



TRAP SURVEY DATA LOG

Performed by Apex Industrial Solutions Inc.

DATE	12/3/21	CUSTOMER	Cold Spring Brewery		
TECH NAME	Mike Marketon Keith Svrcek	LOCATION	Cold Spring, MN		
MONTHS		DRIP		TRACER	
YEAR		COIL		PROCESS	

Tag #	1	Location	Boiler Room - South	Application	Type	MFR	Hoffman	PMO	180	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	7 Ft	Drip	Inverted Bucket	Model	B1180A	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction		Supply		Recommendation	
Route No.		Steam Loss						Line In		Pressure In	125	Check Valve?	Yes	Strainer	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Conn Type	NPT	Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		OK		Comments	
				Frequency		Check Valve?		Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out					
				Installed Date				Condensate Load		Temp Alarm									

Tag #	2	Location	Boiler Room - North	Application	Type	MFR	Hoffman	PMO	180	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	6 Ft	Drip	Inverted Bucket	Model	B1180A	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	
Route No.		Steam Loss						Line In		Pressure In	180	Check Valve?	Yes	Strainer	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Conn Type	NPT	Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		OK		Comments	
				Frequency		Check Valve?		Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out					
				Installed Date				Condensate Load		Temp Alarm									

Tag #	3	Location	Boiler Room - North	Application	Type	MFR	Hoffman	PMO	180	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	6 Ft	Drip	Inverted Bucket	Model	B1180A	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	
Route No.		Steam Loss						Line In		Pressure In	125	Check Valve?	Yes	Strainer	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Conn Type	NPT	Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		OK		Comments	
				Frequency		Check Valve?		Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out					
				Installed Date				Condensate Load		Temp Alarm									

Tag #	4	Location	Pasteurizer Area - South Walkway	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	15 Ft	Drip	Float & Thermostatic	Model	125-B4	Conn Size	1"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	Replace with Watson McDaniel WFT-125-14-N
Route No.		Steam Loss						Line In		Pressure In	60	Check Valve?	Yes	Strainer	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Conn Type	NPT	Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		Failed Open		Comments	
				Frequency		Check Valve?		Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out					
				Installed Date				Condensate Load		Temp Alarm									

Tag #	5	Location	Pasteurizer Area - DD Steam In	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	3 Ft	Drip	Inverted Bucket	Model	883	Conn Size	1"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	Replace with Watson McDaniel IB1044-14-N-125
Route No.		Steam Loss						Line In		Pressure In	60	Check Valve?	No	Strainer?	No	Discharge			
Steam Cost		Annual Cost		Months / Year		Conn Type	NPT	Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		Failed Open		Comments	
				Frequency		Check Valve?		Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out					
				Installed Date				Condensate Load		Temp Alarm									

Tag #	6	Location	Pasteurizer Area - DD Heat Condensate	Application	Type	MFR	Hoffman	PMO	175	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	1 Ft	Process	Float & Thermostatic	Model	FT175C8	Conn Size	2"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	No	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In				Not In Service			
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out							

Tag #	7	Location	Filter Area - Single Deck HX	Application	Type	MFR	Armstrong	PMO	60	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	6 Ft	Drip	Inverted Bucket	Model	880	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In				OK			
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out							

Tag #	8	Location	Filter Area - Single Deck HX	Application	Type	MFR	Watson McDaniel	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	4 Ft	Process	Float & Thermostatic	Model	FTE125	Conn Size	2.5"	Shutdown Required?		Transmitter		Direction	Vertical	Supply			Condition	Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	60	Check Valve?	Yes	Strainer?	No	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In				OK			
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	9	Location	Filter Area - CIP HX	Application	Type	MFR	Amrstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	4 Ft	Process	Inverted Bucket	Model	125A3	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	60	Check Valve?	No	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In				Not In Service			
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	10	Location	Batching Office Ramp	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	15 Ft	Drip	Inverted Bucket	Model	TVS-811	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	No	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In				OK			
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	11	Location	Line 3 Warmer - HX Supply	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	8 Ft	Drip	Inverted Bucket	Model	TVS-811	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	No	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In				OK			
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	12	Location	Line 3 Warmer - HX Supply	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	3 Ft	Drip	Inverted Bucket	Model	TVS-811	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Recommendation		
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	No	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In				OK	Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	13	Location	Line 3 Warmer - HX Condensate Return	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	1 Ft	Process	Float & Thermostatic	Model	125A8	Conn Size	2"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Recommendation		
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	60	Check Valve?	No	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In				Not In Service	Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out							

