Averaging Method

Code	Averaging Method
51	1 hour maximum - not to be exceeded at any time
56	1 hour rolling average rolled every 1 minute
55	1 hour rolling average rolled every 5 minutes
67	12-hour rolling average, calculated every minute
42	12-hr rolling avg, calculated ea. hr as the avg of the past 12 operating hrs
32	15-minute rolling average
29	15-minute running limit
14	180-day average
08	1-hour average
03	1-hour maximum - not to be exceeded more than once per calendar year
69	24 hour block average
39	24 hour daily average (arithmetic mean)
40	24 hour daily average (geometric mean)
09	24-hour average
06	24-hour maximum - not to be exceeded more than once per calendar year
52	24-hr rolling avg., calculated ea. hr as the avg of the past 24 operating hrs
46	2-hour block average
68	30 minute average
38	30 minute continuous
11	30-day average
36	30-day rolling average
66	36 hour average
07	3-hour (6-9 am) maximum - not to be exceeded more than once per calendar year
47	3-hour block average
04	3-hour maximum - not to be exceeded more than once per calendar year
27	3-hour rolling average
26	3-minute average
35	3-month average rolled monthly
31	4-hour average (arithmetic mean)
41	4-hour block (arithmetic average)
33	4-hour rolling average
62	6 hour block - arithmetic mean
44	6 minute average
12	60-day average
30	6-hour rolling average
19	6-minute average (Method 22)
18	6-minute average (Method 9)
10	7-day average
54	8-hour block - arithmetic mean
05	8-hour maximum - not to be exceeded more than once per calendar year
28	8-hour running average rolled hourly
43	9 minutes per 3-hour period
13	90-day average
16	annual maximum rolled daily

Averaging Method

Code	Averaging Method
17	annual maximum rolled monthly
37	annual maximum rolled weekly
53	annual minimum rolled monthly
48	annual total
50	annual total rolled daily
21	arithmetic mean
63	averaging method - see monitoring description
20	averaging method as per reference test method indicated
45	calendar month average
49	calendar month total
15	calendar year average
22	geometric mean
01	maximum - not to be exceeded at any time (instantaneous/discrete or grab)
02	maximum - not to be exceeded more than once per calendar year
60	maximum - not to exceed stated value - see monitoring description
59	maximum - time delay
23	median
61	minimum - not to fall below stated value - see monitoring description
24	minimum - not to fall below stated value at any time
58	minimum - time delay
64	one continuous 6-minute period per hour
25	range - not to fall outside of stated range at any time
57	semiannual maximum rolled daily
65	three year rolling average - calendar year

Emission Control Equipment Type

Code	Emission Control Type
124	3R NO_x reduction technology
048	activated carbon adsorption
106	activated carbon injection
084	activated clay adsorption
031	air injection
068	alkaline fly ash scrubbing
040	alkalized alumina
032	ammonia injection
038	ammonia scrubbing
064	annular ring filter
078	baffle
074	barometric condenser
113	biological oxidation
019	catalytic afterburner
020	catalytic afterburner with heat exchanger
110	catalytic oxidation
039	catalytic oxidation - flue gas desulfurization
065	catalytic reduction
007	centrifugal
108	chemical fume suppressant - foam blanket
107	chemical fume suppressant - wetting agent for reducing surface tension
083	chemical neutralization
080	chemical oxidation
081	chemical reduction
037	citrate process scrubbing
104	combustion chamber
112	conservation vent
021	direct flame afterburner
022	direct flame afterburner with heat exchanger
079	dry electrostatic granular filter
115	dry lime injection
041	dry limestone injection
103	dry low NO_x burner
105	dry spray absorption
036	dual alkali scrubbing
062	dust suppression by chemical stabilizer or wetting agents
061	dust suppression by water spray
056	dynamic separator (dry)
057	dynamic separator (wet)
121	ejector condenser
010	electrostatic precipitator
016	fabric filter
519	fabric filter, dry spray adsorption
117	fiberglass filter
023	flaring

Emission Control Equipment Type

Code	Emission Control Type
091	floating roof
301	flue gas desulfurization system
026	flue gas recirculation
071	fluid bed dry scrubber
125	foam blanket - chemical fume suppressant
013	gas scrubber (general, not classified)
063	gravel bed filter
004	gravity collector
303	heated ceramic media
101	high efficiency particulate air filter
055	impingement plate scrubber
017	incinerator afterburner
049	liquid filtration system
120	louver collector
102	low NO_x burner
035	magnesium oxide scrubbing
058	mat or panel filter
059	metal fabric filter screen (cotton gins)
014	mist eliminator
066	molecular sieve
098	moving bed dry scrubber
077	multiple cyclone w/ fly ash injection
076	multiple cyclone w/o fly ash injection
087	nitrogen blanket
300	overfire air
082	ozonation
050	packed-gas absorption system
118	paper filter
054	process enclosed (enclosure)
060	process gas recovery
522	quench unit
027	reduction combustor - air preheating
073	refrigerated condenser
123	rotary kiln incinerator emission control equipment type code emission control type
524	scrubber - dry alumina injection
525	scrubber - dry coke injection
114	scrubber - dry sodium bicarbonate injection
097	secondary seal for external roof tank
033	selective catalytic reduction (SCR)
029	selective non-catalytic reduction (SNCR)
119	silica gel adsorber
075	single cyclone
069	sodium carbonate scrubbing
070	sodium-alkali scrubbing

