#### SCADA I/O List - AEMO/ElectraNet

PSD1834-200-005

Prepared for

### **ENZEN/PACIFIC BLUE**



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### **Document Status**

Name	SCADA I/O List - AEMO/ElectraNet
Document Number	PSD1834-200-005
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Prepared For	ENZEN/PACIFIC BLUE
Revision	04
File Name	PSD1834-200-005-AEMO IO SCHEDULE-REV-04.xlsm
Classification	CONFIDENTIAL

### **Document History**

Rev	Revision Description	Date Issued	Reviewed By	Approved By
01	Not for Construction (Initial Issue)	06-09-2024	P.Hattingh	S.Hards
02	Not for Construction (Updated with comments)	13-09-2024	P.Hattingh	S.Hards
03	For Construction	07-02-2025	P.Hattingh	S.Hards
04	For Construction	17-04-2025	P.Hattingh	S.Hards

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# SCADA I/O List - AEMO/ElectraNet Summary

Sheet No.



#### 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



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IDX REV IO_TYPE	POINT DESCRIPTION	DEVICE	PTNAME	DI - ON DO - CLOSE	DI - OFF DO - TRIP	ALARM ID	NSC_PRIOR	RITY NSC_INV	NSC_TYPE NSC_CLASS	ANARANGE	ENG_LOW	ENG_HIGH	UNIT F	AW_LOW RAW_HI	GH DEADBAI	ND 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 3 A DI	D01-Q14 SWITCH INDICATION D01-Q19E SWITCH INDICATION	D01-Q14 D01-Q19E	SWITCH INDICATION SWITCH INDICATION	CLOSED OPEN	-	IND IND	S1 S1	FALSE FALSE	NC3P NC3P								1/2	2/2	1	1
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 6 A DI	1F01-Q10 SWITCH INDICATION 1F01-Q10 SWITCH INDICATION	1F01-Q10 1F01-Q10	SWITCH INDICATION SWITCH INDICATION	OPEN CLOSED	-	IND	S1 S1	FALSE FALSE	NC3P 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 9 A DI	1F01-Q11 SWITCH INDICATION 1F02-Q10 SWITCH INDICATION	1F01-Q11 1F02-Q10	SWITCH INDICATION SWITCH INDICATION	CLOSED OPEN	-	IND	S1 S1	FALSE FALSE	NC3P NC3P								1/2	2/2	1	8
10 A DI 11 A DI	1F02-Q10 SWITCH INDICATION	1F02-Q10 1F02-Q11	SWITCH INDICATION	CLOSED OPEN	-	IND	S1	FALSE	NC3P NC3P								1/2	2/2	1	9
11 A DI 12 A DI	1F02-Q11 SWITCH INDICATION 1F02-Q11 SWITCH INDICATION	1F02-Q11	SWITCH INDICATION SWITCH INDICATION	CLOSED	-	IND IND	S1 S1	FALSE FALSE	NC3P								1/2	2/2	1	11
13 A DI 14 A DI	1F03-Q10 SWITCH INDICATION 1F03-Q10 SWITCH INDICATION	1F03-Q10 1F03-Q10	SWITCH INDICATION SWITCH INDICATION	OPEN CLOSED	-	IND	S1 S1	FALSE	NC3P NC3P								1/2	2/2	1	12
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 17 A DI	1F03-Q11 SWITCH INDICATION 1F04-Q10 SWITCH INDICATION	1F03-Q11 1F04-Q10	SWITCH INDICATION SWITCH INDICATION	CLOSED OPEN	-	IND	S1 S1	FALSE FALSE	NC3P NC3P								1/2	2/2	1	15 16
