

SCADA I/O List - AEMO/ElectraNet

PSD1834-200-005

Prepared for

ENZEN/PACIFIC BLUE



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SCADA I/O List - AEMO/ElectraNet Summary

Sheet No. 1



Information

This document details the DNP points required for ElectraNet and AEMO

SCADA I/O List - AEMO/ElectraNet
Comms Configuration

Sheet No. 2

Device	Interface	DNP Port	DNP Server Address	DNP Client Address (SMSC/BUCC)
Gateway A	NSC Interface	20000	TBA	255
Gateway A	NSC Test	20001	TBA	255
Gateway B	NSC Interface	20000	TBA	255
Gateway B	NSC Test	20001	TBA	255



	REV	IO_TYPE	POINT DESCRIPTION	DEVICE	PTNAME	DI - ON DO - CLOSE	DI - OFF DO - TRIP	ALARM ID	NSC_PRIORITY	NSC_INV	NSC_TYPE	NSC_CLASS	ANARANGE	ENG_LOW	ENG_HIGH	UNIT	RAW_LOW	RAW_HIGH	DEADBAND	DNP Control Type	DNP OBJECT	DNP VARIATION	DNP POINT CLASS	DNP ADDRESS
1	A	DI	D01-Q14 SWITCH INDICATION	D01-Q14	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	0
2	A	DI	D01-Q14 SWITCH INDICATION	D01-Q14	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	1
3	A	DI	D01-Q19E SWITCH INDICATION	D01-Q19E	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	2
4	A	DI	D01-Q19E SWITCH INDICATION	D01-Q19E	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	3
5	A	DI	1F01-Q10 SWITCH INDICATION	1F01-Q10	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	4
6	A	DI	1F01-Q10 SWITCH INDICATION	1F01-Q10	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	5
7	A	DI	1F01-Q11 SWITCH INDICATION	1F01-Q11	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	6
8	A	DI	1F01-Q11 SWITCH INDICATION	1F01-Q11	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	7
9	A	DI	1F02-Q10 SWITCH INDICATION	1F02-Q10	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	8
10	A	DI	1F02-Q10 SWITCH INDICATION	1F02-Q10	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	9
11	A	DI	1F02-Q11 SWITCH INDICATION	1F02-Q11	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	10
12	A	DI	1F02-Q11 SWITCH INDICATION	1F02-Q11	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	11
13	A	DI	1F03-Q10 SWITCH INDICATION	1F03-Q10	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	12
14	A	DI	1F03-Q10 SWITCH INDICATION	1F03-Q10	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	13
15	A	DI	1F03-Q11 SWITCH INDICATION	1F03-Q11	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	14
16	A	DI	1F03-Q11 SWITCH INDICATION	1F03-Q11	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	15
17	A	DI	1F04-Q10 SWITCH INDICATION	1F04-Q10	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	16
18	A	DI	1F04-Q10 SWITCH INDICATION	1F04-Q10	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	17
19	A	DI	1F04-Q11 SWITCH INDICATION	1F04-Q11	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	18
20	A	DI	1F04-Q11 SWITCH INDICATION	1F04-Q11	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	19
21	A	DI	1F05-Q10 SWITCH INDICATION	1F05-Q10	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	20
22	A	DI	1F05-Q10 SWITCH INDICATION	1F05-Q10	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	21
23	A	DI	1F05-Q11 SWITCH INDICATION	1F05-Q11	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	22
24	A	DI	1F05-Q11 SWITCH INDICATION	1F05-Q11	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	23
25	A	DI	1F06-Q10 SWITCH INDICATION	1F06-Q10	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	24
26	A	DI	1F06-Q10 SWITCH INDICATION	1F06-Q10	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	25
27	A	DI	1F06-Q11 SWITCH INDICATION	1F06-Q11	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	26
28	A	DI	1F06-Q11 SWITCH INDICATION	1F06-Q11	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	27
29	A	DI	1F07-Q10 SWITCH INDICATION	1F07-Q10	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	28
30	A	DI	1F07-Q10 SWITCH INDICATION	1F07-Q10	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	29
31	A	DI	1F07-Q11 SWITCH INDICATION	1F07-Q11	SWITCH INDICATION	OPEN	-	IND	S1	FALSE	NC3P										1/2	2/2	1	30
32	A	DI	1F07-Q11 SWITCH INDICATION	1F07-Q11	SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P										1/2	2/2	1	31
33	04	DI	CL_W_B VOLTAGE CONTROL	CL_W_B	VOLTAGE CONTROL	ON	OFF	G275	G0	FALSE	NALM										1/2	2/2	1	32
