VANTAGE (VTG)
INSTALLATION & OPERATION
"START-UP" REPORT

NOTE:
TO BE COMPLETED BY A FACTORY AUTHORIZED TECHNICIAN HOLDING A VALID VANTAGE (VTG) CERTIFICATE OF REGISTRATION. WARRANTY COVERAGE IS VALID ONLY IF THIS FORM IS SUCCESSFULLY COMPLETED AND RETURNED TO FULTON WITHIN TWELVE WEEKS OF START-UP.

DATE		FULTON REP.	
TECHNICIAN		CUSTOMER	
TECH. COMPANY		CONTACT NAME	
TECH CERTIFICATE #		CITY, STATE	
BOILER MODEL		PHONE NUMBER	
NATIONAL BOARD #		E-MAIL	

GENERAL:

Boiler room pressure (Note: Must be neutral pressure):	_____ INCHES WC
Flue gas condensate drain maintains minimum slope and trap height?	◯ YES ◯ NO
For setpoints <100°F is LMV parameter 545 set to "30"?	◯ YES ◯ NO ◯ N/A
Is boiler motor rotation correct?	◯ YES ◯ NO
Is an oil filter, check valve and shut-off valve installed per Figure 17/18?	◯ YES ◯ NO ◯ N/A
Oil pump inlet (suction side) pressure (Note: NFPA 31 code is 3 psi maximum):	_____ PSI ☐ N/A

COMBUSTION AIR SUPPLY FROM BOILER ROOM ONLY:

If boiler room, what is the Upper Louver Size? (net free area)	_____ SQFT
If boiler room, what is the Lower Louver Size? (net free area)	_____ SQFT
Combustion air louver type	◯ FIXED ◯ MOTORIZED
If motorized, are they interlocked with the boilers?	◯ YES ◯ NO ◯ N/A

COMBUSTION AIR SUPPLY DUCTED DIRECTLY TO BOILER ONLY:

Combustion air intake material type (ie: PVC, Spiral Metal Duct, etc.)	_____
Air intake termination location	◯ ROOFTOP ◯ SIDEWALL
Intake configuration	◯ INDIVIDUAL ◯ COMMON
Combustion air intake ducting diameter	_____ INCHES
Combustion air intake ducting length	_____ FEET
Combustion air intake elbow quantity	45'S _____ 90'S _____
Horizontal separation between intake and exhaust termination	_____ FEET
Vertical separation between intake and exhaust termination	_____ FEET

FLUE GAS EXHAUST VENT CONFIGURATION:

Flue Gas Exhaust Venting (ie: CAT II/IV, AL29 - 4C or 316L SS)	_____
Exhaust termination location	◯ ROOFTOP ◯ SIDEWALL
Exhaust configuration	◯ INDIVIDUAL ◯ COMMON
Venting inside diameter	_____ INCHES
Total Venting length (Rise + Run)	_____ FEET
Vertical rise only	_____ FEET
Elbows quantity	45'S _____ 90'S _____
Is an exhaust fan installed?	◯ YES ◯ NO
Exhaust fan setpoint pressure?	_____ INCHES WC
Common vent pressure with all the boilers on at...	HIGH FIRE _____ LOW FIRE _____
Does the boiler have a modulating draft damper?	◯ YES ◯ NO
Does the common exhaust have a modulating draft damper?	◯ YES ◯ NO ◯ N/A

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

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

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

MOTOR MEASUREMENTS:

	Amperage			Voltage		
LEGS :	L1	L2	L3	L1-L2	L2-L3	L1-L3
Blower Motor @ High Fire						
Oil Pump Motor						

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. ºF										
Combustion Air Temp. ºF										
Stack Temperature ºF										
Stack Draft (InWC) *										
Outlet Water Temp. ºF										
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	

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					
Air Position					
Fan Discharge Pressure (InWC)					
Smoke Spot (Scale Number)					
Visible Smoke					
Analyzer O2 %					
CO2 %					
CO ppm					
Boiler Room Ambient Temp. ºF					
Combustion Air Temp. ºF					
Stack Temperature ºF					
Stack Draft (InWC)					
Outlet Water Temp. ºF					
Main Flame Signal					

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										
Fuel Position										
Air Position										
Supply Gas Pressure (InWC)										
Manifold Gas Pressure (InWC)										
Pilot Gas Pressure (InWC)										
Fan Discharge Pressure (InWC)										
Smoke Spot (Scale Number)										
Analyzer O2 %										
CO2 %										
CO ppm										
Room Ambient Temp. ºF										
Combustion Air Temp. ºF										
Stack Temperature ºF										
Stack Draft (InWC)										
Outlet Water Temp. ºF										
Main Flame Signal										
Pilot Flame Signal										

When complete, please keep this form with the boiler, store a record copy in a safe location, and return a copy to Fulton:

Fulton, ATTN: Service Coordinator, 972 Centerville Road, Pulaski, New York 13142

Phone: (315) 298-5121 • Fax: (315) 298-6390

NOTE: Submission of this report is not an acceptance or approval of the technician's work and recorded data. Recieved reports will be filed but may not be reviewed by technical service.