MPS Link Node Inputs: 2023-07-28-b

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1 Link Node 10

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI20:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI20	STATE
□	1	2	VVPG:LI20:1:POSITION	SLOW_VLV_OPEN_LI20	STATE
□	1	3	VVFS:LI20:1:FAST_VLV	FAST_VLV_OPEN_LI20	STATE
□	1	4	MMG:LI20:1:MM_GAUGE	MPS_MM_GAUGE_OK_LI20	STATE
□	1	5	PPS:LI20:72:SECTOR	PPS_SECTOR_OK_SECURE_LI20	STATE
□	1	6	SBST:LI20:1:SBST_OK	MPS_SBST_OK_READY_LI20	STATE
□	1	7	VVS:LI20:1:BREAKER	VVS_BRKR_OK_READY_LI20	STATE
□	1	8	STPR:LI20:1:BASII_POS	BK_BEAM_STPR_LI20	STATE
□	1	9	DUMP:LI20:1:FLOW_SW	DUMP_20_1_FS	STATE
□	1	10	PLIC:LI20:1:SUM	PIC_SUM_LI20	STATE
□	1	11	PICM:LI20:1:HV_PWR	PICM_LI20_1_HV_PWR	STATE
□	2	1	BEND:DMP1:400:BACT_WDOG	BEND_DMP1_400_BACT_WDOG	STATE
□	3	1	MPS:IN20:200:LHSHT1_OUT	MPS_IN20_200_LHSHT1_OUT	FAULT
□	3	2	MPS:IN20:200:LHSHT1_IN	MPS_IN20_200_LHSHT1_IN	FAULT
□	3	3	MPS:IN20:200:LHSHT2_OUT	MPS_IN20_200_LHSHT2_OUT	FAULT
□	3	4	MPS:IN20:200:LHSHT2_IN	MPS_IN20_200_LHSHT2_IN	FAULT
□	3	5	MPS:IN20:200:MSHT1_OUT	MPS_IN20_200_MSHT1_OUT	FAULT
□	3	6	MPS:IN20:200:MSHT1_IN	MPS_IN20_200_MSHT1_IN	FAULT
□	3	7	MPS:IN20:200:MSHT2_OUT	MPS_IN20_200_MSHT2_OUT	FAULT
□	3	8	MPS:IN20:200:MSHT2_IN	MPS_IN20_200_MSHT2_IN	FAULT
□	3	9	MPS:IN20:200:ANDALLACTV	MPS_IN20_200_ANDALLACTV	STATE
□	3	10	MPS:IN20:200:ANDCH1ACTV	MPS_IN20_200_ANDCH1ACTV	STATE
□	3	11	MPS:IN20:200:ANDCH2ACTV	MPS_IN20_200_ANDCH2ACTV	STATE
□	3	12	MPS:IN20:200:ANDCH3ACTV	MPS_IN20_200_ANDCH3ACTV	STATE
□	3	13	MPS:IN20:200:ANDCH4ACTV	MPS_IN20_200_ANDCH4ACTV	STATE
□	3	14	MPS:IN20:200:ANDCH5ACTV	MPS_IN20_200_ANDCH5ACTV	STATE
□	3	15	MPS:IN20:200:ANDCH6ACTV	MPS_IN20_200_ANDCH6ACTV	STATE
□	3	16	MPS:IN20:200:ANDCH7ACTV	MPS_IN20_200_ANDCH7ACTV	STATE
□	4	1	MPS:IN20:200:ANDCH8ACTV	MPS_IN20_200_ANDCH8ACTV	STATE
□	4	2	USEG:UND1:1:ALL_OUT	USEG_UND1_1_ALL_OUT	STATE
□	4	3	XTAL:FEE1:441:PULSEENERGY	XTAL_FEE1_441_PULSEENERGY	THRESHOLD
□	5	1	MPS:IN20:100:ANDALLACTV	MPS_IN20_100_ANDALLACTV	STATE
□	5	2	MPS:IN20:100:ANDCH1ACTV	MPS_IN20_100_ANDCH1ACTV	STATE
□	5	3	MPS:IN20:100:ANDCH2ACTV	MPS_IN20_100_ANDCH2ACTV	STATE
□	5	4	MPS:IN20:100:ANDCH3ACTV	MPS_IN20_100_ANDCH3ACTV	STATE
□	5	5	MPS:IN20:100:ANDCH4ACTV	MPS_IN20_100_ANDCH4ACTV	STATE
□	5	6	MPS:IN20:100:ANDCH5ACTV	MPS_IN20_100_ANDCH5ACTV	STATE
□	5	7	MPS:IN20:100:ANDCH6ACTV	MPS_IN20_100_ANDCH6ACTV	STATE

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	5	8	MPS:IN20:100:ANDCH7ACTV	MPS_IN20_100_ANDCH7ACTV	STATE
□	5	9	MPS:IN20:100:ANDCH8ACTV	MPS_IN20_100_ANDCH8ACTV	STATE

2 Link Node 11

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	VVPG:IN20:155:POSITION	VV_BL155	STATE
□	1	2	VVPG:IN20:435:POSITION	VV_BL435	STATE
□	1	3	VVPG:IN20:545:POSITION	VV_BL545	STATE
□	1	4	VVPG:IN20:635:POSITION	VV_BL635	STATE
□	1	5	VVPG:IN20:915:POSITION	VV_IS915	STATE
□	1	6	VVMG:IN20:175:POSITION	VV_BL175	STATE
□	1	7	VVMG:LI21:196:POSITION	VV_BL195	STATE
□	1	8	MKSU:LI20:61:WGVACSUM	WGVACGUN	STATE
□	1	9	YAGS:IN20:211:OUT_LMTSW	YAGS_IN20_211_OUT_LMTSW	STATE
□	1	10	YAGS:IN20:211:IN_LMTSW	YAGS_IN20_211_IN_LMTSW	STATE
□	1	11	YAGS:IN20:241:OUT_LMTSW	YAGS_IN20_241_OUT_LMTSW	STATE
□	1	12	YAGS:IN20:241:IN_LMTSW	YAGS_IN20_241_IN_LMTSW	STATE
□	1	13	YAGS:IN20:351:OUT_LMTSW	YAGS_IN20_351_OUT_LMTSW	STATE
□	1	14	YAGS:IN20:351:IN_LMTSW	YAGS_IN20_351_IN_LMTSW	STATE
□	1	15	YAGS:IN20:471:OUT_LMTSW	YAGS_IN20_471_OUT_LMTSW	STATE
□	1	16	YAGS:IN20:471:IN_LMTSW	YAGS_IN20_471_IN_LMTSW	STATE
□	2	1	YAGS:IN20:841:OUT_LMTSW	YAGS_IN20_841_OUT_LMTSW	STATE
□	2	2	YAGS:IN20:841:IN_LMTSW	YAGS_IN20_841_IN_LMTSW	STATE
□	2	3	YAGS:IN20:921:OUT_LMTSW	YAGS_IN20_921_OUT_LMTSW	STATE
□	2	4	YAGS:IN20:921:IN_LMTSW	YAGS_IN20_921_IN_LMTSW	STATE
□	2	5	YAGS:LI21:995:OUT_LMTSW	YAGS_LI21_995_OUT_LMTSW	STATE
□	2	6	YAGS:LI21:995:IN_LMTSW	YAGS_LI21_995_IN_LMTSW	STATE
□	2	7	OTRS:IN20:541:OUT_LMTSW	OTRS_IN20_541_OUT_LMTSW	STATE
□	2	8	OTRS:IN20:541:IN_LMTSW	OTRS_IN20_541_IN_LMTSW	STATE
□	2	9	OTRS:IN20:571:OUT_LMTSW	OTRS_IN20_571_OUT_LMTSW	STATE
□	2	10	OTRS:IN20:571:IN_LMTSW	OTRS_IN20_571_IN_LMTSW	STATE
□	2	11	OTRS:IN20:621:OUT_LMTSW	OTRS_IN20_621_OUT_LMTSW	STATE
□	2	12	OTRS:IN20:621:IN_LMTSW	OTRS_IN20_621_IN_LMTSW	STATE
□	2	13	OTRS:IN20:711:OUT_LMTSW	OTRS_IN20_711_OUT_LMTSW	STATE
□	2	14	OTRS:IN20:711:IN_LMTSW	OTRS_IN20_711_IN_LMTSW	STATE
□	2	15	OTRS:IN20:991:OUT_LMTSW	OTRS_IN20_991_OUT_LMTSW	STATE
□	2	16	OTRS:IN20:991:IN_LMTSW	OTRS_IN20_991_IN_LMTSW	STATE
□	3	1	OTRS:LI21:237:OUT_LMTSW	OTRS_LI21_237_OUT_LMTSW	STATE
□	3	2	OTRS:LI21:237:IN_LMTSW	OTRS_LI21_237_IN_LMTSW	STATE
□	3	3	OTRS:LI21:291:OUT_LMTSW	OTRS_LI21_291_OUT_LMTSW	STATE
□	3	4	OTRS:LI21:291:IN_LMTSW	OTRS_LI21_291_IN_LMTSW	STATE
□	3	5	TORO:IN20:215:CHASIM11	CHASIM11	STATE
□	3	6	TORO:IN20:431:CHASIM12	CHASIM12	STATE

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	3	7	MIRR:IN20:191:AM1_OUT	MR_BL191	STATE
□	3	8	WKFL:IN20:231:OUT	WL_BL231_OUT	STATE
□	3	9	WKFL:IN20:231:IN	WL_BL231_IN	STATE
□	3	10	TIU:LI20:1:RECEIVER	TIU_2921	STATE
□	3	11	COLL:LI21:235:KLIXON	CE11_KLIXON	STATE
□	3	12	DUMP:LI21:305:FLOW_SW	FS_BL305	STATE
□	3	13	FLTR:IN20:130:FLT1_OUT	LHATTEN_OUT_LIMIT	STATE
□	3	14	FLTR:IN20:130:FLT1_IN	LHATTEN_IN_LIMIT	STATE
□	3	15	FLTR:IN20:450:FLT1_OUT	LHPHD_OUT_LIMIT	STATE
□	3	16	FLTR:IN20:450:FLT1_IN	LHPHD_IN_LIMIT	STATE
□	4	1	STPR:IN20:BL551:POSITION	ST_BL551	STATE
□	4	2	TORO:IN20:BL215:MPS_STATE	TR_BL215	STATE
□	4	3	TORO:IN20:203:TC203L1	TC203L1	STATE
□	4	4	TORO:IN20:203:TC203L2	TC203L2	STATE
□	4	5	TORO:IN20:971:TC2S1L1	TC2S1L1	STATE
□	4	6	TORO:IN20:971:TC2S1L2	TC2S1L2	STATE
□	4	7	TORO:LI21:205:TCBC1L1	TCBC1L1	STATE
□	4	8	TORO:LI21:205:TCBC1L2	TCBC1L2	STATE
□	4	9	DUMP:LI21:305:TD11_OUT	TD11_OUT_LIMIT	STATE
□	4	10	DUMP:LI21:305:TD11_IN	TD11_IN_LIMIT	STATE
□	4	11	STPR:LI20:1:BASII_OUT	BASII_ST_OUT_LIMIT	STATE
□	4	12	STPR:LI20:1:BASII_IN	BASII_ST_IN_LIMIT	STATE
□	4	14	XTAL:UNDH:2850:POSITIONSTAT	XTAL_UNDH_2850_POSITIONSTAT	STATE
□	4	15	BEND:DMPH:400:INTOL_BRANGE	BEND_DMPH_400_INTOL_BRANGE	STATE
□	4	16	OTRS:IN20:471:IN_LMTSW	OTRH2_IN_LIMIT	STATE
□	5	1	SEPT:LI19:172:HLAM_ENB	HLAM_ENB	STATE
□	5	2	KICK:LI20:7:EKIC_ENB	EKIC_ENB	STATE
□	5	3	JMTR:IN20:1:JOULEMTR	JOULEMTR	STATE
□	5	4	JMTR:IN20:2:JOULEMTR2	JOULEMTR2	STATE
□	5	5	COLL:LI21:235:OUT_LMTSW	CE11_X1_X2_MOTOR	STATE
□	5	6	MOVR:LI21:235:BC1_POS_OK	BC1_CHICANE	STATE
□	5	7	BEND:UNDH:2810:INTOL_BMIN	BEND_UNDH_2810_INTOL_BMIN	STATE
□	5	8	MBRC:LI20:8:BEAMPERM	BEAM_PERMIT	STATE
□	5	9	OTRS:IN20:465:OUT_LMTSW	OTRH1_OUT_LIMIT	STATE
□	5	10	OTRS:IN20:465:IN_LMTSW	OTRH1_IN_LIMIT	STATE
□	5	11	OTRS:IN20:471:OUT_LMTSW	OTRH2_OUT_LIMIT	STATE
□	5	12	BLEN:LI21:265:BL11_OUT	MIR_BL11_OUT	STATE
□	5	13	BLEN:LI21:265:BL11_IN	MIR_BL11_IN	STATE
□	5	14	MBRC:IN20:1:SS_MODE	SS_MODE	STATE
□	5	15	MBRC:IN20:1:SS_REQST	SS_REQST	STATE
□	5	16	COLL:LI21:235:FLOW_SW	COLL_LI21_235_OPEN	STATE

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	6	1	SHUT:IN20:1:FAULT	SHFLT	STATE
□	6	2	SHUT:IN20:1:BYPASS	SHFLTBYP	STATE
□	6	3	BEND:IN20:751:STATE_ON	BEND_IN20_751_OK	STATE
□	6	4	BEND:IN20:751:STATE_OFF	BEND_IN20_751_OFF	STATE
□	6	5	BEND:IN20:231:STATE_ON	BEND_IN20_231_OK	STATE
□	6	6	BEND:IN20:231:STATE_OFF	BEND_IN20_231_OFF	STATE
□	6	7	BEND:IN20:931:STATE_ON	BEND_IN20_931_OK	STATE
□	6	8	BEND:IN20:931:STATE_OFF	BEND_IN20_931_OFF	STATE
□	6	9	XTAL:UNDH:2850:IN_ENCDR	XTAL_UNDH_2850_IN_ENCDR	STATE
□	6	10	MIRR:FEE1:1560:ENERGY	MIRR_FEE1_1560_ENERGY	STATE
□	6	11	IOC:IN20:MP01:HEARTBEATSUM	MN_HEART	STATE
□	6	12	XTAL:FEE1:441:ENERGY	XTAL_FEE1_441_ENERGY	STATE
□	6	15	VVFV:IN20:785:OPEN_LMTSW	VVFV_IN20_785_OPEN_LMTSW	POSITION
□	6	16	KLYS:LI20:61:PEAKPOWER	FLT_20_6_TRP	STATE
□	7	8	PICM:IN20:665:NO_TRIG	PICM_IN20_665_NO_TRIG	MISSED
□	9	1	PICM:IN20:665:LOSSL	PICM_IN20_665_LOSSL	THRESHOLD
□	9	2	PICM:IN20:665:LOSSH	PICM_IN20_665_LOSSH	THRESHOLD
□	10	1	PICM:IN20:775:LOSSL	PICM_IN20_775_LOSSL	THRESHOLD
□	10	2	PICM:IN20:775:LOSSH	PICM_IN20_775_LOSSH	THRESHOLD
□	11	1	PICM:IN20:933:LOSSL	PICM_IN20_933_LOSSL	THRESHOLD
□	11	2	PICM:IN20:933:LOSSH	PICM_IN20_933_LOSSH	THRESHOLD
□	12	1	PICM:IN20:185:LOSSL	PICM_IN20_185_LOSSL	THRESHOLD
□	12	2	PICM:IN20:185:LOSSH	PICM_IN20_185_LOSSH	THRESHOLD
□	13	1	PICM:IN20:232:LOSSL	PICM_IN20_232_LOSSL	THRESHOLD
□	13	2	PICM:IN20:232:LOSSH	PICM_IN20_232_LOSSH	THRESHOLD
□	14	1	PICM:IN20:245:LOSSL	PICM_IN20_245_LOSSL	THRESHOLD
□	14	2	PICM:IN20:245:LOSSH	PICM_IN20_245_LOSSH	THRESHOLD

3 Link Node 12

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	2	VVPG:LI21:1:POSITION	SLOW_VLV_OPEN_LI21	STATE
□	1	4	MMG:LI21:1:MM_GAUGE	MPS_MM_GAUGE_OK_LI21	STATE
□	1	5	PPS:LI21:72:SECTOR	PPS_SECTOR_OK_SECURE_LI21	STATE
□	1	6	SBST:LI21:1:SBST_OK	MPS_SBST_OK_READY_LI21	STATE

4 Link Node 13

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI22:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI22	STATE
□	1	2	VVPG:LI22:1:POSITION	SLOW_VLV_OPEN_LI22	STATE
□	1	3	VVFS:LI22:1:FAST_VLV	FAST_VLV_OPEN_LI22	STATE
□	1	4	MMG:LI22:1:MM_GAUGE	MPS_MM_GAUGE_OK_LI22	STATE
□	1	5	PPS:LI22:72:SECTOR	PPS_SECTOR_OK_SECURE_LI22	STATE
□	1	6	SBST:LI22:1:SBST_OK	MPS_SBST_OK_READY_LI22	STATE
□	1	7	VVS:LI22:1:BREAKER	VVS_BRKR_OK_READY_LI22	STATE

5 Link Node 14

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI23:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI23	STATE
□	1	2	VVPG:LI23:1:POSITION	SLOW_VLV_OPEN_LI23	STATE
□	1	3	VVFS:LI23:1:FAST_VLV	FAST_VLV_OPEN_LI23	STATE
□	1	4	MMG:LI23:1:MM_GAUGE	MPS_MM_GAUGE_OK_LI23	STATE
□	1	5	PPS:LI23:72:SECTOR	PPS_SECTOR_OK_SECURE_LI23	STATE
□	1	6	SBST:LI23:1:SBST_OK	MPS_SBST_OK_READY_LI23	STATE