Tag #	14	Location	Line 3 Warmer - Condensate Pump	Application	Type	MFR	Spirax Sarco	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	3 Ft	Drip	Inverted Bucket	Model	B1H	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Recommendation	Replace with Watson McDaniel IB1031-13-N-125	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	60	Check Valve?	No	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In				Failed Open	Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	15	Location	Line 3 - Flash Pasteurizer - HX Supply Line	Application	Type	MFR	Spirax Sarco	PMO	600	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	2 Ft	Drip	Thermodynamic	Model	TD-52	Conn Size	0.5"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Recommendation		
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	60	Check Valve?	No	Strainer?	No	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In				Not In Service	Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out							

Tag #	16	Location	Line 3 - Flash Pasteurizer - HX Condensate Return	Application	Type	MFR	Spirax Sarco	PMO	75	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	1 Ft	Process	Float & Thermostatic	Model	FT175	Conn Size	1"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Recommendation		
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	60	Check Valve?	No	Strainer?	No	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In				Not In Service	Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out							

Tag #	17	Location	Header 3 - Palletizer Area	Application	Type	MFR	Hoffman	PMO	180	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	16 Ft	Drip	Inverted Bucket	Model	B1180A	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Recommendation		
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In				OK	Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	24	Location	Tank Side 3 - CIP Room 1 - HX	Application	Type	MFR	Spirax Sarco	PMO	600	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	3 Ft	Drip	Thermodynamic	Model	TD-52	Conn Size	0.5"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	60	Check Valve?	No	Strainer?	No	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	No	Valve In		OK	Comments				
				Installed Date				Condensate Lift		Temp Alarm		Downstream ISO Valve?	No	Valve Out							

Tag #	25	Location	Tank Side 3 - CIP Room 2 - HX	Application	Type	MFR	Spirax Sarco	PMO	175	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	3 Ft	Process	Float & Thermostatic	Model	FTB175	Conn Size	2"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	60	Check Valve?	No	Strainer?	No	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	No	Valve In		Not In Service	Comments				
				Installed Date				Condensate Lift		Temp Alarm		Downstream ISO Valve?	No	Valve Out							

Tag #	26	Location	Loading Dock - Southwest Corner	Application	Type	MFR	Hoffman	PMO	180	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	12 Ft	Drip	Inverted Bucket	Model	B1180A	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	Yes	Valve In		OK	Comments				
				Installed Date				Condensate Lift		Temp Alarm		Downstream ISO Valve?	Yes	Valve Out							

Tag #	27	Location	MAB Room - CT Supply	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	1 Ft	Drip	Inverted Bucket	Model	811	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	No	Strainer?	Yes	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	Yes	Valve In		OK	Comments				
				Installed Date				Condensate Lift		Temp Alarm		Downstream ISO Valve?	Yes	Valve Out							

Tag #	28	Location	MAB Room - CT Return	Application	Type	MFR	Spirax Sarco	PMO	15	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	1 Ft	Process	Float & Thermostatic	Model	FT15	Conn Size	1.5"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	10	Check Valve?	No	Strainer?	Yes	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	Yes	Valve In		Not in Service	Comments	Discharging to Atmosphere			
				Installed Date				Condensate Lift		Temp Alarm		Downstream ISO Valve?	No	Valve Out							

Tag #	29	Location	MAB Room - Skid Panel 1600	Application	Type	MFR	Spirax Sarco	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	7 Ft	Drip	Inverted Bucket	Model	811	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	Yes	Valve In		OK	Comments				
				Installed Date				Condensate Lift		Temp Alarm		Downstream ISO Valve?	Yes	Valve Out							

Tag #	30	Location	MAB Room - Skid Panel 1600	Application	Type	MFR	Watson McDaniel	PMO	145	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	6 Ft	Process	Float & Thermostatic	Model	FTT-145	Conn Size	1.5"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	150# RF	Line In		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In		Not In Service			Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	31	Location	MAB Room - Skid Panel 1800	Application	Type	MFR	Spirax Sarco	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	7 Ft	Drip	Inverted Bucket	Model	811	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		OK			Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	32	Location	MAB Room - Skid Panel 1800	Application	Type	MFR	Watson McDaniel	PMO	145	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	1 Ft	Process	Float & Thermostatic	Model	FTT-145	Conn Size	1.5"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	150# RF	Line In		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In		Not in Service			Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	33	Location	MAD Room - Skid Panel 2400	Application	Type	MFR	Velan	PMO	250	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	8 Ft	Drip	Bimetallic	Model	Q250	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	No	Strainer?	No	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In		OK			Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out							