18 A DI 19 A DI	1F04-Q10 SWITCH INDICATION	1F04-Q10 1F04-Q11	SWITCH INDICATION	CLOSED OPEN	-	IND IND	S1 S1	FALSE FALSE	NC3P NC3P								1/2	2/2	1	17 18
20 A DI	1F04-Q11 SWITCH INDICATION 1F04-Q11 SWITCH INDICATION	1F04-Q11	SWITCH INDICATION SWITCH INDICATION	CLOSED	-	IND	S1	FALSE	NC3P								1/2	2/2	1	19
21 A DI 22 A DI	1F05-Q10 SWITCH INDICATION 1F05-Q10 SWITCH INDICATION	1F05-Q10 1F05-Q10	SWITCH INDICATION SWITCH INDICATION	OPEN CLOSED	-	IND	S1 S1	FALSE	NC3P NC3P								1/2	2/2	1	20
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 25 A DI	1F05-Q11 SWITCH INDICATION 1F06-Q10 SWITCH INDICATION	1F05-Q11 1F06-Q10	SWITCH INDICATION SWITCH INDICATION	CLOSED OPEN	-	IND	S1 S1	FALSE	NC3P NC3P								1/2	2/2	1	23
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 28 A DI	1F06-Q11 SWITCH INDICATION 1F06-Q11 SWITCH INDICATION	1F06-Q11 1F06-Q11	SWITCH INDICATION SWITCH INDICATION	OPEN CLOSED	-	IND IND	S1 S1	FALSE FALSE	NC3P NC3P								1/2	2/2	1	26 27
29 A DI 30 A DI	1F07-Q10 SWITCH INDICATION 1F07-Q10 SWITCH INDICATION	1F07-Q10 1F07-Q10	SWITCH INDICATION SWITCH INDICATION	OPEN CLOSED	-	IND IND	S1 S1	FALSE FALSE	NC3P NC3P								1/2	2/2	1	28 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 33 04 DI	1F07-Q11 SWITCH INDICATION  CL_W_B VOLTAGE CONTROL	1F07-Q11 CL_W_B	SWITCH INDICATION VOLTAGE CONTROL	CLOSED ON	- OFF	IND G275	S1 G0	FALSE FALSE	NC3P NALM								1/2	2/2	1	31 32
34 04 DI	CL_W_B POWER FACTOR CONTROL	CL_W_B	POWER FACTOR CONTROL	ON	OFF OFF	G278	G0	FALSE	NALM								1/2	2/2	1	33
35 04 DI 36 04 DI	CL_W_B MVAR CONTROL CL_W_B MW CONTROL MODE	CL_W_B CL_W_B	MVAR CONTROL MW CONTROL MODE	ON REMOTE	LOCAL	G276 G330	G2 G2	FALSE FALSE	NO_P NO_P								1/2	2/2	1	34 35
37 04 DI 38 04 DI	CL_W_B FREQUENCY RESPONSE ACTIVE CL_W_B NLCAS ACTIVE	CL_W_B CL_W_B	FREQUENCY RESPONSE ACTIVE NLCAS ACTIVE	ALARM ON	CLEAR OFF	G323 DN03	G0 G0	FALSE FALSE	NO_P								1/2	2/2	1	36 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 41 04 DI	CL_W_B NLCAS TERMINATED CL_W_B AVAILABLE FOR VAR CONTROL	CL_W_B CL_W_B	NLCAS TERMINATED  AVAILABLE FOR VAR CONTROL	ALARM YES	CLEAR NO	DN05 VAVL	G0 G0	FALSE FALSE	NO_P								1/2	2/2	1	39 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 44 04 DI	CL_W_B VDS PARTICIPATION CL_W_B AVAILABLE FOR AGC	CL_W_B CL_W_B	VDS PARTICIPATION AVAILABLE FOR AGC	AVAILABLE YES	UNAVAILABLE NO	G350 G000	G0 G0	FALSE FALSE	NANP								1/2	2/2	1	42