Emission Control Equipment Type

Code	Emission Control Type
052	spray tower
122	steam injection
028	steam or water injection
521	submerged fill line
045	sulfur plant
043	sulfuric acid plant-contact process
044	sulfuric acid plant-double contact process
127	thermal oxidation
051	tray-type gas absorption column
072	tube and shell condenser
304	ultraviolet light ozone dissociation
128	vapor collection (stage 1)
129	vapor collection (stage 2)
096	vapor lock balance recovery system
047	vapor recovery sys (incl. condensers, hooding, other enclosures)
520	vapor recovery system (vapor adsorption/absorption reduction unit)
302	vapor recovery system (vapor adsorption/absorption unit)
111	Venturi scrubber
086	water curtain
526	water injection
109	water seal
034	Wellman-Lord/sodium sulfite scrubber
085	wet cyclonic separator
116	wet lime injection
067	wet lime slurry scrubbing
042	wet limestone injection
001	wet scrubber
126	wetting agent - chemical fume suppressant

Emission Rate How Determined

Code	Emission Rate How Determined
04	best engineering judgment
07	continuous stack monitoring
09	manufacturer's guarantee
02	material balance calculations or fuel analysis
08	modeling, emission estimation software
03	published emission factors
01	stack test of emissions
06	stack test of emissions from geometrically similar emission source
05	stack test of emissions from identical emission source

Emission Rate How Determined

Code	Emission Rate How Determined
09	annually
14	as required - see monitoring description
06	bi-monthly
01	continuous
03	daily
19	every two years
16	four times per hour
02	hourly
18	minimum - once per calendar year
05	monthly
17	once during the term of the permit
12	per batch of product/raw material change
11	per delivery
10	per shift
07	quarterly
08	semi-annually
13	single occurrence
15	upon permit renewal
04	weekly

Parameter (Monitored)

Code	Parameter Monitored
CAS Number - (enter this as a parameter only if one contaminant is being used as a surrogate to estimate emissions for another (e.g. Carbon Monoxide (CO) is typically used as a measure of destruction removal efficiency to estimate the products of incomplete combustion)).	
21	acidity/alkalinity
71	activated carbon
45	air flow
24	air/cloth ratio (filtering velocity)
31	ash content
39	combustion efficiency
40	combustion index
23	concentration
35	corona current
27	corona power
47	cumulative potential rectifier capacity
26	current/current draw
28	damper setting
76	degree of air cleaning
15	density/specific gravity
64	destruction efficiency
34	electric field strength
41	electrical output
06	excess air
48	foam thickness
43	freeboard ratio
05	heat content
38	heat input
30	horsepower
44	idling limit
11	inlet loading
78	leaking coke oven doors
80	leaking offtake systems
79	leaking topside port lids
18	liquid/gas volumetric flow rate ratio
75	make-up water flow rate
07	mass flow rate
49	maximum tank level
83	mean concentration difference
02	moisture content
33	nitrogen content

Parameter (Monitored)

Code	Parameter Monitored
61	non-volatile material
01	opacity
65	organic HAP content
12	outlet loading
67	overall organic HAP control efficiency
58	oxidation reduction potential
56	oxygen content
82	power
09	pressure
10	pressure change
63	price differential
77	process speed
74	recirculation rate
36	Reid vapor pressure
17	relative humidity
57	residence time
29	resistivity
13	rotation rate
59	solvent recovery rate
53	steam output
62	steam to fuel mass ratio
16	steam usage
52	steam/fuel volumetric flow rate ratio
50	steam/gas volumetric flow rate ratio
51	steam/oil volumetric flow rate ratio
32	sulfur content
46	surface tension
03	temperature
04	temperature change
42	total dissolved solids
70	total halogens
66	vacuum
68	valve position (% open)
14	velocity
72	velocity pressure
55	VHAP - volatile hazardous air pollutant - Table 2, Part 63, Subpart JJ
20	viscosity
69	visible emissions
81	visible emissions per charge
54	VOC content
25	voltage
22	volume
08	volumetric flow rate
73	waste feed nozzles
60	water to fuel mass ratio

Parameter (Monitored)

Code	Parameter Monitored
19	working capacity of carbon bed

Process Material

Code	Fuel Type
001	anthracite coal
018	aviation fuel
030	bagasse
031	bark
002	bituminous coal
021	blast furnace gas
025	butane
003	coke
022	coke oven gas
036	distillates - number 1 and number 2 oil
029	garbage
034	gaseous waste
017	gasoline
039	landfill gas
016	lignite
013	liquid propane gas
032	liquid waste
012	natural gas
006	number 1 oil
007	number 2 oil
008	number 4 oil
009	number 5 oil
010	number 6 oil
020	oil (not elsewhere classified)
014	other gaseous fuels
011	other liquid fuels
005	other solid fuels
037	petroleum liquids with maximum annual average RVP of 12.4
026	propane
023	refinery gas
028	refuse
027	refuse derived fuel
038	residual fuel (#4, #5 and/or #6 fuel oil)
024	sewage gas
035	sludge
033	solvent waste
015	sub-bituminous coal
019	waste oil
004	wood

Code	General Process Material
231	100% H_2SO_4 (sulfuric acid)
320	3/4-inch medium density fiberboard produced
187	abrasive
175	acid
122	adhesive
124	aerosol
303	air dried/forced warm air-dried coating - miscellaneous metal parts
188	air-dry pulp
233	alcohol
153	alumina
315	aluminum
154	ammonia
288	appliances
234	ash
155	asphalt
189	asphalt shingle
235	asphaltic concrete
313	batches
156	batteries
190	bauxite material
191	beaded glass
236	beans
102	blasts
143	boards
144	boats
103	bodies
157	bread baked
192	brick
268	cans
237	carbon black
238	carpet
104	cars

Code	General Process Material
239	casein
158	castings
193	catalyst
194	cement
289	charcoal
159	charge process material
141	chickens
148	chlorine
269	circuit boards
195	clay

