



DEFECTIVE TRAP REPORT

Trap Survey

Date	5/23/12	Customer	
Technician		Location	Bath VA
Page	4	17	
Months/Year		Drip	12
		Coil	12
		Tracer	12
		Process	12

Tag#	Outside	Location	Elevation	DR	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam	Condition	Recommendation
											Direction	Strainer	Valve In	Valve Out			

176		Bldg 41 Basement Overhead Entry			SAR	600 psig	3/4"		10.0		H		1	1	1	C		PL	
					TD52	1/2"	3/4"		0 psig							O			
Route No.		Months/Year		12	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up Date		Comments			
		Frequency		12			Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive							
		Installed Date			Check Valve				<input type="checkbox"/>	Critical Trap		Do not monitor							

178		Basement Electric Room			DUN	25 psig	3/4"		10.0		V	0	0	0			BT		
					1E	1/2"	3/4"		0 psig							M	O		
Route No.		Months/Year		7	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up Date		Comments			
Steam Cost		Frequency		12			Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive							
20.00 USD		Annual Cost			Check Valve				<input checked="" type="checkbox"/>	Critical Trap		Do not monitor							

179		Basement Electric Room			SAR	25 psig	3/4"		10.0		V	0	0	0				PL	
					H	1/2"	3/4"		0 psig				1			M	O		
Route No.		Months/Year		7	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up Date		Comments			
		Frequency		12			Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive							
		Installed Date			Check Valve				<input checked="" type="checkbox"/>	Critical Trap		Do not monitor							

213		Bldg 41 Rm 203			DUN	25 psig	1/2"		10.0		V	0	0	0				PL	
					1E	1/2"	1/2"		0 psig							M	O		
Route No.		Months/Year		7	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up Date		Comments			
		Frequency		12			Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive				Stopped due to return issue			
		Installed Date			Check Valve				<input type="checkbox"/>	Critical Trap		Do not monitor							

214		Bldg 41 Rm 202			DUN	25 psig	1/2"		10.0		V	0	0	0				PL	
					1E	1/2"	1/2"		0 psig							M	O		
Route No.		Months/Year		7	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up Date		Comments			
		Frequency		12			Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive							
		Installed Date			Check Valve				<input type="checkbox"/>	Critical Trap		Do not monitor							



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Tag#	Outside	Location	Elevation	DR	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam		Condition	Recommendation
											Direction	Strainer	Valve In	Valve Out	Supply	Discharge		

251		By Compresses			DUN	15 psig	3/4"		10.0		V			0	C			LK	
					307	1-1/2"	3/4"		0 psig			1	1			O			
Route No.		Months/Year		12	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments	
Steam Cost		Steam Loss/Yr		46,639 lb/yr	Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor			
20.00 USD		Annual Cost		933 USD	Installed Date		Check Valve		<input type="checkbox"/>										

252		By Compresses			DUN	15 psig	3/4"		10.0		V			0	C			LK	
					307	1-1/2"	3/4"		0 psig			1	1			O			
Route No.		Months/Year		12	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments	
Steam Cost		Steam Loss/Yr		46,639 lb/yr	Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor			
20.00 USD		Annual Cost		933 USD	Installed Date		Check Valve		<input type="checkbox"/>										

268		Next to HX			HOF	15 psig	3/4"		10.0		V				C				
					53FT	3/4"	3/4"		0 psig			1	1	1		O			CD
Route No.		Months/Year		12	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments	
Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor								
Installed Date		Check Valve		<input type="checkbox"/>															

269					HOF	15 psig	3/4"		10.0		V			0					
					53FT	3/4"	3/4"		0 psig			1	1			M	O		CD
Route No.		Months/Year		7	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments	
Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor								
Installed Date		Check Valve		<input type="checkbox"/>															

274		above Attic			HOF	15 psig	1"		10.0		V				C			LK	
					53FT	3/4"	1"		0 psig			1	1	1		O			
Route No.		Months/Year		12	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments	
Steam Cost		Steam Loss/Yr		29,982 lb/yr	Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor			
20.00 USD		Annual Cost		600 USD	Installed Date		Check Valve		<input type="checkbox"/>										



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		Process	12

Tag#	Outside	Location	Elevation	DR	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam	Condition	Recommendation
											Direction	Strainer	Valve In	Valve Out			

