

## Reporting emissions on a process rate parameter.

There are emission limits based on process rate parameters. In the ERT the first process parameter will be determined with the Source Classification Code (SCC). This code is important and describes the process unit and fuel used. If the process parameter units of measure is in the drop down list for the SCC, select it.

The screenshot shows the 'Select SCC' dialog box in the ERT software. The dialog has a search bar at the top containing '10200204'. Below the search bar are four levels of selection:

- Level 1: External Combustion Boilers
- Level 2: Industrial
- Level 3: Bituminous Coal
- Level 4: (empty)

Below the levels is a table of SCC options:

Description	SCC8	UNIT	MEASURE	MATERIAL	ACTION
Pulverized Coal: Dry Bottom Tangential	10200226	Lb	Million Btus	Heat	Input
Pulverized Coal: Dry Bottom Tangential	10200226	Lb	Tons	Subbituminous Coa	Burned
Pulverized Coal: Wet Bottom	10200201	Lb	1000 Tons	Bituminous Coal	Burned
Pulverized Coal: Wet Bottom	10200201	Lb	Million Btus	Heat	Input
Pulverized Coal: Wet Bottom	10200201	Lb	Tons	Bituminous Coal	Burned
Pulverized Coal: Wet Bottom	10200221	Lb	1000 Tons	Subbituminous Coa	Burned
Pulverized Coal: Wet Bottom	10200221	Lb	Million Btus	Heat	Input
Pulverized Coal: Wet Bottom	10200221	Lb	Tons	Subbituminous Coa	Burned
Spreader Stoker	10200204	Lb	1000 Tons	Bituminous Coal	Burned
Spreader Stoker	10200204	Lb	Million Btus	Heat	Input
Spreader Stoker	10200204	Lb	Tons	Bituminous Coal	Burned
Spreader Stoker	10200204	mg	Megagrams	Coal	Burned
Spreader Stoker	10200224	Lb	1000 Tons	Subbituminous Coa	Burned
Spreader Stoker	10200224	Lb	Million Btus	Heat	Input
Spreader Stoker	10200224	Lb	Tons	Subbituminous Coa	Burned

The row for 'Spreader Stoker' with SCC8 10200204, UNIT Lb, MEASURE Tons, MATERIAL Bituminous Coal, and ACTION Burned is highlighted in yellow.

Figure 1. Selecting SCC with process parameter unit of measure.

The SCC process and unit of measure are highlighted in yellow in the ERT.

Facility/Tester	Permit/SCC	Locations/Methods	Regulations	Process/APCD	Methods cont.	Audit/Calibrations	Schedule	Reviewers	Attach.
-----------------	------------	-------------------	-------------	--------------	---------------	--------------------	----------	-----------	---------

**Air Permit Number:**

**Permitted State Source ID/Name:**

**Permitted Maximum Process Rate:**

**Maximum Normal Operation Process Rate:**

**Target Process Rate for Testing:**

**Operational Hours Per Year:**

**Source Classification Code:**

Select SCC from list

**SCC/Desc.:** \*  External Combustion Boilers - Industrial - Bituminous Coal - Spreader Stoker

**Target Parameter:**  **Process Rate:**

**Pollutant Unit of Measure:**

**Target Parameter Description (if needed):**

(\* required fields)

Figure 2. Result of SCC selection

Always assign the appropriate SCC for the process.

If the unit of measure that is required by the permit or rule is not in the SCC list, the information can be added under the Process/APCD tab 6a. of the test plan.

Facility/Tester	Permit/SCC	Locations/Methods	Regulations	Process/APCD	Methods cont.	Audit/Calibrations	Schedule	Reviewers	Attach.
-----------------	------------	-------------------	-------------	--------------	---------------	--------------------	----------	-----------	---------

**6a. Enter the process data to be documented during testing. (Required before test data entry)** Add Process

Process Parameter: (click to view/edit)	Process Rate	Pollutant Unit	Measure	Time Unit	Material
Bituminous Coal Burned	Tons/hr	Lb	Tons	/hr	Bituminous
Steam Produced	Pounds/hr	Lb	Pounds	/hr	Steam

**6b. Enter the process lab data to be documented during testing.** Add Lab

Analysis Required: (click to view/edit)	Units	Comments

**7a. Please give a brief description of the source (including control equipment) and attach source or process flow diagram:** Attach File

**7b. Control Devices: (Required before test data entry)** Add Control Device

Location	Control Device: (click to view/edit)	Units	Target Value
Outlet	BAGHOUSE		
stack	ELECTROSTATIC PRECIPITATOR		

Column widths may be changed by user. Previous Page Next Page

Figure 3. Process data.