Process Material

302	clear coatings - miscellaneous metal parts
240	clinker
196	clothes
316	coal tar
115	coating
105	coating lines
197	coating mixed
281	coffee
106	cold cleaners
133	concentrate
107	concrete
267	containers
253	coolant
116	core oil
160	cores
243	corn
241	corn gluten feed
242	corn gluten meal
100	cotton
198	cottonseed
262	crude feed
199	crude gypsum
271	crude oil
200	cullet
123	deadener
112	degreasing units
244	dextrose
113	drains
145	drains
280	dried beans
274	dried blood meal
245	dried germ
246	dried hulls
247	dried yeast
114	drums
161	dry feed
162	dry nacho feed
163	dry product
134	dryer feed
117	dye
201	dyes/pigments
277	electrode
307	entire vehicle coating - motor vehicle refinishing
118	etching solution
202	ethylene oxide
203	extractor feed cake
304	extreme performance coating – miscellaneous metal parts
164	fabric
204	fertilizer
205	fiber
206	fish meal
207	fish scrap
248	flue dust
208	fluorspar
249	formaldehyde
311	fountain solution
250	Freon
318	fuel
165	glass
166	grain
251	gray iron
167	green beans
130	head of cattle
252	hydrogen sulfide
119	ink

Code	**General Process Material**
293	ink fraction less nonreactive volatiles
209	iron
131	items
282	juice
324	lamp
301	landfill gas
168	lead cast
169	lead product
132	lime
210	limestone
270	liquor
170	logs
263	lube oil
285	material
211	meal
171	metal
172	molten aluminum
305	non-classified coating - miscellaneous metal parts
135	ore
319	oven-dried wood produced

Process Material

109	overburden
176	P_2O_5 (phosphate)
120	paint
290	painted wood
291	painted wood plus incidental material
173	paper
146	parts
317	PCB contaminated soil
254	peanuts
212	pellets
308	pesticide/fumigant
213	phosphate rock
214	phosphorus
255	photoresist
140	pieces
215	pigment
108	pile
216	pipe
256	plastic
150	plated product
261	plywood
174	polyester/alkyd resin
125	primer
147	printing lines
101	product
309	production index ratio
217	raw beets
286	raw material
218	raw seed
266	refinery crude
264	refinery feed
312	refrigerant
322	regulated medical waste (RMW)
306	repair/touch-up coating - motor vehicle refinishing
219	residues/skimmings
275	resin
220	resin/wax
221	rock
323	rolls
177	salt
222	sand
223	saturated felt
178	sawdust
179	scrap
126	sealer
294	semi-transparent stain
224	shot
180	sinter
257	slab zinc
225	slag
110	soil
314	solder
127	solution
149	solvent

Code	**General Process Material**
138	sour gas
226	starch
310	starting monomer applied
181	steam
258	stock
279	stone
227	sugar
232	sulfur
136	sulfur dioxide
283	talc
151	tank cars
152	tank trucks
228	tin
230	TNT
276	toner
182	topsoil
111	treated soil
321	tubing
272	turpentine process material
287	unbleached pulp
265	vacuum feed
259	varnish
142	vehicles
128	VOCs
292	volatile fraction of ink
278	wafers/chips
183	waste material
139	wastewater
129	water
184	wax
137	welding rod
121	wet mixed slurry
273	wine
300	wood coatings - clear top coats

Process Material

295	wood coatings – opaque stains
296	wood coatings – pigmented coats
297	wood coatings - sealers
298	wood coatings - semi-transparent stains
299	wood coatings – wash coats
185	wood waste
260	yeast
229	zinc
186	zinc oxide

Potential To Emit (PTE) Range Codes

Code	PTE Range
A	> 0 but < 2.5 TPY
B	>= 2.5 TPY but < 10 TPY
C	>= 10 TPY but < 25 TPY
D	>= 25 TPY but < 40 TPY
E	>= 40 TPY but < 50 TPY
F	>= 50 TPY but < 100 TPY
G	>= 100 TPY but < 250 TPY
H	>= 250 TPY but < 75,000 TPY
I	>= 75,000 TPY but < 100,000 TPY
J	>= 100,000 TPY
Y	> 0 but < 10 TPY (speciated HAPs only)
Z	>= 10 tpy (speciated HAPs only)

Report Submittal Frequency

Code	Report Submittal Frequency
09	annually (anniversary)
15	annually (calendar)
16	as required - see monitoring description
06	bimonthly (anniversary)
12	bimonthly (calendar)
18	continuous
05	monthly (anniversary)
11	monthly (calendar)
01	once / batch or monitoring occurrence
07	quarterly (anniversary)
13	quarterly (calendar)
08	semi-annually (anniversary)
14	semi-annually (calendar)
10	upon request by regulatory agency

