


City of Winnipeg
Upgrades to the McPhillips and Tache
Pumping Stations
Tender Opportunity 1070-2019

APPENDIX D

I/O List

 SNC • LAVALIN	I/O LIST - PLC-M806	Document Code 661472-0000-48EL-0001
		Revision 00
Client City of Winnipeg		
Project McPhillips MCC Replacement		
Area HVAC Panel CP-M826		

Notes / Comments


Revisions					
Rev	Description	Date	By	Checked	Approved
0	Issued Tender and Consturction	2019-11-13	C. Dubon	S. Boghosian	S. Boghosian

HVAC

PLC	RIO	Rack	Module	Point	Tag	Description	F/S Active Low	0 State	1 State	I/O Type	Notes
PLC-M806	LOCAL	0	3	0	ESL-G7661	MCC-G766 Voltage Present	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	1	ESL-C7101	MCC-C710 Voltage Present	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	2	ESL-C7201	MCC-C720E Voltage Present	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	3		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	3	4		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	3	5	AIT-M6901-1	YA-M6901-1, AIT-M6901-1 Controller Fail	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	6	ASH-M6901-1	AE-M6901-1 20% LEL Switch	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	7	AIT-M6901-2	YA-M6901-2, AIT-M6901-2 Controller Fail	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	8	ASH-M6901-2	AE-M6901-2 20% LEL Switch	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	9	AIT-M6901-3	YA-M6901-3, AIT-M6901-3 Controller Fail	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	10	ASH-M6901-3	AE-M6901-3 20% LEL Switch	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	11	AIT-M6902	YA-M6902, AIT-M6902 Controller Fail	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	12	ASH-M6902	AE-M6902-1 & AE-M6902-2 CO Detection Switch	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	13	AIT-M6401	YA-M6401, AIT-M6401 Leak Detection Controller Fail	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	14	ASH-M6401	Refrigerant HF01234ZE Level High	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	15	AIT-G6901	YA-G6901 AIT-G6901 Controller Fail	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	16	ASH-G6901	AE-M6901 20% LEL Switch	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	17		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	3	18		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	3	19	ESL-M7101	MCC-M710 Voltage Present	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	20	ESL-M7201	MCC-M720 Voltage Present	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	21	ESL-M7301	MCC-M730E Voltage Present	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	22		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	3	23	TSH-M7100	XFMR-M710 High Winding Temp	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	24	TSH-M7200	XFMR-M720 High Winding Temp	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	25		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	3	26	FACP-M922.Trouble	Fire Alarm Trouble	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	27	FACP-M922.Alarm	Fire Alarm	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	3	28		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	3	29		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	3	30		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	3	31		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	0	TSL-M6043	Mix Air Temperature Low (Freezestat)	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	4	1		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	2		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	3		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	4	PDS-M6021	Air Filter Differential Pressure	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	4	5		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	6		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	7		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	8		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	9		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	10	SF-M611.Run	Supply Fan FN1 Running		Not Running	Running	DI - 24VDC	
PLC-M806	LOCAL	0	4	11	SF-M611.Auto	Supply Fan FN1 Auto Mode		Hand Mode	Auto Mode	DI - 24VDC	
PLC-M806	LOCAL	0	4	12	SF-M611.Rdy	Supply Fan FN1 Ready		Not Ready	Ready	DI - 24VDC	
PLC-M806	LOCAL	0	4	13	SF-M611.Fit	Supply Fan FN1 Fault	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	4	14	XV-M6111.ZSC	Supply Fan FN1 Damper XV-M6111 Closed		Not Closed	Closed	DI - 24VDC	
PLC-M806	LOCAL	0	4	15	XV-M6111.ZSO	Supply Fan FN1 Damper XV-M6111 Opened		Not Opened	Opened	DI - 24VDC	
PLC-M806	LOCAL	0	4	16	FSL-M6112	Supply Fan FN1 Air Low Flow	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	4	17		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	18		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	19		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	20	P-M641.Run	Chilled Water Pump P-M641 Running		Not Running	Running	DI - 24VDC	
PLC-M806	LOCAL	0	4	21	P-M641.Auto	Chilled Water Pump P-M641 Auto		Hand Mode	Auto Mode	DI - 24VDC	
PLC-M806	LOCAL	0	4	22	P-M641.Fit	Chilled Water Pump P-M641 Fault	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	4	23	FSL-M6411	Chilled Water Pump P-M641 Flow Low	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	4	24		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	25		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	26	P-M642.Run	Chilled Water Pump P-M642 Running		Not Running	Running	DI - 24VDC	
PLC-M806	LOCAL	0	4	27	P-M642.Auto	Chilled Water Pump P-M642 Auto Mode		Hand Mode	Auto Mode	DI - 24VDC	
PLC-M806	LOCAL	0	4	28	P-M642.Fit	Chilled Water Pump P-M642 Fault	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	4	29	FSL-M6421	Chilled Water Pump P-M642 Flow Low	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	4	30		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	4	31		SPARE				DI - 24VDC	