281		Emergency Mech Rm			HOF	15 psig	3/4"		10.0		V	0	0	0	C		PL	Recommendation
					FT015H	1-1/4"	3/4"		0 psig						O			
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
		Frequency 12				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive				Steam Valve Leaks				
		Installed Date		Check Valve <input checked="" type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								

294		7TH Floor Mech			HOF	60 psig	3/4"		10.0		V				C		BT	Recommendation
					541FT	3/4"	3/4"		0 psig			1	1	1		O		
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
Steam Cost 20.00 USD		Frequency 12				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive								
Annual Cost 186,557 lb/yr		Installed Date		Check Valve <input type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								
3,731 USD																		

295		AHU 3			HOF	60 psig	3/4"		10.0		V			0			BT	Recommendation
					541FT	3/4"	3/4"		0 psig			1	1			O		
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
Steam Cost 20.00 USD		Frequency 12				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive								
Annual Cost 119,929 lb/yr		Installed Date		Check Valve <input type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								
2,399 USD																		

296		AHU 3			HOF	60 psig	3/4"		10.0		V			0			BT	Recommendation
					541FT	3/4"	3/4"		0 psig			1	1			O		
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
Steam Cost 20.00 USD		Frequency 12				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive								
Annual Cost 119,929 lb/yr		Installed Date		Check Valve <input type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								
2,399 USD																		

316		610			DUN	25 psig	1/2"		10.0		V	0	0	0	C		PL	Recommendation
					1E	1/2"	1/2"		0 psig							O		
Route No.		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
		Frequency 12				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive								
		Installed Date		Check Valve <input type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								



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Tag#	Outside	Location	Elevation	Applic	Equip	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam		Condition	Recommendation
						Model	Conn Size					In	Out	Lift	In	Out	Direction		

317		609		CL		DUN	25 psig	1/2"		10.0		V	0	0	0	C			PL	Recommendation
						1E	1/2"	1/2"		0 psig						O				
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments						
		7				<input type="checkbox"/>		Receiver		Conductive		Date								
		Frequency		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor										
		12		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>										
		Installed Date																		

318		609		CL		DUN	25 psig	1/2"		10.0		V	0	0	0	C		BT	Recommendation
						1E	1/2"	1/2"		0 psig						O			
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments					
		7				<input type="checkbox"/>		Receiver		Conductive		Date							
Steam Cost		Steam Loss/Yr		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor									
20.00 USD		116,148 lb/yr		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>									
Annual Cost		2,323 USD																	
		Installed Date																	

323		604		CL		DUN	25 psig	1/2"		10.0		V	0	0	0	C		BT	Recommendation
						1E	1/2"	1/2"		0 psig						O			
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments					
		7				<input type="checkbox"/>		Receiver		Conductive		Date							
Steam Cost		Steam Loss/Yr		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor									
20.00 USD		116,148 lb/yr		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>									
Annual Cost		2,323 USD																	
		Installed Date																	

326		Backload Door		CL		DUN	25 psig	1/2"		10.0		V	0	0	0	C		BT	Recommendation
						1E	1/2"	1/2"		0 psig						O			
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments					
		7				<input type="checkbox"/>		Receiver		Conductive		Date							
Steam Cost		Steam Loss/Yr		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor									
20.00 USD		116,148 lb/yr		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>									
Annual Cost		2,323 USD																	
		Installed Date																	

342		S/C		CL		DUN	25 psig	1/2"		10.0		V	0	0	0	C		PL	Recommendation
						1E	1/2"	1/2"		0 psig						O			
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments					
		7				<input type="checkbox"/>		Receiver		Conductive		Date							
		Frequency		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor									
		12		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>									
		Installed Date																	



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Tag#	Outside	Location	Elevation	Applic	Equip	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam	Condition	Recommendation
						Model	Conn Size	In	Lift	In		Direction	Strainer	Valve In	Valve Out	Supply		

358		203A Womens		CL		DUN	25 psig	1/2"		10.0		V	0	0	0	C		PL	Recommendation
						1E	1/2"	1/2"		0 psig						O			
Route No.		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

362		214		CL		ARM	65 psig	1/2"		10.0		V	0	0	0	C		BT	Recommendation
						TS-3	1"	1/2"		0 psig						O			
Route No.		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
Steam Cost 20.00 USD		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
Annual Cost 30,613 lb/yr		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