6 Link Node 15

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI24:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI24	STATE
□	1	2	VVPG:LI24:1:POSITION	SLOW_VLV_OPEN_LI24	STATE
□	1	3	VVFS:LI24:1:FAST_VLV	FAST_VLV_OPEN_LI24	STATE
□	1	4	MMG:LI24:1:MM_GAUGE	MPS_MM_GAUGE_OK_LI24	STATE
□	1	5	PPS:LI24:72:SECTOR	PPS_SECTOR_OK_SECURE_LI24	STATE
□	1	6	SBST:LI24:1:SBST_OK	MPS_SBST_OK_READY_LI24	STATE
□	1	7	VVS:LI24:1:BREAKER	VVS_BRKR_OK_READY_LI24	STATE
□	1	11	PICM:LI24:1:HV_PWR	PICM_LI24_1_HV_PWR	STATE
□	1	14	TORO:LI24:707:TCBC2L1	TCBC2L1	STATE
□	1	15	TORO:LI24:707:TCBC2L2	TCBC2L2	STATE
□	1	16	TORO:LI24:1:CHASIMB2	CHASIMB2	STATE

7 Link Node 16

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	OTRS:LI24:807:OUT_LMTSW	OTRS_LI24_807_OUT_LMTSW	STATE
□	1	2	OTRS:LI24:807:IN_LMTSW	OTRS_LI24_807_IN_LMTSW	STATE
□	1	5	OTRS:LI25:920:OUT_LMTSW	OTR_TCAV_OUT	STATE
□	1	6	OTRS:LI25:920:IN_LMTSW	OTR_TCAV_IN	STATE
□	1	7	CHIC:LI24:790:BC2_LGPS	BC2_LGPS	STATE
□	1	8	PICM:LI24:1:GAS_PRESS	PIC_GAS_PRESS	STATE
□	1	9	BLEN:LI25:886:BL22_OUT	BL22_OUT	STATE
□	1	10	BLEN:LI25:886:BL22_IN	BL22_IN	STATE
□	1	11	COLL:LI24:805:POSITION	COL_805	STATE
□	1	12	COLL:LI24:805:FLOW_SW	COL_805_FLOSW	STATE
□	1	13	VVPG:LI24:710:POSITION	VV21	STATE
□	1	14	VVPG:LI24:896:POSITION	VV22	STATE
□	1	15	CHIC:LI24:805:BC2_POS_OK	BC2_CHICANE	STATE
□	1	16	CHIC:LI24:790:BC2_BEND	BC2_BEND	STATE
□	7	8	PICM:LI24:791:NO_TRIG	PICM_LI24_791_NO_TRIG	MISSED
□	9	1	PICM:LI24:791:LOSSL	PICM_LI24_791_LOSSL	THRESHOLD
□	9	2	PICM:LI24:791:LOSSH	PICM_LI24_791_LOSSH	THRESHOLD
□	10	1	PICM:LI24:811:LOSSL	PICM_LI24_811_LOSSL	THRESHOLD
□	10	2	PICM:LI24:811:LOSSH	PICM_LI24_811_LOSSH	THRESHOLD

8 Link Node 17

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI25:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI25	STATE
□	1	3	VVFS:LI25:1:FAST_VLV	FAST_VLV_OPEN_LI25	STATE
□	1	4	MMG:LI25:1:MM_GAUGE	MPS_MM_GAUGE_OK_LI25	STATE
□	1	5	PPS:LI25:72:SECTOR	PPS_SECTOR_OK_SECURE_LI25	STATE
□	1	6	SBST:LI25:1:SBST_OK	MPS_SBST_OK_READY_LI25	STATE

9 Link Node 18

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI26:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI26	STATE
□	1	2	VVPG:LI26:1:POSITION	SLOW_VLV_OPEN_LI26	STATE
□	1	3	VVFS:LI26:1:FAST_VLV	FAST_VLV_OPEN_LI26	STATE
□	1	4	MMG:LI26:1:MM_GAUGE	MPS_MM_GAUGE_OK_LI26	STATE
□	1	5	PPS:LI26:72:SECTOR	PPS_SECTOR_OK_SECURE_LI26	STATE
□	1	6	SBST:LI26:1:SBST_OK	MPS_SBST_OK_READY_LI26	STATE
□	1	7	VVS:LI26:1:BREAKER	VVS_BRKR_OK_READY_LI26	STATE

10 Link Node 19

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI27:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI27	STATE
□	1	2	VVPG:LI27:1:POSITION	SLOW_VLV_OPEN_LI27	STATE
□	1	3	VVFS:LI27:1:FAST_VLV	FAST_VLV_OPEN_LI27	STATE
□	1	4	MMG:LI27:1:MM_GAUGE	MPS_MM_GAUGE_OK_LI27	STATE
□	1	5	PPS:LI27:72:SECTOR	PPS_SECTOR_OK_SECURE_LI27	STATE
□	1	6	SBST:LI27:1:SBST_OK	MPS_SBST_OK_READY_LI27	STATE

11 Link Node 20

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI28:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI28	STATE
□	1	2	VVPG:LI28:1:POSITION	SLOW_VLV_OPEN_LI28	STATE
□	1	3	VVFS:LI28:1:FAST_VLV	FAST_VLV_OPEN_LI28	STATE
□	1	4	MMG:LI28:1:MM_GAUGE	MPS_MM_GAUGE_OK_LI28	STATE
□	1	5	PPS:LI28:72:SECTOR	PPS_SECTOR_OK_SECURE_LI28	STATE
□	1	6	SBST:LI28:1:SBST_OK	MPS_SBST_OK_READY_LI28	STATE
□	1	7	VVS:LI28:1:BREAKER	VVS_BRKR_OK_READY_LI28	STATE
□	1	9	DUMP:LI28:5879:KLIXON	DUMP_5879_KLIXON_OK	STATE
□	1	10	DUMP:LI28:5879:FLOW_SW	DUMP_5879_FLOW_SW	STATE
□	1	11	STPR:LI28:950:BASII_IN	BASII_STOPPER_IN	STATE
□	1	12	STPR:LI28:950:BASII_OUT	BASII_STOPPER_OUT	STATE

12 Link Node 21

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI29:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI29	STATE
□	1	2	VVPG:LI29:1:POSITION	SLOW_VLV_OPEN_LI29	STATE
□	1	3	VVFS:LI29:1:FAST_VLV	FAST_VLV_OPEN_LI29	STATE
□	1	4	MMG:LI29:1:MM_GAUGE	MPS_MM_GAUGE_OK	STATE
□	1	5	PPS:LI29:72:SECTOR	PPS_SECTOR_OK_SECURE_LI29	STATE
□	1	6	SBST:LI29:1:SBST_OK	MPS_SBST_OK_READY_LI29	STATE
□	1	7	COLL:LI29:96:28_9_FS	FLOW_SW_28_9	STATE
□	1	8	COLL:LI29:146:29_1_FS	FLOW_SW_29_1	STATE
□	1	9	COLL:LI29:446:29_4_FS	FLOW_SW_29_4	STATE
□	1	10	COLL:LI29:546:29_5_FS	FLOW_SW_29_5	STATE
□	1	11	PLIC:LI29:1:SYS_OK	PLIC_SYSTEM_OK	STATE

13 Link Node 22

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	COLL:LI30:900:SCRAPER_FS	MPS_SCRAPPER_FLOW_OK_LI30	STATE
□	1	2	VVPG:LI30:1:POSITION	SLOW_VLV_OPEN_LI30	STATE
□	1	3	VVFS:LI30:1:FAST_VLV	FAST_VLV_OPEN_LI30	STATE
□	1	4	MMG:LI30:1:MM_GAUGE	MPS_MM_GAUGE_30_5_OK	STATE
□	1	5	PPS:LI30:72:SECTOR	PPS_SECTOR_OK_SECURE_LI30	STATE
□	1	6	SBST:LI30:1:SBST_OK	MPS_SBST_OK_READY_LI30	STATE
□	1	7	VVS:LI30:1:BREAKER	VVS_BRKR_OK_READY_LI30	STATE
□	1	8	VVPG:LI30:43:SLOW_VLV30_9	SLOW_VLV_30_9_OK_OPEN	STATE
□	1	9	MMG:LI30:1:MMG30_9	MPS_MM_GAUGE_30_9_OK	STATE
□	1	13	COLL:LI30:96:29_9_FS	FLOW_SW_29_9	STATE
□	1	14	COLL:LI30:146:30_1_FS	FLOW_SW_30_1	STATE
□	1	15	COLL:LI30:446:30_4_FS	FLOW_SW_30_4	STATE
□	1	16	COLL:LI30:546:30_5_FS	FLOW_SW_30_5	STATE
□	2	1	PICM:LI30:1:HV_PWR	PICM_LI30_1_HV_PWR	STATE
□	7	8	PICM:LI28:916:NO_TRIG	PICM_LI28_916_NO_TRIG	MISSED
□	9	1	PICM:LI28:916:LOSSL	PICM_LI28_916_LOSSL	THRESHOLD
□	9	2	PICM:LI28:916:LOSSH	PICM_LI28_916_LOSSH	THRESHOLD
□	10	1	PICM:LI29:146:LOSSL	PICM_LI29_146_LOSSL	THRESHOLD
□	10	2	PICM:LI29:146:LOSSH	PICM_LI29_146_LOSSH	THRESHOLD
□	11	1	PICM:LI29:446:LOSSL	PICM_LI29_446_LOSSL	THRESHOLD
□	11	2	PICM:LI29:446:LOSSH	PICM_LI29_446_LOSSH	THRESHOLD
□	12	1	PICM:LI29:546:LOSSL	PICM_LI29_546_LOSSL	THRESHOLD
□	12	2	PICM:LI29:546:LOSSH	PICM_LI29_546_LOSSH	THRESHOLD
□	13	1	PICM:LI29:801:LOSSL	PICM_LI29_801_LOSSL	THRESHOLD
□	13	2	PICM:LI29:801:LOSSH	PICM_LI29_801_LOSSH	THRESHOLD
□	17	1	PICM:LI29:956:LOSSL	PICM_LI29_956_LOSSL	THRESHOLD
□	17	2	PICM:LI29:956:LOSSH	PICM_LI29_956_LOSSH	THRESHOLD
□	18	1	PICM:LI30:146:LOSSL	PICM_LI30_146_LOSSL	THRESHOLD
□	18	2	PICM:LI30:146:LOSSH	PICM_LI30_146_LOSSH	THRESHOLD
□	19	1	PICM:LI30:446:LOSSL	PICM_LI30_446_LOSSL	THRESHOLD
□	19	2	PICM:LI30:446:LOSSH	PICM_LI30_446_LOSSH	THRESHOLD
□	20	1	PICM:LI30:546:LOSSL	PICM_LI30_546_LOSSL	THRESHOLD
□	20	2	PICM:LI30:546:LOSSH	PICM_LI30_546_LOSSH	THRESHOLD
□	21	1	PICM:LI30:801:LOSSL	PICM_LI30_801_LOSSL	THRESHOLD
□	21	2	PICM:LI30:801:LOSSH	PICM_LI30_801_LOSSH	THRESHOLD

14 Link Node 23

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	KICK:BSY0:66:PM1_ON	KICK_BSY0_66_PM1_ON	STATUS
□	2	2	KICK:BSY0:66:PM1_OFF	KICK_BSY0_66_PM1_OFF	STATUS
□	2	3	KICK:BSY0:66:PM1_TRIG_ENB	KICK_BSY0_66_PM1_TRIG_ENB	STATUS
□	2	4	KICK:BSY0:66:PM1_TRIG_LOCK	KICK_BSY0_66_PM1_TRIG_LOCK	STATUS
□	2	5	KICK:BSY0:66:PM2_ON	KICK_BSY0_66_PM2_ON	STATUS
□	2	6	KICK:BSY0:66:PM2_OFF	KICK_BSY0_66_PM2_OFF	STATUS
□	2	7	KICK:BSY0:66:PM2_TRIG_ENB	KICK_BSY0_66_PM2_TRIG_ENB	STATUS
□	2	8	KICK:BSY0:66:PM2_TRIG_LOCK	KICK_BSY0_66_PM2_TRIG_LOCK	STATUS

15 Link Node 25

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	HXRC:B969:1:ROOM_LEL	HXRC_B969_1_ROOM_LEL	THRESHOLD
□	1	2	HXRC:B969:1:RCBR_LEL	HXRC_B969_1_RCBR_LEL	THRESHOLD
□	1	3	HXRC:B969:1:TIMER	HXRC_B969_1_TIMER	STATE
□	1	4	STPR:BSYS:891:IN_LIMIT	STPR_BSYS_891_IN_LIMIT	POSITION
□	1	5	STPR:BSYS:891:OUT_LIMIT	STPR_BSYS_891_OUT_LIMIT	POSITION
□	1	6	VGFS:BSY0:2:FSG1_OK	FSG1_VAC_OK	STATE
□	1	7	VGFS:BSY0:2:FSG12_OK	FSG12_VAC_OK	STATE
□	1	8	VGFS:BSY0:2:FSG3_OK	FSG3_VAC_OK	STATE
□	1	9	VGFS:BSY0:2:FSG10_OK	FSG10_VAC_OK	STATE
□	1	10	STPR:BSYH:847:IN_LIMIT	STPR_BSYH_847_IN_LIMIT	POSITION
□	1	11	STPR:BSYH:847:OUT_LIMIT	STPR_BSYH_847_OUT_LIMIT	POSITION
□	1	12	STPR:CLTS:585:IN_LIMIT	STPR_CLTS_585_IN_LIMIT	POSITION
□	1	13	STPP:CLTS:585:OUT_LIMIT	STPP_CLTS_585_OUT_LIMIT	POSITION
□	2	2	MISC:MCC0:1:EMG_RAD_STOP	EMG_RAD_STOP	STATE
□	2	5	PPS:MCC0:1:BATTP24OVER	PPS_MCC0_1_BATTP24OVER	STATE
□	2	6	PPS:MCC0:1:BATTP24UNDER	PPS_MCC0_1_BATTP24UNDER	STATE
□	2	7	PPS:MCC0:1:BATTN24OVER	PPS_MCC0_1_BATTN24OVER	STATE
□	2	8	PPS:MCC0:1:BATTN24UNDER	PPS_MCC0_1_BATTN24UNDER	STATE
□	2	9	CHAS:MCC0:2:BTM_GAS	CHAS_MCC0_2_BTM_GAS	STATE
□	2	10	CHAS:MCC0:2:BAS2_BTM	CHAS_MCC0_2_BAS2_BTM	STATE
□	2	11	CHAS:MCC0:2:TEMP_SUM	CHAS_MCC0_2_TEMP_SUM	STATE
□	2	12	CHAS:MCC0:2:EPVTANK	CHAS_MCC0_2_EPVTANK	STATE
□	2	13	CHAS:MCC0:2:CCR_BAT	CHAS_MCC0_2_CCR_BAT	STATE
□	3	2	CHAS:MCC0:1:LNW_BSO	CHAS_MCC0_1_LNW_BSO	STATE
□	3	3	CHAS:MCC0:1:PPS30MCC	CHAS_MCC0_1_PPS30MCC	STATE
□	3	4	CHAS:MCC0:1:PPS_2_20	CHAS_MCC0_1_PPS_2_20	STATE
□	3	5	CHAS:MCC0:1:PPS_UND	CHAS_MCC0_1_PPS_UND	STATE
□	3	6	CHAS:MCC0:1:PPS_WE	CHAS_MCC0_1_PPS_WE	STATE
□	3	7	CHAS:MCC0:1:PPS_S2_S29	CHAS_MCC0_1_PPS_S2_S29	STATE
□	3	8	CHAS:MCC0:1:WE_BSOIC	CHAS_MCC0_1_WE_BSOIC	STATE
□	3	9	CHAS:MCC0:1:EE_BSOIC	CHAS_MCC0_1_EE_BSOIC	STATE
□	3	11	CHAS:MCC0:1:LCLSS20BSOIC	CHAS_MCC0_1_LCLSBSOIC	STATE
□	3	12	CHAS:MCC0:1:UNDBSOIC	CHAS_MCC0_1_UNDBSOIC	STATE
□	3	13	CHAS:MCC0:2:BSOIC_ANLG	CHAS_MCC0_2_BSOIC_ANLG	STATE
□	3	14	CHAS:MCC0:2:VAX_TEMP	CHAS_MCC0_2_VAX_TEMP	STATE
□	3	15	CHAS:MCC0:2:SITE_AIR	CHAS_MCC0_2_SITE_AIR	STATE
□	3	16	CHAS:MCC0:2:STPR409_TEMP	CHAS_MCC0_2_STPR409_TEMP	STATE
□	4	2	CHAS:MCC0:1:VDPS_TEMP	CHAS_MCC0_1_VDPS_TEMP	STATE