34	04	DI	CL_W_B POWER FACTOR CONTROL	CL_W_B	POWER FACTOR CONTROL	ON	OFF	G278	G0	FALSE	NALM										1/2	2/2	1	33
35	04	DI	CL_W_B MVAR CONTROL	CL_W_B	MVAR CONTROL	ON	OFF	G276	G2	FALSE	NO_P										1/2	2/2	1	34
36	04	DI	CL_W_B MW CONTROL MODE	CL_W_B	MW CONTROL MODE	REMOTE	LOCAL	G330	G2	FALSE	NO_P										1/2	2/2	1	35
37	04	DI	CL_W_B FREQUENCY RESPONSE ACTIVE	CL_W_B	FREQUENCY RESPONSE ACTIVE	ALARM	CLEAR	G323	G0	FALSE											1/2	2/2	1	36
38	04	DI	CL_W_B NLCAS ACTIVE	CL_W_B	NLCAS ACTIVE	ON	OFF	DN03	G0	FALSE	NO_P										1/2	2/2	1	37
39	04	DI	CL_W_B NLCAS ACTIVE	CL_W_B	NLCAS ACTIVE	ON	OFF	DN04	G0	FALSE	NO_P										1/2	2/2	1	38
40	04	DI	CL_W_B NLCAS TERMINATED	CL_W_B	NLCAS TERMINATED	ALARM	CLEAR	DN05	G0	FALSE	NO_P										1/2	2/2	1	39
41	04	DI	CL_W_B AVAILABLE FOR VAR CONTROL	CL_W_B	AVAILABLE FOR VAR CONTROL	YES	NO	VAVL	G0	FALSE											1/2	2/2	1	40
42	04	DI	CL_W_B CONTROL MODE	CL_W_B	CONTROL MODE	LOCAL	AGC	G001	G0	FALSE	NANO										1/2	2/2	1	41
43	04	DI	CL_W_B VDS PARTICIPATION	CL_W_B	VDS PARTICIPATION	AVAILABLE	UNAVAILABLE	G350	G0	FALSE											1/2	2/2	1	42
44	04	DI	CL_W_B AVAILABLE FOR AGC	CL_W_B	AVAILABLE FOR AGC	YES	NO	G000	G0	FALSE	NANP										1/2	2/2	1	43
45	04	DI	CL_W_B PERMISSIVE TO CLOSE	CL_W_B	PERMISSIVE TO CLOSE	ON	OFF	N207	G2	FALSE											1/2	2/2	1	44
46	A	DI	T_1 X PROT TRIP	T_1	X PROT TRIP	ALARM	CLEAR	K006	G2	FALSE	NO_P										1/2	2/2	1	45
47	A	DI	T_1 Y PROT TRIP	T_1	Y PROT TRIP	ALARM	CLEAR	K008	G2	FALSE	NO_P										1/2	2/2	1	46
48	A	DI	AUX_BCU DUM CB SWITCH INDICATION	AUX_BCU	DUM CB SWITCH INDICATION	OPEN	-	INDD	S0	FALSE	NALM										1/2	2/2	1	47
49	A	DI	AUX_BCU DUM CB SWITCH INDICATION	AUX_BCU	DUM CB SWITCH INDICATION	CLOSED	-	INDD	S0	FALSE	NALM										1/2	2/2	1	48
50	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			49
51	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			50
52	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			51
53	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			52
54	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			53
55	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			54
56	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			55
57	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			56
58	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			57
59	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			58
60	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			59
61	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			60
62	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			61
63	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			62
64	04	DI	CL_W_B SPARE	CL_W_B	SPARE																			63
65	A	DO	AUX_BCU DUM CB SWITCH INDICATION	AUX_BCU	DUM CB SWITCH INDICATION	OPEN		INDD	S0	FALSE	NALM									SBO / TRIP / PULSE ON	10 / 12	2 / 1	2	0
66	A	DO	AUX_BCU DUM CB SWITCH INDICATION	AUX_BCU	DUM CB SWITCH INDICATION	CLOSE		INDD	S0	FALSE	NALM									SBO / CLOSE / PULSE ON	10 / 12	2 / 1	2	1
67	A	DO	B_BESS_GEN VAR TIMING SIGNAL	B_BESS_GEN	VAR TIMING SIGNAL	ON	OFF	VDSC	G0	-										SBO / TRIP / CLOSE	10 / 12	2 / 1	2	2
68	A	DO	B_BESS_GEN VAR DEVICE CONFORMANCE	B_BESS_GEN	VAR DEVICE CONFORMANCE	YES	NO	VCFC	G0	-										SBO / TRIP / CLOSE	10 / 12	2 / 1	2	3
69	A	DO	CG_WEST SPARE	CG_WEST	SPARE																10 / 12	2 / 1	2	4
70	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	5
71	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	6
72	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	7
73	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	8
74	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	9
75	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	10
76	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	11
77	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	12
78	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	13
79	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	14
80	04	DO	CL_W_B SPARE	CL_W_B	SPARE																10 / 12	2 / 1	2	15
81	A	AI	CG_WEST PHASE R CURRENT (AMP)	CG_WEST	PHASE R CURRENT (AMP)			AMP_R		-	ANALOG	NA	0 - 480 A	0	480	A	0	4800	24		30 / 32	2		



