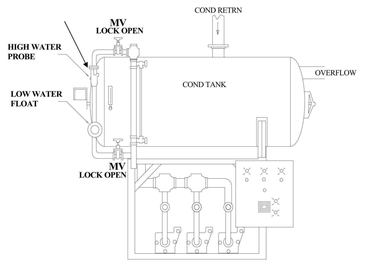
Checklist for High Water Alarm on Condensate Tank (HWACT)

Item	Make	Float / Probe	Alarm Setpoint	Correct Device Type Y / N	Correct Location Y / N
HWACT					

*Alarm setpoint should be below 2/3rds of tank height & at least 4" below the overflow.
*Alarm type should be a probe sensor.



- Drain sight glass without draining alarm column and quickly close drain valve. Water level should quickly rise in sight glass indicating good communication with tank.
- Use bypass valve to add water to the condensate tank at a rate not to exceed 1 inch per minute. Use water level sight glass to observe point that alarm sounds. DO NOT ALLOW WATER LEVEL TO LEAVE SIGHT GLASS.
- Put maximum water supply to condensate tank and verify overflow is adequate.

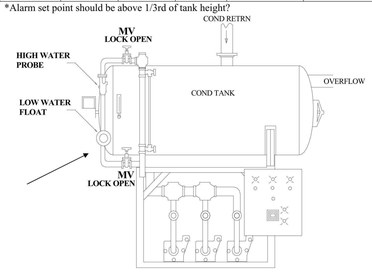
Result	Y/N	Water Level
Did the alarm work correctly?		
What was the water level in sight glass at alarm point?		
Is overflow adequate?		
Can the switch be isolated with manual valves		

Comment:

Checklist for Low Water Alarm on Condensate Tank (LWACT)

Item	Make	Float / Probe	Alarm Setpoint	Correct Device Type Y / N	Correct Location Y / N
LWACT					

*Alarm set point should be above 1/3rd of tank height?



- Drain sight glass without draining alarm column and quickly close drain valve. Water level should quickly rise in sight glass indicating good communication with tank.
- Drain the water from the condensate tank at a rate not to exceeded 1 inch per minute. Use water level sight glass to observe alarm point. DO NOT ALLOW WATER LEVEL TO LEAVE SIGHT GLASS

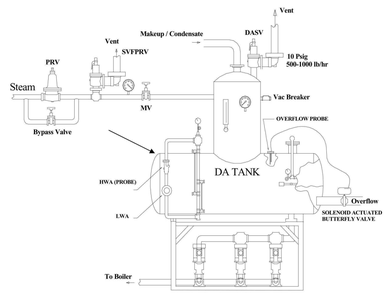
Result	Y/N	Water Level
Did the alarm work correctly?		
What was the water level in sight glass at alarm point?		
Can the switch be isolated with manual valves		

Comment:

Checklist for High Water Alarm on Deaerator Tank (HWADT)

Item	Make	Float / Probe	Alarm Setpoint	Correct Device Type Y / N	Correct Location Y / N
HWADT					

*Alarm setpoint should be below 2/3rds of tank height & at least 4" below the overflow.
*Alarm type should be a probe sensor.



- Drain sight glass without draining alarm column and quickly close drain valve. Water level should quickly rise in sight glass indicating good communication with tank.
- Use bypass valve to add water to the deaerator at a rate not to exceed 1 inch per minute. Use water level sight glass to observe point that alarm sounds. DO NOT ALLOW WATER LEVEL TO LEAVE SIGHT GLASS.

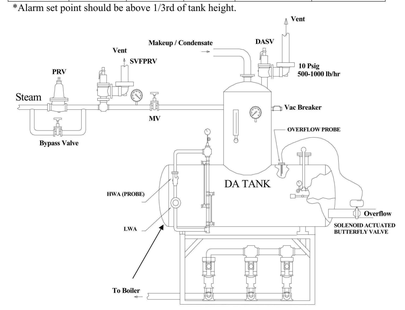
Result	Y/N	Water Level
Did the alarm work correctly?		
What was the water level in sight glass at alarm point?		
Can the switch be isolated with manual valves		

Comment:

Checklist for Low Water Alarm on Deaerator Tank (LWADT)

Item	Make	Float / Probe	Alarm Setpoint	Correct Device Type Y / N	Correct Location Y / N
LWADT					

*Alarm set point should be above 1/3rd of tank height.



- Drain the sight glass and quickly close drain valve. Water level should quickly rise in sight glass indicating good communication with tank.
- Drain the water from the deaerator at a rate not to exceed 1 inch per minute. Use water level sight glass to observe alarm point DO NOT ALLOW WATER LEVEL TO LEAVE SIGHT GLASS.

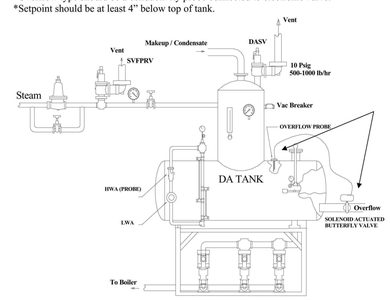
Result	Y/N	Water Level
Did the alarm work correctly?		
What was the water level in sight glass at alarm point?		
Can the switch be isolated with manual valves		

Comment:

Checklist for Deaerator Overflow Drain System (DAODS)

Item	Make	Float / Probe	Overflow Setpoint	Correct Device Type Y / N	Correct Location Y / N
DAODS					

*Overflow type should be a conductivity probe connected to electronic valve.
*Setpoint should be at least 4" below top of tank.