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	4	3	CHAS:MCC0:1:DR_LCW	CHAS_MCC0_1_DR_LCW	STATE
□	4	5	CHAS:MCC0:1:MCC_PLIC	CHAS_MCC0_1_MCC_PLIC	STATE
□	4	6	CHAS:MCC0:1:MCC_BAT	CHAS_MCC0_1_MCC_BAT	STATE
□	4	9	CHAS:MCC0:1:1200_LEVEL	CHAS_MCC0_1_1200_LEVEL	STATE
□	4	10	CHAS:MCC0:1:1200_PUMP	CHAS_MCC0_1_1200_PUMP	STATE
□	4	11	CHAS:MCC0:1:1201_PUMP	CHAS_MCC0_1_1201_PUMP	STATE
□	4	12	CHAS:MCC0:1:1202_PUMP	CHAS_MCC0_1_1202_PUMP	STATE
□	4	15	CHAS:MCC0:1:BDERCBNR	CHAS_MCC0_1_BDERCBNR	STATE
□	5	1	PROF:BSYA:1:OUT_SUM	PROF_BSYA_1_OUT_SUM	STATE
□	5	2	BEND:BSYA:140:B1_2_PS_ON	BEND_BSYA_140_B1_2_PS_ON	STATE
□	5	3	COLL:BSYA:1015:FLOW_SW	COLL_BSYA_1015_FLOW_SW	STATE
□	5	4	VVFS:BSYA:1030:POSITION	VVFS_BSYA_1030_POSITION	STATE
□	5	5	VVPG:BSYA:1018:POSITION	VVPG_BSYA_1018_POSITION	STATE
□	5	6	BEND:BSYA:1100:B11_PS_ON	BEND_BSYA_1100_B11_PS_ON	STATE
□	5	7	BPM:BSYA:1020:FLOW_SW	BPM_BSYA_1020_FLOW_SW	STATE
□	5	8	QUAD:BSYA:1010:Q10_PS_ON	QUAD_BSYA_1010_Q10_PS_ON	STATE
□	5	9	QUAD:BSYA:1090:Q11_PS_ON	QUAD_BSYA_1090_Q11_PS_ON	STATE
□	5	10	BPM:BSYA:1240:FLOW_SW	BPM_BSYA_1240_FLOW_SW	STATE
□	5	11	COLL:BSYA:1230:FLOW_SW	COLL_BSYA_1230_FLOW_SW	STATE
□	5	12	VVPG:BSYA:2635:POSITION	VVPG_BSYA_2635_POSITION	STATE
□	5	13	VVFS:BSYA:2855:POSITION	VVFS_BSYA_2855_POSITION	STATE
□	5	14	VVPG:BSYA:4005:POSITION	VVPG_BSYA_4005_POSITION	STATE
□	5	15	STPR:BSY0:88:IN_LIMIT	STPR_BSY0_88_IN_LIMIT	POSITION
□	5	16	STPR:BSY0:88:OUT_LIMIT	STPR_BSY0_88_OUT_LIMIT	POSITION
□	6	1	PICM:BSY0:1:HV_PWR	PICM_BSY0_1_HV_PWR	STATE
□	6	2	PICM:BSY0:2:HV_PWR	PICM_BSY0_2_HV_PWR	STATE
□	6	3	PICM:BSY0:3:HV_PWR	PICM_BSY0_3_HV_PWR	STATE
□	6	4	PICM:BSY0:4:HV_PWR	PICM_BSY0_4_HV_PWR	STATE
□	6	5	PICM:BSY0:5:HV_PWR	PICM_BSY0_5_HV_PWR	STATE
□	6	6	PICM:BSY0:6:HV_PWR	PICM_BSY0_6_HV_PWR	STATE
□	6	7	BEND:BSYA:140:PS_OFF_A	BEND_BSYA_140_PS_OFF_A	STATE
□	6	8	BEND:BSYA:140:PS_OFF_B	BEND_BSYA_140_PS_OFF_B	STATE
□	6	10	TRGT:BSYA:964:OUT_LIMSW	TRGT_BSYA_964_OUT_LIMSW	POSITION
□	6	11	TRGT:BSYA:964:IN_LIMSW	TRGT_BSYA_964_IN_LIMSW	POSITION
□	7	8	PICM:BSY0:16:NO_TRIG	PICM_BSY0_16_NO_TRIG	MISSED
□	9	1	PICM:BSYH:479:LOSSL	PICM_BSYH_479_LOSSL	THRESHOLD
□	9	2	PICM:BSYH:479:LOSSH	PICM_BSYH_479_LOSSH	THRESHOLD
□	10	1	PICM:BSYH:487:LOSSL	PICM_BSYH_487_LOSSL	THRESHOLD
□	10	2	PICM:BSYH:487:LOSSH	PICM_BSYH_487_LOSSH	THRESHOLD
□	11	1	PICM:BSYH:495:LOSSL	PICM_BSYH_495_LOSSL	THRESHOLD
□	11	2	PICM:BSYH:495:LOSSH	PICM_BSYH_495_LOSSH	THRESHOLD

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	12	1	PICM:BSYH:836:LOSSL	PICM_BSYH_836_LOSSL	THRESHOLD
□	12	2	PICM:BSYH:836:LOSSH	PICM_BSYH_836_LOSSH	THRESHOLD
□	13	1	PICM:BSYH:503:LOSSL	PICM_BSYH_503_LOSSL	THRESHOLD
□	13	2	PICM:BSYH:503:LOSSH	PICM_BSYH_503_LOSSH	THRESHOLD
□	22	1	PICM:BSYA:1016:LOSSL	PICM_BSYA_1016_LOSSL	THRESHOLD
□	22	2	PICM:BSYA:1016:LOSSH	PICM_BSYA_1016_LOSSH	THRESHOLD
□	23	1	PICM:BSYA:1021:LOSSL	PICM_BSYA_1021_LOSSL	THRESHOLD
□	23	2	PICM:BSYA:1021:LOSSH	PICM_BSYA_1021_LOSSH	THRESHOLD
□	24	1	PICM:BSYA:1120:LOSSL	PICM_BSYA_1120_LOSSL	THRESHOLD
□	24	2	PICM:BSYA:1120:LOSSH	PICM_BSYA_1120_LOSSH	THRESHOLD
□	25	1	PICM:BSYA:1320:LOSSL	PICM_BSYA_1320_LOSSL	THRESHOLD
□	25	2	PICM:BSYA:1320:LOSSH	PICM_BSYA_1320_LOSSH	THRESHOLD
□	26	1	PICM:BSYA:1520:LOSSL	PICM_BSYA_1520_LOSSL	THRESHOLD
□	26	2	PICM:BSYA:1520:LOSSH	PICM_BSYA_1520_LOSSH	THRESHOLD
□	27	1	PICM:BSYA:1980:LOSSL	PICM_BSYA_1980_LOSSL	THRESHOLD
□	27	2	PICM:BSYA:1980:LOSSH	PICM_BSYA_1980_LOSSH	THRESHOLD
□	28	1	PICM:BSYA:1701A:LOSSL	PICM_BSYA_1701A_LOSSL	THRESHOLD
□	28	2	PICM:BSYA:1701A:LOSSH	PICM_BSYA_1701A_LOSSH	THRESHOLD
□	29	1	PICM:BSYA:1701B:LOSSL	PICM_BSYA_1701B_LOSSL	THRESHOLD
□	29	2	PICM:BSYA:1701B:LOSSH	PICM_BSYA_1701B_LOSSH	THRESHOLD
□	30	1	PICM:BSYH:762:LOSSL	PICM_BSYH_762_LOSSL	THRESHOLD
□	30	2	PICM:BSYH:762:LOSSH	PICM_BSYH_762_LOSSH	THRESHOLD

16 Link Node 27

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	4	VVPG:CLTH:178:OPEN_LIMSW	VVPG_CLTH_178_OPEN_LIMSW	POSITION
□	1	5	VVPG:CLTH:375:OPEN_LIMSW	VVPG_CLTH_375_OPEN_LIMSW	POSITION
□	1	8	VVPG:CLTS:685:POSITION	VVPG_CLTS_685_POSITION	STATE
□	1	13	VVPG:BSYA:340:OPEN_LIMSW	VVPG_BSYA_340_OPEN_LIMSW	POSITION
□	1	15	VVFS:CLTH:101:OPEN_LIMSW	VVFS_CLTH_101_OPEN_LIMSW	POSITION

17 Link Node 28

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	10	PICM:LTUH:B911:HV_PWR	PICM_LTUH_B911_HV_PWR	STATE
□	1	11	COLL:LTUH:253:STATE_OUT	COLL_LTUH_253_STATE_OUT	STATE
□	1	12	COLL:LTUH:452:STATE_OUT	COLL_LTUH_452_STATE_OUT	STATE
□	2	1	DCHP:LTUH:555:OUT_LIMSW_NEGX	DCHP_LTUH_555_OUT_LIMSW_NEGX	POSITION
□	2	2	DCHP:LTUH:555:OUT_LIMSW_POSX	DCHP_LTUH_555_OUT_LIMSW_POSX	POSITION
□	2	3	DCHP:LTUH:545:OUT_LIMSW_NEGY	DCHP_LTUH_545_OUT_LIMSW_NEGY	POSITION
□	2	4	DCHP:LTUH:545:OUT_LIMSW_POSY	DCHP_LTUH_545_OUT_LIMSW_POSY	POSITION
□	2	5	DCHP:LTUH:555:GAP_LIMSW_NEGZ	DCHP_LTUH_555_GAP_LIMSW_NEGZ	POSITION
□	2	6	DCHP:LTUH:555:GAP_LIMSW_POSZ	DCHP_LTUH_555_GAP_LIMSW_POSZ	POSITION
□	2	7	DCHP:LTUH:545:GAP_LIMSW_NEGZ	DCHP_LTUH_545_GAP_LIMSW_NEGZ	POSITION
□	2	8	DCHP:LTUH:545:GAP_LIMSW_POSZ	DCHP_LTUH_545_GAP_LIMSW_POSZ	POSITION
□	7	8	PICM:LTUH:220:NO_TRIG	PICM_LTUH_220_NO_TRIG	MISSED
□	9	1	PICM:LTUH:220:LOSSL	PICM_LTUH_220_LOSSL	THRESHOLD
□	9	2	PICM:LTUH:220:LOSSH	PICM_LTUH_220_LOSSH	THRESHOLD
□	10	1	PICM:LTUH:253:LOSSL	PICM_LTUH_253_LOSSL	THRESHOLD
□	10	2	PICM:LTUH:253:LOSSH	PICM_LTUH_253_LOSSH	THRESHOLD
□	11	1	PICM:LTUH:280:LOSSL	PICM_LTUH_280_LOSSL	THRESHOLD
□	11	2	PICM:LTUH:280:LOSSH	PICM_LTUH_280_LOSSH	THRESHOLD
□	12	1	PICM:LTUH:420:LOSSL	PICM_LTUH_420_LOSSL	THRESHOLD
□	12	2	PICM:LTUH:420:LOSSH	PICM_LTUH_420_LOSSH	THRESHOLD
□	13	1	PICM:LTUH:452:LOSSL	PICM_LTUH_452_LOSSL	THRESHOLD
□	13	2	PICM:LTUH:452:LOSSH	PICM_LTUH_452_LOSSH	THRESHOLD

18 Link Node 29

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	2	PICM:LTUH:B912:HV_PWR	PICM_LTUH_B912_HV_PWR	STATE
□	7	8	PICM:LTUH:480:NO_TRIG	PICM_LTUH_480_NO_TRIG	MISSED
□	9	1	PICM:LTUH:722:LOSSL	PICM_LTUH_722_LOSSL	THRESHOLD
□	9	2	PICM:LTUH:722:LOSSH	PICM_LTUH_722_LOSSH	THRESHOLD
□	11	1	PICM:LTUH:480:LOSSL	PICM_LTUH_480_LOSSL	THRESHOLD
□	11	2	PICM:LTUH:480:LOSSH	PICM_LTUH_480_LOSSH	THRESHOLD

19 Link Node 30

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	11	1	BLM:LTUH:BLF545:LOSS_L	BLM_LTUH_BLF545_LOSS_L	THRESHOLD
□	11	2	BLM:LTUH:BLF545:LOSS_H	BLM_LTUH_BLF545_LOSS_H	THRESHOLD
□	11	11	BLM:LTUH:BLF545:TEST_L	BLM_LTUH_BLF545_TEST_L	THRESHOLD
□	11	12	BLM:LTUH:BLF545:TEST_H	BLM_LTUH_BLF545_TEST_H	THRESHOLD
□	11	15	BLM:LTUH:BLF545:PED_L	BLM_LTUH_BLF545_PED_L	THRESHOLD
□	11	16	BLM:LTUH:BLF545:PED_H	BLM_LTUH_BLF545_PED_H	THRESHOLD

20 Link Node 39

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	STPR:FEE1:ST1:OUT	STPR_FEE1_ST1_OUT	POSITION
□	1	2	STPR:FEE1:ST1:IN	STPR_FEE1_ST1_IN	POSITION
□	1	3	STPR:FEE1:ST2:OUT	STPR_FEE1_ST2_OUT	POSITION
□	1	4	STPR:FEE1:ST2:IN	STPR_FEE1_ST2_IN	POSITION
□	3	10	XPP:NH3:POS_00:IN	XPP_NH3_POS_00_IN	STATE
□	3	11	HX3:UVD:VGC_01:CLS_DI	HX3_UVD_VGC_01_CLS_DI	STATE
□	3	12	HX3:UVD:VGC_01:OPN_DI	HX3_UVD_VGC_01_OPN_DI	STATE
□	3	13	HX3:DVD:VGC_01:CLS_DI	HX3_DVD_VGC_01_CLS_DI	STATE
□	3	14	HX3:DVD:VGC_01:OPN_DI	HX3_DVD_VGC_01_OPN_DI	STATE
□	4	4	XPP:SB2:VGC_04:OPN_DI	XPP_SB2_VGC_04_OPN_DI	POSITION
□	4	10	XPP:SB2:VGC_02:OPN_DI	XPP_SB2_VGC_02_OPN_DI	POSITION
□	4	11	XPP:SB2:VGC_03:OPN_DI	XPP_SB2_VGC_03_OPN_DI	POSITION

21 Link Node 40

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	HXX:UM6:CVP_01:A	HXX_UM6_CVP_01_A	STATE
□	1	2	HXX:UM6:CVP_01:B	HXX_UM6_CVP_01_B	STATE
□	1	3	HXX:UM6:VGC_01:CLS_DI	HXX_UM6_VGC_01_CLS_DI	STATE
□	1	4	HXX:UM6:VGC_01:OPN_DI	HXX_UM6_VGC_01_OPN_DI	STATE
□	1	5	HXX:MXT:VGC_03:CLS_DI	HXX_MXT_VGC_03_CLS_DI	POSITION
□	1	6	HXX:MXT:VGC_03:OPN_DI	HXX_MXT_VGC_03_OPN_DI	POSITION
□	1	7	XRT:DIA:MMS_01:B	XRT_DIA_MMS_01_B	POSITION
□	1	8	CXI:DG1:MMS_03:A	CXI_DG1_MMS_03_A	POSITION
□	1	9	CXI:DG1:MMS_08:B	CXI_DG1_MMS_08_B	POSITION
□	1	12	CXI:DG2:MMS_06:B	CXI_DG2_MMS_06_B	POSITION
□	1	13	CXI:DG2:MMS_08:B	CXI_DG2_MMS_08_B	POSITION
□	1	14	CXI:DG2:MMS_09:B	CXI_DG2_MMS_09_B	POSITION
□	1	15	CXI:DG2:MMS_10:B	CXI_DG2_MMS_10_B	POSITION
□	1	16	CXI:SC3:VGC_01:OPN_DI	CXI_SC3_VGC_01_OPN_DI	POSITION
□	2	1	CXI:MPS:CFG:1	CXI_MPS_CFG_1	CONFID
□	2	2	CXI:MPS:CFG:2	CXI_MPS_CFG_2	CONFID
□	2	3	CXI:MPS:CFG:3	CXI_MPS_CFG_3	CONFID
□	2	4	CXI:MPS:CFG:4	CXI_MPS_CFG_4	CONFID
□	2	5	CXI:MPS:CFG:5	CXI_MPS_CFG_5	CONFID
□	2	6	CXI:MPS:CFG:6	CXI_MPS_CFG_6	CONFID
□	2	7	CXI:MPS:CFG:7	CXI_MPS_CFG_7	CONFID
□	2	8	CXI:MPS:PLC_01:OK	CXI_MPS_PLC_01_OK	STATUS
□	2	12	CXI:DG4:MMS_05:B	CXI_DG4_MMS_05_B	POSITION
□	2	13	CXI:DG4:MMS_03:B	CXI_DG4_MMS_03_B	POSITION
□	2	14	CXI:DIA:ATTEN:OK	CXI_DIA_ATTEN_OK	POSITION
□	2	15	HFA:SND:VGC_01:OPN_DI	HFA_SND_VGC_01_OPN_DI	POSITION
□	2	16	HF4:LAM:VGC_01:OPN_DI	HF4_LAM_VGC_01_OPN_DI	POSITION
□	3	1	HXX:LOM:VGC_01:CLS_DI	HXX_LOM_VGC_01_CLS_DI	STATE
□	3	2	HXX:LOM:VGC_01:OPN_DI	HXX_LOM_VGC_01_OPN_DI	STATE
□	3	3	HXX:DIA:VGC_01:CLS_DI	HXX_DIA_VGC_01_CLS_DI	STATE
□	3	4	HXX:DIA:VGC_01:OPN_DI	HXX_DIA_VGC_01_OPN_DI	STATE
□	3	5	HFX:DIA:VGC_02:OPN_DI	HFX_DIA_VGC_02_OPN_DI	POSITION
□	3	6	CXI:DG1:VGC_01:OPN_DI	CXI_DG1_VGC_01_OPN_DI	POSITION
□	3	7	CXI:DG1:VGC_02:OPN_DI	CXI_DG1_VGC_02_OPN_DI	POSITION
□	3	8	CXI:KB1:VGC_01:OPN_DI	CXI_KB1_VGC_01_OPN_DI	POSITION
□	3	9	CXI:KB1:VGC_02:OPN_DI	CXI_KB1_VGC_02_OPN_DI	POSITION
□	3	10	CXI:KB2:VGC_01:OPN_DI	CXI_KB2_VGC_01_OPN_DI	POSITION
□	3	12	CXI:DG2:VGC_01:OPN_DI	CXI_DG2_VGC_01_OPN_DI	POSITION