			IO_TYPE	POINT DESCRIPTION	DEVICE	PTNAME	DI - ON DO - CLOSE	DI - OFF DO - TRIP	ALARM ID	NSC_PRIORITY	NSC_INV	NSC_TYPE	NSC_CLASS	ANARANGE	ENG_LOW	ENG_HIGH UNIT	RAW_LOW	RAW_HIGH	DEADBAND	DNP Control Type	DNP OBJECT	DNP VARIATION	DNP POINT CLASS	DNP ADDRESS
105	04	AI	CL_W_B	POSSIBLE POWER (MW)	CL_W_B	POSSIBLE POWER (MW)			POSP	-		ANALOG	NA	-60 to 60 MW	-60	60 MW	-6000	6000	1		30 / 32	1 / 1	2	24
106	04	AI	CL_W_B	MVAR REFERENCE	CL_W_B	MVAR REFERENCE			MVRF	-		ANALOG	NA	-25 to 25 MVar	-25	25 MVar	-2500	2500	1		30 / 32	1 / 1	2	25
107	04	AI	CL_W_B	VOLTAGE REFERENCE	CL_W_B	VOLTAGE REFERENCE			VREF	-		ANALOG	NA	105 - 145 kV	105	145 kV	10500	14500	1		30 / 32	1 / 1	2	26
108	04	AI	CL_W_B	POWER FACTOR REFERENCE (DISCHARGE)	CL_W_B	POWER FACTOR REFERENCE (DISCHARGE)			PFRFC	-		ANALOG	NA	-1 - 1 PF	-1	1 PF	-1000	1000	2		30 / 32	1 / 1	2	27
109	04	AI	CL_W_B	POWER FACTOR REFERENCE (CHARGE)	CL_W_B	POWER FACTOR REFERENCE (CHARGE)			PFRFD	-		ANALOG	NA	-1 - 1 PF	-1	1 PF	-1000	1000	2		30 / 32	1 / 1	2	28
110	04	AI	CL_W_B	MW REFERENCE	CL_W_B	MW REFERENCE			MWRF	-		ANALOG	NA	-60 to 60 MW	-60	60 MW	-6000	6000	1		30 / 32	1 / 1	2	29
111	04	AI	CL_W_B	NUMBER OF INVERTERS AVAILABLE	CL_W_B	NUMBER OF INVERTERS AVAILABLE			INVA	-		ANALOG	NA	0 - 25 Inverters	0	25 Inverters	0	25	0		30 / 32	1 / 1	2	30
112	04	AI	CL_W_B	NUMBER OF INVERTERS RUNNING	CL_W_B	NUMBER OF INVERTERS RUNNING			INVB	-		ANALOG	NA	0 - 25 Inverters	0	25 Inverters	0	25	0		30 / 32	1 / 1	2	31
113	04	AI	CL_W_B	MW LOCAL SETPOINT	CL_W_B	MW LOCAL SETPOINT			MWLS	-		ANALOG	NA	-60 to 60 MW	-60	60 MW	-6000	6000	1		30 / 32	1 / 1	2	32
114	04	AI	CL_W_B	RAMP DOWN RATE (MW/MINUTE)	CL_W_B	RAMP DOWN RATE (MW/MINUTE)			MWRD	-		ANALOG	NA	0 - 60 MW/MINUTE	0	60 MW/MINUTE	0	6000	1		30 / 32	1 / 1	2	33
115	04	AI	CL_W_B	RAMP UP RATE (MW/MINUTE)	CL_W_B	RAMP UP RATE (MW/MINUTE)			MWRU	-		ANALOG	NA	0 - 60 MW/MINUTE	0	60 MW/MINUTE	0	6000	1		30 / 32	1 / 1	2	34
116	04	AI	CL_W_B	UNIT LOW MW LIMIT	CL_W_B	UNIT LOW MW LIMIT			MWL	-		ANALOG	NA	0 - 60 MW	0	60 MW	0	6000	1		30 / 32	1 / 1	2	35
117	04	AI	CL_W_B	UNIT HIGH MW LIMIT	CL_W_B	UNIT HIGH MW LIMIT			MWH	-		ANALOG	NA	0 - 60 MW	0	60 MW	0	6000	1		30 / 32	1 / 1	2	36
118	04	AI	CL_W_B	ENERGY REMAINING (CHARGE)	CL_W_B	ENERGY REMAINING (CHARGE)			MWERC	-		ANALOG	NA	0 - 120 MWh	0	120 MWh	0	12000	1		30 / 32	1 / 1	2	37
119	04	AI	CL_W_B	ENERGY REMAINING (DISCHARGE)	CL_W_B	ENERGY REMAINING (DISCHARGE)			MWERD	-		ANALOG	NA	0 - 120 MWh	0	120 MWh	0	12000	1		30 / 32	1 / 1	2	38
120	04	AI	CL_W_B	FULL PACK ENERGY	CL_W_B	FULL PACK ENERGY			NWFE	-		ANALOG	NA	0 - 120 MWh	0	120 MWh	0	12000	1		30 / 32	1 / 1	2	39
121	04	AI	CL_W_B	AVAILABLE MAXIMUM CAPACITY	CL_W_B	AVAILABLE MAXIMUM CAPACITY			MAXC	-		ANALOG	NA	0 - 120 %	0	120 %	0	12000	1		30 / 32	1 / 1	2	40