45 04 DI 46 A DI	CL_W_B PERMISSIVE TO CLOSE T_1 X PROT TRIP	CL_W_B T_1	PERMISSIVE TO CLOSE X PROT TRIP	ON ALARM	OFF CLEAR	N207 K006	G2 G2	FALSE FALSE	NO_P								1/2	2/2	1	44 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 49 A DI	AUX_BCU DUM CB SWITCH INDICATION  AUX_BCU DUM CB SWITCH INDICATION	AUX_BCU AUX_BCU	DUM CB SWITCH INDICATION DUM CB SWITCH INDICATION	OPEN CLOSED	•	INDD	S0 S0	FALSE FALSE	NALM NALM								1/2	2/2	1	47
50 04 DI 51 04 DI	CL_W_B SPARE CL_W_B SPARE	CL_W_B CL_W_B	SPARE SPARE																	49 50
52 04 DI	CL_W_B SPARE CL_W_B SPARE	CL_W_B	SPARE																	51
53 04 DI 54 04 DI	CL_W_B SPARE CL_W_B SPARE	CL_W_B CL_W_B	SPARE SPARE																	52 53
55 04 DI	CL_W_B SPARE	CL_W_B	SPARE																	54
56 04 DI 57 04 DI	CL_W_B SPARE CL_W_B SPARE	CL_W_B CL_W_B	SPARE SPARE																	55 56
58 04 DI 59 04 DI	CL_W_B SPARE	CL_W_B	SPARE SPARE																	57 58
59 04 DI 60 04 DI	CL_W_B SPARE CL_W_B SPARE	CL_W_B CL_W_B	SPARE																	59
61 04 DI 62 04 DI	CL_W_B SPARE CL_W_B SPARE	CL_W_B CL_W_B	SPARE SPARE																	60
63 04 DI	CL_W_B SPARE	CL_W_B	SPARE																	62
64 04 DI 65 A DO	CL_W_B SPARE AUX_BCU DUM CB SWITCH INDICATION	CL_W_B AUX_BCU	SPARE DUM CB SWITCH INDICATION	OPEN		INDD	S0	FALSE	NALM							SBO / TRIP / PULSE ON	10 / 12	2/1	2	63 0
66 A DO 67 A DO	AUX_BCU DUM CB SWITCH INDICATION B_BESS_GEN VAR TIMING SIGNAL	AUX_BCU B_BESS_GEN	DUM CB SWITCH INDICATION  VAR TIMING SIGNAL	CLOSE	OFF	INDD VDSC	S0	FALSE	NALM							SBO / CLOSE / PULSE ON SBO / TRIP / CLOSE	10 / 12 10 / 12	2/1 2/1	2	1
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 70 04 DO	CG_WEST SPARE CL_W_B SPARE	CG_WEST CL_W_B	SPARE SPARE														10 / 12	2/1	2	5
71 04 DO 72 04 DO	CL_W_B SPARE	CL_W_B	SPARE SPARE														10 / 12	2/1	2	6
73 04 DO	CL_W_B SPARE CL_W_B SPARE	CL_W_B CL_W_B	SPARE														10 / 12 10 / 12	2/1 2/1	2	8
74 04 DO 75 04 DO	CL_W_B SPARE CL_W_B SPARE	CL_W_B CL_W_B	SPARE SPARE														10 / 12 10 / 12	2/1 2/1	2	9
76 04 DO	CL_W_B SPARE	CL_W_B	SPARE														10 / 12	2/1	2	11
77 04 DO 78 04 DO	CL_W_B SPARE CL_W_B SPARE	CL_W_B CL_W_B	SPARE SPARE														10 / 12 10 / 12	2/1	2	12 13
79 04 DO 80 04 DO	CL_W_B SPARE	CL_W_B	SPARE SPARE														10 / 12	2/1	2	14 15
81 A AI	CL_W_B SPARE CG_WEST PHASE R CURRENT (AMP)	CL_W_B CG_WEST	PHASE R CURRENT (AMP)			AMPR		-	ANALOG NA	0 - 480 A	0	480	Α (	4800	24		10 / 12 30 / 32	2/1 2/2	2	0
82 A AI 83 A AI	CG_WEST PHASE S CURRENT (AMP) CG_WEST PHASE T CURRENT (AMP)	CG_WEST CG_WEST	PHASE S CURRENT (AMP) PHASE T CURRENT (AMP)			AMPS AMPT		•	ANALOG NA ANALOG NA	0 - 480 A 0 - 480 A	0		A 0	4800 4800	24 24		30 / 32 30 / 32	2/2	2	1
84 A AI	CG_WEST VOLTAGE (KV) U-V PH	CG_WEST	VOLTAGE (KV) U-V PH			KV_U		-	ANALOG NA	0 - 158.4 kV	0	158.4	kV 0	1584	3		30 / 32	2/2	2	3