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	3	13	CXI:DG2:VGC_02:OPN_DI	CXI_DG2_VGC_02_OPN_DI	POSITION
□	3	14	CXI:SC1:VGC_01:OPN_DI	CXI_SC1_VGC_01_OPN_DI	POSITION
□	3	15	CXI:SC1:VGC_02:OPN_DI	CXI_SC1_VGC_02_OPN_DI	POSITION
□	3	16	CXI:DSC:VGC_01:OPN_DI	CXI_DSC_VGC_01_OPN_DI	POSITION
□	4	1	CXI:SC2:VGC_02:OPN_DI	CXI_SC2_VGC_02_OPN_DI	POSITION
□	4	2	CXI:SC1:VGC_01:CLS_DI	CXI_SC1_VGC_01_CLS_DI	POSITION
□	4	3	CXI:DSC:VGC_01:CLS_DI	CXI_DSC_VGC_01_CLS_DI	POSITION
□	4	4	CXI:DET:01:MPSFAULT	CXI_DET_01_MPSFAULT	STATUS
□	4	5	CXI:DET:02:MPSFAULT	CXI_DET_02_MPSFAULT	STATUS
□	4	6	CXI:USR:01:MPSFAULT	CXI_USR_01_MPSFAULT	STATUS
□	4	7	CXI:USR:02:MPSFAULT	CXI_USR_02_MPSFAULT	STATUS
□	4	8	CXI:DG2:VGC_01:CLS_DI	CXI_DG2_VGC_01_CLS_DI	POSITION
□	4	9	CXI:DG2:VCG_02:CLS_DI	CXI_DG2_VCG_02_CLS_DI	POSITION
□	4	10	HXX:MXT:VGC_01:OPN_DI	HXX_MXT_VGC_01_OPN_DI	POSITION
□	4	11	HXX:MXT:VGC_02:OPN_DI	HXX_MXT_VGC_02_OPN_DI	POSITION
□	4	12	HXX:MXT:VGC_05:OPN_DI	HXX_MXT_VGC_05_OPN_DI	POSITION
□	4	13	CXI:KB2:VGC_02:OPN_DI	CXI_KB2_VGC_02_OPN_DI	POSITION
□	4	14	MEC:HXM:MMS_04:B	MEC_HXM_MMS_04_B	POSITION
□	4	15	HXX:HXM:MMS_01:B	HXX_HXM_MMS_01_B	POSITION
□	4	16	XCS:MPS:PLC_01:OK	XCS_MPS_PLC_01_OK	STATUS
□	5	2	STPR:XRT1:1:SH2IN	STPR_XRT1_1_SH2IN	STATE
□	5	3	STPR:XRT1:1:S5IN	STPR_XRT1_1_S5IN	POSITION
□	5	4	STPR:XRT1:1:S5OUT	STPR_XRT1_1_S5OUT	POSITION
□	5	5	STPR:FEH1:5:S5BIN	STPR_FEH1_5_S5BIN	POSITION
□	5	6	STPR:FEH1:5:S5BOUT	STPR_FEH1_5_S5BOUT	POSITION
□	5	7	STPR:XRT1:1:SH2OUT	STPR_XRT1_1_SH2OUT	STATE
□	5	9	HFX:UM6:STP_01:IN_DI	HFX_UM6_STP_01_IN_DI	POSITION
□	5	10	HFX:UM6:STP_01:OUT_DI	HFX_UM6_STP_01_OUT_DI	POSITION
□	5	11	HFX:DG2:STP_01:IN_DI	HFX_DG2_STP_01_IN_DI	POSITION
□	5	12	HFX:DG2:STP_01:OUT_DI	HFX_DG2_STP_01_OUT_DI	POSITION
□	5	13	HFX:DG2:VGC_01:OPN_DI	HFX_DG2_VGC_01_OPN_DI	POSITION
□	5	14	HFX:MON:VGC_01:OPN_DI	HFX_MON_VGC_01_OPN_DI	POSITION
□	5	15	MEC:MPS:PLC_01:OK	MEC_MPS_PLC_01_OK	STATUS
□	5	16	HFX:MON:VGC_02:OPN_DI	HFX_MON_VGC_02_OPN_DI	POSITION
□	6	1	CXI:KB2:VGC_02:CLS_DI	CXI_KB2_VGC_02_CLS_DI	POSITION
□	6	2	CXI:DSU:MMS_07:B	CXI_DSU_MMS_07_B	POSITION
□	6	3	HXX:HXM:MMS_01:INBEAM	HXX_HXM_MMS_01_INBEAM	POSITION
□	6	4	XCS:SB1:VGC_01:OPN_DI	XCS_SB1_VGC_01_OPN_DI	POSITION
□	6	5	XCS:SB1:VGC_01:CLS_DI	XCS_SB1_VGC_01_CLS_DI	POSITION
□	6	6	XCS:SB1:VGC_02:OPN_DI	XCS_SB1_VGC_02_OPN_DI	POSITION
□	6	7	XCS:SB1:VGC_02:CLS_DI	XCS_SB1_VGC_02_CLS_DI	POSITION

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	6	8	XCS:SB2:VGC_01:OPN_DI	XCS_SB2_VGC_01_OPN_DI	POSITION
□	6	9	XCS:SB2:VGC_01:CLS_DI	XCS_SB2_VGC_01_CLS_DI	POSITION
□	6	10	XCS:SB:POS:MONO	XCS_SB_POS_MONO	POSITION
□	6	11	XCS:SB:POS:HARD	XCS_SB_POS_HARD	POSITION
□	6	12	XCS:SB1:STP_01:OPN_DI	XCS_SB1_STP_01_OPN_DI	POSITION
□	6	13	XCS:SB1:STP_01:CLS_DI	XCS_SB1_STP_01_CLS_DI	POSITION
□	6	14	XCS:USR:01:MPSFAULT	XCS_USR_01_MPSFAULT	STATUS
□	6	15	STPR:XRT1:1:S6IN	STPR_XRT1_1_S6IN	POSITION
□	6	16	STPR:XRT1:1:S6OUT	STPR_XRT1_1_S6OUT	POSITION

22 Link Node 41

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	MEC:DV5:VGC_01:OPN_DI	MEC_DV5_VGC_01_OPN_DI	POSITION
□	1	2	MEC:XT1:VGC_01:OPN_DI	MEC_XT1_VGC_01_OPN_DI	POSITION
□	1	3	MEC:XT1:MMS_01:B	MEC_XT1_MMS_01_B	POSITION
□	1	4	MEC:XT2:VGC_02:OPN_DI	MEC_XT2_VGC_02_OPN_DI	POSITION
□	1	5	MEC:XT2:VGC_03:OPN_DI	MEC_XT2_VGC_03_OPN_DI	POSITION
□	1	6	MEC:XT2:VGC_04:OPN_DI	MEC_XT2_VGC_04_OPN_DI	POSITION
□	1	7	MEC:XT2:VGC_05:OPN_DI	MEC_XT2_VGC_05_OPN_DI	POSITION
□	1	8	MEC:XT2:VGC_05:CLS_DI	MEC_XT2_VGC_05_CLS_DI	POSITION
□	1	9	MEC:XT2:VGC_06:OPN_DI	MEC_XT2_VGC_06_OPN_DI	POSITION
□	1	10	MEC:HXM:VGC_01:OPN_DI	MEC_HXM_VGC_01_OPN_DI	POSITION
□	1	13	MFX:MPS:PLC_VAC:OK	MFX_MPS_PLC_VAC_OK	STATUS
□	1	14	MEC:DV4:VGC_01:OPN_DI	MEC_DV4_VGC_01_OPN_DI	POSITION
□	1	15	MEC:BXL:VGC_01:OPN_DI	MEC_BXL_VGC_01_OPN_DI	POSITION
□	2	1	MFX:XRT:VGC:OUT_SUM	MFX_XRT_VGC_OUT_SUM	STATE
□	2	2	STPR:XRT:1:S45IN	STPR_XRT_1_S45IN	STATE
□	2	3	STPR:XRT:1:S45OUT	STPR_XRT_1_S45OUT	STATE
□	2	4	MFX:MPS:1:SUM	MFX_MPS_1_SUM	STATE
□	2	6	XCS:PBT:VGC:OUT_SUM	XCS_PBT_VGC_OUT_SUM	STATE

23 Link Node 42

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	7	COLL:BSYH:479:PCAPM_FLOW_SW	COLL_BSYH_479_PCAPM_FLOW_SW	STATE
□	1	9	EXPT:ESA0:1:EPS_STAT	EXPT_ESA0_1_EPS_STAT	STATE
□	1	11	BEND:BSY0:40:40B1_FLOW_SW	BEND_BSY0_40_40B1_FLOW_SW	STATE
□	2	1	COLL:BSYA:1490:FLOW_SW	COLL_BSYA_1490_FLOW_SW	STATE
□	2	2	COLL:BSYA:1700:FLOW_SW	COLL_BSYA_1700_FLOW_SW	STATE
□	2	3	SLIT:BSYA:1980:SL19_FLOW_SW	SLIT_BSYA_1980_SL19_FLOW_SW	STATE
□	2	5	VGFS:BSYA:1410:FSG22_OK	VGFS_BSYA_1410_FSG22_OK	STATE
□	2	8	QUAD:BSYA:1950:Q19_PS_ON	QUAD_BSYA_1950_Q19_PS_ON	STATE
□	2	9	COLL:BSYA:2470:V_FLOW_SW	COLL_BSYA_2470_V_FLOW_SW	STATE
□	2	10	COLL:BSYA:2470:H_FLOW_SW	COLL_BSYA_2470_H_FLOW_SW	STATE
□	2	11	COLL:BSYA:2410:FLOW_SW	COLL_BSYA_2410_FLOW_SW	STATE
□	2	12	COLL:BSYA:2060:FLOW_SW	COLL_BSYA_2060_FLOW_SW	STATE
□	2	13	COLL:BSYA:2600:FLOW_SW	COLL_BSYA_2600_FLOW_SW	STATE
□	2	14	COLL:BSYA:2990:FLOW_SW	COLL_BSYA_2990_FLOW_SW	STATE
□	2	15	COLL:BSYA:3710:FLOW_SW	COLL_BSYA_3710_FLOW_SW	STATE
□	2	16	BPMS:BSYA:2420:FLOW_SW	BPMS_BSYA_2420_FLOW_SW	STATE
□	3	1	BPMS:BSYA:2860:FLOW_SW	BPMS_BSYA_2860_FLOW_SW	STATE
□	3	2	BPMS:BSYA:3115:FLOW_SW	BPMS_BSYA_3115_FLOW_SW	STATE
□	3	3	COLL:ESA0:4120:FLOW_SW	COLL_ESA0_4120_FLOW_SW	STATE
□	3	4	VVPG:ESA0:4195:POSITION	VVPG_ESA0_4195_POSITION	STATE
□	3	5	VGFS:BSYA:3320:FSG29_OK	VGFS_BSYA_3320_FSG29_OK	STATE
□	3	6	PICM:ESA0:1:GAS_OK	PICM_ESA0_1_GAS_OK	STATE
□	3	7	MPS:ESA0:1:SEM_HV	MPS_ESA0_1_SEM_HV	STATE
□	3	9	QUAD:BSYA:2750:Q27_PS_ON	QUAD_BSYA_2750_Q27_PS_ON	STATE
□	3	10	QUAD:BSYA:2850:Q28_PS_ON	QUAD_BSYA_2850_Q28_PS_ON	STATE
□	3	11	QUAD:BSYA:2050:Q20_PS_ON	QUAD_BSYA_2050_Q20_PS_ON	STATE
□	3	12	XCOR:BSYA:2890:A28_PS_ON	XCOR_BSYA_2890_A28_PS_ON	STATE
□	3	13	YCOR:BSYA:2911:A29_PS_ON	YCOR_BSYA_2911_A29_PS_ON	STATE
□	3	14	XCOR:BSYA:3212:A32_PS_ON	XCOR_BSYA_3212_A32_PS_ON	STATE
□	3	15	YCOR:BSYA:3313:A33_PS_ON	YCOR_BSYA_3313_A33_PS_ON	STATE
□	4	1	KICK:BSY0:66:PM1_5_OFF	KICK_BSY0_66_PM1_5_OFF	STATE
□	4	2	BEND:BSYA:140:B1_2_PS_OFF	BEND_BSYA_140_B1_2_PS_OFF	STATE
□	4	3	STPR:BSYA:2275:ST22_IN_LIM	STPR_BSYA_2275_ST22_IN_LIM	STATE
□	4	4	STPR:BSYA:2930:ST29_IN_LIM	STPR_BSYA_2930_ST29_IN_LIM	STATE
□	4	5	STPR:BSYA:2275:ST22_OUT_LIM	STPR_BSYA_2275_ST22_OUT_LIM	STATE
□	4	6	STPR:BSYA:2930:ST29_OUT_LIM	STPR_BSYA_2930_ST29_OUT_LIM	STATE
□	4	7	SLIT:BSYA:2010:SL10_FT_IN	SLIT_BSYA_2010_SL10_FT_IN	STATE
□	4	8	SLIT:BSYA:2010:SL10_FB_IN	SLIT_BSYA_2010_SL10_FB_IN	STATE

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	4	9	SLIT:BSYA:2010:SL10_RT_IN	SLIT_BSYA_2010_SL10_RT_IN	STATE
□	4	10	SLIT:BSYA:2010:SL10_RB_IN	SLIT_BSYA_2010_SL10_RB_IN	STATE
□	5	1	STPR:BSY0:89:IN_LIMSW_A	STPR_BSY0_89_IN_LIMSW_A	POSITION
□	5	2	STPR:BSY0:89:IN_LIMSW_B	STPR_BSY0_89_IN_LIMSW_B	POSITION
□	5	3	STPR:BSY0:89:OUT_LIMSW_A	STPR_BSY0_89_OUT_LIMSW_A	POSITION
□	5	4	STPR:BSY0:89:OUT_LIMSW_B	STPR_BSY0_89_OUT_LIMSW_B	POSITION
□	5	5	STPR:BSY0:90:IN_LIMSW_A	STPR_BSY0_90_IN_LIMSW_A	POSITION
□	5	6	STPR:BSY0:90:IN_LIMSW_B	STPR_BSY0_90_IN_LIMSW_B	POSITION
□	5	7	STPR:BSY0:90:OUT_LIMSW_A	STPR_BSY0_90_OUT_LIMSW_A	POSITION
□	5	8	STPR:BSY0:90:OUT_LIMSW_B	STPR_BSY0_90_OUT_LIMSW_B	POSITION
□	5	9	STPR:BSY0:88:IN_LIMSW_A	STPR_BSY0_88_IN_LIMSW_A	POSITION
□	5	10	STPR:BSY0:88:IN_LIMSW_B	STPR_BSY0_88_IN_LIMSW_B	POSITION
□	5	11	STPR:BSY0:88:OUT_LIMSW_A	STPR_BSY0_88_OUT_LIMSW_A	POSITION
□	5	12	BTM:BSY0:89:IN_LIMSW_A	BTM_BSY0_89_IN_LIMSW_A	POSITION
□	5	13	BTM:BSY0:89:IN_LIMSW_B	BTM_BSY0_89_IN_LIMSW_B	POSITION
□	5	14	BTM:BSY0:89:OUT_LIMSW_A	BTM_BSY0_89_OUT_LIMSW_A	POSITION
□	5	15	BTM:BSY0:89:OUT_CNTRL_A	BTM_BSY0_89_OUT_CNTRL_A	PPS_CNTRL
□	5	16	BTM:BSY0:89:OUT_CNTRL_B	BTM_BSY0_89_OUT_CNTRL_B	PPS_CNTRL
□	7	8	PICM:BSYA:2061:NO_TRIG	PICM_BSYA_2061_NO_TRIG	MISSED
□	9	1	PICM:BSYA:2061:LOSSL	PICM_BSYA_2061_LOSSL	THRESHOLD
□	9	2	PICM:BSYA:2061:LOSSH	PICM_BSYA_2061_LOSSH	THRESHOLD
□	10	1	PICM:BSYA:2120:LOSSL	PICM_BSYA_2120_LOSSL	THRESHOLD
□	10	2	PICM:BSYA:2120:LOSSH	PICM_BSYA_2120_LOSSH	THRESHOLD
□	11	1	PICM:BSYA:2220:LOSSL	PICM_BSYA_2220_LOSSL	THRESHOLD
□	11	2	PICM:BSYA:2220:LOSSH	PICM_BSYA_2220_LOSSH	THRESHOLD
□	12	1	PICM:BSYA:2321:LOSSL	PICM_BSYA_2321_LOSSL	THRESHOLD
□	12	2	PICM:BSYA:2321:LOSSH	PICM_BSYA_2321_LOSSH	THRESHOLD
□	13	1	PICM:BSYA:2411:LOSSL	PICM_BSYA_2411_LOSSL	THRESHOLD
□	13	2	PICM:BSYA:2411:LOSSH	PICM_BSYA_2411_LOSSH	THRESHOLD
□	14	1	PICM:BSYA:2472:LOSSL	PICM_BSYA_2472_LOSSL	THRESHOLD
□	14	2	PICM:BSYA:2472:LOSSH	PICM_BSYA_2472_LOSSH	THRESHOLD
□	15	1	PICM:BSYA:2473:LOSSL	PICM_BSYA_2473_LOSSL	THRESHOLD
□	15	2	PICM:BSYA:2473:LOSSH	PICM_BSYA_2473_LOSSH	THRESHOLD
□	16	1	PICM:BSYA:2474:LOSSL	PICM_BSYA_2474_LOSSL	THRESHOLD
□	16	2	PICM:BSYA:2474:LOSSH	PICM_BSYA_2474_LOSSH	THRESHOLD
□	17	1	PICM:BSYA:2475:LOSSL	PICM_BSYA_2475_LOSSL	THRESHOLD
□	17	2	PICM:BSYA:2475:LOSSH	PICM_BSYA_2475_LOSSH	THRESHOLD
□	18	1	PICM:BSYA:2520:LOSSL	PICM_BSYA_2520_LOSSL	THRESHOLD
□	18	2	PICM:BSYA:2520:LOSSH	PICM_BSYA_2520_LOSSH	THRESHOLD
□	19	1	PICM:BSYA:2601:LOSSL	PICM_BSYA_2601_LOSSL	THRESHOLD
□	19	2	PICM:BSYA:2601:LOSSH	PICM_BSYA_2601_LOSSH	THRESHOLD

