



VANTAGE (VTG) ANNUAL MAINTENANCE CHECKLIST

NOTE:
TO BE COMPLETED BY A FACTORY AUTHORIZED TECHNICIAN HOLDING A VALID VANTAGE (VTG) CERTIFICATE OF REGISTRATION.

DATE	
TECHNICIAN	
TECH. COMPANY	

TECH CERTIFICATE #	
BOILER MODEL	
NATIONAL BOARD #	

ANNUAL MAINTENANCE:

Pilot and ignition electrode position(s) verified, replace electrode(s) if worn	<input type="checkbox"/> COMPLETE
Low water probe(s) removed, cleaned, and reinstalled	<input type="checkbox"/> COMPLETE
Special gas vent system and condensate drain inspected	<input type="checkbox"/> COMPLETE
Combustion air intake system inspected	<input type="checkbox"/> COMPLETE
Safety relief valve tested, replace if it does not fully reseal	<input type="checkbox"/> COMPLETE
Open factory Service Bulletin(s) addressed (where applicable)	<input type="checkbox"/> COMPLETE
Third pass (lower section) inspected, cleaned if necessary (oil fired only)	<input type="checkbox"/> COMPLETE
Safety checks table completed	<i>(fill in table below)</i>
Combustion verification completed, adjust as necessary	<i>(fill in tables on reserve side)</i>
Upper Door (first/second pass) hardware torque verified	<input type="checkbox"/> COMPLETE
Lower Door (third pass) hardware torque verified	<input type="checkbox"/> COMPLETE
Upper Door (first/second pass) hardware torque verified	<input type="checkbox"/> COMPLETE

WATER CHEMISTRY:

pH (8.5-10.5)	_____
Oxygen (<250 ppb)	_____ ppb
Iron/Copper (<5 ppm)	_____ ppm
Chloride (<200 ppm)	_____ ppm
Hardness (<60 ppm)	_____ ppm
Glycol %	_____ %
Water fill pressure at the boiler outlet/supply connection (> 12 psi)	_____ psi

SAFETY CHECKS: *Check all safeties below for proper operation and document the final settings.*

DEVICE	SETTING	OPERATIONAL
Low Water Safety	XXXXXX	
Air Switch		
Low Gas Pressure Switch		
High Gas Pressure Switch		
Low Oil Pressure Switch		
High Oil Pressure Switch		

DEVICE	SETTING	OPERATIONAL
Blower Motor Overload		
Oil Pump Overload		
High Temperature Limit		
Temperature Controller		
Fuel Train Leak Test	XXXXXX	
Proof of Closure (Doc)	XXXXXX	

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PRIMARY FUEL COMBUSTION SETTINGS: Fuel Type is: Natural Gas Propane

FIRING POSITION:	P0 LIGHT	P1 5:1	P2 3:1	P3	P4	P5	P6	P7	P8	P9 100%
Fuel Position										
Air Position										
Supply Gas Pressure (InWC)				■	■	■	■	■	■	
Manifold Gas Pressure (InWC)										
Pilot Gas Pressure (InWC)		■	■	■	■	■	■	■	■	■
Fan Discharge Pressure (InWC)										
Analyzer O2 %										
CO2 %										
CO ppm										
NOx @ 3%										
Room Ambient Temp. °F		■	■	■	■	■	■	■	■	
Combustion Air Temp. °F		■	■	■	■	■	■	■	■	
Stack Temperature °F										
Stack Draft (InWC) *										
Outlet Water Temp. °F										
Main Flame Signal	■			■	■	■	■	■	■	
Pilot Flame Signal **		■	■	■	■	■	■	■	■	■

* Use only a Slack Tube® Manometer or equivalent. The use of a digital manometer is not recommended.
 ** Where applicable

ALARM HISTORY (SIEMENS LMV3)

Parameter	Error Code	Diagnostic Code	Error Class	Error Phase	Startup Counter	Output	Description of Fault
701							
702							

OPERATING HISTORY (SIEMENS LMV3)

P-161 Total Faults	
P-162 Operating Hours	
P-166 Number of Startups	

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LO-HI-LO SECOND FUEL COMBUSTION SETTINGS: #2 Fuel Oil Lo-Hi-Lo (Staged)

FIRING POSITION:	P0 LIGHT	P1 STAGE 1	P2 ON	P2 STAGE 2	P2 OFF
Oil Pump Pressure (psi)					
Oil Return Pressure (psi)					
Oil Pump Inlet Suction (psi)					
Combustion Head Setting		XXXXXX	XXXXXX	XXXXXX	XXXXXX
Air Position					
Fan Discharge Pressure (InWC)					
Smoke Spot (Scale Number)	XXXXXX	XXXXXX	XXXXXX		XXXXXX
Analyzer O2 %					
CO2 %					
CO ppm					
Boiler Room Ambient Temp. °F		XXXXXX	XXXXXX		XXXXXX
Combustion Air Temp. °F		XXXXXX	XXXXXX		XXXXXX
Stack Temperature °F			XXXXXX		XXXXXX
Stack Draft (InWC)			XXXXXX		XXXXXX
Outlet Water Temp. °F					XXXXXX
Main Flame Signal	XXXXXX	XXXXXX	XXXXXX		XXXXXX

MODULATED SECOND FUEL COMBUSTION SETTINGS: Fuel Type is: #2 Fuel Oil Modulated Propane

FIRING POSITION:	P0 LIGHT	P1	P2	P3	P4	P5	P6	P7	P8	P9 100%
Oil Pump Pressure (psi)										
Oil Return Pressure (psi)										
Oil Pump Inlet Suction (psi)										
Combustion Head Setting		XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
Fuel Position										
Air Position										
Supply Gas Pressure (InWC)			XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
Manifold Gas Pressure (InWC)										
Pilot Gas Pressure (InWC)		XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
Fan Discharge Pressure (InWC)										
Smoke Spot (Scale Number)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
Analyzer O2 %										
CO2 %										
CO ppm										
Room Ambient Temp. °F		XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
Combustion Air Temp. °F		XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
Stack Temperature °F										
Stack Draft (InWC)										
Outlet Water Temp. °F										
Main Flame Signal	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
Pilot Flame Signal		XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX

When complete, please keep this form with the boiler and store a record copy in a safe location. Accurate and complete combustion and maintenance records detailing compliance with the Installation, Operation, and Maintenance Manual must be produced for warranty consideration. Please use photocopies or consult your local Fulton Representative for additional copies of this form.