PLC	RIO	Rack	Module	Point	Tag	Description	F/S Active Low	0 State	1 State	I/O Type	Notes
PLC-M806	LOCAL	0	5	0	XV-M6144.ZSC	Outdoor Intake Air Damper XV-M6144 Closed		Not Closed	Closed	DI - 24VDC	
PLC-M806	LOCAL	0	5	1	XV-M6144.ZSO	Outdoor Intake Air Damper XV-M6144 Opened		Not Opened	Opened	DI - 24VDC	
PLC-M806	LOCAL	0	5	2	CP-M826.UPS01	Power Supply Alarm	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	5	3		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	5	4		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	5	5	CHLR-M640.Fl1	Chiller CHLR-M640 Fault		Normal	Alarm	DI - 24VDC	
PLC-M807	LOCAL	0	5	6	CHLR-M640.Run	Chiller CHLR-M640 Run		Not Running	Running	DI - 24VDC	
PLC-M808	LOCAL	0	5	7	CHLR-M640.Rdy	Chiller CHLR-M640 Ready		Normal	Alarm	DI - 24VDC	
PLC-M809	LOCAL	0	5	8		SPARE				DI - 24VDC	
PLC-M810	LOCAL	0	5	9		SPARE				DI - 24VDC	
PLC-M811	LOCAL	0	5	10	SF-M612.Run	Supply Fan FN2 Running		Not Running	Running	DI - 24VDC	
PLC-M812	LOCAL	0	5	11	SF-M612.Auto	Supply Fan FN2 Auto		Hand Mode	Auto Mode	DI - 24VDC	
PLC-M813	LOCAL	0	5	12	SF-M612.Rdy	Supply Fan FN2 Ready		Not Ready	Ready	DI - 24VDC	
PLC-M814	LOCAL	0	5	13	SF-M612.Fl1	Supply Fan FN2 Fault	F/S	Alarm	Normal	DI - 24VDC	
PLC-M815	LOCAL	0	5	14	XV-M6121.ZSC	Supply Fan FN2 Damper XV-M6121 Closed		Not Closed	Closed	DI - 24VDC	
PLC-M806	LOCAL	0	5	15	XV-M6121.ZSO	Supply Fan FN2 Damper XV-M6121 Opened		Not Opened	Opened	DI - 24VDC	
PLC-M806	LOCAL	0	5	16	FSL-M6122	Supply Fan FN2 Air Flow Low	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	5	17		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	5	18		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	5	19		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	5	20	SF-M613.Run	Supply Fan FN3 Running		Not Running	Running	DI - 24VDC	
PLC-M806	LOCAL	0	5	21	SF-M613.Auto	Supply Fan FN3 Auto		Hand Mode	Auto Mode	DI - 24VDC	
PLC-M806	LOCAL	0	5	22	SF-M613.Rdy	Supply Fan FN3 Ready		Not Ready	Ready	DI - 24VDC	
PLC-M806	LOCAL	0	5	23	SF-M613.Fl1	Supply Fan FN3 Fault	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	5	24	XV-M6131.ZSC	Supply Fan FN3 Damper XV-M6131 Closed		Not Closed	Closed	DI - 24VDC	
PLC-M806	LOCAL	0	5	25	XV-M6131.ZSO	Supply Fan FN3 Damper XV-M6131 Opened		Not Opened	Opened	DI - 24VDC	
PLC-M806	LOCAL	0	5	26	FSL-M6132	Supply Fan FN3 Air Flow Low	F/S	Alarm	Normal	DI - 24VDC	
PLC-M806	LOCAL	0	5	27		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	5	28		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	5	29		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	5	30		SPARE				DI - 24VDC	
PLC-M806	LOCAL	0	5	31		SPARE				DI - 24VDC	