Throughput Quantity Units
Process Rates

Code	Throughput Quantity Units
0562	10^4 sq. ft. Of 3/8 in. plywood produced
0563	10,000 square feet of 3/8 inch plywood produced
0564	100 acres prepared
0565	100 barrel feed produced
0566	100 gallons throughput
0567	100 pounds of product
0568	100 tons chlorine liquefied
0570	100,000 brake horsepower-hours
0710	1000 ampere-hours current applied
0581	1000 barrel-mile of fuel used
0582	1000 barrel-mile throughput
0571	1000 barrels burned
0572	1000 barrels fresh feed
0573	1000 barrels lube oil
0583	1000 barrels oil produced
0584	1000 barrels processed
0574	1000 barrels produced
0575	1000 barrels refinery capacity
0585	1000 barrels refinery crude
0586	1000 barrels refinery crude feed
0576	1000 barrels refinery feed
0577	1000 barrels vacuum feed
0587	1000 batteries produced
0588	1000 bbl refinery crude feed
0590	1000 board feet
0580	1000 board feet produced
0595	1000 cans filled
0597	1000 circuit boards
0591	1000 containers stored
0598	1000 cubic feet
0599	1000 cubic feet burned
0593	1000 cubic feet gas burned
0600	1000 cubic feet of waste treated
0601	1000 cubic yards of landfill
0602	1000 feet
0603	1000 feet drilled
0620	1000 gallon burned
0621	1000 gallon storage capacity
0604	1000 gallon throughput
0622	1000 gallon transferred
0605	1000 gallons
0606	1000 gallons acid
0607	1000 gallons burned
0625	1000 gallons capacity
0626	1000 gallons crude transfer
0627	1000 gallons disposed
0628	1000 gallons liquor
0629	1000 gallons of crude oil processed
0630	1000 gallons of treated wastewater
0631	1000 gallons of treated water
0632	1000 gallons processed
0608	1000 gallons produced
0609	1000 gallons pumped
0610	1000 gallons solvent
0611	1000 gallons storage capacity
0612	1000 gallons stored
0613	1000 gallons thinned-resin stored
0614	1000 gallons throughput
0615	1000 gallons total cargo capacity
0616	1000 gallons transferred
0617	1000 gallons transported
0640	1000 gallons treated
0641	1000 gallons turpentine
0618	1000 gallons waste burned
0619	1000 gallons wastewater
0643	1000 gallons wastewater throughput
0644	1000 gallons water
0645	1000 gallons wine produced
0696	1000 gals raw juice processed
0697	1000 gals thin juice processed
0646	1000 horsepower-hours
0647	1000 lbs dried blood meal
0704	1000 lbs dried talc produced
0648	1000 lbs electrode
0649	1000 lbs product
0650	1000 lbs sawdust used
0705	1000 lbs talc calcined

Throughput Quantity Units
Process Rates

Code	Throughput Quantity Units
0700	1000 lbs talc conveyed
0706	1000 lbs talc cooled
0702	1000 lbs talc loaded
0707	1000 lbs talc processed
0701	1000 lbs talc produced
0703	1000 lbs talc screened
0699	1000 lbs talc stored
0651	1000 miles of pipeline
0653	1000 parts produced
0654	1000 pounds resin
0709	1000 pounds starting monomer applied
0655	1000 pounds toner
0656	1000 pounds wafers/chips dried
0663	1000 sq. ft. product surface area coated
0657	1000 sq. ft. board sawed
0658	1000 sq. ft. product surface area degreased
0659	1000 sq. ft. product surface area coated
0665	1000 sq. ft. of area capped
0666	1000 sq. ft. of product
0660	1000 square feet
0714	1000 square feet 3/4-inch MDF produced
0661	1000 square feet pipe processed
0668	1000 square feet processed
0669	1000 square feet product surface
0670	1000 tires processed
0671	1000 tires produced
0673	1000 tons coal
0674	1000 tons coal dried
0675	1000 tons coal shipped
0676	1000 tons processed
0677	1000 tons product loaded
0678	1000 tons product stored
0679	1000 tons raw material
0680	1000 tons shipped
0681	1000 tons stone dried
0682	1000 units produced
0683	1000 vehicle-miles
0684	1000 wafers
0685	1000 gallons of capacity
0686	10000 square feet of plywood produced
0001	acres
0002	acres of coal storage area
0003	acres of construction activity
0004	acres of exposed area
0005	acres of landfill
0006	acres of storage area
0007	acres of storage pile
0008	air-dry tons unbleached pulp
0012	amperes per hour
0009	appliances produced
0711	bagels baked
0013	bales of cotton
0014	barrel (50 gal)
0020	barrels waste liquid
0016	barrels-processed
0015	barrel-year of stored product
0017	blasts
0021	bodies
0712	bread and rolls baked
0018	bulldozer-hours of operation
0023	cars burned
0024	coating lines
0708	coke quench tower make-up water
0025	cold cleaners in operation
0026	cu. yd. waste x miles from gate to dump
0031	cubic feet
0032	cubic feet burned
0027	cubic yards of concrete produced
0028	cubic yards of pile
0033	cubic yards of soil handled
0034	cubic yards of treated soil
0029	cubic yards overburden removed
0035	degreasing units in operation
0036	drains in operation (annual basis)

Throughput Quantity Units
Process Rates

Code	Throughput Quantity Units
0037	drums burned
0038	each
0041	facility - annual
0040	feet drilled
0044	flanges in operation (annual basis)
0045	gallons
0062	gallons adhesive applied
0063	gallons deadener used
0049	gallons dye consumed
0050	gallons etching solution consumed
0064	gallons finished product
0051	gallons heated
0052	gallons ink
0066	gallons lubrication consumed
0067	gallons of adhesive
0068	gallons of aerosol filled
0069	gallons of aerosol mixed
0046	gallons of coating
0047	gallons of core oil used
0048	gallons of product
0053	gallons paint consumed
0071	gallons primer used
0072	gallons processed
0054	gallons produced
0055	gallons product
0073	gallons recovered
0074	gallons sealer used
0075	gallons solution consumed
0056	gallons solvent
0057	gallons solvent consumed
0058	gallons stored
0077	gallons surface coating applied
0059	gallons used
0078	gallons VOCs consumed
0079	gallons water removed
0060	gallons wet mixed slurry sprayed
0080	head of cattle capacity
0081	head of cattle throughput
0082	holes drilled
0083	hours of operation
0084	hundreds of pounds of product
0086	hundreds of tons mined
0085	hundreds of tons of material
0087	hundreds of tons produced
0089	items produced
0090	kilograms
0091	kilowatts
1000	lamps crushed
0094	landings & takeoffs (ltos)
0097	lb/1000 lbs concentrate processed
0098	lb/1000 lbs dryer feed
0099	lb/1000 lbs ore processed
0100	lb/1000 lbs product
0095	lb/ton of lime manufactured
0096	lb/ton of lime processed
0101	lbs/ton finished product
0102	lbs SO_2 used
0103	lbs welding rod used
0092	linear feet
0104	million Btu heat input
0106	million cubic feet burned
0115	million cubic feet gas
0107	million cubic feet gas processed
0105	million cubic feet of gas produced
0118	million cubic feet processed
0108	million cubic feet produced
0109	million cubic feet sour gas processed
0121	million gallons burned
0110	million gallons cooling water
0122	million gallons throughput
0111	million gallons wastewater
0112	million pieces processed
0713	million square feet board
0124	millions cubic feet burned
0125	MWe-hr
0134	number of batches
0130	number of boards produced
0131	number of boats manufactured

