kV	FUEL CELL A-80000	A7	Phase L3 - Temperature Detection - Main Bus Bar	16	40158	Analog	ΔT	1	20	30	Channel 2
3	SG100D1	6.6kV	FUEL CELL A-80000	A7	Phase L1 - Temperature Detection - C.B. Compart.	16	40159	Analog	ΔT	1	20	30	Channel 3
4	SG100D1	6.6kV	FUEL CELL A-80000	A7	Phase L2 - Temperature Detection - C.B. Compart.	16	40160	Analog	ΔT	1	20	30	Channel 4
5	SG100D1	6.6kV	FUEL CELL A-80000	A7	Phase L3 - Temperature Detection - C.B. Compart.	16	40161	Analog	ΔT	1	20	30	Channel 5
6	SG100D1	6.6kV	FUEL CELL A-80000	A7	Phase L1 - Temperature Detection - Cabel Compart.	16	40162	Analog	ΔT	1	20	30	Channel 6
7	SG100D1	6.6kV	FUEL CELL A-80000	A7	Phase L2 - Temperature Detection - Cabel Compart.	16	40163	Analog	ΔT	1	20	30	Channel 7
8	SG100D1	6.6kV	FUEL CELL A-80000	A7	Phase L3 - Temperature Detection - Cabel Compart.	16	40164	Analog	ΔT	1	20	30	Channel 8

ITEM	SWITCHGEAR TAG	VOLTAGE	TAG NAME	DEVICE	SIGNAL_DESCRIPTION	TYPE ANALOG/DIGITAL	RELAY/DEVICE MODEL	UNIT	SCALE FACTOR	BITOFFS	MODBUS RTU Register	MODBUS RTU Data Type	MODBUS RTU Function Code	Note
					PD phase A calculated (for customer)									
1	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: PD presence likelihood, value	SW-AI	SWICOM	A5	1		1088	U16		Value range 0...100
2	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Discharge strength (normalized), value	SW-AI	SWICOM	A5	100		1089	U16		Value range 0.00...100.00
3	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Pulse rate (Q50 pulse rate 1), value	SW-AI	SWICOM	A5	1		1090	U16		Value range [Hz]
4	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Discharge variability, value	SW-AI	SWICOM	A5	100		1091	U16		Value range 0.00...100.00
5	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Discharge increase, value	SW-AI	SWICOM	A5	100		1092	U16		Value range -100.00...100.00
					PD phase B calculated (for customer)									
6	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: PD presence likelihood, value	SW-AI	SWICOM	A5	1		1093	U16		Value range 0...100
7	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Discharge strength (normalized), value	SW-AI	SWICOM	A5	100		1094	U16		Value range 0.00...100.00
8	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Pulse rate (Q50 pulse rate 1), value	SW-AI	SWICOM	A5	1		1095	U16		Value range [Hz]
9	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Discharge variability, value	SW-AI	SWICOM	A5	100		1096	U16		Value range 0.00...100.00
10	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Discharge increase, value	SW-AI	SWICOM	A5	100		1097	U16		Value range -100.00...100.00
					PD phase C calculated (for customer)									
11	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: PD presence likelihood, value	SW-AI	SWICOM	A5	1		1098	U16		Value range 0...100
12	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Discharge strength (normalized), value	SW-AI	SWICOM	A5	100		1099	U16		Value range 0.00...100.00
13	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Pulse rate (Q50 pulse rate 1), value	SW-AI	SWICOM	A5	1		1100	U16		Value range [Hz]
14	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Discharge variability, value	SW-AI	SWICOM	A5	100		1101	U16		Value range 0.00...100.00
15	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PDCOM measurements calculated: Discharge increase, value	SW-AI	SWICOM	A5	100		1102	U16		Value range -100.00...100.00
					PD outputs antenna 1 (A - B)									
16	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Warning-free time (1 week) is under warning level, value	SW-DI	SWICOM	A5		608	1958.00			
17	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Alarm-free time (1 week) is under alarm level, value	SW-DI	SWICOM	A5		609	1958.01			
18	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Warning-free time (1 month) is under warning level, value	SW-DI	SWICOM	A5		610	1958.02			
19	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Alarm-free time (1 month) is under alarm level, value	SW-DI	SWICOM	A5		611	1958.03			
					PD outputs antenna 2 (A - B)									
20	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Warning-free time (1 week) is under warning level, value	SW-DI	SWICOM	A5		612	1958.04			
21	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Alarm-free time (1 week) is under alarm level, value	SW-DI	SWICOM	A5		613	1958.05			
22	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Warning-free time (1 month) is under warning level, value	SW-DI	SWICOM	A5		614	1958.06			
23	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Alarm-free time (1 month) is under alarm level, value	SW-DI	SWICOM	A5		615	1958.07			
					PD outputs antenna 3 (A - B)									
24	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Warning-free time (1 week) is under warning level, value	SW-DI	SWICOM	A5		616	1958.08			
25	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Alarm-free time (1 week) is under alarm level, value	SW-DI	SWICOM	A5		617	1958.09			
26	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Warning-free time (1 month) is under warning level, value	SW-DI	SWICOM	A5		618	1958.10			
27	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD Alarm-free time (1 month) is under alarm level, value	SW-DI	SWICOM	A5		619	1958.11			
					PD outputs antenna 1 (A - B)									
28	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD has reached warning level, value	SW-DI	SWICOM	A5		542	1953.14			
29	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD has reached alarm level, value	SW-DI	SWICOM	A5		543	1953.15			
					PD outputs antenna 2 (A - B)									
30	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD has reached warning level, value	SW-DI	SWICOM	A5		544	1954.00			
31	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD has reached alarm level, value	SW-DI	SWICOM	A5		545	1954.01			
					PD outputs antenna 3 (A - B)									
32	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD has reached warning level, value	SW-DI	SWICOM	A5		546	1954.02			
33	SG100D1	6.6kV	MEASURING BUS BAR	SW1	PD has reached alarm level, value	SW-DI	SWICOM	A5		547	1954.03			