85 A AI 86 A AI	CG_WEST VOLTAGE (KV) V-W PH CG_WEST VOLTAGE (KV) W-U PH	CG_WEST CG_WEST	VOLTAGE (KV) V-W PH VOLTAGE (KV) W-U PH			KV_V KV_W		-	ANALOG NA ANALOG NA	0 - 158.4 kV 0 - 158.4 kV	0		kV C	1584 1584	3		30 / 32 30 / 32	2/2	2	5
87 A AI 88 A AI	CG_WEST ACTIVE POWER (MW) CG_WEST REACTIVE POWER (MVAR)	CG_WEST CG_WEST	ACTIVE POWER (MW) REACTIVE POWER (MVAR)			MW MVAR		-	ANALOG NA ANALOG NA	-109.74 - 109.74 M		109.74	MW -	10974 10974 10974 10974	1		30 / 32 30 / 32	1/1	2	6
89 A AI	CG_WEST FREQUENCY (HZ)	CG_WEST	FREQUENCY (HZ)			FREQ		-	ANALOG NA	45 - 55 Hz	45	55	Hz 4	500 5500	11		30 / 32	2/2	2	8
90 A AI 91 A AI	CG_WEST POWER FACTOR  T_1_INC PHASE 1 CURRENT (AMP)	CG_WEST T_1_INC	POWER FACTOR PHASE 1 CURRENT (AMP)			PF AMP1		-	ANALOG NA ANALOG NA	-1 - 1 PF 0 - 1920 A	-1 0		PF -	100 100	10		30 / 32 30 / 32	2/2	2	9
92 A AI	T_1_INC PHASE 2 CURRENT (AMP)	T_1_INC	PHASE 2 CURRENT (AMP)			AMP2		-	ANALOG NA	0 - 1920 A	0	1920	Α (	1920	10		30 / 32	2/2	2	11
93 A AI 94 A AI	T_1_INC PHASE 3 CURRENT (AMP) T_1_INC ACTIVE POWER (MW)	T_1_INC T_1_INC	PHASE 3 CURRENT (AMP) ACTIVE POWER (MW)			AMP3 MW		-	ANALOG NA ANALOG NA	0 - 1920 A -109.74 - 109.74 M	υ W -109.74		A C	1920 10974 10974	10		30 / 32 30 / 32	2/2	2	12
95 A AI 96 A AI	T_1_INC REACTIVE POWER (MVAR) T_1_INC POWER FACTOR	T_1_INC T_1_INC	REACTIVE POWER (MVAR) POWER FACTOR			MVAR PF		-	ANALOG NA ANALOG NA	-109.74 - 109.74 M		109.74	MW -	10974 10974 100 100	2		30 / 32 30 / 32	2/2	2	14 15
97 A AI	33BUS VOLTAGE (KV) 1-2 PH	33BUS	VOLTAGE (KV) 1-2 PH			KV_1		-	ANALOG NA	0 - 39.6 kV	0	39.6	kV 0	3960	8		30 / 32	2/2	2	16
98 A AI 99 A AI	33BUS VOLTAGE (KV) 2-3 PH 33BUS VOLTAGE (KV) 3-1 PH	33BUS 33BUS	VOLTAGE (KV) 2-3 PH VOLTAGE (KV) 3-1 PH			KV_2 KV_3		-	ANALOG NA ANALOG NA	0 - 39.6 kV 0 - 39.6 kV	0		kV C	3960 3960	8		30 / 32 30 / 32	2/2	2	17 18
100 A AI	33BUS FREQUENCY (HZ)	33BUS	FREQUENCY (HZ)			FREQ		-	ANALOG NA	45 - 55 Hz	45	55	Hz 4	500 5500	11		30 / 32	2/2	2	19
101 04 AI 102 04 AI	CL_W_B MW ACTIVE SETPOINT CL_W_B MVAR SETPOINT	CL_W_B CL_W_B	MW ACTIVE SETPOINT MVAR SETPOINT			MASP SPMV		-	ANALOG NA ANALOG NA	-60 to 60 MW -25 to 25 MVar	-60 -25			6000 6000 2500 2500	1		30 / 32 30 / 32	1/1	2	20
103 04 AI 104 04 AI	CL_W_B POWER FACTOR SETPOINT CL_W_B VOLTAGE SETPOINT	CL_W_B CL_W_B	POWER FACTOR SETPOINT VOLTAGE SETPOINT			SPPF SPKV		-	ANALOG NA	-1 - 1 PF	-1	1	PF -	1000 1000 0500 14500	2		30 / 32 30 / 32	1/1	2 2	22 23
104 U4 AI	OL_M_B VOLINGE SETPOINT	OL_W_B	VOLINGE SETFORM			OF'NV		-	ANALOG NA	105 - 145 kV	105	140	nv 1	0000 14000	1		30 / 32	17.1	۲	23

