MPS Logic:
2018-05-08-a

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1 Always Evaluated

1.1 Bypass Recover

Name	*A*	PC	MS	BYKIK	LHS
Not recovered	F	0 Hz	0 Hz	–	–
Ok	T	30 Hz	30 Hz	–	–

Where
A = `LP_BYPASS_RECOVER`

1.2 Gun Waveguide Vacuum Summary

Name	*A*	PC	MS	BYKIK	LHS
Not Ok	F	0 Hz	0 Hz	–	–
Ok	T	30 Hz	30 Hz	–	–

Where
A = `MKSU_LI10_61_WGVACSUM_STATE`

1.3 IOC-IN10-MP01 MPS Support IOC Heartbeat

Name	*A*	PC	MS	BYKIK	LHS
Not Ok	F	0 Hz	0 Hz	–	–
Ok	T	30 Hz	30 Hz	–	–

Where
A = `IOC_IN10_MP01_HEARTBEATSUM_STATE`

1.4 MPS Beam Permit: Gun RF

Name	*A*	PC	MS	BYKIK	LHS
Not Permitted	F	0 Hz	0 Hz	–	–
Permitted	T	30 Hz	30 Hz	–	–

Where
A = LP_ALLOWS_BEAM_POCKELS_CELL

1.5 MPS Beam Permit: Mechanical Shutter

Name	A	PC	MS	BYKIK	LHS
Not Permitted	F	–	0 Hz	–	–
Permitted	T	–	30 Hz	–	–

Where
A = LP_ALLOWS_BEAM_MECH_SHUT

1.6 MPS Mechanical Shutter Inconsistent State

Name	A	PC	MS	BYKIK	LHS
Readback Does Not Match	F	0 Hz	0 Hz	–	–
Ok	T	30 Hz	30 Hz	–	–

Where
A = SHUT_LT10_950_FAULT_STATE

1.7 MPS Mechanical Shutter Position

Name	B	A	PC	MS	BYKIK	LHS
Moving	F	F	0 Hz	0 Hz	–	–
Out	F	T	30 Hz	30 Hz	–	–
In	T	F	30 Hz	30 Hz	–	–
Brooken	T	T	0 Hz	0 Hz	–	–

Where
A = SHUT_LT10_950_OUT_POSITION,
B = SHUT_LT10_950_IN_POSITION

1.8 PIC HVPS IN10 - Location LKG10-1538

Name	A	PC	MS	BYKIK	LHS
Not On	F	0 Hz	0 Hz	–	–
On	T	30 Hz	30 Hz	–	–

Where
A = PICM_IN10_1_HV_PWR_STATE

1.9 PIC Trigger Missed (LN11)

Name	A	PC	MS	BYKIK	LHS
Missed	F	0 Hz	0 Hz	–	–
Ok	T	30 Hz	30 Hz	–	–

Where
A = PICM_IN10_300_NO_TRIG_STATE

1.10 PIC Watchdog: Injector

Name	A	PC	MS	BYKIK	LHS
Not Ok	F	0 Hz	0 Hz	–	–
Ok	T	30 Hz	30 Hz	–	–

Where
A = PICM_IN10_LN11_HEARTBEATSUM_STATE

1.11 PLC-IN10-LN11 MPS Support PLC Heartbeat

Name	A	PC	MS	BYKIK	LHS
Not Ok	F	0 Hz	0 Hz	–	–
Ok	T	30 Hz	30 Hz	–	–

Where
A = PLC_IN10_LN11_HEARTBEATSUM_STATE

1.12 Rate Request: Gun RF 1 Hz

Name	A	PC	MS	BYKIK	LHS
Not Requested	F	30 Hz	–	–	–
Requested	T	1 Hz	–	–	–

Where
A = LP_MAX_RATE_PC_1_HZ

1.13 Rate Request: Gun RF 10 Hz

Name	A	PC	MS	BYKIK	LHS
Not Requested	F	30 Hz	–	–	–
Requested	T	10 Hz	–	–	–

Where
A = LP_MAX_RATE_PC_10_HZ

1.14 VVPG IN10 155 Position

Name	A	PC	MS	BYKIK	LHS
Not Out	F	0 Hz	0 Hz	–	–
Out	T	30 Hz	30 Hz	–	–

Where
A = VVPG_IN10_155_POSITION_STATE

1.15 VVPG IN10 215 Position

Name	A	PC	MS	BYKIK	LHS
Not Out	F	0 Hz	0 Hz	–	–
Out	T	30 Hz	30 Hz	–	–

Where
A = VVPG_IN10_215_POSITION_STATE

1.16 VVS Circuit Breaker: LI10

Name	A	PC	MS	BYKIK	LHS
Not On	F	0 Hz	0 Hz	–	–
On	T	30 Hz	30 Hz	–	–

Where
A = VVS_LI10_1_BREAKER_STATE

1.17 YAG IN10 241 Position

Name	*B*	*A*	PC	MS	BYKIK	LHS
Moving	F	F	0 Hz	0 Hz	–	–
Out	F	T	30 Hz	30 Hz	–	–
In	T	F	10 Hz	10 Hz	–	–
Broken	T	T	0 Hz	0 Hz	–	–

Where
A = `YAGS_IN10_241_OUT_LIMSW_POSITION`,
B = `YAGS_IN10_241_IN_LIMSW_POSITION`