122	04	AI	CL_W_B	AVAILABLE DISCHARGE POWER	CL_W_B	AVAILABLE DISCHARGE POWER			POSPD	-		ANALOG	NA	-60 to 60 MW	-60	60 MW	-6000	6000	1		30 / 32	1 / 1	2	41
123	04	AI	CL_W_B	AVAILABLE CHARGE POWER	CL_W_B	AVAILABLE CHARGE POWER			POSPC	-		ANALOG	NA	-60 to 60 MW	-60	60 MW	-6000	6000	1		30 / 32	1 / 1	2	42
124	04	AI	CL_W_B	LOCAL DISCHARGE LIMIT	CL_W_B	LOCAL DISCHARGE LIMIT			MWLLD	-		ANALOG	NA	-60 to 60 MW	-60	60 MW	-6000	6000	1		30 / 32	1 / 1	2	43
125	04	AI	CL_W_B	LOCAL CHARGE LIMIT	CL_W_B	LOCAL CHARGE LIMIT			MWLLC	-		ANALOG	NA	-60 to 60 MW	-60	60 MW	-6000	6000	1		30 / 32	1 / 1	2	44
126	A	AI	T_1	AVR SETPOINT VARIABLE (KV)	T_1	AVR SETPOINT VARIABLE (KV)			SPAV	-		ANALOG	NA	0 - 39.6 kV	0	39.6 kV	0	3960	8		30 / 32	1 / 1	2	45
127	A	AI	T_1	TAP POSITION	T_1	TAP POSITION			TAP	-		ANALOG	NA	0 - 25	0	25	0	25	0		30 / 32	1 / 1	2	46
128	A	AI	T_1_LV	PHASE 1 CURRENT (AMP)	T_1_LV	PHASE 1 CURRENT (AMP)			AMP1	-		ANALOG	NA	0 - 1920 A	0	1920 A	0	1920	9		30 / 32	1 / 1	2	47
129	A	AI	T_1_LV	PHASE 2 CURRENT (AMP)	T_1_LV	PHASE 2 CURRENT (AMP)			AMP2	-		ANALOG	NA	0 - 1920 A	0	1920 A	0	1920	9		30 / 32	1 / 1	2	48
130	A	AI	T_1_LV	PHASE 3 CURRENT (AMP)	T_1_LV	PHASE 3 CURRENT (AMP)			AMP3	-		ANALOG	NA	0 - 1920 A	0	1920 A	0	1920	9		30 / 32	1 / 1	2	49
131	A	AI	T_1_LV	ACTIVE POWER (MW)	T_1_LV	ACTIVE POWER (MW)			MW	-		ANALOG	NA	-109.74 - 109.74 MW	-109.74	109.74 MW	-10974	10974	2		30 / 32	1 / 1	2	50
132	A	AI	T_1_LV	REACTIVE POWER (MVAR)	T_1_LV	REACTIVE POWER (MVAR)			MVAR	-		ANALOG	NA	-109.74 - 109.74 MW	-109.74	109.74 MW	-10974	10974	2		30 / 32	1 / 1	2	51
133	A	AI	T_1_LV	POWER FACTOR	T_1_LV	POWER FACTOR			PF	-		ANALOG	NA	-1 - 1 PF	-1	1 PF	-100	100	0		30 / 32	1 / 1	2	52
134	A	AI	FILTER_1	REACTIVE POWER (MVAR)	FILTER_1	REACTIVE POWER (MVAR)			MVAR	-		ANALOG	NA	-15 - 15 MW	-15	15 MVar	-1500	1500	2		30 / 32	1 / 1	2	53
135	A	AI	CG_1	ACTIVE POWER (MW)	CG_1	ACTIVE POWER (MW)			MW	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MW	-2743	2743	2		30 / 32	1 / 1	2	54
136	A	AI	CG_1	REACTIVE POWER (MVAR)	CG_1	REACTIVE POWER (MVAR)			MVAR	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MVar	-2743	2743	2		30 / 32	1 / 1	2	55
137	A	AI	CG_2	ACTIVE POWER (MW)	CG_2	ACTIVE POWER (MW)			MW	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MW	-2743	2743	2		30 / 32	1 / 1	2	56
138	A	AI	CG_2	REACTIVE POWER (MVAR)	CG_2	REACTIVE POWER (MVAR)			MVAR	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MVar	-2743	2743	2		30 / 32	1 / 1	2	57
139	A	AI	CG_3	ACTIVE POWER (MW)	CG_3	ACTIVE POWER (MW)			MW	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MW	-2743	2743	2		30 / 32	1 / 1	2	58
140	A	AI	CG_3	REACTIVE POWER (MVAR)	CG_3	REACTIVE POWER (MVAR)			MVAR	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MVar	-2743	2743	2		30 / 32	1 / 1	2	59