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IDX	REV I	O_TYPE	POINT DESCRIPTION	DEVICE	PTNAME	DI - ON DO - CLOSE	DI - OFF DO - TRIP	ALARM ID NSC_PRIORI	TY NSC_INV	NSC_TYPE NSC_CLASS	ANARANGE	ENG_LOW	ENG_HIGI	H UNIT	RAW_LOW	RAW_HIGH DEADBAND DNP Control Type	DNP OBJECT	DNP VARIATION	DNP POINT CLASS	DNP ADDRESS
	04 /			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
		AI		CL_W_B CL_W_B	MVAR REFERENCE VOLTAGE REFERENCE			MVRF VREF	-	ANALOG NA ANALOG NA	-25 to 25 MVar 105 - 145 kV	-25 105	25 145	MVar kV	-2500 10500	2500 1 14500 1	30 / 32 30 / 32	1/1	2	25 26
108	04 /	N .	CL_W_B POWER FACTOR REFERENCE (DISCHARGE		POWER FACTOR REFERENCE (DIS			PFRFC	-	ANALOG NA	-1 - 1 PF	-1	1	PF	-1000	1000 2	30 / 32	1/1	2	27
		AI AI		CL_W_B	POWER FACTOR REFERENCE (CHA MW REFERENCE	ARGE)		PFRFD MWRF		ANALOG NA ANALOG NA	-1 - 1 PF -60 to 60 MW	-1 -60	60	PF MW	-1000 -6000	1000 2 6000 1	30 / 32 30 / 32	1/1	2	28
	04 /	-		CL_W_B	NUMBER OF INVERTERS AVAILABL	E		INVA		ANALOG NA	0 - 25 Inverters	0	25	Inverters	0	25 0	30 / 32	1/1	2	30
	04 <i>/</i> 04 <i>/</i>	AI		CL_W_B	NUMBER OF INVERTERS RUNNING			INVB MWLS		ANALOG NA ANALOG NA	0 - 25 Inverters	0 -60	25 60	Inverters MW	0	25 0	30 / 32	1/1	2	31 32
	04 /			CL_W_B CL_W_B	MW LOCAL SETPOINT RAMP DOWN RATE (MW/MINUTE)			MWRD	-	ANALOG NA ANALOG NA	-60 to 60 MW 0 - 60 MW/MINUTE	0	60	MW/MINUT	-6000 TE 0	6000 1 6000 1	30 / 32 30 / 32	1/1	2	33
		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/MINUT		6000 1	30 / 32	1/1	2	34
		N N		CL_W_B CL_W_B	UNIT LOW MW LIMIT UNIT HIGH MW LIMIT			MWL MWH	-	ANALOG NA ANALOG NA	0 - 60 MW 0 - 60 MW	0	60	MW	0	6000 1 6000 1	30 / 32 30 / 32	1/1	2	35 36
	04 /			CL_W_B	ENERGY REMAINING (CHARGE)			MWERC	-	ANALOG NA	0 - 120 MWh	0	120	MWh	0	12000 1	30 / 32	1/1	2	37
		AI		CL_W_B CL_W_B	ENERGY REMAINING (DISCHARGE) FULL PACK ENERGY			MWERD NWFE	-	ANALOG NA ANALOG NA	0 - 120 MWh 0 - 120 MWh	0	120 120	MWh MWh	0	12000 1 12000 1	30 / 32 30 / 32	1/1	2	38
	04 /			CL_W_B	AVAILABLE MAXIMUM CAPACITY			MAXC	-	ANALOG NA	0 - 120 WW	0	120	%	0	12000 1	30 / 32	1/1	2	40
		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
		AI AI		CL_W_B CL_W_B	AVAILABLE CHARGE POWER LOCAL DISCHARGE LIMIT			POSPC MWLLD		ANALOG NA ANALOG NA	-60 to 60 MW -60 to 60 MW	-60 -60	60	MW	-6000 -6000	6000 1 6000 1	30 / 32 30 / 32	1/1	2	42
125	04 /		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
