

Note: This material is related to a section in AP42, *Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources*. AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the file number, the AP42 chapter and then the section. The file name "rel01_c01s02.pdf" would mean the file relates to AP42 chapter 1 section 2. The document may be out of date and related to a previous version of the section. The document has been saved for archival and historical purposes. The primary source should always be checked. If current related information is available, it will be posted on the AP42 webpage with the current version of the section.

1.1 Source test reports - to be scanned, not cited in AP-42

**Particle Size table from
External Combustion Particulate
Emissions: Source Category Report,
EPA-600/7-86-043, U.S. Environmental
Protection Agency, Research Triangle Park, NC, November 1986.**

**Van Buren, D., D. Barbe, and A. W. Wyss
2 pgs**

attachment

AP-42 SECTION	FUEL TYPE	BOILER TYPE/CONTROL DEVICE	BASIS (a), (b)	PM-2.5		EMISSION FACTOR QUALITY RATING (a)
				YEAR	METHOD (a), (c)	
1.1	Bit/Subbit. Coal	PC-dry	A- and B-quality PSD data combined with A-rated particulate emission factors.	< 1985	Cascade Impactor or SASS	>100 tests; 9 sites C, or less
1.1	Bit/Subbit. Coal	PC-dry, w/multiple cyclones	B-quality PSD data combined with an estimated particulate emission factor.	< 1985	Cascade Impactor or SASS	limited CM% data; 1 site E
1.1	Bit/Subbit. Coal	PC-dry, w/scrubber	A- and B-quality PSD data combined with an estimated particulate emission factor.	< 1985	Cascade Impactor or SASS	Several tests, several sites D
1.1	Bit/Subbit. Coal	PC-dry, w/ESP	A- and B-quality PSD data combined with an estimated particulate emission factor.	< 1985	Cascade Impactor or SASS	>100 tests; several sites D
1.1	Bit/Subbit. Coal	PC-dry, w/baghouse	B-quality PSD data combined with an estimated particulate emission factor.	< 1985	Cascade Impactor or SASS	2 tests; 1 site E
1.1	Bit/Subbit. Coal	PC- wet	B-quality PSD data combined with a D-rated particulate emission factor.	< 1985	Cascade Impactor or SASS	3 tests; 1 site E
1.1	Bit/Subbit. Coal	PC- wet, w/multiple cyclones	C-quality PSD data combined with an estimated particulate emission factor.	< 1985	Cascade Impactor or SASS	1 test; 1 site E
1.1	Bit/Subbit. Coal	PC- wet, w/ESP	C-quality PSD data combined with an estimated particulate emission factor (based on a D-quality factor)	< 1985	Cascade Impactor or SASS	5 tests; 5 sites E
1.1	Bit/Subbit. Coal	Cyclone	D-quality PSD data combined with a D-quality particulate emission factor.	< 1985	Cascade Impactor or SASS	1 test; 1 site E
1.1	Bit/Subbit. Coal	Cyclone, w/scrubber	A-quality PSD data combined with an estimated particulate emission factor.	< 1985	Cascade Impactor or SASS	1 test; 1 site E
1.1	Bit/Subbit. Coal	Cyclone, w/ESP	B- and C-quality PSD data combined with and estimated factor (D-quality)	< 1985	Cascade Impactor or SASS	5 tests; 5 sites E
1.1	Bit/Subbit. Coal	Spreader Stoker (SS)	A- and B- quality PSD data combined with a B-quality particulate emission factor.	< 1985	Cascade Impactor or SASS	40 tests; 6 sites C
1.1	Bit/Subbit. Coal	SS w/multiple cyclones	A-quality PSD data combined with a A-quality particulate emission factor.	< 1985	Cascade Impactor or SASS	9 tests; 2 sites C
1.1	Bit/Subbit. Coal	SS w/multiple cyclones, reinjection	C-quality PSD data combined with a B-quality particulate emission factor.	< 1985	Cascade Impactor or SASS	1 test; 1 site E
1.1	Bit/Subbit. Coal	SS, w/ESP	C-quality PSD data combined with and estimated particulate emission factor.	< 1985	Cascade Impactor or SASS	1 test; 1 site. E
1.1	Bit/Subbit. Coal	SS, w/baghouse	A- and B-quality PSD data combined with an estimated particulate emission factor.	1974	Cascade Impactor or SASS	59 tests; 2 sites C
1.1	Bit/Subbit. Coal	Overfeed Stoker	A- and B-quality PSD data combined with an estimated particulate emission factor.	< 1985	Cascade Impactor or SASS	1 test; 1 site D
1.1	Bit/Subbit. Coal	Overfeed Stoker w/multiple cyclones	B-quality PSD data combined with and estimated particulate emission factor.	< 1985	Cascade Impactor or SASS	3 tests; unknown number of sites E
1.1	Bit/Subbit. Coal	Underfeed Stoker	B-quality PSD data combined with a B-quality particulate emission factor.	< 1985	Cascade Impactor or SASS	6 tests; 6 sites C
1.1	Bit/Subbit. Coal	Hand-fed	No EF- Use EF for underfeed stoker	< 1985	Cascade Impactor or SASS	

particle size data for !!

Handwritten note with an arrow pointing to the table, possibly indicating a specific row or data point.

United States
Environmental Protection
Agency

EPA-600/7-86-043

November 1986



Research and Development

LIGNITE
COMBUSTION
AP-42 Section 1.
Reference Number

4193¹³

EXTERNAL COMBUSTION
PARTICULATE EMISSIONS:
SOURCE CATEGORY REPORT

Prepared for

Office of Air Quality Planning and Standards

Prepared by

Air and Energy Engineering Research
Laboratory
Research Triangle Park NC 27711