363		214A		CL		ARM	65 psig	1/2"		10.0		V	0	0	0	C		BT	Recommendation
						TS-3	1"	1/2"		0 psig						O			
Route No.		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
Steam Cost 20.00 USD		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
Annual Cost 30,613 lb/yr		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

369		220A		CL		DUN	25 psig	1/2"		10.0		V	0	0	0	C		BT	Recommendation
						1E	1/2"	1/2"		0 psig						O			
Route No.		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
Steam Cost 20.00 USD		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
Annual Cost 116,148 lb/yr		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

377		613		CL		ARM	65 psig	3/4"		10.0		V	0	0	0	C		BT	Recommendation
						TS3	3/4"	3/4"		0 psig						O			
Route No.		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
Steam Cost 20.00 USD		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
Annual Cost 30,613 lb/yr		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									



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Tag#	Outside	Location	Elevation	Applic	Equip	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam		Condition	Recommendation
						Model	Conn Size					In	Out	Lift	In	Out	Direction		

379		212		CL		DUN		1/2"		10.0		V	0	0	0	C		BT			
						1E	1/2"	1/2"		0 psig						O					
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments							
		7				<input type="checkbox"/>		Receiver		Conductive		Date									
		Frequency		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor											
		12		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>											
		Installed Date																			

381		212 C		CL		ARM		1/2"		10.0		V	0	0	0	C		PL			
						TS-3	1"	1/2"		0 psig						O					
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments							
		7				<input type="checkbox"/>		Receiver		Conductive		Date									
		Frequency		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor											
		12		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>											
		Installed Date																			

388		209A		CL		ARM		1/2"		10.0		V	0	0	0	C		BT			
						TS-3	1"	1/2"		0 psig						O					
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments							
		7				<input type="checkbox"/>		Receiver		Conductive		Date									
Steam Cost		Steam Loss/Yr		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor											
20.00 USD		30,613 lb/yr		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>											
		Annual Cost																			
		612 USD																			

391		213		CL		DUN		1/2"		10.0		V	0	0	0	C		BT			
						1E	1/2"	1/2"		0 psig						O					
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments							
		7				<input type="checkbox"/>		Receiver		Conductive		Date									
Steam Cost		Steam Loss/Yr		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor											
20.00 USD		116,148 lb/yr		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>											
		Annual Cost																			
		2,323 USD																			

394		213B		CL		DUN		1/2"		10.0		V	0	0	0	C		PL			
						1E	1/2"	1/2"		0 psig						O					
Route No.		Months/Year		Conn Type		Superheat		Transmitter		Temp Alarm		Follow up		Comments							
		7				<input type="checkbox"/>		Receiver		Conductive		Date									
		Frequency		Check Valve		Shutdown Req'd		Critical Trap		Do not monitor											
		12		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>											
		Installed Date																			



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Tag#	Outside	Location	Elevation	DR	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam	Condition	Recommendation
											Direction	Strainer	Valve In	Valve Out			

416		Over Return Tank			ARM	80 psig	3/4"		40.0		H	0			C		BT			
					880	3/4"	3/4"		0 psig						O					
Route No.		Months/Year		12	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments		
Steam Cost		Steam Loss/Yr		194,822 lb/yr	Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor				
20.00 USD		Annual Cost		3,896 USD	Installed Date		Check Valve		<input checked="" type="checkbox"/>											

433		Rm 189 1st Floor			DUN	25 psig	1/2"		10.0		V	0	0	0	C		BT			
					1E	1/2"	1/2"		0 psig						O					
Route No.		Months/Year		7	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments		
Steam Cost		Steam Loss/Yr		116,148 lb/yr	Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor				
20.00 USD		Annual Cost		2,323 USD	Installed Date		Check Valve		<input checked="" type="checkbox"/>											

436		180			DUN	25 psig	1/2"		10.0		V	0	0	0	C		BT			
					1E	1/2"	1/2"		0 psig						O					
Route No.		Months/Year		7	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments		
Steam Cost		Steam Loss/Yr		116,148 lb/yr	Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor				
20.00 USD		Annual Cost		2,323 USD	Installed Date		Check Valve		<input checked="" type="checkbox"/>											