- Drain the sight glass and quickly close drain valve. Water level should quickly rise in sight glass indicating good communication with tank.
- Open manual bypass valve to supply feedwater at maximum rate.
- Use sight glass in drain system to determine that dump valve has opened. Use water level sight glass to observe whether dump valve maintains water level visible in sight glass. DO NOT ALLOW WATER LEVEL TO LEAVE SIGHT GLASS.

Result	Y/N	Water Level
Did the overflow valve work correctly?		
Was the water level maintained in sight glass.		
View port in place to view overflow?		

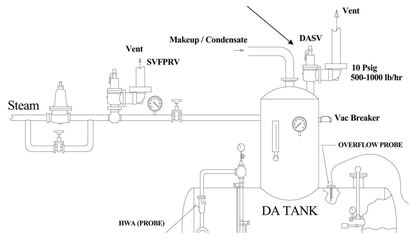
Comment:

Checklist for Deaerator Safety Valve (DASV)

Item	Make	Capacity (lb/hr)	Range	DASV Setpoint	DA PRES (psig)	Correct Installation
DASV						
Pressure Gage						

*Setpoint should be about 5 PSIG higher than DA pressure
*Capacity should be approximately (1000 lb/hr)

Item	Make	Type	MAWP	NDT (date)
Deaerator				



- Abort testing if NDT is not current within six years.
- Pour water into drip pan ell drain and confirm that it is open.
- Slowly open bypass valve to raise pressure until safety lifts. DO NOT RAISE PRESSURE MORE THAN 2 PSIG ABOVE SET POINT PRESSURE.
- Re-seat pressure should be about 6% less than lift pressure.
- After lifting valve, close bypass valve and allow safety to reseat.

Result	Y/N	Pressure
Did the safety valve work correctly?		
What was the safety valve relief pressure?		
What is the re-seat pressure?		
Is vacuum breaker present (VA requirement)?		

Comment:

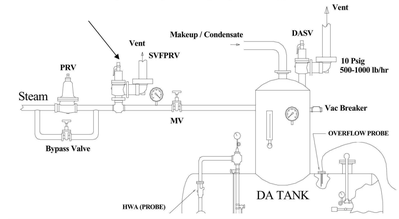
Checklist for Safety Valve Following PRV (SVFPRV) - Steam

Item	Make	Capacity (lb/hr)	Range	SVFPRV Setpoint	DA PRES (psig)	Correct Installation
SVFPRV						
Pressure Gage						

*Setpoint should be about 5 PSIG higher than DA safety lift point.

Item	Make/ Type	Size (in)	Pressure upstream	Pressure downstream	Wide Open Flow Capacity lb/hr
PRV					
Bypass					

*SVFPRV must relieve largest wide open flow capacity, PRV or bypass valve.



- Pour water into drip pan ell drain and confirm that it is open.
- Close the manual valve in steam line following the safety valve.
- Slowly open bypass valve to raise pressure until safety lifts. DO NOT RAISE PRESSURE MORE THAN 2 PSIG ABOVE SETPOINT PRESSURE.
- Re-seat pressure should be about 6% less than lift pressure.
- Open lager of the bypass valve or PRV completely and perform accumulation test. The pressure should rise no more than 6% above the setpoint pressure.
- After lifting valve, close bypass valve, open manual valve in steam line after PRV and allow safety to reseat.

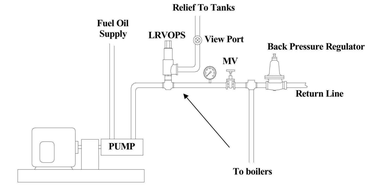
Result	Y/N	Pressure
Did the safety valve work correctly?		
What was the safety valve relief pressure?		
What is the re-seat pressure?		

Comment:

Checklist for Liquid Relief Valve on Oil Pump Set (LRVOPS)

Item	Make	Capacity (gal/hr)	Range	LRVOPS Setpoint	Oil Supply Pressure	Correct Installation
LRVOPS						
Pressure Gage						

*Setpoint should be less than the max allowable pump pressure and less than 10 psig above normal regulated oil supply pressure.
* Liquid relief should not be used as a backpressure regulator.



- Slowly close manual valve in oil line after relief valve or raise pressure regulator set pressure until relief valve lifts (use view port to determine if valve is open).
- The pressure should rise no more than 10 psig above normal regulated oil supply pressure.

Result	Y/N	Pressure
Did the relief valve work correctly?		
What was the safety valve relief pressure?		
Did valve re-seat?		
View port in place to view oil flow thru relief valve?		
Is a back pressure regulator present?		

Comment:

Checklist for Propane Pilot Backup System

- Connect and/or align propane system to boiler.
- Attempt to light boiler FIRING ON FUEL OIL.

Result	Y/N
Is system in place and operable?	

Comment:

Checklist for Carbon Monoxide and Combustible Gas Alarms in the Boiler Plant

Item	Make	Number of Alarms	Alarm Setpoint	Test Gas Y/N	Correct Location Y / N
Combustible Alarm					
CO Alarm					

*CO setpoint should be 50 ppm or less.
*Combustible setpoints should be 10% or less of the LEL.
*Test gasses for CO and combustibles should be 225-250 ppm.
*Location and number of CO and combustible sensors determined by VA directive.

- Supply proper test in accordance with manufacturers recommendation to test alarms.

Result	Y/N
Did the combustibles alarm work correctly?	
Did the CO alarm work correctly?	
Are the number and locations of the sensors adequate?	

Comment:

100% DESIGN
APPROVED FOR CONSTRUCTION

Revisions:	Date

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Approved: Project Director

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Location: BAY PINES, FLORIDA

Date: MAY 15, 2017 | Checked: JSN | Drawn: RWD

Project Number: 516-15-107

Building Number: 100

Drawing Number: MP505
44 OF 78

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