PLC	RIO	Rack	Module	Point	Tag	Description	F/S Active Low	0 State	1 State	I/O Type	Notes
PLC-M806	LOCAL	0	6	0	XV-M6144.CmdOpn	Outdoor Intake Air Damper XV-M6144 Open command		Command Close	Command Open	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	1	HCE-M601.CmdOn	Electric Coil Heater On Command		Command Off	Command On	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	2		SPARE				DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	3	CHLR-M640.CmdEnb	Chiller CHLR-M640 Enable Command		Disable Command	Enable Command	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	4		SPARE				DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	5		SPARE				DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	6	SF-M611.CmdRun	Supply Fan FN1 Run Command		Stop Command	Run Command	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	7	SF-M612.CmdRun	Supply Fan FN2 Run Command		Stop Command	Run Command	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	8	SF-M613.CmdRun	Supply Fan FN3 Run Command		Stop Command	Run Command	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	9		SPARE				DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	10		SPARE				DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	11	P-M641.CmdRun	Chilled Water Pump P-M641 Run Command		Stop Command	Run Command	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	12	P-M642.CmdRun	Chilled Water Pump P-M642 Run Command		Stop Command	Run Command	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	13	FC-1.CmdOn	Electrical Room Cooling Fan FC-1 On Command		Command Off	Command On	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	14	FC-2.CmdOn	Electrical Room Cooling Fan FC-2 On Command		Command Off	Command On	DO - 24VDC Wet	
PLC-M806	LOCAL	0	6	15	FC-3.CmdOn	Electrical Room Cooling Fan FC-3 On Command		Command Off	Command On	DO - 24VDC Wet	
PLC-M806	LOCAL	0	7	0	FV-M6145.ZT	Outdoor Air Flow Damper FV-M6145 Position	NA	NA	NA	AI - 4-20mA Isol	1 Signal for 4 Damper
PLC-M806	LOCAL	0	7	1	FV-M6146.ZT	Return Air Flow Damper FV-M6146 Position	NA	NA	NA	AI - 4-20mA Isol	1 Signal for 2 Damper
PLC-M806	LOCAL	0	7	2		SPARE				AI - 4-20mA Isol	
PLC-M806	LOCAL	0	7	3		SPARE				AI - 4-20mA Isol	
PLC-M806	LOCAL	0	7	4	TT-M6011	Discharge Air Temperature	NA	NA	NA	AI - 4-20mA Isol	
PLC-M806	LOCAL	0	7	5	TT-M6041	Outdoor Air Temperature	NA	NA	NA	AI - 4-20mA Isol	
PLC-M806	LOCAL	0	7	6	TT-M6301	Electrical Room Temperature	NA	NA	NA	AI - 4-20mA Isol	
PLC-M806	LOCAL	0	7	7		SPARE				AI - 4-20mA Isol	
PLC-M806	LOCAL	0	8	0	FV-M6147.ZT	Station Relief Air Flow Damper FV-M6147 Position	NA	NA	NA	AI - 4-20mA Isol	1 Damper
PLC-M806	LOCAL	0	8	1	FV-M6148.ZT	Station Relief Air Flow Damper FV-M6148 Position	NA	NA	NA	AI - 4-20mA Isol	1 Damper
PLC-M806	LOCAL	0	8	2		SPARE				AI - 4-20mA Isol	
PLC-M806	LOCAL	0	8	3		SPARE				AI - 4-20mA Isol	
PLC-M806	LOCAL	0	8	4	TT-M6042	Mixed Air Temperature	NA	NA	NA	AI - 4-20mA Isol	
PLC-M806	LOCAL	0	8	5	TT-M6045	Pumping Station Temperature	NA	NA	NA	AI - 4-20mA Isol	
PLC-M806	LOCAL	0	8	6	TT-M6403	Supply Chilled Water Temperature	NA	NA	NA	AI - 4-20mA Isol	
PLC-M806	LOCAL	0	8	7	TT-M6404	Return Chilled Water Temperature	NA	NA	NA	AI - 4-20mA Isol	
PLC-M806	LOCAL	0	9	0	FV-M6145.CmdZ	Outdoor Air Flow Damper FV-M6145 Position Command	NA	NA	NA	AO - 4-20mA Isol	1 Signal for 4 Damper
PLC-M806	LOCAL	0	9	1	FV-M6146.CmdZ	Return Air Flow Damper FV-M6146 Position Command	NA	NA	NA	AO - 4-20mA Isol	1 Signal for 2 Damper
PLC-M806	LOCAL	0	9	2		SPARE				AO - 4-20mA Isol	
PLC-M806	LOCAL	0	9	3		SPARE				AO - 4-20mA Isol	
PLC-M806	LOCAL	0	10	0	FV-M6147.CmdZ	Station Relief Air Flow Damper FV-M6147 Position Command	NA	NA	NA	AO - 4-20mA Isol	1 Damper
PLC-M806	LOCAL	0	10	1	FV-M6148.CmdZ	Station Relief Air Flow Damper FV-M6148 Position Command	NA	NA	NA	AO - 4-20mA Isol	1 Damper
PLC-M806	LOCAL	0	10	2		SPARE				AO - 4-20mA Isol	
PLC-M806	LOCAL	0	10	3		SPARE				AO - 4-20mA Isol	