Throughput Quantity Units
Process Rates

Code	Throughput Quantity Units
0126	number of chickens-capacity
0127	number of chickens-throughput
0132	number of drains
0133	number of seals
0128	number of slips
0135	number of vehicles
0129	number of vehicles processed
0136	number of x-rays taken
0137	parts processed
0143	pounds
0144	pounds of chlorine used
0145	pounds of solvent used
0146	pounds of welding rod
0138	pounds processed
0147	pounds solvent used
0139	pounds stored
0140	printing lines
0148	process unit - year
0156	SCFM average airflow
0151	seals in operation (annual basis)
0152	sq. ft. Demolished floor area
0160	sq. ft. Of surface of area stripped
0153	sq. ft. Surface area x hours operated
0161	sq. ft. Of area graded
0162	square feet
0154	square feet of product plated
0163	square feet of surface area
0164	square feet of tank surface area
0155	square feet sump area/year
0165	tank cars cleaned
0166	tank trucks cleaned
0167	thousand pieces processed
0364	ton ore processed
0365	ton processed
0366	ton product
0367	tons
0360	tons 100% H_2SO_4
0361	tons 100% H_2SO_4 loaded
0362	tons 100% H_2SO_4 stored
0363	tons 100% sulfur
0228	tons abrasive consumed
0229	tons acid
0368	tons acid recovered
0230	tons adhesive
0370	tons adhesives produced
0231	tons agent used
0232	tons air-dry pulp
0371	tons alcohol used
0372	tons ammonia stored
0373	tons ash handled
0233	tons asphalt processed
0234	tons asphalt shingle
0375	tons asphalt shingles/rolls
0376	tons asphaltic concrete
0235	tons bauxite material used
0236	tons beaded glass produced
0691	tons beans fed
0692	tons beans fed to roaster
0377	tons beans processed
0693	tons beans produced
0688	tons beans screened
0689	tons beans stored
0687	tons beans unloaded
0237	tons brick produced
0238	tons burned
0379	tons carbon black produced
0380	tons carpet processed
0381	tons casein produced
0239	tons castings cleaned
0240	tons catalyst burned
0241	tons catalyst removed
0242	tons cement produced
0243	tons charged
0244	tons clay dried
0245	tons clay processed
0384	tons clinker produced
0246	tons clothes cleaned
0247	tons coal
0387	tons coal burned
0248	tons coal dried
0388	tons coal handled
0249	tons coal loaded
0250	tons coal mined

Throughput Quantity Units
Process Rates

Code	Throughput Quantity Units
0389	tons coal shipped
0251	tons coating
0252	tons coating applied
0253	tons coating material melted
0254	tons coating mix applied
0255	tons coating mixed
0390	tons coke handled
0391	tons coke processed
0392	tons coke produced
0393	tons concentrated ore processed
0394	tons corn gluten feed produced
0395	tons corn gluten meal produced
0396	tons corn steeped
0256	tons cottonseed delinted
0257	tons crude gypsum processed
0258	tons cullet processed
0397	tons dextrose produced
0259	tons dried
0690	tons dried beans processed
0398	tons dried germ produced
0399	tons dried hulls produced
0400	tons dried material produced
0260	tons dried sludge
0402	tons dried yeast
0261	tons dry sludge burned
0403	tons dryer feed
0262	tons dye consumed
0263	tons dyes/pigments produced
0264	tons ethylene oxide consumed
0265	tons extractor feed cake
0405	tons fabric printed
0406	tons fed
0407	tons feed
0266	tons feed material
0267	tons fertilizer granulated
0268	tons fertilizer produced
0269	tons fiber
0412	tons fiber produced
0413	tons field weight
0270	tons final acid
0414	tons final product
0271	tons finished product
0272	tons fish meal produced
0273	tons fish processed
0274	tons fish scrap
0415	tons flue dust processed
0275	tons fluorspar
0417	tons formaldehyde consumed
0418	tons Freon consumed
0419	tons generated
0420	tons glass produced
0276	tons grain dried
0277	tons grain processed
0423	tons grain treated
0424	tons gray iron produced
0278	tons handled
0279	tons hydrated lime produced
0426	tons hydrogen sulfide burned
0280	tons in pile
0281	tons ink
0428	tons ink produced
0282	tons input to process
0694	tons instant coffee produced
0283	tons iron produced
0284	tons lead oxide produced
0430	tons lead processed
0431	tons lead produced
0432	tons lignite burned
0698	tons lime crushed
0433	tons lime manufactured
0434	tons lime processed
0285	tons lime produced
0436	tons limestone mixed
0286	tons limestone processed
0287	tons liquid waste burned
0437	tons loaded
0289	tons makeup
0288	tons make-up solvent used
0439	tons material charged
0290	tons material processed
0291	tons material transferred
0292	tons meal produced
0293	tons meat smoked
0294	tons melted