		AI		T_1 T 1	AVR SETPOINT VARIABLE (KV) TAP POSITION			SPAV TAP		ANALOG NA ANALOG NA	0 - 39.6 kV 0 - 25	0	39.6 25	kV	0	3960 8 25 0	30 / 32 30 / 32	1/1	2	45 46
128		N .	_	T_1_LV	PHASE 1 CURRENT (AMP)			AMP1	-	ANALOG NA	0 - 1920 A	0	1920	Α	0	1920 9	30 / 32	1/1	2	47
		AI AI		T_1_LV T_1_LV	PHASE 2 CURRENT (AMP) PHASE 3 CURRENT (AMP)			AMP2 AMP3	-	ANALOG NA ANALOG NA	0 - 1920 A 0 - 1920 A	0	1920 1920	A A	0	1920 9 1920 9	30 / 32 30 / 32	1/1	2	48
		AI		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
		AI .		T_1_LV	REACTIVE POWER (MVAR)			MVAR PF		ANALOG NA	-109.74 - 109.74 MW	-109.74	109.74	MW PF	-10974	10974 2	30 / 32	1/1	2	51 52
		AI		T_1_LV FILTER_1	POWER FACTOR REACTIVE POWER (MVAR)			MVAR		ANALOG NA ANALOG NA	-1 - 1 PF -15 - 15 MW	-15	15	MVar	-100 -1500	100 0 1500 2	30 / 32 30 / 32	1/1	2	53
	Α /		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
	A /	AI		CG_1 CG_2	ACTIVE POWER (MVAR) ACTIVE POWER (MW)			MVAR MW		ANALOG NA ANALOG NA	-27.43 - 27.43 MW -27.43 - 27.43 MW	-27.43 -27.43	27.43 27.43	MVar MW	-2743 -2743	2743 2 2743 2	30 / 32 30 / 32	1/1	2	55 56
138	Α /	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
		AI		CG_3	ACTIVE POWER (MW) REACTIVE POWER (MVAR)			MW MVAR	-	ANALOG NA ANALOG NA	-27.43 - 27.43 MW -27.43 - 27.43 MW	-27.43 -27.43	27.43 27.43	MW MVar	-2743 -2743	2743 2 2743 2	30 / 32 30 / 32	1/1	2	58
	A /			CG_4	ACTIVE POWER (MWAR)			MW		ANALOG NA	-27.43 - 27.43 MW	-27.43	27.43	MW	-2743	2743 2	30 / 32	1/1	2	60
		AI		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
	A /			CG_5	ACTIVE POWER (MW) REACTIVE POWER (MVAR)			MW MVAR	-	ANALOG NA ANALOG NA	-27.43 - 27.43 MW -27.43 - 27.43 MW	-27.43 -27.43	27.43 27.43	MW MVar	-2743 -2743	2743 2 2743 2	30 / 32 30 / 32	1/1	2	62
145		AI .	CL_W_B SPARE	CL_W_B	SPARE											-		·		64
	04 / 04 /			CL_W_B	SPARE SPARE															65
148	04 /	NI .	CL_W_B SPARE	CL_W_B	SPARE															67
	04 <i>/</i>	AI		CL_W_B CL W B	SPARE SPARE															68 69
	04 /	AI		CL_W_B	SPARE															70
		AI .		CL_W_B	SPARE															71
		N N		CL_W_B CL_W_B	SPARE SPARE															72 73
155	04 /	AI .	CL_W_B SPARE	CL_W_B	SPARE															74
	04 <i>/</i> 04 <i>/</i>	AI		CL_W_B CL_W_B	SPARE SPARE															75 76
	04 /			CL_W_B	SPARE															77
		AI .		CL_W_B	SPARE															78
	04 <i>/</i> 04 <i>/</i>	-		CL_W_B CL_W_B	SPARE SPARE															79 80
162	04 /		CL_W_B SPARE	CL_W_B	SPARE															81