441		321			DUN	25 psig	1/2"		10.0		V	0	0	0	C				PL	
					1E	1/2"	1/2"		0 psig						O					
Route No.		Months/Year		7	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments		
Steam Cost		Steam Loss/Yr		116,148 lb/yr	Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor				
20.00 USD		Annual Cost		2,323 USD	Installed Date		Check Valve		<input checked="" type="checkbox"/>											

442		321			DUN	25 psig	1/2"		10.0		V	0	0	0	C		BT			
					1E	1/2"	1/2"		0 psig						O					
Route No.		Months/Year		7	Conn Type		Superheat		<input type="checkbox"/>	Transmitter		Temp Alarm		Follow up		Date		Comments		
Steam Cost		Steam Loss/Yr		116,148 lb/yr	Frequency		Shutdown Req'd		<input type="checkbox"/>	Receiver		Conductive		Critical Trap		Do not monitor				
20.00 USD		Annual Cost		2,323 USD	Installed Date		Check Valve		<input checked="" type="checkbox"/>											



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Date	5/23/12	Customer	
Technician		Location	Bath VA
Page	12 17		
Months/Year		Drip	12
		Coil	12
		Tracer	12
		Process	12

Tag#	Outside	Location	Elevation	Applic	Equip	MFR	PMO	Line Sz	Condensate	Pressure	Insulati	Piping				Steam		Condition	Recommendation
						Model	Conn Size					In	Out	Lift	In	Out	Direction		

454				CL		SAR	65 psig	1/2"		10.0		V	0	0	0	C			PL	Recommendation
						T65	1/2"	1/2"		0 psig						O				
Route No. Rm 3		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
		Frequency 12		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive												
		Installed Date		Check Valve <input type="checkbox"/>		Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>												

456				CL		SAR	65 psig	1/2"		10.0		V	0	0	0	C		BT		Recommendation
						T65	1/2"	1/2"		0 psig						O				
Route No. Rm 30		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
Steam Cost 20.00 USD		Steam Loss/Yr 77,432 lb/yr		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive												
Annual Cost 1,549 USD		Installed Date		Check Valve <input type="checkbox"/>		Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>												

457				CL		SAR	65 psig	1/2"		10.0		V	0	0	0	C			PL	Recommendation
						T65	1/2"	1/2"		0 psig						O				
Route No. Rm 30		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
		Frequency 12		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive												
		Installed Date		Check Valve <input type="checkbox"/>		Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>												

487				CL		SAR	15 psig	1/2"		10.0		V							PL	Recommendation
						FT15	3/4"	1/2"		0 psig			1	1	1		M	O		
Route No. 357		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
		Frequency 12		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive												
		Installed Date		Check Valve <input checked="" type="checkbox"/>		Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>												

490				CL		SAR	15 psig	1/2"		10.0		V							BT	Recommendation
						FT15	3/4"	1/2"		0 psig			1	1	1		M	O		
Route No. 357 C		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
Steam Cost 20.00 USD		Steam Loss/Yr 119,929 lb/yr		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive												
Annual Cost 2,399 USD		Installed Date		Check Valve <input checked="" type="checkbox"/>		Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>												



DEFECTIVE TRAP REPORT

Trap Survey

Date	5/23/12	Customer	
Technician		Location	Bath VA
Page	13 17		
Months/Year		Drip	12
		Coil	12
		Tracer	12
		Process	12

Tag#	Outside	Location	Elevation	Applic	Equip	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam	Condition	Recommendation
						Model	Conn Size	In	Lift	In		Direction	Strainer	Valve In	Valve Out	Supply		

492				CL		SAR	15 psig	1/2"		10.0		V		1	1	1		PL	Recommendation
						FT15	3/4"	1/2"		0 psig							M	O	
Route No. 422R		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
		Frequency 12				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
		Installed Date		Check Valve <input checked="" type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

496				CL		SAR	15 psig	1/2"		10.0		V		1	1	1		BT	Recommendation
						FT15	3/4"	1/2"		0 psig							M	O	
Route No. 423		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
Steam Cost 20.00 USD		Steam Loss/Yr Annual Cost 119,929 lb/yr 2,399 USD				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
		Installed Date		Check Valve <input checked="" type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

504				CL		DUN	25 psig	1/2"		10.0		V	0				C		PL	Recommendation
						1E	1/2"	1/2"		0 psig					1	1		O		
Route No. 407A		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
		Frequency 12				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive										
		Installed Date		Check Valve <input type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>										