Throughput Quantity Units
Process Rates

Code	Throughput Quantity Units
0443	tons metal charged
0295	tons metal processed
0445	tons metal produced
0296	tons mined
0168	tons of alumina produced
0169	tons of ammonia produced
0170	tons of asphalt
0171	tons of asphalt produced
0172	tons of batteries produced
0173	tons of bread baked
0447	tons of brick produced
0174	tons of castings produced
0448	tons of charcoal
0175	tons of charge
0176	tons of chlorine used
0177	tons of coal charged
0178	tons of coating
0451	tons of coke produced
0179	tons of coke-free charge
0180	tons of concentrated ore processed
0454	tons of coolant consumed
0181	tons of cores produced
0182	tons of dry feed
0183	tons of dry nahco3 feed
0184	tons of dry product
0185	tons of fabric
0456	tons of fabric coated
0457	tons of fabric dyed
0458	tons of feed material
0186	tons of fuel
0187	tons of fuel burned
0460	tons of fuel consumed
0461	tons of glass processed
0188	tons of glass produced
0462	tons of grain
0189	tons of grain processed
0190	tons of grain received
0191	tons of grain shipped or received
0192	tons of green beans
0193	tons of lead cast
0194	tons of lead product
0195	tons of logs processed
0196	tons of material
0468	tons of material charged
0469	tons of material processed
0470	tons of material stored
0471	tons of material treated
0197	tons of material unloaded
0473	tons of meat
0474	tons of metal
0198	tons of metal charged
0199	tons of metal inoculated
0200	tons of metal produced
0477	tons of mixing material
0201	tons of molten aluminum produced
0202	tons of ore
0203	tons of ore crushed
0204	tons of ore processed
0209	tons of p2o5
0205	tons of paper shredded
0479	tons of peanuts processed
0206	tons of polyester/alkyd resin produced
0207	tons of product
0208	tons of pure acid produced
0210	tons of raw material
0211	tons of raw material stored
0482	tons of resin consumed
0212	tons of salt granulated
0213	tons of salt handled
0214	tons of salt produced
0215	tons of sawdust
0216	tons of scrap processed
0217	tons of sinter
0483	tons of solvent consumed
0218	tons of solvent lost
0484	tons of starch processed
0219	tons of steam produced
0220	tons of topsoil
0221	tons of topsoil removed
0222	tons of waste material
0223	tons of waste removed
0486	tons of waste treated
0224	tons of wax burned
0487	tons of wood processed

Throughput Quantity Units
Process Rates

Code	Throughput Quantity Units
0225	tons of wood treated
0226	tons of wood waste
0227	tons of zinc oxide produced
0297	tons ore
0488	tons ore processed
0298	tons ore transferred
0715	tons oven-dried wood produced
0299	tons overburden
0300	tons overburden loaded
0318	tons p2o5 produced
0301	tons paint produced
0302	tons pellets produced
0492	tons phosphate produced
0303	tons phosphate rock
0304	tons phosphate rock dried
0305	tons phosphate rock milled
0306	tons phosphorous burned
0494	tons photoresist processed
0307	tons pigment
0308	tons pigment processed
0497	tons pigment produced
0309	tons pipe processed
0499	tons plastic produced
0310	tons plated
0695	tons pressed pulp fed
0311	tons processed
0312	tons processed (input)
0313	tons produced
0314	tons produced (finished)
0315	tons product
0503	tons product loaded
0316	tons product stored
0505	tons product transferred
0317	tons pure acid produced
0506	tons pure solvent used
0507	tons quenched
0319	tons raw beets
0320	tons raw coke processed
0321	tons raw material
0509	tons raw material handled
0322	tons raw material processed
0511	tons raw material stored
0323	tons raw seed processed
0324	tons reclaimed solvent
0325	tons refined oil produced
0514	tons reheated
0326	tons removed
0327	tons residues/skimmings processed
0328	tons resin/wax consumed
0329	tons roasted
0330	tons rock milled
0515	tons sand cooled
0331	tons sand handled
0332	tons sand processed
0333	tons saturated felt
0334	tons scrap processed
0518	tons shingles produced
0335	tons shipped
0336	tons shot consumed
0337	tons sinter processed
0519	tons sinter produced
0338	tons sinter transferred
0520	tons slab zinc produced
0339	tons slag transferred
0340	tons solvent
0343	tons solvent added
0344	tons solvent consumed
0341	tons solvent in coating
0524	tons solvent in coating applied
0525	tons solvent in drawing compound
0342	tons solvent in ink
0345	tons solvent mixed
0346	tons solvent stored
0347	tons solvent stripped
0348	tons solvent used
0349	tons sprayed metal consumed
0529	tons starch loaded
0350	tons starch produced
0531	tons starch stored
0532	tons stock processed
0351	tons stone dried
0533	tons stored
0534	tons substitute
0352	tons sugar produced
0535	tons sulfur

Throughput Quantity Units
Process Rates

Code	Throughput Quantity Units
0536	tons sulfur recovered
0353	tons thinning solvent used
0354	tons throughput
0355	tons tin consumed
0356	tons TNT burned
0537	tons transferred
0538	tons used
0539	tons varnish produced
0357	tons waste removed
0540	tons yeast from F4
0541	tons yeast from F5
0542	tons yeast from F6
0543	tons yeast from F7
0544	tons yeast processed
0545	tons zinc ore processed
0358	tons zinc produced
0359	tons zinc used
0548	valves in operation (annual basis)
0549	vehicle-miles
0550	vehicle-miles by graders
0551	vehicle-miles by haul trucks
0552	vehicle-miles by light/medium vehicles
0553	vehicle-miles by scrapers
0554	vehicle-miles traveled
0558	vehicles processed
0555	vehicles produced
0560	wells/year drilled
0559	wells/year in operation
0546	wet tons

