ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CB-1	Boiler SB1	
Manufacturer:	**Model number:**	**Installation date:**
SESS		1/26/2007

Type of Air Pollution Control Device:

___ Baghouse/Fabric Filter ___ Venturi Scrubber ___ Multiclone

___ Carbon Bed Adsorber ___ Packed Tower Scrubber ___ Single Cyclone

___ Carbon Drum(s) _X_ Other Wet Scrubber ___ Cyclone Bank

___ Catalytic Incinerator ___ Condenser ___ Settling Chamber

___ Thermal Incinerator ___ Flare ___ Other (describe) _____

___ Wet Plate Electrostatic Precipitator ___ Dry Plate Electrostatic Precipitator

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
SO_2	99.999%	98.0%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Flue gas enters a single absorber vessel and is bubbled through a dual flow tray arrangement where it comes into contact with a limestone/gypsum absorbing slurry.
Volumetric Flow Rate 1,946,893 acfm
Mass Flow rate 6,533,700 lb/hr
Limestone Quality 77.0 -98.0 % total $CaCO_3$

Is this device subject to the CAM requirements of 40 C.F.R. 64? ___ Yes _X_ No

If Yes, **Complete ATTACHMENT H**

If No**, Provide justification.**

The SO_2 limitation for the PC boiler is regulated under 40 CFR 60, Subpart Da. The SO_2 limitations in 40 CFR 60, Subpart Da, postdate 1990.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

SO_2 CEMs

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CB-2	Boiler SB1	
Manufacturer:	**Model number:**	**Installation date:**
SESS	315 VIP Pulse Jet FF	1/26/2007

Type of Air Pollution Control Device:

_X_ Baghouse/Fabric Filter (2)	___ Venturi Scrubber	___ Multiclone
___ Carbon Bed Adsorber	___ Packed Tower Scrubber	___ Single Cyclone
___ Carbon Drum(s)	___Other Wet Scrubber	___ Cyclone Bank
___ Catalytic Incinerator	___ Condenser	___ Settling Chamber
___ Thermal Incinerator	___ Flare	___ Other (describe) _____
___ Wet Plate Electrostatic Precipitator		___ Dry Plate Electrostatic Precipitator

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
PM_{10}	99.999%	99.9% (Nominal)
PM	99.999%	99.9% (Nominal)

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

SESS states a minimum DP set point of 7.5" H20 at a minimum temperature of 265°F.
2 x Jet VIP Bag house, each with 36 rows of 40 PPS filter bags (26.25 ft) long/5" wide bag dia.
Flue gas flow rate 2,100,000 (acfm) inlet temp 325° F
Max loading 82,037 lbs/hr, Pulse Jet air pressure (35 psi)

Is this device subject to the CAM requirements of 40 C.F.R. 64? ___ Yes _X_ No

If Yes, **Complete ATTACHMENT H**

If No**, Provide justification.**

The PM limitation for the PC boiler is regulated under 40 CFR 60, Subpart Da. The PM limitations in 40 CFR 60, Subpart Da, postdate 1990.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

PM CEMS, and annual unit compliance testing for PM_{10}

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CB-3	Boiler SB-1	
Manufacturer:	**Model number:**	**Installation date:**
Foster Wheeler Corporation		01/26/2007

Type of Air Pollution Control Device:

___Baghouse/Fabric Filter	___ Venturi Scrubber	___ Multiclone
___ Carbon Bed Adsorber	___ Packed Tower Scrubber	___ Single Cyclone
___ Carbon Drum(s)	___Other Wet Scrubber	___ Cyclone Bank
___ Catalytic Incinerator	___ Condenser	___ Settling Chamber
___ Thermal Incinerator	___ Flare	_X_Other (describe) SCR
___ Wet Plate Electrostatic Precipitator		___ Dry Plate Electrostatic Precipitator

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
NO_x	99.999%	84% (Nominal)

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
Temperature range (630° - 670° F max)
Aqueous ammonia injection
Plate type catalyst made of Vanadium (V_2O_5) and Tungsten Trioxide (WO_3) within Titanium Dioxide matrix. 2 layers used (reactors).

Is this device subject to the CAM requirements of 40 C.F.R. 64? ___ Yes _X_No

If Yes, **Complete ATTACHMENT H**

If No, Provide justification.

The NO_x limitation for the PC boiler is regulated under 40 CFR 60, Subpart Da. The NO_x limitations in 40 CFR 60, Subpart Da, postdate 1990.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

NO_x CEMS

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CB-4	Boiler SB-1	
Manufacturer:	**Model number:**	**Installation date:**
SESS	10HR00	01/26/2007

Type of Air Pollution Control Device:

__Baghouse/Fabric Filter	___ Venturi Scrubber	___ Multiclone
___ Carbon Bed Adsorber	___ Packed Tower Scrubber	___ Single Cyclone
___ Carbon Drum(s)	__Other Wet Scrubber	___ Cyclone Bank
___ Catalytic Incinerator	___ Condenser	___ Settling Chamber
___ Thermal Incinerator	___ Flare	_X_Other - Dry Sorbent Injection
___ Wet Plate Electrostatic Precipitator		___ Dry Plate Electrostatic Precipitator

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
H_2SO_4	99.999%	90.0% (Nominal)*
HCl	99.999%	90.0% (Nominal)*
HF	99.999%	90.0% (Nominal)*
		* Additional acid control occurs at the Wet FGD Scrubber CB-1

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

The hydrated lime system is equipped with three 50% capacity feed trains, with injection into each of the (2) PJFF inlet ducts.

The silo – 14' diameter 9,000 ft^3 hydrated lime, max rate 900 lb/hr/blower x 2 blowers (plus one spare) to pneumatically transfer the hydrated lime to injection points

Is this device subject to the CAM requirements of 40 C.F.R. 64? ___Yes _X_No

If Yes, **Complete ATTACHMENT H**

If No**, Provide justification.**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

SO_2 CEMS, bi-weekly fuel analyses, and annual unit compliance testing