141	A	AI	CG_4	ACTIVE POWER (MW)	CG_4	ACTIVE POWER (MW)			MW	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MW	-2743	2743	2		30 / 32	1 / 1	2	60
142	A	AI	CG_4	REACTIVE POWER (MVAR)	CG_4	REACTIVE POWER (MVAR)			MVAR	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MVar	-2743	2743	2		30 / 32	1 / 1	2	61
143	A	AI	CG_5	ACTIVE POWER (MW)	CG_5	ACTIVE POWER (MW)			MW	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MW	-2743	2743	2		30 / 32	1 / 1	2	62
144	A	AI	CG_5	REACTIVE POWER (MVAR)	CG_5	REACTIVE POWER (MVAR)			MVAR	-		ANALOG	NA	-27.43 - 27.43 MW	-27.43	27.43 MVar	-2743	2743	2		30 / 32	1 / 1	2	63
145	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		64
146	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		65
147	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		66
148	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		67
149	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		68
150	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		69
151	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		70
152	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		71
153	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		72
154	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		73
155	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		74
156	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		75
157	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		76
158	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		77
159	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		78
160	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		79
161	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		80
162	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		81
163	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		82
164	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		83
165	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		84
166	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		85
167	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		86
168	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		87
169	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		88
170	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		89
171	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		90
172	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		91
173	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		92
174	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		93
175	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		94
176	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		95
177	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		96
178	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		97
179	04	AI	CL_W_B	SPARE	CL_W_B	SPARE																		98
180	04	AI	CL_W_B	SPARE																				



