Department of Buildings and General Services
Burner Start-up Form

Job Name _____
    Address _____
    City _____ State _____Zip_____

Distributor _____
    Location/Branch _____ Tel _____

Heating Contractor _____ Tel _____
    Address _____
    City _____ State _____Zip_____

Service Contractor _____ Tel _____
    Address _____
    City _____ State _____Zip_____

Device burner is on: ☐ Boiler ☐ Furnace ☐ Other: _____
    Make _____
    Model _____
    Rated input _____MBH _____ GPH #____ Oil @ _____"WC overfire

Burner:
    Make _____
    Model _____
    UL # _____
    Serial # _____

Burner Operation:
    ☐ On/Off
    ☐ Low-High-Low
    ☐ Full Modulation

Ignition System:
    Operation   ☐ Checked ☐ N/A
    Adjustments ☐ Checked ☐ N/A

Electrical:
    Nameplate:
    Burner: Volts/Hz/Phase ____/____/____   Blower: Volts/Hz/Phase ____/____/____
         Amps ____/____/____   Amps ____/____/____
    Actual:
    Burner: Volts/Hz/Phase ____/____/____   Blower: Volts/Hz/Phase ____/____/____
         Amps ____/____/____   Amps ____/____/____

Burner Input:
    Oil Low Fire _____ GPH
    Oil High Fire _____ GPH
    Gas Low Fire _____ MBH
    Gas High Fire _____ MBH

Combustion Detector:
    Make _____
    Type _____
    Number _____
    Pilot Flame _____ Micro Amps
                 _____ Volts

Primary Control:
    Make _____

    Model _____

    Primary Control Readings:
      High Fire _____ Micro Amps

      _____ Volts

      Low Fire _____ Micro Amps

      _____ Volts

    Safety Switch Timing_____ Sec.

Lead/Lag:
    ☐ Auto   ☐ Manual   ☐ None

Energy Management Control System:
    ☐ Yes   ☐ No
    Make _____
    Model_____

Combustion Readings: *Mid Point Readings are for Full Modulation Burners Only*
    ☐ Oil   ☐ Gas ☐ Other _____
    Low Fire____ %CO_2 _____%O_2_____ppm CO
    Med Fire____ %CO_2 _____%O_2_____ppm CO
    High Fire____ %CO_2 _____%O_2_____ppm CO

Smoke:
    Low Fire # _____
    Med Fire # _____
    High Fire # _____

Stack Temperature:
    Low Fire _____ °F
    Med Fire _____ °F
    High Fire_____ °F

Combustion Efficiency:
    Low Fire _____ %
    Med Fire _____ %
    High Fire_____ %

Venting:
    ☐ Forced Draft ☐ Balanced Draft ☐ Natural Draft ☐ Induced Draft
    Position of Damper Weight _____
    Amount of Damper Weight _____
    Damper Position_____
    VFD frequency _____
    Other_____

Draft/Pressure Over Fire:
    Low Fire_____ "WC
    High Fire_____ " WC

Test Opening Flue Collar:
    High Fire_____ " WC

Oil Pressure: (Burner Pump)
    Low Fire_____ psi
    High Fire_____ psi

Oil Supply:
    Lift _____
    Run _____
    Size
    Pressure to Burner:
      Low Fire_____ psi
      High Fire_____ psi
    Oil Temp _____ °F

Vacuum: (Oil)
    Low Fire_____ in
    High Fire_____ in

Gas Specifications:
    BTU Content
    Nat _____ BTUs
    LP _____ BTUs
    Other_____ BTUs

Oil Specifications:
    Grade _____ (2, 4, 6, etc)
    Heat Value _____ Btu/gal

Gas Pressure:
    Inlet Gas Control Pressure
    Lock-up _____ "WC
    High Fire_____ " WC

    Burner Manifold Pressure
    Lock-up_____ "WC
    High Fire_____ " WC

Other Checks:

    Operating Control cut out setting _____ °F / psi

    Operating Control cut in setting _____ °F / psi

    Limit Control cut out setting _____ °F / psi

    Limit Control cut in setting _____ °F / psi

    Temperature rise through Boiler/Furnace_____ °F

    Firing Rate Control Check................ ☐ Checked   Setting _____   ☐   N/A

    Low Gas Pressure Switch.................. ☐ Checked   Setting _____   ☐   N/A

    High Gas Pressure Switch .... ☐ Checked   Setting _____   ☐   N/A

    Low Oil Pressure Switch................... ☐ Checked   Setting _____   ☐   N/A

    Low Air Atomizing Pressure Switch. ☐ Checked   Setting _____   ☐   N/A

    Low Oil Temp Switch .... ☐ Checked   Setting _____   ☐   N/A

Check for proper operation:

    Low Water Cut-off ....☐ Checked   ☐   N/A

    Manual Reset Low Water Cut-off ....☐ Checked   ☐   N/A

    Burner Air Flow Switch ....☐ Checked   ☐   N/A

    Fresh Air Damper End Switch ....☐ Checked   ☐   N/A

    Barometric Damper ....☐ Checked   ☐   N/A

    Boiler Room Comb Air/Vent ....☐ Checked   ☐   N/A

    Combustion Air/Vent Fan ....☐ Checked   ☐   N/A

    Flame Failure Test..☐ Checked   ☐   N/A

    Pilot Turn Down Test...................................☐ Checked   ☐   N/A

    Oil Tank Vent System ....☐ Checked   ☐   N/A

    Fuel Line Leaks ....☐ Checked   ☐   N/A

    Gas Lines and Controls:

    Properly Vented...☐ Checked   ☐   N/A

    Other System Components:

    (Specify) _____ ☐ Checked   ☐   N/A

    _____ ☐ Checked   ☐   N/A

    _____ ☐ Checked   ☐   N/A

Notes: _____

   _____

   _____

   _____

System Deficiencies:_____

   _____

   _____

   _____

Person Notified: _____

Title: _____

Comments about Burner Installation: _____

   _____

   _____

Comments about Burner Operation: _____

   _____

Owners Representative, Signature _____ Date _____

Heating Contractor, Signature _____ Date _____

Start-up Rep., Signature _____ Date _____