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	20	1	PICM:BSYA:2861:LOSSL	PICM_BSYA_2861_LOSSL	THRESHOLD
□	20	2	PICM:BSYA:2861:LOSSH	PICM_BSYA_2861_LOSSH	THRESHOLD
□	21	1	PICM:BSYA:2990:LOSSL	PICM_BSYA_2990_LOSSL	THRESHOLD
□	21	2	PICM:BSYA:2990:LOSSH	PICM_BSYA_2990_LOSSH	THRESHOLD
□	22	1	PICM:BSYA:3320:LOSSL	PICM_BSYA_3320_LOSSL	THRESHOLD
□	22	2	PICM:BSYA:3320:LOSSH	PICM_BSYA_3320_LOSSH	THRESHOLD
□	23	1	PICM:BSYA:3321:LOSSL	PICM_BSYA_3321_LOSSL	THRESHOLD
□	23	2	PICM:BSYA:3321:LOSSH	PICM_BSYA_3321_LOSSH	THRESHOLD
□	24	1	PICM:BSYA:3720:LOSSL	PICM_BSYA_3720_LOSSL	THRESHOLD
□	24	2	PICM:BSYA:3720:LOSSH	PICM_BSYA_3720_LOSSH	THRESHOLD
□	25	1	PICM:BSYA:3721:LOSSL	PICM_BSYA_3721_LOSSL	THRESHOLD
□	25	2	PICM:BSYA:3721:LOSSH	PICM_BSYA_3721_LOSSH	THRESHOLD
□	26	1	PICM:BSYA:3890:LOSSL	PICM_BSYA_3890_LOSSL	THRESHOLD
□	26	2	PICM:BSYA:3890:LOSSH	PICM_BSYA_3890_LOSSH	THRESHOLD
□	32	1	PICM:CLTS:280:LOSSL	PICM_CLTS_280_LOSSL	THRESHOLD
□	32	2	PICM:CLTS:280:LOSSH	PICM_CLTS_280_LOSSH	THRESHOLD
□	32	3	PICM:CLTS:280:LOSS1L	PICM_CLTS_280_LOSS1L	THRESHOLD
□	32	4	PICM:CLTS:280:LOSS1H	PICM_CLTS_280_LOSS1H	THRESHOLD
□	32	5	PICM:CLTS:280:LOSS10L	PICM_CLTS_280_LOSS10L	THRESHOLD
□	32	6	PICM:CLTS:280:LOSS10H	PICM_CLTS_280_LOSS10H	THRESHOLD
□	32	7	PICM:CLTS:280:LOSS30L	PICM_CLTS_280_LOSS30L	THRESHOLD
□	32	8	PICM:CLTS:280:LOSS30H	PICM_CLTS_280_LOSS30H	THRESHOLD
□	32	9	PICM:CLTS:280:LOSS60L	PICM_CLTS_280_LOSS60L	THRESHOLD
□	32	10	PICM:CLTS:280:LOSS60H	PICM_CLTS_280_LOSS60H	THRESHOLD

24 Link Node 43

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	1	1	KICK:BSY0:66:A_KIK	KICK_BSY0_66_A_KIK	STATUS
□	1	2	KICK:BSY0:66:A_KIKRB	KICK_BSY0_66_A_KIKRB	STATUS
□	7	1	KICK:BSY0:66:TA120MISS	KICK_BSY0_66_TA120MISS	MISSED
□	7	2	KICK:BSY0:66:TS30MISS	KICK_BSY0_66_TS30MISS	MISSED
□	7	3	KICK:BSY0:66:TA30MISS	KICK_BSY0_66_TA30MISS	MISSED
□	7	4	KICK:BSY0:66:TS120MISS	KICK_BSY0_66_TS120MISS	MISSED
□	7	5	KICK:BSY0:66:SPARE	KICK_BSY0_66_SPARE	MISSED
□	7	6	KICK:BSY0:66:THRSHUNDR	KICK_BSY0_66_THRSHUNDR	MISSED
□	7	7	KICK:BSY0:66:THRSHOVER	KICK_BSY0_66_THRSHOVER	MISSED

25 Link Node 127

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	BPMS:UNDH:3190:YCUHBR	BPMS_UNDH_3190_YCUHBR	ORBIT
□	2	2	BPMS:UNDH:3290:XCUHBR	BPMS_UNDH_3290_XCUHBR	ORBIT
□	2	3	BPMS:UNDH:3290:YCUHBR	BPMS_UNDH_3290_YCUHBR	ORBIT
□	2	4	BPMS:UNDH:3390:XCUHBR	BPMS_UNDH_3390_XCUHBR	ORBIT
□	2	5	BPMS:UNDH:3390:YCUHBR	BPMS_UNDH_3390_YCUHBR	ORBIT
□	2	6	BPMS:UNDH:3490:XCUHBR	BPMS_UNDH_3490_XCUHBR	ORBIT
□	2	7	BPMS:UNDH:3490:YCUHBR	BPMS_UNDH_3490_YCUHBR	ORBIT
□	2	8	BPMS:UNDH:3590:XCUHBR	BPMS_UNDH_3590_XCUHBR	ORBIT
□	2	9	SIOC:BSYH:MP01:HEARTBEAT	SIOC_BSYH_MP01_HEARTBEAT	STATE
□	2	10	SIOC:BSYH:MP02:HEARTBEAT	SIOC_BSYH_MP02_HEARTBEAT	STATE
□	2	14	BPMS:UNDH:3090:XCUHBR	BPMS_UNDH_3090_XCUHBR	ORBIT
□	2	15	BPMS:UNDH:3090:YCUHBR	BPMS_UNDH_3090_YCUHBR	ORBIT
□	2	16	BPMS:UNDH:3190:XCUHBR	BPMS_UNDH_3190_XCUHBR	ORBIT
□	4	1	VVPG:BSYH:837:POSITION	VVPG_BSYH_837_POSITION	STATE
□	4	2	VVMG:LTUH:174:POSITION	VVMG_LTUH_174_POSITION	STATE
□	4	3	VVMG:LTUH:355:POSITION	VVMG_LTUH_355_POSITION	STATE
□	4	4	VVFS:LTUH:102:POSITION	VVFS_LTUH_102_POSITION	STATE
□	4	5	VVPG:LTUH:102:POSITION	VVPG_LTUH_102_POSITION	STATE
□	4	9	COLL:BSYH:892:TEMP	COLL_BSYH_892_TEMP	STATE
□	4	14	VVPG:LTUH:265:POSITION	VVPG_LTUH_265_POSITION	STATE
□	4	15	VVPG:BSYH:470:POSITION	VVPG_BSYH_470_POSITION	STATE
□	4	16	VVPG:BSYH:541:POSITION	VVPG_BSYH_541_POSITION	STATE

26 Link Node 129

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	BPMS:UNDH:3990:XCUHBR	BPMS_UNDH_3990_XCUHBR	ORBIT
□	2	2	BPMS:UNDH:3990:YCUHBR	BPMS_UNDH_3990_YCUHBR	ORBIT
□	2	3	BPMS:UNDH:4090:XCUHBR	BPMS_UNDH_4090_XCUHBR	ORBIT
□	2	4	BPMS:UNDH:4090:YCUHBR	BPMS_UNDH_4090_YCUHBR	ORBIT
□	2	5	BPMS:UNDH:4190:XCUHBR	BPMS_UNDH_4190_XCUHBR	ORBIT
□	2	6	BPMS:UNDH:4190:YCUHBR	BPMS_UNDH_4190_YCUHBR	ORBIT
□	2	7	BPMS:UNDH:4290:XCUHBR	BPMS_UNDH_4290_XCUHBR	ORBIT
□	2	8	BPMS:UNDH:4290:YCUHBR	BPMS_UNDH_4290_YCUHBR	ORBIT
□	2	9	SIOC:BSYH:MP03:HEARTBEAT	SIOC_BSYH_MP03_HEARTBEAT	STATE
□	2	10	KICK:LTUH:320:TREF	KICK_LTUH_320_TREF	TIMING
□	2	11	KICK:LTUH:320:TDES	KICK_LTUH_320_TDES	TIMING
□	2	12	BPMS:UNDH:3690:YCUHBR	BPMS_UNDH_3690_YCUHBR	ORBIT
□	2	13	BPMS:UNDH:3790:XCUHBR	BPMS_UNDH_3790_XCUHBR	ORBIT
□	2	14	BPMS:UNDH:3790:YCUHBR	BPMS_UNDH_3790_YCUHBR	ORBIT
□	2	15	BPMS:UNDH:3890:XCUHBR	BPMS_UNDH_3890_XCUHBR	ORBIT
□	2	16	BPMS:UNDH:3890:YCUHBR	BPMS_UNDH_3890_YCUHBR	ORBIT
□	4	1	COLL:LTUH:253:TEMP	COLL_LTUH_253_TEMP	STATE
□	4	2	COLL:LTUH:276:TEMP	COLL_LTUH_276_TEMP	STATE
□	4	3	KICK:LTUH:320:ON	KICK_LTUH_320_ON	STATE
□	4	4	KICK:LTUH:320:OFF	KICK_LTUH_320_OFF	STATE
□	16	9	KICK:LTUH:320:CURRENT	KICK_LTUH_320_CURRENT	THRESHOLD

27 Link Node 130

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	BPMS:UNDH:4690:XCUHBR	BPMS_UNDH_4690_XCUHBR	ORBIT
□	2	2	BPMS:UNDH:4690:YCUHBR	BPMS_UNDH_4690_YCUHBR	ORBIT
□	2	3	BPMS:UNDH:1890:XCUHBR	BPMS_UNDH_1890_XCUHBR	ORBIT
□	2	4	BPMS:UNDH:1890:YCUHBR	BPMS_UNDH_1890_YCUHBR	ORBIT
□	2	5	BPMS:UNDH:3590:YCUHBR	BPMS_UNDH_3590_YCUHBR	ORBIT
□	2	6	BPMS:UNDH:3690:XCUHBR	BPMS_UNDH_3690_XCUHBR	ORBIT
□	2	11	BPMS:UNDH:4390:XCUHBR	BPMS_UNDH_4390_XCUHBR	ORBIT
□	2	12	BPMS:UNDH:4390:YCUHBR	BPMS_UNDH_4390_YCUHBR	ORBIT
□	2	13	BPMS:UNDH:4490:XCUHBR	BPMS_UNDH_4490_XCUHBR	ORBIT
□	2	14	BPMS:UNDH:4490:YCUHBR	BPMS_UNDH_4490_YCUHBR	ORBIT
□	2	15	BPMS:UNDH:4590:XCUHBR	BPMS_UNDH_4590_XCUHBR	ORBIT
□	2	16	BPMS:UNDH:4590:YCUHBR	BPMS_UNDH_4590_YCUHBR	ORBIT

28 Link Node 131

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:LTUH:MP02:HEARTBEAT	SIOC_LTUH_MP02_HEARTBEAT	STATE

29 Link Node 132

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:LTUH:MP03:HEARTBEAT	SIOC_LTUH_MP03_HEARTBEAT	STATE
□	4	3	BEND:DMPH:400:ON	BEND_DMPH_400_ON	STATE
□	4	4	BEND:DMPH:400:OFF	BEND_DMPH_400_OFF	STATE
□	4	9	OTRS:LTUH:449:IN_LIMIT	OTRS_LTUH_449_IN_LIMIT	POSITION
□	4	10	OTRS:LTUH:449:OUT_LIMIT	OTRS_LTUH_449_OUT_LIMIT	POSITION
□	4	11	MIRR:LTUH:548:IN_LIMIT	MIRR_LTUH_548_IN_LIMIT	POSITION
□	4	12	MIRR:LTUH:548:OUT_LIMIT	MIRR_LTUH_548_OUT_LIMIT	POSITION
□	4	13	COLL:LTUH:393:TEMP	COLL_LTUH_393_TEMP	STATE
□	4	14	COLL:LTUH:452:TEMP	COLL_LTUH_452_TEMP	STATE
□	4	15	COLL:LTUH:475:TEMP	COLL_LTUH_475_TEMP	STATE
□	16	11	BEND:DMPH:400:CURRENT	BEND_DMPH_400_CURRENT	THRESHOLD

30 Link Node 133

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	BPMS:UNDH:2690:YCUHBR	BPMS_UNDH_2690_YCUHBR	ORBIT
□	2	2	BPMS:UNDH:2790:XCUHBR	BPMS_UNDH_2790_XCUHBR	ORBIT
□	2	3	BPMS:UNDH:2790:YCUHBR	BPMS_UNDH_2790_YCUHBR	ORBIT
□	2	4	BPMS:UNDH:2890:XCUHBR	BPMS_UNDH_2890_XCUHBR	ORBIT
□	2	5	BPMS:UNDH:2890:YCUHBR	BPMS_UNDH_2890_YCUHBR	ORBIT
□	2	6	BPMS:UNDH:2990:XCUHBR	BPMS_UNDH_2990_XCUHBR	ORBIT
□	2	7	BPMS:UNDH:2990:YCUHBR	BPMS_UNDH_2990_YCUHBR	ORBIT
□	2	9	SIOC:LTUH:MP04:HEARTBEAT	SIOC_LTUH_MP04_HEARTBEAT	STATE
□	2	10	BPMS:UNDH:2190:XCUHBR	BPMS_UNDH_2190_XCUHBR	ORBIT
□	2	11	BPMS:UNDH:2190:YCUHBR	BPMS_UNDH_2190_YCUHBR	ORBIT
□	2	12	BPMS:UNDH:2490:XCUHBR	BPMS_UNDH_2490_XCUHBR	ORBIT
□	2	13	BPMS:UNDH:2490:YCUHBR	BPMS_UNDH_2490_YCUHBR	ORBIT
□	2	14	BPMS:UNDH:2590:XCUHBR	BPMS_UNDH_2590_XCUHBR	ORBIT
□	2	15	BPMS:UNDH:2590:YCUHBR	BPMS_UNDH_2590_YCUHBR	ORBIT
□	2	16	BPMS:UNDH:2690:XCUHBR	BPMS_UNDH_2690_XCUHBR	ORBIT

31 Link Node 134

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:LTUH:MP05:HEARTBEAT	SIOC_LTUH_MP05_HEARTBEAT	STATE
□	2	10	SIOC:LTUH:MP06:HEARTBEAT	SIOC_LTUH_MP06_HEARTBEAT	STATE
□	3	1	VVMG:LTUH:774:POSITION	VVMG_LTUH_774_POSITION	STATE
□	3	9	VVPG:LTUH:435:POSITION	VVPG_LTUH_435_POSITION	STATE
□	3	10	VVPG:LTUH:580:POSITION	VVPG_LTUH_580_POSITION	STATE
□	3	11	VVPG:LTUH:725:POSITION	VVPG_LTUH_725_POSITION	STATE
□	3	12	VVPG:LTUH:757:POSITION	VVPG_LTUH_757_POSITION	STATE
□	3	14	VVMG:LTUH:505:POSITION	VVMG_LTUH_505_POSITION	STATE
□	3	15	VVMG:LTUH:670:POSITION	VVMG_LTUH_670_POSITION	STATE
□	3	16	VVMG:LTUH:742:POSITION	VVMG_LTUH_742_POSITION	STATE
□	4	9	YAGS:LTUH:743:P1_LMTSW	YAGS_LTUH_743_P1_LMTSW	POSITION
□	4	10	YAGS:LTUH:743:OUT_LMTSW	YAGS_LTUH_743_OUT_LMTSW	POSITION
□	4	11	OTRS:LTUH:745:IN_LIMIT	OTRS_LTUH_745_IN_LIMIT	POSITION
□	4	12	OTRS:LTUH:745:OUT_LIMIT	OTRS_LTUH_745_OUT_LIMIT	POSITION
□	4	13	YAGS:LTUH:743:P2_LMTSW	YAGS_LTUH_743_P2_LMTSW	POSITION

32 Link Node 136

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	BPMS:UNDH:2090:XCUHBR	BPMS_UNDH_2090_XCUHBR	ORBIT
□	2	2	BPMS:UNDH:2090:YCUHBR	BPMS_UNDH_2090_YCUHBR	ORBIT
□	2	3	BPMS:UNDH:1305:XCUHBR	BPMS_UNDH_1305_XCUHBR	ORBIT
□	2	4	BPMS:UNDH:1305:YCUHBR	BPMS_UNDH_1305_YCUHBR	ORBIT
□	2	5	BPMS:UNDH:1390:XCUHBR	BPMS_UNDH_1390_XCUHBR	ORBIT
□	2	6	BPMS:UNDH:1390:YCUHBR	BPMS_UNDH_1390_YCUHBR	ORBIT
□	2	7	BPMS:UNDH:1490:XCUHBR	BPMS_UNDH_1490_XCUHBR	ORBIT
□	2	8	BPMS:UNDH:1490:YCUHBR	BPMS_UNDH_1490_YCUHBR	ORBIT
□	2	9	SIOC:UNDH:MP01:HEARTBEAT	SIOC_UNDH_MP01_HEARTBEAT	STATE
□	2	10	SIOC:UNDH:MP02:HEARTBEAT	SIOC_UNDH_MP02_HEARTBEAT	STATE
□	2	11	BPMS:UNDH:2290:XCUHBR	BPMS_UNDH_2290_XCUHBR	ORBIT
□	2	12	BPMS:UNDH:2290:YCUHBR	BPMS_UNDH_2290_YCUHBR	ORBIT
□	2	13	BPMS:UNDH:2390:XCUHBR	BPMS_UNDH_2390_XCUHBR	ORBIT
□	2	14	BPMS:UNDH:2390:YCUHBR	BPMS_UNDH_2390_YCUHBR	ORBIT
□	2	15	BPMS:UNDH:1990:XCUHBR	BPMS_UNDH_1990_XCUHBR	ORBIT
□	2	16	BPMS:UNDH:1990:YCUHBR	BPMS_UNDH_1990_YCUHBR	ORBIT
□	6	6	BPMS:UNDH:2690:ORBIT	BPMS_UNDH_2690_ORBIT	STATUS
□	6	16	BPMS:UNDH:2490:ORBIT	BPMS_UNDH_2490_ORBIT	STATUS
□	16	1	CBLM:UNDH:2575:I1	CBLM_UNDH_2575_I1	THRESHOLD
□	16	2	CBLM:UNDH:2675:I1	CBLM_UNDH_2675_I1	THRESHOLD
□	16	9	CBLM:UNDH:2375:I0	CBLM_UNDH_2375_I0	THRESHOLD
□	16	10	CBLM:UNDH:2475:I0	CBLM_UNDH_2475_I0	THRESHOLD
□	16	11	CBLM:UNDH:2575:I0	CBLM_UNDH_2575_I0	THRESHOLD
□	16	12	CBLM:UNDH:2675:I0	CBLM_UNDH_2675_I0	THRESHOLD
□	16	15	CBLM:UNDH:2375:I1	CBLM_UNDH_2375_I1	THRESHOLD
□	16	16	CBLM:UNDH:2475:I1	CBLM_UNDH_2475_I1	THRESHOLD