Tag #	34	Location	MAB Room - SKid Panel 2400	Application	Type	MFR	Velan	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	7 Ft	Process	Bimetallic	Model	MFT - 1	Conn Size	1"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		Not in Service			Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	35	Location	MAB Room - West Wall	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	4 Ft	Drip	Inverted Bucket	Model	880	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Discharge		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	125	Check Valve?	No	Strainer?	No	Condition			
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		OK			Comments		
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out							

Tag #	36	Location	MAB Room - CT Noval	Application	Type	MFR	Hoffman	PMO	180	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	12 Ft	Drip	Inverted Bucket	Model	B1180A	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	NPT	Line In		Pressure In	125	Pressure Out		Check Valve?	Yes	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	Yes	Valve In				OK	Comments		
				Frequency		Condensate Lift		Condensate Load		Temp Alarm		Downstream ISO Valve?	Yes	Valve Out							

Tag #	37	Location	MAB Room - Steam Header	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	10 Ft	Drip	Inverted Bucket	Model	811	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	Replace with Watson McDaniel IB1032-13-N-125
Route No.		Steam Loss				Conn Type	NPT	Line In		Pressure In	125	Pressure Out		Check Valve?	Yes	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	Yes	Valve In				Failed Prime	Comments		
				Frequency		Condensate Lift		Condensate Load		Temp Alarm		Downstream ISO Valve?	Yes	Valve Out							

Tag #	38	Location	MAB Room - Steam Header	Application	Type	MFR	Hoffman	PMO	180	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	11 Ft	Drip	Inverted Bucket	Model	B1180A	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	NPT	Line In		Pressure In	125	Pressure Out		Check Valve?	Yes	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	Yes	Valve In				OK	Comments		
				Frequency		Condensate Lift		Condensate Load		Temp Alarm		Downstream ISO Valve?	Yes	Valve Out							

Tag #	39	Location	MAB Room - Steam Header	Application	Type	MFR	Hoffman	PMO	180	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	11 Ft	Drip	Inverted Bucket	Model	B1180A	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	NPT	Line In		Pressure In	125	Pressure Out		Check Valve?	Yes	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	Yes	Valve In				OK	Comments		
				Frequency		Condensate Lift		Condensate Load		Temp Alarm		Downstream ISO Valve?	Yes	Valve Out							

Tag #	40	Location	MAB Room - Skid Panel 200	Application	Type	MFR	Watson McDaniel	PMO	145	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	6 Ft	Process	Float & Thermostatic	Model	FTT-145	Conn Size	1.5"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	150# RF	Line In		Pressure In	125	Pressure Out		Check Valve?	Yes	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Line Out		Conductive		Upstream ISO Valve?	No	Valve In				Not In Service	Comments		
				Frequency		Condensate Lift		Condensate Load		Temp Alarm		Downstream ISO Valve?	Yes	Valve Out							

Tag #	41	Location	MAB Room - Skid Panel 400	Application	Type	MFR	Hoffman	PMO	180	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	6 Ft	Drip	Inverted Bucket	Model	B1180A	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	NPT	Line In		Line Out		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Condensate Lift		Conductive		Upstream ISO Valve?	Yes	Valve In				OK	Comments		
				Frequency		Condensate Load		Temp Alarm				Downstream ISO Valve?	Yes	Valve Out							

Tag #	42	Location	MAD Room - Skid Panel 400	Application	Type	MFR	Watson McDaniel	PMO	145	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	5 Ft	Process	Float & Thermostatic	Model	FTT-145	Conn Size	1.5"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	150# RF	Line In		Line Out		Pressure In	125	Check Valve?	Yes	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Condensate Lift		Conductive		Upstream ISO Valve?	No	Valve In				Not In Service	Comments		
				Frequency		Condensate Load		Temp Alarm				Downstream ISO Valve?	No	Valve Out							

Tag #	43	Location	RO Room - Upstairs - CT Steam Supply	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	5 Ft	Drip	Inverted Bucket	Model	883	Conn Size	1"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	NPT	Line In		Line Out		Pressure In	125	Check Valve?	No	Strainer?	No	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Condensate Lift		Conductive		Upstream ISO Valve?	No	Valve In				Not In Service	Comments		
				Frequency		Condensate Load		Temp Alarm				Downstream ISO Valve?	Yes	Valve Out							