Units (of measurement)

Code	Weight/Mass
72	100 pounds
59	100 tons
58	1000 pounds
60	1000 tons
61	air-dry tons
71	brick
33	grains
68	grams
69	kilograms
375	loads
70	megagrams (10^6 grams)
66	micrograms (10^{-6} grams)
67	millgrams (10^{-3} grams)
65	nanograms (10^{-9} grams)
32	ounces
64	picograms (10^{-12} grams)
26	pounds
34	tons
62	tons (long)
63	tons (metric)

Code	Volume
79	100 barrels
75	100 gallons
80	1000 barrels
91	1000 cubic feet
94	1000 cubic yards
76	1000 gallons
83	barrel mile
82	barrel year
81	barrels (liquid, us)
78	barrels (petroleum, us)
95	bushels (us)
97	cord
85	cubic centimeters
90	cubic feet
89	cubic inches
86	cubic meters
93	cubic yards
15	gallons
84	hogshead
88	liters
87	milliliters
92	million cubic feet
77	million gallons
96	pecks
73	pints
74	quarts

Code	Rates/Ratios
121	1000 cubic feet per day
120	1000 cubic feet per hour
129	centimeters per second
42	cubic feet per day
41	cubic feet per hour
119	cubic feet per hour (standard conditions)
39	cubic feet per minute
118	cubic feet per minute (standard conditions)
116	cubic feet per second (actual)
117	cubic feet per second (standard conditions)
43	cubic feet per year
125	cubic meters per min (actual)
126	cubic meters per min (standard conditions)
347	dollars per million British thermal units
382	dry standard cubic feet per minute
326	dynes per centimeter
51	feet per day
50	feet per hour
324	feet per minute
49	feet per second
52	feet per year
323	freeboard ratio
17	gallons per day
16	gallons per hour
115	gallons per minute

Code	Rates/Ratios
367	gallons per month
114	gallons per second
18	gallons per year
141	gallons/min/1000 actual cubic ft/min (liquid/gas volumetric flow rate ratio)
391	grains per standard cubic foot

Units (of measurement)

339	grams of VOC per tire installed
337	grams particulate per kilogram of glass produced
319	grams per brake horsepower-hour
107	grams per day
106	grams per hour
105	grams per minute
104	grams per second
108	grams per year
396	grams pm per dry standard cubic meter
384	inches per minute
394	kilograms HCl per mg
336	kilograms organic hap per kilogram solids applied
112	kilograms per day
111	kilograms per hour
325	kilograms per hour per square meter (vapor degreasers)
110	kilograms per minute
348	kilograms per month
368	kilograms per month per square meter
109	kilograms per second
113	kilograms per year
393	kilograms pm per mg
392	kilograms THC, as propane per mg
335	kilograms VOC per kilogram solids applied
366	kilograms VOC per liter
379	kilograms VOC per liter of coating solids
132	kilometers per hour
135	kilometers per liter
124	liters per hour
123	liters per minute
122	liters per second
334	megagrams (10^6 grams) per year
131	meters per minute
130	meters per second
387	micrograms of d/f TEQ per mg
134	miles per gallon
133	miles per hour
383	million Btu per day
25	million Btu per hour
352	million cubic feet per month
55	million cubic feet per year
341	million square feet per year
386	million standard cubic feet per year
327	millions of amp hours per year
353	millisiemens per centimeter
373	number (or quantity) per batch
377	number (or quantity) per minute
349	number (or quantity) per year
345	odor units per minute
136	percent
21	percent by volume
57	percent by weight
333	percent reduction by volume
332	percent reduction by weight
340	percent reduction by weight (corrected to 7% O_2, dry basis)
331	percent reduction by weight or volume (corrected to 7% O_2, dry basis)
98	pound moles per hour
328	pounds of steam per pound of fuel
369	pounds of VOC per pound of solids
321	pounds of volatile hazardous air pollutant per pounds of solids
338	pounds of water per pound of fuel
10	pounds per 100 pounds
4	pounds per 1000 pounds
11	pounds per 1000 pounds of ueg

Code	**Rates/Ratios**
2	pounds per day
3	pounds per hour
381	pounds per hour per flare

Units (of measurement)

99	pounds per hour square foot (liquid flow rate)
374	pounds per load
8	pounds per megawatt hour
7	pounds per million Btus
342	pounds per million cubic feet
100	pounds per minute
355	pounds per month
102	pounds per pound mole
101	pounds per second
6	pounds per ton
350	pounds per week
1	pounds per year
103	pounds water per pounds dry air
140	revolutions per minute
139	revolutions per second
128	square feet hours
389	square feet per hour
127	square feet per year
385	standard cubic feet per year
54	thousand gallons per year
37	tons per day
9	tons per hour
351	tons per week
38	tons per year

Code	**Time**
29	days
28	hours
30	minutes
31	seconds
27	years

Code	**Temperature**
45	degrees centigrade (or Celsius)
44	degrees Fahrenheit
46	degrees Kelvin
172	degrees Rankin

Code	**Length/Area**
190	10^4 square feet
198	1000 board feet
173	1000 feet
176	1000 miles
189	1000 square feet
178	1000 vehicle miles
56	acres
186	angstroms
181	centimeters
47	feet
197	hectares
48	inches
179	kilometers
180	meters
184	micrometers (or microns)
175	miles
182	millimeters
183	mils
185	nanometers
195	square centimeters
188	square feet
187	square inches
193	square kilometers
194	square meters
192	square miles
196	square millimeters
191	square yards
177	vehicle miles
174	yards

Code	**Energy/Power/ Radiation**
222	horsepower hours
53	British thermal units
205	British thermal units per gallon
200	British thermal units per hour
202	British thermal units per minute
203	British thermal units per pound-mole
204	British thermal units per standard cubic foot
206	British thermal units per ton