33 Link Node 138

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDH:MP03:HEARTBEAT	SIOC_UNDH_MP03_HEARTBEAT	STATE
□	2	10	BPMS:UNDH:1690:YCUHBR	BPMS_UNDH_1690_YCUHBR	ORBIT
□	2	11	BPMS:UNDH:1790:XCUHBR	BPMS_UNDH_1790_XCUHBR	ORBIT
□	2	12	BPMS:UNDH:1790:YCUHBR	BPMS_UNDH_1790_YCUHBR	ORBIT
□	2	13	BPMS:UNDH:1590:XCUHBR	BPMS_UNDH_1590_XCUHBR	ORBIT
□	2	14	BPMS:UNDH:1690:XCUHBR	BPMS_UNDH_1690_XCUHBR	ORBIT
□	2	15	BPMS:UNDH:1590:YCUHBR	BPMS_UNDH_1590_YCUHBR	ORBIT
□	5	5	BPMS:UNDH:2190:ORBIT	BPMS_UNDH_2190_ORBIT	STATUS
□	16	1	CBLM:UNDH:1975:I1	CBLM_UNDH_1975_I1	THRESHOLD
□	16	2	CBLM:UNDH:2075:I1	CBLM_UNDH_2075_I1	THRESHOLD
□	16	3	CBLM:UNDH:2175:I1	CBLM_UNDH_2175_I1	THRESHOLD
□	16	4	CBLM:UNDH:2275:I1	CBLM_UNDH_2275_I1	THRESHOLD
□	16	9	CBLM:UNDH:1775:I0	CBLM_UNDH_1775_I0	THRESHOLD
□	16	10	CBLM:UNDH:1875:I0	CBLM_UNDH_1875_I0	THRESHOLD
□	16	11	CBLM:UNDH:1975:I0	CBLM_UNDH_1975_I0	THRESHOLD
□	16	12	CBLM:UNDH:2075:I0	CBLM_UNDH_2075_I0	THRESHOLD
□	16	13	CBLM:UNDH:2175:I0	CBLM_UNDH_2175_I0	THRESHOLD
□	16	14	CBLM:UNDH:2275:I0	CBLM_UNDH_2275_I0	THRESHOLD
□	16	15	CBLM:UNDH:1775:I1	CBLM_UNDH_1775_I1	THRESHOLD
□	16	16	CBLM:UNDH:1875:I1	CBLM_UNDH_1875_I1	THRESHOLD

34 Link Node 139

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDH:MP04:HEARTBEAT	SIOC_UNDH_MP04_HEARTBEAT	STATE
□	2	10	MPS:UNDH:1:CBLM_RMON_STATE	MPS_UNDH_1_CBLM_RMON_STATE	STATE
□	2	11	MPS:UNDH:1:CBLM_WDOG_STATE	MPS_UNDH_1_CBLM_WDOG_STATE	STATE
□	3	9	VVMG:UNDH:1338:POSITION	VVMG_UNDH_1338_POSITION	STATE
□	3	10	VVMG:UNDH:1343:POSITION	VVMG_UNDH_1343_POSITION	STATE
□	3	11	VVMG:UNDH:2138:POSITION	VVMG_UNDH_2138_POSITION	STATE
□	3	12	VVMG:UNDH:2143:POSITION	VVMG_UNDH_2143_POSITION	STATE
□	4	2	DUMP:LTUH:970:IN_LIMIT	DUMP_LTUH_970_IN_LIMIT	POSITION
□	4	3	DUMP:LTUH:970:OUT_LIMIT	DUMP_LTUH_970_OUT_LIMIT	POSITION
□	4	4	BEND:UNDH:2810:ON	BEND_UNDH_2810_ON	STATE
□	4	5	BEND:UNDH:2810:OFF	BEND_UNDH_2810_OFF	STATE
□	4	6	XTAL:UNDH:2850:OUT_LMTSW	XTAL_UNDH_2850_OUT_LMTSW	STATE
□	4	9	VVPG:UNDH:1288:POSITION	VVPG_UNDH_1288_POSITION	STATE
□	4	10	VVPG:UNDH:2098:POSITION	VVPG_UNDH_2098_POSITION	STATE
□	4	11	VVPG:UNDH:2298:POSITION	VVPG_UNDH_2298_POSITION	STATE
□	4	12	VVMG:UNDH:1498:POSITION	VVMG_UNDH_1498_POSITION	STATE
□	4	13	VVMG:UNDH:1798:POSITION	VVMG_UNDH_1798_POSITION	STATE
□	4	14	VVMG:UNDH:2498:POSITION	VVMG_UNDH_2498_POSITION	STATE
□	16	1	CBLM:UNDH:1375:I1	CBLM_UNDH_1375_I1	THRESHOLD
□	16	2	CBLM:UNDH:1475:I1	CBLM_UNDH_1475_I1	THRESHOLD
□	16	3	CBLM:UNDH:1575:I1	CBLM_UNDH_1575_I1	THRESHOLD
□	16	4	CBLM:UNDH:1675:I1	CBLM_UNDH_1675_I1	THRESHOLD
□	16	11	CBLM:UNDH:1375:I0	CBLM_UNDH_1375_I0	THRESHOLD
□	16	12	CBLM:UNDH:1475:I0	CBLM_UNDH_1475_I0	THRESHOLD
□	16	13	CBLM:UNDH:1575:I0	CBLM_UNDH_1575_I0	THRESHOLD
□	16	14	CBLM:UNDH:1675:I0	CBLM_UNDH_1675_I0	THRESHOLD

35 Link Node 140

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDH:MP05:HEARTBEAT	SIOC_UNDH_MP05_HEARTBEAT	STATE
□	6	6	BPMS:UNDH:3590:ORBIT	BPMS_UNDH_3590_ORBIT	STATUS
□	6	10	BPMS:UNDH:3190:ORBIT	BPMS_UNDH_3190_ORBIT	STATUS
□	6	16	BPMS:UNDH:3390:ORBIT	BPMS_UNDH_3390_ORBIT	STATUS
□	16	1	CBLM:UNDH:2975:I1	CBLM_UNDH_2975_I1	THRESHOLD
□	16	2	CBLM:UNDH:3075:I1	CBLM_UNDH_3075_I1	THRESHOLD
□	16	3	CBLM:UNDH:3175:I1	CBLM_UNDH_3175_I1	THRESHOLD
□	16	4	CBLM:UNDH:3275:I1	CBLM_UNDH_3275_I1	THRESHOLD
□	16	9	CBLM:UNDH:2775:I0	CBLM_UNDH_2775_I0	THRESHOLD
□	16	10	CBLM:UNDH:2875:I0	CBLM_UNDH_2875_I0	THRESHOLD
□	16	11	CBLM:UNDH:2975:I0	CBLM_UNDH_2975_I0	THRESHOLD
□	16	12	CBLM:UNDH:3075:I0	CBLM_UNDH_3075_I0	THRESHOLD
□	16	13	CBLM:UNDH:3175:I0	CBLM_UNDH_3175_I0	THRESHOLD
□	16	14	CBLM:UNDH:3275:I0	CBLM_UNDH_3275_I0	THRESHOLD
□	16	15	CBLM:UNDH:2775:I1	CBLM_UNDH_2775_I1	THRESHOLD
□	16	16	CBLM:UNDH:2875:I1	CBLM_UNDH_2875_I1	THRESHOLD

36 Link Node 141

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDH:MP06:HEARTBEAT	SIOC_UNDH_MP06_HEARTBEAT	STATE
□	2	10	SIOC:UNDH:MP07:HEARTBEAT	SIOC_UNDH_MP07_HEARTBEAT	STATE
□	3	1	OTRS:DMPH:695:IN_LIMIT	OTRS_DMPH_695_IN_LIMIT	POSITION
□	3	2	OTRS:DMPH:695:OUT_LIMIT	OTRS_DMPH_695_OUT_LIMIT	POSITION
□	3	4	BEND:DMPH:395:ON	BEND_DMPH_395_ON	STATE
□	3	5	BEND:DMPH:395:OFF	BEND_DMPH_395_OFF	STATE
□	3	9	VVMG:UNDH:2844:POSITION	VVMG_UNDH_2844_POSITION	STATE
□	3	10	VVPG:DMPH:355:POSITION	VVPG_DMPH_355_POSITION	STATE
□	3	11	DUMP:LTUH:970:FLOW_SW	DUMP_LTUH_970_FLOW_SW	STATE
□	4	1	VVPG:UNDH:3798:POSITION	VVPG_UNDH_3798_POSITION	STATE
□	4	2	VVPG:UNDH:4598:POSITION	VVPG_UNDH_4598_POSITION	STATE
□	4	3	VVPG:UNDH:5196:POSITION	VVPG_UNDH_5196_POSITION	STATE
□	4	4	VVMG:UNDH:3298:POSITION	VVMG_UNDH_3298_POSITION	STATE
□	4	5	VVMG:UNDH:3598:POSITION	VVMG_UNDH_3598_POSITION	STATE
□	4	6	VVMG:UNDH:4098:POSITION	VVMG_UNDH_4098_POSITION	STATE
□	4	7	VVMG:UNDH:4398:POSITION	VVMG_UNDH_4398_POSITION	STATE
□	4	8	VVMG:UNDH:2838:POSITION	VVMG_UNDH_2838_POSITION	STATE
□	4	9	VVFS:DMPH:157:POSITION	VVFS_DMPH_157_POSITION	STATE
□	4	11	VVPG:DMPH:396:POSITION	VVPG_DMPH_396_POSITION	STATE
□	4	13	VVMG:DMPH:643:POSITION	VVMG_DMPH_643_POSITION	STATE
□	4	14	VVMG:DMPH:681:POSITION	VVMG_DMPH_681_POSITION	STATE
□	4	15	VVPG:UNDH:2798:POSITION	VVPG_UNDH_2798_POSITION	STATE
□	4	16	VVPG:UNDH:2998:POSITION	VVPG_UNDH_2998_POSITION	STATE
□	6	6	BPMS:UNDH:3090:ORBIT	BPMS_UNDH_3090_ORBIT	STATUS
□	6	16	BPMS:UNDH:2890:ORBIT	BPMS_UNDH_2890_ORBIT	STATUS
□	16	9	CBLM:UNDH:4575:I0	CBLM_UNDH_4575_I0	THRESHOLD
□	16	10	CBLM:UNDH:4675:I0	CBLM_UNDH_4675_I0	THRESHOLD
□	16	11	BEND:DMPH:395:CURRENT	BEND_DMPH_395_CURRENT	THRESHOLD
□	16	15	CBLM:UNDH:4575:I1	CBLM_UNDH_4575_I1	THRESHOLD
□	16	16	CBLM:UNDH:4675:I1	CBLM_UNDH_4675_I1	THRESHOLD

37 Link Node 143

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDH:MP08:HEARTBEAT	SIOC_UNDH_MP08_HEARTBEAT	STATE
□	6	10	BPMS:UNDH:4490:ORBIT	BPMS_UNDH_4490_ORBIT	STATUS
□	6	16	BPMS:UNDH:4690:ORBIT	BPMS_UNDH_4690_ORBIT	STATUS
□	16	1	CBLM:UNDH:3575:I1	CBLM_UNDH_3575_I1	THRESHOLD
□	16	2	CBLM:UNDH:3675:I1	CBLM_UNDH_3675_I1	THRESHOLD
□	16	3	CBLM:UNDH:3775:I1	CBLM_UNDH_3775_I1	THRESHOLD
□	16	4	CBLM:UNDH:3875:I1	CBLM_UNDH_3875_I1	THRESHOLD
□	16	9	CBLM:UNDH:3375:I0	CBLM_UNDH_3375_I0	THRESHOLD
□	16	10	CBLM:UNDH:3475:I0	CBLM_UNDH_3475_I0	THRESHOLD
□	16	11	CBLM:UNDH:3575:I0	CBLM_UNDH_3575_I0	THRESHOLD
□	16	12	CBLM:UNDH:3675:I0	CBLM_UNDH_3675_I0	THRESHOLD
□	16	13	CBLM:UNDH:3775:I0	CBLM_UNDH_3775_I0	THRESHOLD
□	16	14	CBLM:UNDH:3875:I0	CBLM_UNDH_3875_I0	THRESHOLD
□	16	15	CBLM:UNDH:3375:I1	CBLM_UNDH_3375_I1	THRESHOLD
□	16	16	CBLM:UNDH:3475:I1	CBLM_UNDH_3475_I1	THRESHOLD

38 Link Node 144

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDH:MP09:HEARTBEAT	SIOC_UNDH_MP09_HEARTBEAT	STATE
□	5	12	BPMS:UNDH:4290:ORBIT	BPMS_UNDH_4290_ORBIT	STATUS
□	6	6	BPMS:UNDH:4090:ORBIT	BPMS_UNDH_4090_ORBIT	STATUS
□	6	10	BPMS:UNDH:3690:ORBIT	BPMS_UNDH_3690_ORBIT	STATUS
□	6	16	BPMS:UNDH:3890:ORBIT	BPMS_UNDH_3890_ORBIT	STATUS
□	16	1	CBLM:UNDH:4175:I1	CBLM_UNDH_4175_I1	THRESHOLD
□	16	2	CBLM:UNDH:4275:I1	CBLM_UNDH_4275_I1	THRESHOLD
□	16	3	CBLM:UNDH:4375:I1	CBLM_UNDH_4375_I1	THRESHOLD
□	16	4	CBLM:UNDH:4475:I1	CBLM_UNDH_4475_I1	THRESHOLD
□	16	9	CBLM:UNDH:3975:I0	CBLM_UNDH_3975_I0	THRESHOLD
□	16	10	CBLM:UNDH:4075:I0	CBLM_UNDH_4075_I0	THRESHOLD
□	16	11	CBLM:UNDH:4175:I0	CBLM_UNDH_4175_I0	THRESHOLD
□	16	12	CBLM:UNDH:4275:I0	CBLM_UNDH_4275_I0	THRESHOLD
□	16	13	CBLM:UNDH:4375:I0	CBLM_UNDH_4375_I0	THRESHOLD
□	16	14	CBLM:UNDH:4475:I0	CBLM_UNDH_4475_I0	THRESHOLD
□	16	15	CBLM:UNDH:3975:I1	CBLM_UNDH_3975_I1	THRESHOLD
□	16	16	CBLM:UNDH:4075:I1	CBLM_UNDH_4075_I1	THRESHOLD

39 Link Node 145

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	3	1	MPLN:FEEH:1:TXIFASTFLT	MPLN_FEEH_1_TXIFASTFLT	STATE
□	3	2	MPLN:FEEH:2:TXIFASTFLT	MPLN_FEEH_2_TXIFASTFLT	STATE
□	3	3	VVFS:FEEH:1:POSITION	VVFS_FEEH_1_POSITION	STATE
□	3	4	MPLN:FEEH:1:XRTHOMSFSTFLT	MPLN_FEEH_1_XRTHOMSFSTFLT	STATE
□	3	9	MPLN:FEEH:1:VACFASTFLT	MPLN_FEEH_1_VACFASTFLT	STATE
□	3	10	MPLN:FEEH:2:VACFASTFLT	MPLN_FEEH_2_VACFASTFLT	STATE
□	3	11	MPLN:FEEH:1:MCFASTFLT	MPLN_FEEH_1_MCFASTFLT	STATE
□	3	12	MPLN:FEEH:2:MCFASTFLT	MPLN_FEEH_2_MCFASTFLT	STATE
□	3	13	MPLN:FEEH:1:OPTFASTFLT	MPLN_FEEH_1_OPTFASTFLT	STATE
□	3	14	MPLN:FEEH:2:OPTFASTFLT	MPLN_FEEH_2_OPTFASTFLT	STATE
□	3	15	MPLN:FEEH:1:GASFASTFLT	MPLN_FEEH_1_GASFASTFLT	STATE
□	3	16	MPLN:FEEH:2:GASFASTFLT	MPLN_FEEH_2_GASFASTFLT	STATE
□	4	1	MPLN:FEEH:1:RATEREQ	MPLN_FEEH_1_RATEREQ	STATE
□	4	2	MPLN:FEEH:10:RATEREQ	MPLN_FEEH_10_RATEREQ	STATE
□	4	3	MPLN:FEEH:120:RATEREQ	MPLN_FEEH_120_RATEREQ	STATE
□	4	4	MPLN:FEEH:1:SPARE	MPLN_FEEH_1_SPARE	STATE
□	4	5	MPLN:FEEH:2:SPARE	MPLN_FEEH_2_SPARE	STATE
□	4	6	MPLN:FEEH:3:SPARE	MPLN_FEEH_3_SPARE	STATE
□	4	7	MPLN:FEEH:1:FASTFLT	MPLN_FEEH_1_FASTFLT	STATE
□	4	8	MPLN:FEEH:2:FASTFLT	MPLN_FEEH_2_FASTFLT	STATE
□	4	9	MPLN:FEEH:1:PWRCLASS	MPLN_FEEH_1_PWRCLASS	STATE
□	4	10	MPLN:FEEH:2:PWRCLASS	MPLN_FEEH_2_PWRCLASS	STATE
□	4	11	MPLN:FEEH:3:PWRCLASS	MPLN_FEEH_3_PWRCLASS	STATE
□	4	12	MPLN:FEEH:4:PWRCLASS	MPLN_FEEH_4_PWRCLASS	STATE
□	4	13	MPLN:FEEH:5:PWRCLASS	MPLN_FEEH_5_PWRCLASS	STATE
□	4	14	MPLN:FEEH:6:PWRCLASS	MPLN_FEEH_6_PWRCLASS	STATE
□	4	15	MPLN:FEEH:7:PWRCLASS	MPLN_FEEH_7_PWRCLASS	STATE
□	4	16	MPLN:FEEH:15:PWRCLASS	MPLN_FEEH_15_PWRCLASS	STATE