506				CL		DUN	25 psig	1/2"		10.0		V	0				C		BT	Recommendation
						1E	1/2"	1/2"		0 psig					1	1		O		
Route No. 407A		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
Steam Cost 20.00 USD		Steam Loss/Yr Annual Cost 116,148 lb/yr 2,323 USD				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive										
		Installed Date		Check Valve <input type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>										

510				CL		DUN	25 psig	1/2"		10.0		V	0				C		BT	Recommendation
						1E	1/2"	1/2"		0 psig					1	1		O		
Route No. 402		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
Steam Cost 20.00 USD		Steam Loss/Yr Annual Cost 116,148 lb/yr 2,323 USD				Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive										
		Installed Date		Check Valve <input type="checkbox"/>				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>										



DEFECTIVE TRAP REPORT

Trap Survey

Date	5/23/12	Customer	
Technician		Location	Bath VA
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Months/Year		Drip	12
		Coil	12
		Tracer	12
		Process	12

Tag#	Outside	Location	Elevation	Applic	Equip	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam	Condition	Recommendation
						Model	Conn Size	In	Lift	In		Direction	Strainer	Valve In	Valve Out	Supply		

514				CL		DUN	25 psig	1/2"		10.0		V	0			C		BT			Recommendation	
						1E	1/2"	1/2"		0 psig				1	1		O					
Route No. 401		Steam Loss/Yr Annual Cost		Months/Year Frequency Installed Date		Conn Type Check Valve		Superheat Shutdown Req'd		Transmitter Receiver Critical Trap		Temp Alarm Conductive Do not monitor		Follow up Date		Comments						
		116,148 lb/yr 2,323 USD		7 12																		

531		439A		CL		DUN	25 psig	1/2"		10.0		V	0		0					PL	Recommendation	
						1E	1/2"	1/2"		0 psig				1			M	O				
Route No.		Steam Loss/Yr Annual Cost		Months/Year Frequency Installed Date		Conn Type Check Valve		Superheat Shutdown Req'd		Transmitter Receiver Critical Trap		Temp Alarm Conductive Do not monitor		Follow up Date		Comments						
				12 12																		

532		417		CL		DUN	25 psig	1/2"		10.0		V	0		0					BT	Recommendation	
						1E	1/2"	1/2"		0 psig				1			M	O				
Route No.		Steam Loss/Yr Annual Cost		Months/Year Frequency Installed Date		Conn Type Check Valve		Superheat Shutdown Req'd		Transmitter Receiver Critical Trap		Temp Alarm Conductive Do not monitor		Follow up Date		Comments						
		199,110 lb/yr 3,982 USD		12 12																		

533		415		CL		DUN	25 psig	1/2"		10.0		V	0		0					PL	Recommendation	
						1E	1/2"	1/2"		0 psig				1			M	O				
Route No.		Steam Loss/Yr Annual Cost		Months/Year Frequency Installed Date		Conn Type Check Valve		Superheat Shutdown Req'd		Transmitter Receiver Critical Trap		Temp Alarm Conductive Do not monitor		Follow up Date		Comments						
				12 12																		

537		431A		CL		DUN	25 psig	1/2"		10.0		V	0		0					BT	Recommendation	
						1E	1/2"	1/2"		0 psig				1			M	O				
Route No.		Steam Loss/Yr Annual Cost		Months/Year Frequency Installed Date		Conn Type Check Valve		Superheat Shutdown Req'd		Transmitter Receiver Critical Trap		Temp Alarm Conductive Do not monitor		Follow up Date		Comments						
		199,110 lb/yr 3,982 USD		12 12																		



DEFECTIVE TRAP REPORT

Trap Survey

Date	5/23/12	Customer	
Technician		Location	Bath VA
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Months/Year		Drip	12
		Coil	12
		Tracer	12
		Process	12

Tag#	Outside	Location	Elevation	Applic	Equip	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam	Condition	Recommendation
						Model	Conn Size	In	Lift	In		Direction	Strainer	Valve In	Valve Out	Supply		

539		429L		CL		DUN	25 psig	1/2"		10.0		V	0	0			PL	Recommendation
						1E	1/2"	1/2"		0 psig				1				
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive								
		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								

542		414L		CL		DUN	25 psig	1/2"		10.0		V	0	0			BT	Recommendation
						1E	1/2"	1/2"		0 psig				1				
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
Steam Cost 20.00 USD		Steam Loss/Yr 199,110 lb/yr		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive								
Annual Cost 3,982 USD		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								