 SNC • LAVALIN	Modified Existing I/O LIST - PLC-11	Document Code	
		Revision	00
Client City of Winnipeg			
Project Tache MCC Replacement			
Area Main Control Panel			

Notes / Comments

Revisions					
Rev	Description	Date	By	Checked	Approved
0	Issued Tender and Consturction	2019-11-13	C. Dubon	S. Boghosian	S. Boghosian

Legend:

	Points Removed
	Points Added
	Re Wired

PLC	Source Address	Point Tag Name	New Tag Name	Point Description	Alarm (A) Status (S)	"0" State / Units	"1" State / Range	Comments	Type	Rack	Slot	Point
11	30001	TMS_040_FT	FIT-M0401	Station Inlet Flow		0-150 ML/D		Re-use existing point	AI	4	4	1
11	30002	TMD_050_PT	PIT-M0501	Discharge Header Pressure		60-90 psig		820-4095	AI	4	4	2
11	30003	TMR_101_LT	LT-Y1011	Surge Tank Level		229-239 m		820-4095	AI	4	4	3
11	30004	---	XV-Y1110.ZI	(spare)				Added to new logic	AI	4	4	4
11	30005		TT-M6000	Main Floor Temperature Transmitter				New Transmitter	AI	4	5	1
11	30006		LIT-M0402	Surge Tank Level				New Transmitter	AI	4	5	2
11	30007			(spare)					AI	4	5	3
11	30008			(spare)					AI	4	5	4
11	40001	TMR_101_ZC	XV-Y1110.ZC	TSA Valve Control		0 - 100 %		2400-4000	AO	2	4	1
11	40002			(spare)					AO	2	4	2
11	40003			(spare)					AO	2	5	1
11	40004			(spare)					AO	2	5	2