Tag #	44	Location	Batching Room 1 - Supply Line	Application	Type	MFR	Armstrong	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	6 Ft	Drip	Inverted Bucket	Model	TVS-811	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	NPT	Line In		Line Out		Pressure In	125	Check Valve?	No	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Condensate Lift		Conductive		Upstream ISO Valve?	Yes	Valve In				OK	Comments		
				Frequency		Condensate Load		Temp Alarm				Downstream ISO Valve?	Yes	Valve Out							

Tag #	45	Location	Batching Room 1 - Supply Line	Application	Type	MFR	Spirax Sarco	PMO	600	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	2 Ft	Drip	Thermodynamic	Model	UTD - 52	Conn Size	0.5"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	NPT	Line In		Line Out		Pressure In	125	Check Valve?	No	Strainer?	Yes	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Condensate Lift		Conductive		Upstream ISO Valve?	Yes	Valve In				OK	Comments		
				Frequency		Condensate Load		Temp Alarm				Downstream ISO Valve?	Yes	Valve Out							

Tag #	46	Location	Batching Room 1 - Supply Line	Application	Type	MFR	Spirax Sarco	PMO	125	Superheat?		Insulation?		Piping			Steam			Follow Up Date?	12/3/23
Outside?		Elevation	1 Ft	Pump Trap	Float & Thermostatic	Model	FTB125	Conn Size	2.5"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply			Condition	Recommendation	
Route No.		Steam Loss				Conn Type	NPT	Line In		Line Out		Pressure In	125	Check Valve?	Yes	Strainer?	No	Discharge			
Steam Cost		Annual Cost		Months / Year		Check Valve?		Condensate Lift		Conductive		Upstream ISO Valve?	No	Valve In				OK	Comments		
				Frequency		Condensate Load		Temp Alarm				Downstream ISO Valve?	Yes	Valve Out							

Tag #	59	Location	Tank Farm Eco Flash	Application	Type	MFR	Spirax Sarco	PMO	-	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	3 Ft	Drip	Bimetallic	Model	BPC32CU	Conn Size	1"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	150# RF	Line In		Pressure In	50	Check Valve?	Yes	Strainer?	No		
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In		OK		Comments	
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out					

Tag #	60	Location	Tank Farm Eco Flash	Application	Type	MFR	Spirax Sarco	PMO	-	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	2 Ft	Process	Bimetallic	Model	BPC32CU	Conn Size	1"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	150# RF	Line In		Pressure In	50	Check Valve?	Yes	Strainer?	No		
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In		OK		Comments	
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out					

Tag #	61	Location	Tank Farm Under Stairs	Application	Type	MFR	Yarway	PMO	650	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	15 Ft	Drip	Thermodynamic	Model	721	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	50	Check Valve?	No	Strainer?	Yes		
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		Not In Service		Comments	
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out					

Tag #	62	Location	Tank Farm Yeast Hydrator	Application	Type	MFR	Velan	PMO	250	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	6 Ft	Drip	Bimetallic	Model	Q250	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	50	Check Valve?	Yes	Strainer?	No		
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In		OK		Comments	
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out					

Tag #	63	Location	Tank Farm Yeast Hydrator	Application	Type	MFR	Velan	PMO	125	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	4 Ft	Process	Bimetallic	Model	MFT-2	Conn Size	1"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	50	Check Valve?	Yes	Strainer?	No		
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	No	Valve In		Not In Service		Comments	
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	No	Valve Out					

Tag #	64	Location	Tank Farm - North Wall by Eye Wash	Application	Type	MFR	Velan	PMO	250	Superheat?		Insulation?		Piping		Steam		Follow Up Date?	12/3/23
Outside?		Elevation	7 Ft	Drip	Bimetallic	Model	Q250	Conn Size	0.75"	Shutdown Required?		Transmitter		Direction	Horizontal	Supply		Recommendation	
Route No.		Steam Loss				Months / Year		Conn Type	NPT	Line In		Pressure In	50	Check Valve?	Yes	Strainer?	Yes		
Steam Cost		Annual Cost		Frequency		Check Valve?		Line Out		Pressure Out		Upstream ISO Valve?	Yes	Valve In		OK		Comments	
				Installed Date				Condensate Lift		Conductive		Downstream ISO Valve?	Yes	Valve Out					