	04 <i>/</i> 04 <i>/</i>			CL_W_B	SPARE SPARE															82 83
165	04 /	AJ .	CL_W_B SPARE	CL_W_B	SPARE															84
		AI AI		CL_W_B CL_W_B	SPARE SPARE															85 86
	04 /			CL_W_B	SPARE															87
	04 <i>/</i> 04 <i>/</i>			CL_W_B CL_W_B	SPARE SPARE															88 89
		N .		CL_W_B	SPARE															90
		NI.		CL_W_B	SPARE															91
		AI		CL_W_B CL_W_B	SPARE SPARE															92 93
175	04 /	N .	CL_W_B SPARE	CL_W_B	SPARE															94
		AI		CL_W_B CL_W_B	SPARE SPARE															95 96
178	04 /	N .	CL_W_B SPARE	CL_W_B	SPARE															97
	04 <i>/</i> 04 <i>/</i>			CL_W_B CL_W_B	SPARE SPARE															98 99
181	04 /	N .	CL_W_B SPARE	CL_W_B	SPARE															100
		AI		CL_W_B CL_W_B	SPARE SPARE															101
		N N		CL_W_B	SPARE															102 103
185	04 /	NI	CL_W_B SPARE	CL_W_B	SPARE															104
		AI AI		CL_W_B CL_W_B	SPARE SPARE															105 106
188	04 /	AI .	CL_W_B SPARE	CL_W_B	SPARE															107
		AI		CL_W_B CL_W_B	SPARE SPARE															108 109
191	04 /	AI .	CL_W_B SPARE	CL_W_B	SPARE															110
	04 <i>/</i> 04 <i>/</i>			CL_W_B CL_W_B	SPARE SPARE															111 112
	04 <i>/</i>		CL_W_B SPARE	CL_W_B	SPARE															113
195	04 /	AI .	CL_W_B SPARE	CL_W_B	SPARE															114
	04 <i>/</i> 04 <i>/</i>	AI		CL_W_B CL_W_B	SPARE SPARE															115 116
198	04 /	N .	CL_W_B SPARE	CL_W_B	SPARE															117
	04 <i>/</i> 04 <i>/</i>	AI		CL_W_B CL_W_B	SPARE SPARE															118 119
201	04 /	AI	CL_W_B SPARE	CL_W_B	SPARE															120
		AI	CL_W_B SPARE	CL_W_B	SPARE SPARE															121
		AI		CL_W_B CL_W_B	SPARE															122 123
205	04 /	AI .	CL_W_B SPARE	CL_W_B	SPARE															124
		AI AI		CL_W_B CL_W_B	SPARE SPARE															125 126
	04 /			CL_W_B	SPARE															127

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## SCADA I/O List - AEMO/ElectraNet DNP I/O Schedule

Sheet No. 3



IDX	REV	IO_TYPI	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_HI	GH UNIT	RAW_LOW	RAW_HIGH	I 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
217																						
218																						
219																						
220																						
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222 223																						
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225 226																						
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