PLC	Source Address	Point Tag Name	New Tag Name	Point Description	Alarm (A) Status (S)	"0" State / Units	"1" State / Range	Comments	Type	Rack	Slot	Point
11	10007	TME_041_MM	PP-1.Run	PP #1 Pump Run Status	S	Not Running	Running	Re-Wire to New MCC-M710	DI	3	1	7
11	10008	TME_041_MF	PP-1.FAIL	PP #1 Fail Status	A	Alarm	Normal	Re-Wire to New MCC-M710	DI	3	1	8
11	10003	TME_041_YS_1	PP-1.AUTO	PP #1 and DV-1 Auto mode	S	Hand	Auto	Re-Wire to New MCC-M710	DI	3	1	3
11	10009	TME_041_HS_4	HS-M0410-2	PP #1 Alarm Reset		-	Reset		DI	3	2	1
11	10004	TME_041_QF_2	UIY-M0411.Fail	PP #1 Monitor Fail	A	Alarm	Normal		DI	3	1	4
11	10005	TME_041_UAH	UIY-M0411.TAH	PP #1 Common Temperature Alarm	A	Alarm	Normal		DI	3	1	5
11	10006	TME_041_UAHH	UIY-M0411.TAHH	PP #1 Common Temperature Trip	A	Alarm	Normal		DI	3	1	6
11	10001	TMD_041_ZB	XV-M0412.ZSC	PP #1 DV-1 Valve Close Status	S	Not Closed	Closed		DI	3	1	1
11	10002	TMD_041_ZD	XV-M0412.ZSO	PP #1 DV-1 Valve Open Status	S	Not Open	Open		DI	3	1	2
11	10023	TME_042_MM	PP-2.Run	PP #2 Pump Run Status	S	Not Running	Running	Re-Wire to New MCC-M710	DI	3	3	7
11	10024	TME_042_MF	PP-2.FAIL	PP #2 Fail Status	A	Alarm	Normal	Re-Wire to New MCC-M710	DI	3	3	8
11	10019	TME_042_YS_1	PP-2.AUTO	PP #2 and DV-2 Auto mode	S	Hand	Auto	Re-Wire to New MCC-M710	DI	3	3	3
11	10025	TME_042_HS_4	HS-M0420-2	PP #2 Alarm Reset		-	Reset		DI	3	4	1
11	10020	TME_042_QF_2	UIY-M0421.Fail	PP #2 Monitor Fail	A	Alarm	Normal		DI	3	3	4
11	10021	TME_042_UAH	UIY-M0421.TAH	PP #2 Common Temperature Alarm	A	Alarm	Normal		DI	3	3	5
11	10022	TME_042_UAHH	UIY-M0421.TAHH	PP #2 Common Temperature Trip	A	Alarm	Normal		DI	3	3	6
11	10017	TMD_042_ZB	XV-M0422.ZSC	PP #2 DV-2 Valve Close Status	S	Not Closed	Closed		DI	3	3	1
11	10018	TMD_042_ZD	XV-M0422.ZSO	PP #2 DV-2 Valve Open Status	S	Not Open	Open		DI	3	3	2
11	10039	TME_043_MM	PP-3.Run	PP #3 Pump Run Status	S	Not Running	Running	Re-Wire to New MCC-M710	DI	3	5	7
11	10040	TME_043_MF	PP-3.FAIL	PP #3 Fail Status	A	Alarm	Normal	Re-Wire to New MCC-M710	DI	3	5	8
11	10035	TME_043_YS_1	PP-3.AUTO	PP #3 and DV-3 Auto mode	S	Hand	Auto	Re-Wire to New MCC-M710	DI	3	5	3
11	10036	TME_043_QF_2	UIY-M0431.Fail	PP #3 Monitor Fail	A	Alarm	Normal		DI	3	5	4
11	10037	TME_043_UAH	UIY-M0431.TAH	PP #3 Common Temperature Alarm	A	Alarm	Normal		DI	3	5	5
11	10038	TME_043_UAHH	UIY-M0431.TAHH	PP #3 Common Temperature Trip	A	Alarm	Normal		DI	3	5	6
11	10033	TMD_043_ZB	XV-M0432.ZSC	PP #3 DV-3 Valve Close Status	S	Not Closed	Closed		DI	3	5	1
11	10034	TMD_043_ZD	XV-M0432.ZSO	PP #3 DV-3 Valve Open Status	S	Not Open	Open		DI	3	5	2
11	10028			(spare)					DI	3	4	4
11	10029			(spare)					DI	3	4	5
11	10012	TMR_104_YS	HS-Y1040.Comp	TBV Valve COH Status		Hand - Off	Computer		DI	3	2	4
11	10013	TMR_104_ZB	XV-Y1040.ZSC	TBV Valve Close Status		Not Closed	Closed		DI	3	2	5
11	10014	TMR_104_ZD	XV-Y1040.ZSO	TBV Valve Open Status		Not Open	Open		DI	3	2	6
11	10011	TMR_101_YS	XV-Y1110.HS_Rem	TSA Valve COH Status		Local - Stop	Remote		DI	3	2	3
11	10027	TMZ_900_PAL	PSL-M5000	Instrument Air Pressure Low	A	Alarm	Normal	Didn't observe at site, but shows up in logic and in SCADA list.	DI	3	4	3
11	10015	TMH_600_TAH	TSH-M6000	Station Temperature High		High	Normal	Removed During MCC Replacement	DI	3	2	7
11	10016	TMH_600_TAL	TSL-M6000	Station Temperature Low		Low	Normal	Removed During MCC Replacement	DI	3	2	8
11	10030	TMZ_913_EF	ESL-M7101	600V Status	A	Alarm	Normal	Re-use existing point	DI	3	4	6
11	10032	TMZ_920_XSM	SCP-M920.HSS	Burglar Alarm Lockout	A	Alarm	Normal		DI	3	4	8
11	10031	TMZ_920_XA	SCP-M920.XA	Burglar Alarm	A	Alarm	Normal		DI	3	4	7
11	10010	TME_041_HS_3	---	PP #1 Lamp Test		-	Test	Lamp Test button no longer used - all LEDs are now push to test	DI	3	2	2
11	10026	TME_042_HS_3	---	PP #2 Lamp Test		-	Test	Lamp Test button no longer used - all LEDs are now push to test	DI	3	4	2