40 Link Node 147

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDH:MP11:HEARTBEAT	SIOC_UNDH_MP11_HEARTBEAT	STATE
□	2	11	BPMS:UNDH:4790:XCUHBR	BPMS_UNDH_4790_XCUHBR	ORBIT
□	2	12	BPMS:UNDH:4790:YCUHBR	BPMS_UNDH_4790_YCUHBR	ORBIT
□	16	9	CBLM:UNDH:4775:I0	CBLM_UNDH_4775_I0	THRESHOLD
□	16	15	CBLM:UNDH:4775:I1	CBLM_UNDH_4775_I1	THRESHOLD

41 Link Node 195

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	BPMS:UNDS:2490:YCUSBR	BPMS_UNDS_2490_YCUSBR	ORBIT
□	2	4	BPMS:UNDS:2690:XCUSBR	BPMS_UNDS_2690_XCUSBR	ORBIT
□	2	5	BPMS:UNDS:2690:YCUSBR	BPMS_UNDS_2690_YCUSBR	ORBIT
□	2	6	BPMS:UNDS:2790:XCUSBR	BPMS_UNDS_2790_XCUSBR	ORBIT
□	2	7	BPMS:UNDS:2790:YCUSBR	BPMS_UNDS_2790_YCUSBR	ORBIT
□	2	8	BPMS:UNDS:2890:XCUSBR	BPMS_UNDS_2890_XCUSBR	ORBIT
□	2	9	SIOC:CLTS:MP01:HEARTBEAT	SIOC_CLTS_MP01_HEARTBEAT	STATE
□	2	10	KICK:CLTS:185:TREF	KICK_CLTS_185_TREF	TIMING
□	2	11	KICK:CLTS:185:TDES	KICK_CLTS_185_TDES	TIMING
□	2	12	LASR:IN20:475:PWR	LASR_IN20_475_PWR	THRESHOLD
□	2	13	BPMS:UNDS:1990:YCUSBR	BPMS_UNDS_1990_YCUSBR	ORBIT
□	2	14	BPMS:UNDS:2190:XCUSBR	BPMS_UNDS_2190_XCUSBR	ORBIT
□	2	15	BPMS:UNDS:2190:YCUSBR	BPMS_UNDS_2190_YCUSBR	ORBIT
□	2	16	BPMS:UNDS:2490:XCUSBR	BPMS_UNDS_2490_XCUSBR	ORBIT
□	4	1	BEND:CLTS:765:ON	BEND_CLTS_765_ON	STATE
□	4	2	BEND:CLTS:765:OFF	BEND_CLTS_765_OFF	STATE
□	4	9	VVPG:CLTS:372:POSITION	VVPG_CLTS_372_POSITION	STATE
□	4	11	BEND:CLTS:280:ON	BEND_CLTS_280_ON	STATE
□	4	12	BEND:CLTS:280:OFF	BEND_CLTS_280_OFF	STATE
□	4	13	KICK:CLTS:185:ON	KICK_CLTS_185_ON	STATE
□	4	14	KICK:CLTS:185:OFF	KICK_CLTS_185_OFF	STATE
□	4	15	BEND:CLTS:180:ON	BEND_CLTS_180_ON	STATE
□	4	16	BEND:CLTS:180:OFF	BEND_CLTS_180_OFF	STATE
□	16	9	KICK:CLTS:185:CURRENT	KICK_CLTS_185_CURRENT	THRESHOLD
□	16	10	BEND:CLTS:280:CURRENT	BEND_CLTS_280_CURRENT	THRESHOLD
□	16	11	BEND:CLTS:180:CURRENT	BEND_CLTS_180_CURRENT	THRESHOLD
□	16	12	BEND:CLTS:765:CURRENT	BEND_CLTS_765_CURRENT	THRESHOLD

42 Link Node 199

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	BPMS:UNDS:3190:XCUSBR	BPMS_UNDS_3190_XCUSBR	ORBIT
□	2	2	BPMS:UNDS:3190:YCUSBR	BPMS_UNDS_3190_YCUSBR	ORBIT
□	2	3	BPMS:UNDS:3290:XCUSBR	BPMS_UNDS_3290_XCUSBR	ORBIT
□	2	4	BPMS:UNDS:3290:YCUSBR	BPMS_UNDS_3290_YCUSBR	ORBIT
□	2	5	BPMS:UNDS:3390:XCUSBR	BPMS_UNDS_3390_XCUSBR	ORBIT
□	2	6	BPMS:UNDS:3390:YCUSBR	BPMS_UNDS_3390_YCUSBR	ORBIT
□	2	7	BPMS:UNDS:3490:XCUSBR	BPMS_UNDS_3490_XCUSBR	ORBIT
□	2	8	BPMS:UNDS:3490:YCUSBR	BPMS_UNDS_3490_YCUSBR	ORBIT
□	2	9	SIOC:BSYS:MP01:HEARTBEAT	SIOC_BSYS_MP01_HEARTBEAT	STATE
□	2	10	SIOC:BSYS:MP02:HEARTBEAT	SIOC_BSYS_MP02_HEARTBEAT	STATE
□	2	11	SIOC:BSYS:MP03:HEARTBEAT	SIOC_BSYS_MP03_HEARTBEAT	STATE
□	2	12	BPMS:UNDS:2890:YCUSBR	BPMS_UNDS_2890_YCUSBR	ORBIT
□	2	13	BPMS:UNDS:2990:XCUSBR	BPMS_UNDS_2990_XCUSBR	ORBIT
□	2	14	BPMS:UNDS:2990:YCUSBR	BPMS_UNDS_2990_YCUSBR	ORBIT
□	2	15	BPMS:UNDS:3090:XCUSBR	BPMS_UNDS_3090_XCUSBR	ORBIT
□	2	16	BPMS:UNDS:3090:YCUSBR	BPMS_UNDS_3090_YCUSBR	ORBIT
□	4	9	VVFS:LTUS:109:POSITION	VVFS_LTUS_109_POSITION	STATE
□	4	10	VVPG:LTUS:108:POSITION	VVPG_LTUS_108_POSITION	STATE
□	4	11	VVPG:LTUS:272:POSITION	VVPG_LTUS_272_POSITION	STATE
□	4	12	VVMG:LTUS:185:POSITION	VVMG_LTUS_185_POSITION	STATE
□	4	13	VVMG:LTUS:348:POSITION	VVMG_LTUS_348_POSITION	STATE
□	4	14	VVPG:BSYS:904:POSITION	VVPG_BSYS_904_POSITION	STATE
□	4	15	COLL:BSYS:859:TEMP	COLL_BSYS_859_TEMP	STATE

43 Link Node 202

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	BPMS:UNDS:3890:YCUSBR	BPMS_UNDS_3890_YCUSBR	ORBIT
□	2	2	BPMS:UNDS:3990:XCUSBR	BPMS_UNDS_3990_XCUSBR	ORBIT
□	2	3	BPMS:UNDS:3990:YCUSBR	BPMS_UNDS_3990_YCUSBR	ORBIT
□	2	4	BPMS:UNDS:4090:XCUSBR	BPMS_UNDS_4090_XCUSBR	ORBIT
□	2	5	BPMS:UNDS:4090:YCUSBR	BPMS_UNDS_4090_YCUSBR	ORBIT
□	2	6	BPMS:UNDS:4190:XCUSBR	BPMS_UNDS_4190_XCUSBR	ORBIT
□	2	7	BPMS:UNDS:4190:YCUSBR	BPMS_UNDS_4190_YCUSBR	ORBIT
□	2	8	BPMS:UNDS:4290:XCUSBR	BPMS_UNDS_4290_XCUSBR	ORBIT
□	2	9	SIOC:BSYS:MP04:HEARTBEAT	SIOC_BSYS_MP04_HEARTBEAT	STATE
□	2	10	KICK:LTUS:350:TREF	KICK_LTUS_350_TREF	TIMING
□	2	11	KICK:LTUS:350:TDES	KICK_LTUS_350_TDES	TIMING
□	2	12	BPMS:UNDS:3690:XCUSBR	BPMS_UNDS_3690_XCUSBR	ORBIT
□	2	13	BPMS:UNDS:3690:YCUSBR	BPMS_UNDS_3690_YCUSBR	ORBIT
□	2	14	BPMS:UNDS:3790:XCUSBR	BPMS_UNDS_3790_XCUSBR	ORBIT
□	2	15	BPMS:UNDS:3790:YCUSBR	BPMS_UNDS_3790_YCUSBR	ORBIT
□	2	16	BPMS:UNDS:3890:XCUSBR	BPMS_UNDS_3890_XCUSBR	ORBIT
□	4	1	COLL:LTUS:345:TEMP	COLL_LTUS_345_TEMP	STATE
□	4	2	COLL:LTUS:116:TEMP	COLL_LTUS_116_TEMP	STATE
□	4	3	KICK:LTUS:350:ON	KICK_LTUS_350_ON	STATE
□	4	4	KICK:LTUS:350:OFF	KICK_LTUS_350_OFF	STATE
□	4	16	COLL:LTUS:235:TEMP	COLL_LTUS_235_TEMP	STATE
□	16	9	KICK:LTUS:350:CURRENT	KICK_LTUS_350_CURRENT	THRESHOLD

44 Link Node 203

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	BPMS:UNDS:4690:XCUSBR	BPMS_UNDS_4690_XCUSBR	ORBIT
□	2	2	BPMS:UNDS:4690:YCUSBR	BPMS_UNDS_4690_YCUSBR	ORBIT
□	2	3	BPMS:UNDS:4790:XCUSBR	BPMS_UNDS_4790_XCUSBR	ORBIT
□	2	4	BPMS:UNDS:4790:YCUSBR	BPMS_UNDS_4790_YCUSBR	ORBIT
□	2	5	BPMS:UNDS:2590:XCUSBR	BPMS_UNDS_2590_XCUSBR	ORBIT
□	2	6	BPMS:UNDS:2590:YCUSBR	BPMS_UNDS_2590_YCUSBR	ORBIT
□	2	9	SIOC:LTUS:MP01:HEARTBEAT	SIOC_LTUS_MP01_HEARTBEAT	STATE
□	2	10	BPMS:UNDS:4290:YCUSBR	BPMS_UNDS_4290_YCUSBR	ORBIT
□	2	11	BPMS:UNDS:4390:XCUSBR	BPMS_UNDS_4390_XCUSBR	ORBIT
□	2	12	BPMS:UNDS:4390:YCUSBR	BPMS_UNDS_4390_YCUSBR	ORBIT
□	2	13	BPMS:UNDS:4490:XCUSBR	BPMS_UNDS_4490_XCUSBR	ORBIT
□	2	14	BPMS:UNDS:4490:YCUSBR	BPMS_UNDS_4490_YCUSBR	ORBIT
□	2	15	BPMS:UNDS:4590:XCUSBR	BPMS_UNDS_4590_XCUSBR	ORBIT
□	2	16	BPMS:UNDS:4590:YCUSBR	BPMS_UNDS_4590_YCUSBR	ORBIT

45 Link Node 204

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:LTUS:MP02:HEARTBEAT	SIOC_LTUS_MP02_HEARTBEAT	STATE
□	2	10	BPMS:UNDS:3590:XCUSBR	BPMS_UNDS_3590_XCUSBR	ORBIT
□	2	11	BPMS:UNDS:3590:YCUSBR	BPMS_UNDS_3590_YCUSBR	ORBIT
□	2	12	BPMS:UNDS:1690:XCUSBR	BPMS_UNDS_1690_XCUSBR	ORBIT
□	2	13	BPMS:UNDS:1690:YCUSBR	BPMS_UNDS_1690_YCUSBR	ORBIT
□	2	14	BPMS:UNDS:1990:XCUSBR	BPMS_UNDS_1990_XCUSBR	ORBIT
□	16	9	BEND:DMPS:400:CURRENT	BEND_DMPS_400_CURRENT	THRESHOLD
□	16	10	BEND:LTUS:525:CURRENT	BEND_LTUS_525_CURRENT	THRESHOLD

46 Link Node 205

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:LTUS:MP03:HEARTBEAT	SIOC_LTUS_MP03_HEARTBEAT	STATE
□	3	9	OTRS:LTUS:417:P1_LMTSW	OTRS_LTUS_417_P1_LMTSW	POSITION
□	3	10	OTRS:LTUS:417:OUT_LMTSW	OTRS_LTUS_417_OUT_LMTSW	POSITION
□	3	11	OTRS:LTUS:417:P2_LMTSW	OTRS_LTUS_417_P2_LMTSW	POSITION
□	4	1	BEND:DMPS:400:ON	BEND_DMPS_400_ON	STATE
□	4	2	BEND:DMPS:400:OFF	BEND_DMPS_400_OFF	STATE
□	4	3	BEND:LTUS:525:ON	BEND_LTUS_525_ON	STATE
□	4	4	BEND:LTUS:525:OFF	BEND_LTUS_525_OFF	STATE
□	4	6	COLL:LTUS:372:TEMP	COLL_LTUS_372_TEMP	STATE
□	4	9	VVPG:LTUS:442:POSITION	VVPG_LTUS_442_POSITION	STATE
□	4	10	VVPG:LTUS:586:POSITION	VVPG_LTUS_586_POSITION	STATE
□	4	11	VVMG:LTUS:451:POSITION	VVMG_LTUS_451_POSITION	STATE
□	4	12	VVMG:LTUS:505:POSITION	VVMG_LTUS_505_POSITION	STATE
□	4	13	VVMG:LTUS:552:POSITION	VVMG_LTUS_552_POSITION	STATE
□	4	14	VVMG:LTUS:656:POSITION	VVMG_LTUS_656_POSITION	STATE

47 Link Node 206

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:LTUS:MP04:HEARTBEAT	SIOC_LTUS_MP04_HEARTBEAT	STATE
□	2	10	SIOC:LTUS:MP05:HEARTBEAT	SIOC_LTUS_MP05_HEARTBEAT	STATE
□	2	11	WIGG:LTUS:724:US_IN	WIGG_LTUS_724_US_IN	STATE
□	4	12	VVMG:LTUS:744:POSITION	VVMG_LTUS_744_POSITION	STATE
□	4	13	VVPG:LTUS:726:POSITION	VVPG_LTUS_726_POSITION	STATE
□	4	14	VVPG:LTUS:757:POSITION	VVPG_LTUS_757_POSITION	STATE

48 Link Node 208

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDS:MP01:HEARTBEAT	SIOC_UNDS_MP01_HEARTBEAT	STATE
□	2	10	MPS:UNDS:1:SXRSS_GUARDIAN_ON	MPS_UNDS_1_SXRSS_GUARDIAN_ON	STATE
□	2	11	MPS:UNDS:1:SXRSS_GUARDIAN_OK	MPS_UNDS_1_SXRSS_GUARDIAN_OK	STATE
□	2	12	MPS:UNDS:1:CBLM_RMON_STATE	MPS_UNDS_1_CBLM_RMON_STATE	STATE
□	2	13	MPS:UNDS:1:CBLM_WDOG_STATE	MPS_UNDS_1_CBLM_WDOG_STATE	STATE
□	3	9	MIRR:UNDS:3520:IN_LIMIT	MIRR_UNDS_3520_IN_LIMIT	POSITION
□	3	10	MIRR:UNDS:3520:OUT_LIMIT	MIRR_UNDS_3520_OUT_LIMIT	POSITION
□	4	1	BEND:UNDS:3510:ON	BEND_UNDS_3510_ON	STATE
□	4	2	BEND:UNDS:3510:OFF	BEND_UNDS_3510_OFF	STATE
□	4	3	MIRR:UNDS:3560:IN_LIMIT	MIRR_UNDS_3560_IN_LIMIT	POSITION
□	4	4	MIRR:UNDS:3560:OUT_LIMIT	MIRR_UNDS_3560_OUT_LIMIT	POSITION
□	4	5	MIRR:UNDS:3565:IN_LIMIT	MIRR_UNDS_3565_IN_LIMIT	POSITION
□	4	6	MIRR:UNDS:3565:OUT_LIMIT	MIRR_UNDS_3565_OUT_LIMIT	POSITION
□	4	7	SLIT:UNDS:3555:IN_LIMIT	SLIT_UNDS_3555_IN_LIMIT	POSITION
□	4	8	SLIT:UNDS:3555:OUT_LIMIT	SLIT_UNDS_3555_OUT_LIMIT	POSITION
□	4	9	VVPG:UNDS:1651:POSITION	VVPG_UNDS_1651_POSITION	STATE
□	4	10	VVPG:UNDS:2177:POSITION	VVPG_UNDS_2177_POSITION	STATE
□	4	11	VVPG:UNDS:2877:POSITION	VVPG_UNDS_2877_POSITION	STATE
□	4	13	DUMP:LTUS:972:IN_LIMIT	DUMP_LTUS_972_IN_LIMIT	POSITION
□	4	14	DUMP:LTUS:972:OUT_LIMIT	DUMP_LTUS_972_OUT_LIMIT	POSITION
□	4	15	VVMG:LTUS:802:POSITION	VVMG_LTUS_802_POSITION	STATE
□	4	16	VVMG:LTUS:827:POSITION	VVMG_LTUS_827_POSITION	STATE
□	6	6	BPMS:UNDS:2590:ORBIT	BPMS_UNDS_2590_ORBIT	STATUS
□	6	10	BPMS:UNDS:1690:ORBIT	BPMS_UNDS_1690_ORBIT	STATUS
□	6	16	BPMS:UNDS:2190:ORBIT	BPMS_UNDS_2190_ORBIT	STATUS