IDX	REV	IO_TYPE	POINT DESCRIPTION	DEVICE	PTNAME	DI - ON DO - CLOSE	DI - OFF DO - TRIP	ALARM ID	NSC_PRIORITY	NSC_INV	NSC_TYPE	NSC_CLASS	ANARANGE	ENG_LOW	ENG_HIGH	UNIT	RAW_LOW	RAW_HIGH	DEADBAND	DNP Control Type	DNP OBJECT	DNP VARIATION	DNP POINT CLASS	DNP ADDRESS
209	04	AO	CL_W_B MW ACTIVE SETPOINT	CL_W_B	MW ACTIVE SETPOINT			MASP	-		ANALOG	NA	-60 - 60 MW	-60	60	MW	-16000	16000	0		40 / 41	1 / 1		0
210	04	AO	CL_W_B DISPATCH CAPPED FLAG	CL_W_B	DISPATCH CAPPED FLAG			CAPX	-		ANALOG	NA	-1 - 1	-1	1		-1	1	0		40 / 41	1 / 1		1
211	04	AO	CL_W_B DELTA VOLTAGE CHANGE (AEMO VDS)	CL_W_B	DELTA VOLTAGE CHANGE (AEMO VDS)			VV_D	-		ANALOG	NA	-14 to 14 Kv	-14	14	kV	-1400	1400	0		40 / 41	1 / 1		2
212	04	AO	CL_W_B VARIABLE SETPOINT (AGC)	CL_W_B	VARIABLE SETPOINT (AGC)			AGC	-		ANALOG	NA	-60 - 60 MW	-60	60	MW	-16000	16000	0		40 / 41	1 / 1		3
213	04	AO	CL_W_B AEMO LINK HEARTBEAT	CL_W_B	AEMO LINK HEARTBEAT			HTBT	-		ANALOG	NA	1 - 10000	1	10000		1	10000	0		40 / 41	1 / 1		4
214	04	AO	CL_W_B SPARE	CL_W_B	SPARE																			5
215	04	AO	CL_W_B SPARE	CL_W_B	SPARE																			6
216	04	AO	CL_W_B SPARE	CL_W_B	SPARE																			7
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