Code	**Energy/Power/ Radiation**
317	British thermal units per year
209	calories
240	curies
230	ergs

Units (of measurement)

231	ergs per sec
232	foot-pounds
233	foot-pounds per hour
234	foot-pounds per minute
226	gram calories
227	gram calories per hour
237	gram centimeters
218	horsepower (boiler)
220	horsepower (electric)
219	horsepower (mechanical)
221	horsepower (metric)
223	joules
225	joules per hour
224	joules per second
208	kilocalories
228	kilogram calories
229	kilogram calories per hour
235	kilogram meters
236	kilogram-meters per second
395	kilovolt-amperes
215	kilowatt hour per year
214	kilowatt hours
213	kilowatts
239	liter atmosphere
216	megawatt
217	megawatt hour
36	microcuries
199	million British thermal units
320	million British thermal units per year
238	newton-meters
210	pound steam per hour
207	therms
390	volt-amperes per 1000 actual cubic feet per minute
212	watt hours
211	watts

Code	Quantity
376	containers
242	hundred items
241	items
244	million items
243	thousand items
372	tons of RMW

Code	Concentration/Density
269	10^{-12} micro curies per milliliter
270	10^{-15} micro curies per milliliter
271	10^{-18} micro curies per milliliter
272	10^{-21} micro curies per milliliter
266	10^{-3} micro curies per milliliter
267	10^{-6} micro curies per milliliter
268	10^{-9} micro curies per milliliter
346	grains per 100 dry standard cubic ft. (corrected to 7% O_2)
13	grains per 100 dscf
14	grains per 1000 dscf
258	grains per dry standard cubic foot (corrected to 12% CO_2)
259	grains per dry standard cubic foot (corrected to 4% CO_2)
257	grains per dry standard cubic foot (corrected to 7% O_2)
12	grains per dscf
264	grains per gallon
265	grains per milliliter
249	grams per cubic centimeter
247	grams per cubic foot
248	grams per cubic meter
251	grams per liter
250	grams per milliliter
252	kilograms per cubic meter
20	microcuries per milliliter
256	micrograms per cubic foot
255	micrograms per cubic meter
370	micrograms per dry standard cubic meter (corrected to 7% O_2)
254	micrograms per liter

Code	Concentration/Density
253	milligrams per cubic meter
322	milligrams per dry standard cubic meter
329	milligrams per dry standard cubic meter (corrected to 7% O_2)
318	milligrams per liter
354	nanogram toxicity equivalence per dry standard cu meter, corrected to 7% O_2

Units (of measurement)

260	nanograms per dry standard cubic meter
262	nanograms per dry standard cubic meter (corrected to 12% CO_2)
263	nanograms per dry standard cubic meter (corrected to 4% CO_2)
261	nanograms per dry standard cubic meter (corrected to 7% O_2)
330	nanograms per dry standard cubic meter (total mass, corrected to 7% O_2)
343	part per million by volume (dry, units (of measurement) corrected to 10% O_2)
277	parts per billion by volume
280	parts per billion by volume (dry, corrected to 12% CO_2)
279	parts per billion by volume (dry, corrected to 15% O_2)
278	parts per billion by volume (dry, corrected to 7% O_2)
23	parts per billion by weight
273	parts per million (by volume)
371	parts per million by volume (dry, corrected to 3% oxygen)
276	parts per million by volume (dry, corrected to 12% CO_2)
275	parts per million by volume (dry, corrected to 15% O_2)
274	parts per million by volume (dry, corrected to 7% O_2)
22	parts per million by weight
19	pounds per 1000 gallons
245	pounds per cubic foot
246	pounds per cubic inch
5	pounds per gallon
Code	**Pressure**
388	1000 Newtons/square meter (kilopascals)
281	atmospheres
293	bar
285	centimeters of water
286	feet of water
289	grams per square centimeter
282	inches of mercury
284	inches of water
287	kilograms per square centimeter
288	kilograms per square meter
294	millibar
283	millimeters of mercury
380	millimeters of water
296	newton per square meter (Pascal)
290	pounds per square foot
291	pounds per square inch absolute
292	pounds per square inch gauge
295	torr

Code	**Miscellaneous Parameters**
304	amperes
307	amperes per hour
378	centistokes (viscosity)
316	gram per centimeter second (viscosity)
298	kilogram per meter hour (viscosity)
303	kilovolts
306	microamperes
312	microamperes per square foot (corona power)
313	microamperes per square meter (corona power)
305	milliamps
309	milliohms

Code	**Miscellaneous Parameters**
344	millivolts
308	ohms
314	PH units
300	pound per foot hour (viscosity)
299	pound per foot second (viscosity)
301	pound per meter second (viscosity)
302	volts

Units (of measurement)

310	volts per meter (electric field strength)
315	watts per 1000 cubic feet per minute (corona power)
311	watts per 1000 cubic meters per minute (corona power)

Waste Type/Waste Feed (Incinerators)

Code	Waste Type
04	crematory waste (including human and/or animal body parts and associated animal bedding) only
07	hazardous waste
03	infectious waste only
01	municipal solid waste and/or solid waste
02	municipal solid waste and/or solid waste and infectious waste
06	radioactive waste (any waste containing this)
05	sewage sludge

Code	Waste Feed
04	automatic pneumatic feed, screw conveyor
05	automatic ram feed
02	chute fed
01	flue fed
06	liquid fed with a spray nozzle
03	manual direct feed

Work Practice Type

Code	Operating Schedule
02	days per year operation
01	hours per day operation
06	hours per month operation
05	hours per year operation
04	parameter of process material
03	process material throughput