547		457R		CL		DUN	25 psig	1/2"		10.0		V	0	0			PL	Recommendation
						1E	1/2"	1/2"		0 psig				1				
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive								
		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								

548		457L		CL		DUN	25 psig	1/2"		10.0		V	0	0			PL	Recommendation
						1E	1/2"	1/2"		0 psig				1				
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive								
		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								

549		444L		CL		DUN	25 psig	1/2"		10.0		V	0	0			PL	Recommendation
						1E	1/2"	1/2"		0 psig				1				
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments				
		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive								
		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>								



DEFECTIVE TRAP REPORT

Trap Survey

Date	5/23/12	Customer	
Technician		Location	Bath VA
Page	17	17	
Months/Year		Drip	12
		Coil	12
		Tracer	12
		Process	12

Tag#	Outside	Location	Elevation	Applic	Equip	MFR	PMO	Line Sz	Condensate	Pressure	Insulati	Piping				Steam		Condition	
						Model	Conn Size					In	Lift	In	Direction	Strainer	Valve In		

589		504B		CL		DUN	25 psig	1/2"		10.0		V	0	0				PL	Recommendation
						1E	1/2"	1/2"		0 psig				1					
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

591		507		CL		DUN	25 psig	1/2"		10.0		V	0	0				BT	Recommendation
						1E	1/2"	1/2"		0 psig				1					
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
Steam Cost 20.00 USD		Steam Loss/Yr 199,110 lb/yr		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
Annual Cost 3,982 USD		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

623		521 R		CL		DUN	25 psig	1/2"		10.0		V	0	0				BT	Recommendation
						1E	1/2"	1/2"		0 psig				1					
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
Steam Cost 20.00 USD		Steam Loss/Yr 199,110 lb/yr		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
Annual Cost 3,982 USD		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

634		535		CL		DUN	25 psig	1/2"		10.0		V	0	0				BT	Recommendation
						1E	1/2"	1/2"		0 psig				1					
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
Steam Cost 20.00 USD		Steam Loss/Yr 199,110 lb/yr		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive									
Annual Cost 3,982 USD		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									

89		Bldg 35 Rm 208		CL		SAR	25 psig	3/4"		10.0		V	0	0	C			FL	Recommendation
						T	1/2"	3/4"		0 psig				1					unknown
Route No.		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments					
		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive				flooded trap comment other					
		Installed Date						Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>									



Trap Recommendations Report

Trap Survey

Date	5/23/12	Customer	
Technician		Location	Bath VA
Page	1 1		
Months/Year		Drip	12
		Coil	12
		Tracer	12
		Process	12

Tag#	Outside	Location	Elevation	DR	SD	MFR	PMO	Line Sz	Condensate	Pressure	Insulation	Piping				Steam		Condition	Recommendation
												Direction	Strainer	Valve In	Valve Out	Supply	Discharge		

027		B-24 TUNNEL DOOR 117				HOF	15 psig	3/4"		8.0		V			0	C			FL	NO COMMENTS
						55	3/4"	3/4"		0 psig							O			
Route No.		Months/Year 12		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
		Frequency 12		Check Valve <input checked="" type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive		flooded.trap.comment.other								
		Installed Date				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>												

89		Bldg 35 Rm 208				SAR	25 psig	3/4"		10.0		V	0		0	C			FL	unknown
						T	1/2"	3/4"		0 psig							O			
Route No.		Months/Year 7		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments						
		Frequency 12		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive		flooded.trap.comment.other								
		Installed Date				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>												

Route No.		Months/Year		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments							
		Frequency		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive											
		Installed Date				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>													

Route No.		Months/Year		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments							
		Frequency		Check Valve <input type="checkbox"/>		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive											
		Installed Date				Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>													

Route No.		Months/Year		Conn Type		Superheat <input type="checkbox"/>		Transmitter		Temp Alarm		Follow up Date		Comments							
		Frequency		NPT Pipe Thread		Shutdown Req'd <input type="checkbox"/>		Receiver		Conductive		flooded.trap.comment.other									
		Installed Date		Check Valve <input type="checkbox"/>		Critical Trap <input type="checkbox"/>		Do not monitor <input type="checkbox"/>													