PLC	Source Address	Point Tag Name	New Tag Name	Point Description	Alarm (A) Status (S)	"0" State / Units	"1" State / Range	Comments	Type	Rack	Slot	Point
11	10041	TME_043_HS_4	HS-M0430-2	PP #3 Alarm Reset		-	Reset		DI	4	1	1
11	10048	TMZ_970_ZB	XV-Y1110.ZSC	Storage Tank Spill Valve Close Stat		Not Closed	Closed		DI	4	1	8
11	10044	TMZ_921_GAHH	ASHH-M5210	40% LEL	A	Alarm	Normal	Didn't observe at site, but shows up in logic and in SCADA list. Possibly in valve pit	DI	4	1	4
11	10043	TMZ_921_GAH	ASH-M5210	20% LEL	A	Alarm	Normal	Didn't observe at site, but shows up in logic and in SCADA list. Possibly in valve pit	DI	4	1	3
11	10046	TMZ_940_LAH	LSHH-M5900	Station Flood Second Level		Flood	Normal	Old logic identified this as "Station Flood"	DI	4	1	6
11	10051	TMZ_941_LAH	LSH-M5900	Station Flood First Level		Flood	Normal	Old logic identified this as "Valve Vault Flood"	DI	4	2	3
11	10050		LSH-M5910	Bypass Valve Pit Flood		Flood	Normal	Old logic identified this as spare	DI	4	2	2
11	10047			(spare)					DI	4	1	7
11	10049	---		(spare)				Used to be "low air spill valve "; now goes to spare in logic	DI	4	2	1
11	10054	TMZ_911_JAL	UPS-M711.BattNorm	UPS Battery Status		Alarm	Normal	Moved from 10028 according to SCADA List	DI	4	2	6
11	10056	TMZ_911_YS	UPS-M711.BypNorm	UPS Bypass Status		In Bypass	Normal	Should be there, but doesn't show up in Logic	DI	4	2	8
11	10052		FACP-M922.Trouble	Fire Alarm Trouble	A	Alarm	Normal	New Fire Alarm Panel	DI	4	2	4
11	10053	TMZ_911_EM	UPS-M711.LineOk	UPS Line Status		Alarm	Normal	Should be there, but doesn't show up in Logic	DI	4	2	5
11	10055	TMZ_911_QF	UPS-M711.StatusOk	UPS Status		Alarm	Normal	Moved from 10029 according to SCADA List	DI	4	2	7
11	10045		FACP-M922.Alarm	Fire Alarm	A	Alarm	Normal	New Fire Alarm Panel (Replacing existing signal)	DI	4	1	5
11	10042	TME_043_HS_3	---	PP #3 Lamp Test		-	Test	Lamp Test button no longer used - all LEDs are now push to test	DI	4	1	2