For Example: A permit says that Method 5 particulate must be reported in lb of PM/lb of steam produced. Above the Bituminous coal burned in tons /hr is the selected SCC process parameter and unit of measure (highlighted in yellow). Steam produced in pounds/hr is a process parameter needed for the permit. If it is not in the list for the SCC, click on **Add Process** Button and select the appropriate process and unit of measure.

Do not delete the process parameter determined from the SCC/Permit Tab highlighted in yellow. It is linked to the SCC and should be included.

**Process Information**

**Process Parameter:**

*NOTE: The Material and the Action become the Process Parameter (as in "Coal Burned")*

**Process Rate:**

*NOTE: The Measure and Time Unit become the Process Rate (as in "Tons/hr")*

**Pollutant Unit:**

*Emission factor unit numerator; units associated with pollutant emitted (as in "LB" in "LB of NOx per tons of coal burned")*

**Measure:**       **Time Unit:**

*Emission factor unit denominator; units associated with material processed (as in "TONS" in "Lb of NOx per TONS of coal burned")*      *Will be the same for the Process Rate and Compound Unit*

**Material:**

*Material processed (as in "COAL" in "Lb of NOx per tons of COAL burned")*

**Action:**

*Action performed on the material (as in "BURNED" in "Lb of NOx per tons of coal BURNED")*

**Target Value Range:** Target Low:  Target High:

**Comments:**

Figure 4. Adding process information.

**Once this information is added, it needs to be linked to the test data.** In the test plan select the Location/Methods tab. In 2b Method 5 lb/hr select the Process Rate, parameter lb/hr of steam produced (Figure 5). The ERT will now calculate on the emissions tab of the test run data lb of PM/lb of steam produced (Figure 6). The method 5 run 1 is associated with the process run 1 so the calculations can be conducted. If the association is not assigned on the Emissions tab, #Error will be displayed in the lb/lb of steam produced column.

Facility/Tester | Permit/SCC | Locations/Methods | Regulations | Process/APCD | Methods cont. | Audit/Calibrations | Schedule | Reviewers | Attach.

**1. Please enter sampling location information. (all dimensions in inches)**  
 (Required before test data entry) Add Location   Attach File

Location: (click to view/edit)	Inlet/Outl	Total Trave	Ports	Round Duct Diam	Duct Le	Duct Wid	Equivalent I	Up Stream Distar	Down S
stack	Outlet	24	4	24				10	

(Note: UpStreamDist = Distance from upstream disturbance; DwnStreamDist = Distance from downstream disturbance) Add Target Parameters

**2a. Please provide the following information for each test parameter. (Required before test data entry)**

Location	Test Method	Target Parameter	Num Test Runs	Test Run Duration	Comments
stack	Method 1 - 4	Flowrate	3	60	
stack	Method 1 - 4	% H2O	3	60	
stack	Method 10	Carbon Monoxide	3	60	
stack	Method 12	Inorganic Lead	3	60	
stack	Method 5	Filterable Particulate	3	60	

Record: 1 of 5 No Filter   Search

**2b. Please select the Emissions Units of Measure for each location.** Add Emissions/Concentrations

Local	Method	Units of Measure	Corre	Corrected %	Process Rate, Parameter
stack	Method 10	ppm		0	
stack	Method 5	grains/dscf		0	
stack	Method 5	lb/hr		0	Pounds/hr of Steam Produced

Record: 1 of 3 No Filter   Search

Previous Page   Next Page

Figure 5. Method and Process Rate parameter.

ERT v 5 - 12/3/2015

HOME CREATE EXTERNAL DATA DATABASE TOOLS

Run Data Details

Facility: Fox River Paper Mill

Permitted Source ID/Description:

Select Location - Method: stack - Method 5

Select Run: Method 5 - 1

Add New Run Data Delete Run Data

Change Run Number Change Run Date

Method Setup Header Data Point Data Lab Data Sampling/Stack Data Results Cyclone Cut Size Emissions

Method:	RunNumber:	RunDate:	Associated Process Run:
Method 5	1	1/23/2014	1

  

Compound	gr/dscf	lb/hr	lb / Pounds of Steam Produced
Filterable Particulate	3.20E-02	9.78E-01	9.78E-03

Record: 1 of 1 No Filter Search

Figure 6. Emissions in units required by the permit.