TERMINOLOGY

<u>TERMS</u>	<u>DESCRIPTION</u>	<u>DEFINITION</u>
TAG NUMBER	Trap identification no.	A sequence of up to 15 alphanumeric characters.
LOCATION	Trap location	General description of the trap location, i.e. Building, Floor, Room, etc.
INSIDE/OUTSIDE	Whether the trap is located within a protective structure or is exposed to the elements.	I=Inside, O=Outside
ELEVATION	Elevation of the trap	Height above/below the floor/ground surface
MFG	Trap manufacturer	A three character designation of the trap manufacturer (e.g. ARM=Armstrong)
MODEL	Trap model number	The model number designated by the trap manufacturer.
TYPE	Generic type of trap	Type designated by single letter, e.g. IB=Inverted Bucket.
CONN SIZE	Connection size	Connection size of the trap (not necessarily the same as the pipe size).
INSPECTION FREQUENCY	Trap inspection schedule	Recommended number of times the trap should be tested in months, (e.g. every ___ months).



TERMINOLOGY (Continued)

<u>TERMS</u>	<u>DESCRIPTION</u>	<u>DEFINITION</u>
EQUIPMENT	Equipment being serviced	Actual equipment being serviced by the steam trap, e.g. Unit Heater.
P – I	Pressure In	The gauge pressure or nominal pressure on the inlet side of the trap.
P – O	Pressure Out	The gauge pressure or nominal pressure on the outlet side of the trap (also called <i>Back Pressure</i>)
SUP	Supply side of trap	Supply side pressure in terms of C=Constant Supply Pressure; M=Modulating Supply Pressure
RETURN	Discharge side of trap	Discharge side of trap is either C=Closed or O=Open to atmosphere
APP	Application	Application serviced by trap, e.g. DR=Drip Trap, etc.
TIME IN SERVICE	Amount of annual use	The number of hours the trap is under load, expressed in months per year (e.g. 2,160 hours = 3 months).
PIPING	Direction of piping	H=Horizontal, V=Vertical, etc.
V – I	Valve In	Type of valve on inlet side of trap (0=None, 1=on/off, 2=2 or 3 way valve)
V – O	Valve Out	Type of valve on outlet side of trap (0=None, 1=on/off, 2=2 or 3 way valve)
STR	Strainer	Type of strainer ahead of trap, 0=None; 1=Inline; 2=Inline w/blowdown valve
COND. LOAD	Condensate Load	Actual load of condensate at the trap.
COND. LIFT	Condensate Lift	Actual height condensate must be lifted to overhead return.



TERMINOLOGY (Continued)

<u>TERMS</u>	<u>DESCRIPTION</u>	<u>DEFINITION</u>
INSUL	Insulation Type	Actual type of insulation surrounding pipes and traps, e.g. Asbestos, Calcium Silicate, etc.
CONN. TYPE	Connection Type	Actual trap connection, e.g. SCR=Screwed, FLG=Flanged, etc.
SUPERHEAT	Superheat present	Indicates whether superheat is present at the trap.
SD	Shutdown required	Indicates that system or plant shutdown must be initiated to repair the failed trap.
LINE SIZE IN	Line size in	Nominal size of the inlet line/pipe
LINE SIZE OUT	Line size out	Nominal size of the outlet line/pipe



TRAP CONDITION

<u>ABBREVIATION</u>	<u>DESCRIPTION</u>	<u>DEFINITION</u>
OK	Good Trap	Trap in normal operating mode.
BT	Blow Through	Trap has failed in an open mode with maximum steam loss. Trap should be repaired or replaced.
LK	Leaking	Trap has failed in a partially open mode with a steam loss of approximately 25% of maximum. Trap should be repaired or replaced.
RC	Rapid Cycling	Disc trap going into failure mode.
PL	Plugged	Trap has failed in a closed position and is backing up condensate. Trap should be repaired or replaced.
FL	Flooded	Trap is assumed to be undersized and unable to handle the condensate load. Trap should be replaced with proper size.
OS	Not in Service	The steam supply line is off and the trap is not in service.
NT	Not Tested	Trap in service but not tested due to inaccessibility, unable to reach, too high, etc.
CD	Cold	A SteamEye trap sensor has reported a low temperature reading.
FT	Fault	A SteamEye trap sensor has reported a monitoring fault condition.