Boiler Questionnaire

Boiler

Manufacturer:_____

Type:_____

Heat Input (MMBtu/HR.): _____

Rated Horsepower:_____

FD Fan Type (forced/induced):_____

FD Fan Horsepower:_____

FD Fan Manufacturer:_____

FGR present: (yes/no) (induced or forced):_____

Separate FGR Fan (yes/no):_____

FGR Fan Horsepower:_____

FGR Fan Manufacturer:_____

Deaerator and Feed Water

Return (yes/no):_____

Number of DA vessels vs. number of boilers:_____

If yes, what percentage:_____

Return Temperature:_____

Make Up Water Temperature:_____

DA Pressure:_____

feedwater Pressure:_____

Electric Feed Pumps/ or Steam Driven:_____

Burner/Combustion

Manufacturer:_____

NOx at Full Fire (ppmvd):_____

NOx at Min. Fire (ppmvd):_____

Excess O2 at Full Fire (%):_____

Excess O2 at Min. Fire (%):_____

Burner Turndown Possible (ratio - Min/Max):_____

Type of Fuel (nat gas/diesel/oil/other):_____

Operational

Maximum Steam Rate (#hr.):_____

Minimum Steam Rate(#hr.):_____

Operating Steam Pressure (PSIG):_____

Boiler Duty Cycle

   number of days boiler is on per week:_____

   number of hours boiler is on per day:_____

Time at Full Fire (total hours/yr):_____

Time at Min. Fire (total hrs/yr):_____

Stack Exit Temp - High/Low Range (F):_____

Total Fuel Consumed per year (cu.ft/barrels(:_____

Control Devices

Air Control Damper Present (yes/no):_____

If yes Jackshaft or Servo:_____

Air VFD Control Present (yes/no):_____

Make and Model:_____

FGR VFD Control Present (yes/no):_____

Drive Make and Model:_____

PLC based Control (yes/no):_____

Loop Controllers (yes/no):_____

Fuel Valve Control (yes/no):_____

   type of actuator, valve model, I to P?_____

_____

Drum Level Control (yes/no):_____

   type of actuator, valve model, I to P?_____

_____

Temperature

Is Economizer present (yes/no):_____

If yes, Inlet Flue Gas Temp (min/max F):_____

If yes, Outlet Flue Gas Temp (min/max F):_____

Environmental

NOx Compliance Limit, ppm:_____

CO Compliance Limit, ppm:_____

Future Compliance Limits::_____