PLC	Source Address	Point Tag Name	New Tag Name	Point Description	Alarm (A) Status (S)	"0" State / Units	"1" State / Range	Comments	Type	Rack	Slot	Point
11	3	TME_041_MN	P-M041.CmdRun	PP #1 Start / Stop		-	Start		DO	1	3	3
11	5			(spare)					DO	1	3	5
11	6			(spare)					DO	1	3	6
11	7			(spare)					DO	1	3	7
11	8			(spare)					DO	1	3	8
11	4	TME_041_QJ	YL-M0410-3.CmdOn	PP #1 Ready To Start		-	Ready		DO	1	3	4
11	13			(spare)					DO	1	4	5
11	14			(spare)					DO	1	4	6
11	15			(spare)					DO	1	4	7
11	16			(spare)					DO	1	4	8
11	1	TMD_041_VB	XV-M0412.CmdCls	PP #1 DV-1 Valve Close		-	Close		DO	1	3	1
11	21			(spare)					DO	1	5	5
11	22			(spare)					DO	1	5	6
11	23			(spare)					DO	1	5	7
11	24			(spare)					DO	1	5	8
11	2	TMD_041_VD	XV-M0412.CmdOpn	PP #1 DV-1 Valve Open		-	Open		DO	1	3	2
11	11	TME_042_MN	P-M042.CmdRun	PP #2 Start / Stop		-	Start		DO	1	4	3
11	12	TME_042_QJ	YL-M0420-3.CmdOn	PP #2 Ready To Start		-	Ready		DO	1	4	4
11	9	TMD_042_VB	XV-M0422.CmdCls	PP #2 DV-2 Valve Close		-	Close		DO	1	4	1
11	10	TMD_042_VD	XV-M0422.CmdOpn	PP #2 DV-2 Valve Open		-	Open		DO	1	4	2
11	19	TME_043_MN	P-M043.CmdRun	PP #3 Start / Stop		-	Start		DO	1	5	3
11	20	TME_043_QJ	YL-M0430-3.CmdOn	PP #3 Ready To Start		-	Ready		DO	1	5	4
11	17	TMD_043_VB	XV-M0432.CmdCls	PP #3 DV-3 Valve Close		-	Close		DO	1	5	1
11	18	TMD_043_VD	XV-M0432.CmdOpn	PP #3 DV-3 Valve Open		-	Open		DO	1	5	2
11	30	---	U-M040.CmdComp	Force Computer Mode		-	Computer	Output is shown as spare in logic, but logic driving output corresponds to this functionality	DO	2	1	6
11	27			(spare)					DO	2	1	3
11	28			(spare)					DO	2	1	4
11	29			(spare)					DO	2	1	5
11	31			(spare)					DO	2	1	7
11	32			(spare)					DO	2	1	8
11	33			(spare)					DO	2	2	1
11	34			(spare)					DO	2	2	2
11	35			(spare)					DO	2	2	3
11	36			(spare)					DO	2	2	4
11	37			(spare)					DO	2	2	5
11	38			(spare)					DO	2	2	6
11	39			(spare)					DO	2	2	7
11	40			(spare)					DO	2	2	8
11	25	TMR_104_VB	XV-Y1040.CmdCls	TBV Valve Close		-	Close		DO	2	1	1
11	26	TMR_104_VD	XV-Y1040.CmdOpn	TBV Valve Open		-	Open		DO	2	1	2