9. START UP INFORMATION & TEST DATA

The following information shall be recorded for each burner start up:

Power Flame Model No. _____ Invoice No. _____ Serial No. _____

Installation Name _____ Start Up Date _____

Start Up Contractors Name _____ Phone _____

Name of Technician Performing Start Up _____

Type of Gas Natural ☐LP ☐Other _____ Fuel Oil Grade No. _____

Gas Firing

Gas Pressure at Train Inlet
Burner in Off Position _____ "W.C.

Gas Pressure at Train Inlet
Low Fire _____
High Fire _____

Gas Pressure at Firing Head
Low Fire _____
High Fire _____

Gas Pressure at Pilot Test Tee
_____

Power Supply
Volts _____ Ph _____ Hz _____
Control Circuit Volts _____
Blower Motor amps at high fire _____
_____

Flame Signal Readings
Pilot _____
Low Fire _____
High Fire _____

CO_2 or O_2 (Specify)
Low Fire _____
High Fire _____

CO
Low Fire _____
High Fire _____

Input Rate BTU/HR
Low Fire _____
High Fire _____

Over Fire Draft
Low Fire _____
High Fire _____

Stack Outlet Test Point Draft
Low Fire _____
High Fire _____

Net Stack Temperature
Low Fire _____
High Fire _____

Combustion Efficiency
Low Fire _____ %
High Fire _____ %

NOx Measured
Low Fire _____
High Fire _____

Oil Firing

High Fire Vacuum Reading at Oil Pump Inlet _____ "H.G.

Gas Pressure at Pilot Train Inlet
(If applicable) _____

Gas Pressure at Pilot Test Tee
(If applicable) _____

Oil Nozzle Supply Pressure
Low Fire _____
High Fire _____

Oil Nozzle Bypass Pressure
Low Fire _____
High Fire _____

Power Supply
Volts _____ Ph _____ Hz _____
Control Circuit Volts _____
Blower Motor amps at high fire
_____
Remote Oil Pump Motor amps at high fire _____

Flame Signal Reading
Pilot (If applicable) _____
Low Fire _____
High Fire _____

GPH Firing Rate
Low Fire _____
High Fire _____

CO_2 or O_2 (Specify)
Low Fire _____
High Fire _____

Bachrach Scale Smoke Number
Low Fire _____
High Fire _____

Over Fire Draft
Low Fire _____
High Fire _____

Stack Outlet Test Point Draft
Low Fire _____
High Fire _____

Net Stack Temperature
Low Fire _____
High Fire _____

Combustion Efficiency
Low Fire _____ %
High Fire _____ %

NOx Measured
Low Fire _____
High Fire _____

Control Settings

General	Gas	Oil
Operating control cut out setting _____	Low gas pressure switch _____ in.	Low oil pressure switch _____ lbs.
Operating control cut in setting _____	High gas pressure switch _____ in.	High oil pressure switch _____ lbs.
Limit control cut out setting _____		
Limit control cut in setting _____		

Operation Checklist

Checked For Proper Operation of:	Yes	No		Yes	No
Low water cut off	( )	( )	Barometric damper	( )	( )
High water cut off	( )	( )	Boiler room combustion air and ventilation provisions correct	( )	( )
Flame safeguard control ignition failure	( )	( )			
Flame safeguard control main flame failure	( )	( )	Oil tank vent system checked	( )	( )
Burner air flow switch	( )	( )	All oil lines checked for leaks	( )	( )
Induced draft fan controls	( )	( )	All gas lines checked for leaks	( )	( )
Over fire draft controls	( )	( )	Gas lines and controls properly vented	( )	( )
Fresh air damper end switch	( )	( )	Other system components (specify)	( )	( )

Notified _____ of following system deficiencies: _____

NOTES