49 Link Node 209

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	1	WIGG:LTUS:770:US_IN	WIGG_LTUS_770_US_IN	STATE
□	2	2	WIGG:LTUS:770:US_OUT	WIGG_LTUS_770_US_OUT	STATE
□	2	3	WIGG:LTUS:770:DS_IN	WIGG_LTUS_770_DS_IN	STATE
□	2	4	WIGG:LTUS:770:DS_OUT	WIGG_LTUS_770_DS_OUT	STATE
□	2	5	WIGG:LTUS:774:US_IN	WIGG_LTUS_774_US_IN	STATE
□	2	6	WIGG:LTUS:774:US_OUT	WIGG_LTUS_774_US_OUT	STATE
□	2	7	WIGG:LTUS:774:DS_IN	WIGG_LTUS_774_DS_IN	STATE
□	2	8	WIGG:LTUS:774:DS_OUT	WIGG_LTUS_774_DS_OUT	STATE
□	2	9	SIOC:LTUS:MP06:HEARTBEAT	SIOC_LTUS_MP06_HEARTBEAT	STATE
□	2	10	WIGG:LTUS:724:US_OUT	WIGG_LTUS_724_US_OUT	STATE
□	2	11	WIGG:LTUS:724:DS_IN	WIGG_LTUS_724_DS_IN	STATE
□	2	12	WIGG:LTUS:724:DS_OUT	WIGG_LTUS_724_DS_OUT	STATE
□	2	13	WIGG:LTUS:726:US_IN	WIGG_LTUS_726_US_IN	STATE
□	2	14	WIGG:LTUS:726:US_OUT	WIGG_LTUS_726_US_OUT	STATE
□	2	15	WIGG:LTUS:726:DS_IN	WIGG_LTUS_726_DS_IN	STATE
□	2	16	WIGG:LTUS:726:DS_OUT	WIGG_LTUS_726_DS_OUT	STATE

50 Link Node 210

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDS:MP02:HEARTBEAT	SIOC_UNDS_MP02_HEARTBEAT	STATE
□	2	10	SIOC:UNDS:MP03:HEARTBEAT	SIOC_UNDS_MP03_HEARTBEAT	STATE
□	2	11	SIOC:UNDS:MP04:HEARTBEAT	SIOC_UNDS_MP04_HEARTBEAT	STATE
□	6	6	BPMS:UNDS:3990:ORBIT	BPMS_UNDS_3990_ORBIT	STATUS
□	6	10	BPMS:UNDS:3590:ORBIT	BPMS_UNDS_3590_ORBIT	STATUS
□	6	16	BPMS:UNDS:3790:ORBIT	BPMS_UNDS_3790_ORBIT	STATUS
□	16	1	CBLM:UNDS:2810:I1	CBLM_UNDS_2810_I1	THRESHOLD
□	16	2	CBLM:UNDS:2910:I1	CBLM_UNDS_2910_I1	THRESHOLD
□	16	3	CBLM:UNDS:3010:I1	CBLM_UNDS_3010_I1	THRESHOLD
□	16	4	CBLM:UNDS:3110:I1	CBLM_UNDS_3110_I1	THRESHOLD
□	16	9	CBLM:UNDS:2610:I0	CBLM_UNDS_2610_I0	THRESHOLD
□	16	10	CBLM:UNDS:2710:I0	CBLM_UNDS_2710_I0	THRESHOLD
□	16	11	CBLM:UNDS:2810:I0	CBLM_UNDS_2810_I0	THRESHOLD
□	16	12	CBLM:UNDS:2910:I0	CBLM_UNDS_2910_I0	THRESHOLD
□	16	13	CBLM:UNDS:3010:I0	CBLM_UNDS_3010_I0	THRESHOLD
□	16	14	CBLM:UNDS:3110:I0	CBLM_UNDS_3110_I0	THRESHOLD
□	16	15	CBLM:UNDS:2610:I1	CBLM_UNDS_2610_I1	THRESHOLD
□	16	16	CBLM:UNDS:2710:I1	CBLM_UNDS_2710_I1	THRESHOLD

51 Link Node 213

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	4	DUMP:LTUS:972:MPSPOWER	DUMP_LTUS_972_MPSPOWER	THRESHOLD
□	2	9	SIOC:UNDS:MP05:HEARTBEAT	SIOC_UNDS_MP05_HEARTBEAT	STATE
□	2	10	MPS:UNDS:3500:SXRSS_WDOG	MPS_UNDS_3500_SXRSS_WDOG	STATE
□	2	11	MPS:UNDS:3500:SX_HRMNC_ENERGY	MPS_UNDS_3500_SX_HRMNC_ENERGY	STATE
□	2	12	MPS:UNDS:3500:SX_SS_ENERGY	MPS_UNDS_3500_SX_SS_ENERGY	STATE
□	2	13	MPS:UNDS:3500:SX_HRMNC_X	MPS_UNDS_3500_SX_HRMNC_X	STATE
□	2	14	MPS:UNDS:3500:SX_SS_X	MPS_UNDS_3500_SX_SS_X	STATE
□	2	15	MPS:UNDS:3500:SX_SASE_X	MPS_UNDS_3500_SX_SASE_X	STATE
□	3	1	VVMG:UNDS:4998:POSITION	VVMG_UNDS_4998_POSITION	STATE
□	3	2	MOVR:UNDS:5013:IN_LMTSW	MOVR_UNDS_5013_IN_LMTSW	POSITION
□	3	3	MOVR:UNDS:5013:OUT_LMTSW	MOVR_UNDS_5013_OUT_LMTSW	POSITION
□	3	9	BEND:DMPS:395:ON	BEND_DMPS_395_ON	STATE
□	3	10	BEND:DMPS:395:OFF	BEND_DMPS_395_OFF	STATE
□	3	11	VVMG:UNDS:3511:POSITION	VVMG_UNDS_3511_POSITION	STATE
□	3	12	VVMG:UNDS:3568:POSITION	VVMG_UNDS_3568_POSITION	STATE
□	3	13	YAGS:UNDS:3575:IN_LIMIT	YAGS_UNDS_3575_IN_LIMIT	POSITION
□	3	14	YAGS:UNDS:3575:OUT_LIMIT	YAGS_UNDS_3575_OUT_LIMIT	POSITION
□	3	15	YAGS:UNDS:3795:IN_LIMIT	YAGS_UNDS_3795_IN_LIMIT	POSITION
□	3	16	YAGS:UNDS:3795:OUT_LIMIT	YAGS_UNDS_3795_OUT_LIMIT	POSITION
□	4	1	VVPG:UNDS:3877:POSITION	VVPG_UNDS_3877_POSITION	STATE
□	4	2	VVPG:UNDS:4477:POSITION	VVPG_UNDS_4477_POSITION	STATE
□	4	3	VVPG:UNDS:5198:POSITION	VVPG_UNDS_5198_POSITION	STATE
□	4	6	OTRS:DMPS:695:IN_LIMIT	OTRS_DMPS_695_IN_LIMIT	POSITION
□	4	7	OTRS:DMPS:695:OUT_LIMIT	OTRS_DMPS_695_OUT_LIMIT	POSITION
□	4	8	VVPG:DMPS:355:POSITION	VVPG_DMPS_355_POSITION	STATE
□	4	9	VVFS:DMPS:157:POSITION	VVFS_DMPS_157_POSITION	STATE
□	4	11	VVPG:DMPS:396:POSITION	VVPG_DMPS_396_POSITION	STATE
□	4	13	VVMG:DMPS:643:POSITION	VVMG_DMPS_643_POSITION	STATE
□	4	14	VVMG:DMPS:681:POSITION	VVMG_DMPS_681_POSITION	STATE
□	4	15	VVPG:UNDS:3477:POSITION	VVPG_UNDS_3477_POSITION	STATE
□	4	16	VVPG:UNDS:3577:POSITION	VVPG_UNDS_3577_POSITION	STATE
□	5	12	BPMS:UNDS:3390:ORBIT	BPMS_UNDS_3390_ORBIT	STATUS
□	6	6	BPMS:UNDS:3190:ORBIT	BPMS_UNDS_3190_ORBIT	STATUS
□	6	10	BPMS:UNDS:2790:ORBIT	BPMS_UNDS_2790_ORBIT	STATUS
□	6	16	BPMS:UNDS:2990:ORBIT	BPMS_UNDS_2990_ORBIT	STATUS
□	16	1	CBLM:UNDS:3510:I1	CBLM_UNDS_3510_I1	THRESHOLD
□	16	2	CBLM:UNDS:3610:I1	CBLM_UNDS_3610_I1	THRESHOLD
□	16	3	CBLM:UNDS:3710:I1	CBLM_UNDS_3710_I1	THRESHOLD

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	16	4	CBLM:UNDS:3810:I1	CBLM_UNDS_3810_I1	THRESHOLD
□	16	10	CBLM:UNDS:3410:I0	CBLM_UNDS_3410_I0	THRESHOLD
□	16	11	CBLM:UNDS:3510:I0	CBLM_UNDS_3510_I0	THRESHOLD
□	16	12	CBLM:UNDS:3610:I0	CBLM_UNDS_3610_I0	THRESHOLD
□	16	13	CBLM:UNDS:3710:I0	CBLM_UNDS_3710_I0	THRESHOLD
□	16	14	CBLM:UNDS:3810:I0	CBLM_UNDS_3810_I0	THRESHOLD
□	16	16	CBLM:UNDS:3410:I1	CBLM_UNDS_3410_I1	THRESHOLD

52 Link Node 214

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDS:MP06:HEARTBEAT	SIOC_UNDS_MP06_HEARTBEAT	STATE
□	16	1	CBLM:UNDS:4110:I1	CBLM_UNDS_4110_I1	THRESHOLD
□	16	2	CBLM:UNDS:4210:I1	CBLM_UNDS_4210_I1	THRESHOLD
□	16	3	CBLM:UNDS:4310:I1	CBLM_UNDS_4310_I1	THRESHOLD
□	16	4	CBLM:UNDS:4410:I1	CBLM_UNDS_4410_I1	THRESHOLD
□	16	9	CBLM:UNDS:3910:I0	CBLM_UNDS_3910_I0	THRESHOLD
□	16	10	CBLM:UNDS:4010:I0	CBLM_UNDS_4010_I0	THRESHOLD
□	16	11	CBLM:UNDS:4110:I0	CBLM_UNDS_4110_I0	THRESHOLD
□	16	12	CBLM:UNDS:4210:I0	CBLM_UNDS_4210_I0	THRESHOLD
□	16	13	CBLM:UNDS:4310:I0	CBLM_UNDS_4310_I0	THRESHOLD
□	16	14	CBLM:UNDS:4410:I0	CBLM_UNDS_4410_I0	THRESHOLD
□	16	15	CBLM:UNDS:3910:I1	CBLM_UNDS_3910_I1	THRESHOLD
□	16	16	CBLM:UNDS:4010:I1	CBLM_UNDS_4010_I1	THRESHOLD

53 Link Node 215

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	SIOC:UNDS:MP07:HEARTBEAT	SIOC_UNDS_MP07_HEARTBEAT	STATE
□	5	12	BPMS:UNDS:4690:ORBIT	BPMS_UNDS_4690_ORBIT	STATUS
□	6	6	BPMS:UNDS:4490:ORBIT	BPMS_UNDS_4490_ORBIT	STATUS
□	6	10	BPMS:UNDS:4090:ORBIT	BPMS_UNDS_4090_ORBIT	STATUS
□	6	16	BPMS:UNDS:4290:ORBIT	BPMS_UNDS_4290_ORBIT	STATUS
□	16	1	CBLM:UNDS:4710:I1	CBLM_UNDS_4710_I1	THRESHOLD
□	16	2	CBLM:UNDS:3310:I1	CBLM_UNDS_3310_I1	THRESHOLD
□	16	3	CBLM:UNDS:4810:I1	CBLM_UNDS_4810_I1	THRESHOLD
□	16	4	CBLM:UNDS:3210:I1	CBLM_UNDS_3210_I1	THRESHOLD
□	16	9	CBLM:UNDS:4510:I0	CBLM_UNDS_4510_I0	THRESHOLD
□	16	10	CBLM:UNDS:4610:I0	CBLM_UNDS_4610_I0	THRESHOLD
□	16	11	CBLM:UNDS:4710:I0	CBLM_UNDS_4710_I0	THRESHOLD
□	16	12	CBLM:UNDS:3310:I0	CBLM_UNDS_3310_I0	THRESHOLD
□	16	13	CBLM:UNDS:4810:I0	CBLM_UNDS_4810_I0	THRESHOLD
□	16	14	CBLM:UNDS:3210:I0	CBLM_UNDS_3210_I0	THRESHOLD
□	16	15	CBLM:UNDS:4510:I1	CBLM_UNDS_4510_I1	THRESHOLD
□	16	16	CBLM:UNDS:4610:I1	CBLM_UNDS_4610_I1	THRESHOLD

54 Link Node 216

Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	2	9	MPLN:FEES:1:CRIXMCFASTFLT	MPLN_FEES_1_CRIXMCFASTFLT	STATE
□	2	10	MPLN:FEES:1:CRIXVACFASTFLT	MPLN_FEES_1_CRIXVACFASTFLT	STATE
□	2	11	MPLN:FEES:1:QRIXMCFASTFLT	MPLN_FEES_1_QRIXMCFASTFLT	STATE
□	2	12	MPLN:FEES:1:QRIXVACFASTFLT	MPLN_FEES_1_QRIXVACFASTFLT	STATE
□	2	13	MPLN:FEES:1:TXIVACFASTFLT	MPLN_FEES_1_TXIVACFASTFLT	STATE
□	2	14	MPLN:FEES:2:TXIVACFASTFLT	MPLN_FEES_2_TXIVACFASTFLT	STATE
□	2	15	MPLN:FEES:1:TXIMCFASTFLT	MPLN_FEES_1_TXIMCFASTFLT	STATE
□	2	16	MPLN:FEES:1:TXIOPTFASTFLT	MPLN_FEES_1_TXIOPTFASTFLT	STATE
□	3	1	MPLN:FEES:2:RIXMCFASTFLT	MPLN_FEES_2_RIXMCFASTFLT	STATE
□	3	2	MPLN:FEES:1:TMOVACFASTFLT	MPLN_FEES_1_TMOVACFASTFLT	STATE
□	3	3	MPLN:FEES:2:TMOVACFASTFLT	MPLN_FEES_2_TMOVACFASTFLT	STATE
□	3	4	MPLN:FEES:1:TMOMCFASTFLT	MPLN_FEES_1_TMOMCFASTFLT	STATE
□	3	5	MPLN:FEES:2:TMOMCFASTFLT	MPLN_FEES_2_TMOMCFASTFLT	STATE
□	3	6	MPLN:FEES:1:TMOOPTFASTFLT	MPLN_FEES_1_TMOOPTFASTFLT	STATE
□	3	7	MPLN:FEES:1:RIXVACFASTFLT	MPLN_FEES_1_RIXVACFASTFLT	STATE
□	3	8	MPLN:FEES:1:RIXOPTFASTFLT	MPLN_FEES_1_RIXOPTFASTFLT	STATE
□	3	9	MPLN:FEES:1:VACFASTFLT	MPLN_FEES_1_VACFASTFLT	STATE
□	3	10	MPLN:FEES:2:VACFASTFLT	MPLN_FEES_2_VACFASTFLT	STATE
□	3	11	MPLN:FEES:1:MCFASTFLT	MPLN_FEES_1_MCFASTFLT	STATE
□	3	12	MPLN:FEES:2:MCFASTFLT	MPLN_FEES_2_MCFASTFLT	STATE
□	3	13	MPLN:FEES:1:GASATTNFSTFLT	MPLN_FEES_1_GASATTNFSTFLT	STATE
□	3	14	MPLN:FEES:1:GMDFSTFLT	MPLN_FEES_1_GMDFSTFLT	STATE
□	3	15	MPLN:FEES:1:XGMDFSTFLT	MPLN_FEES_1_XGMDFSTFLT	STATE
□	3	16	MPLN:FEES:1:RIXMCFASTFLT	MPLN_FEES_1_RIXMCFASTFLT	STATE
□	4	1	MPLN:FEES:1:RATEREQ	MPLN_FEES_1_RATEREQ	STATE
□	4	2	MPLN:FEES:10:RATEREQ	MPLN_FEES_10_RATEREQ	STATE
□	4	3	MPLN:FEES:120:RATEREQ	MPLN_FEES_120_RATEREQ	STATE
□	4	4	STPR:FEES:ST1K4:IN	STPR_FEES_ST1K4_IN	STATE
□	4	5	STPR:FEES:MR1K1:IN	STPR_FEES_MR1K1_IN	STATE
□	4	6	STPR:FEES:ST1K2:IN	STPR_FEES_ST1K2_IN	STATE
□	4	7	MPLN:FEES:1:FASTFLT	MPLN_FEES_1_FASTFLT	STATE
□	4	8	MPLN:FEES:2:FASTFLT	MPLN_FEES_2_FASTFLT	STATE
□	4	9	MPLN:FEES:1:PWRCLASS	MPLN_FEES_1_PWRCLASS	STATE
□	4	10	MPLN:FEES:2:PWRCLASS	MPLN_FEES_2_PWRCLASS	STATE
□	4	11	MPLN:FEES:3:PWRCLASS	MPLN_FEES_3_PWRCLASS	STATE
□	4	12	MPLN:FEES:4:PWRCLASS	MPLN_FEES_4_PWRCLASS	STATE
□	4	13	MPLN:FEES:5:PWRCLASS	MPLN_FEES_5_PWRCLASS	STATE
□	4	14	MPLN:FEES:6:PWRCLASS	MPLN_FEES_6_PWRCLASS	STATE

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Verified	Card	Channel	PV Prefix	Device Name	Fault Name
□	4	15	MPLN:FEES:7:PWRCLASS	MPLN_FEES_7_PWRCLASS	STATE
□	4	16	MIRR:FEES:MR1K1:OUT	MIRR_FEES_MR1K1_OUT	POSITION