

Averaging Method

<u>Code</u>	<u>Averaging Method</u>
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

<u>Code</u>	<u>Averaging Method</u>
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

<u>Code</u>	<u>Emission Control Type</u>
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

<u>Code</u>	<u>Emission Control Type</u>
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

<u>Code</u>	<u>Emission Control Type</u>
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

<u>Code</u>	<u>Emission Rate How Determined</u>
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

Monitoring Frequency

<u>Code</u>	<u>Monitoring Frequency</u>
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)

<u>Code</u>	<u>Parameter Monitored</u>
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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)

<u>Code</u>	<u>Parameter Monitored</u>
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)

<u>Code</u>	<u>Parameter Monitored</u>
19	working capacity of carbon bed

Process Material

<u>Code</u>	<u>Fuel Type</u>		
001	anthracite coal	320	3/4-inch medium density fiberboard produced
018	aviation fuel	187	abrasive
030	bagasse	175	acid
031	bark	122	adhesive
002	bituminous coal	124	aerosol
021	blast furnace gas	303	air dried/forced warm air-dried
025	butane		coating - miscellaneous metal
003	coke		parts
022	coke oven gas	188	air-dry pulp
036	distillates - number 1 and number 2 oil	233	alcohol
		153	alumina
029	garbage	315	aluminum
034	gaseous waste	154	ammonia
017	gasoline	288	appliances
039	landfill gas	234	ash
016	lignite	155	asphalt
013	liquid propane gas	189	asphalt shingle
032	liquid waste	235	asphaltic concrete
012	natural gas	313	batches
006	number 1 oil	156	batteries
007	number 2 oil	190	bauxite material
008	number 4 oil	191	beaded glass
009	number 5 oil	236	beans
010	number 6 oil	102	blasts
020	oil (not elsewhere classified)	143	boards
014	other gaseous fuels	144	boats
011	other liquid fuels	103	bodies
005	other solid fuels	157	bread baked
037	petroleum liquids with maximum annual average RVP of 12.4	192	brick
		268	cans
026	propane	237	carbon black
023	refinery gas	238	carpet
028	refuse	104	cars
027	refuse derived fuel		
038	residual fuel (#4, #5 and/or #6 fuel oil)	<u>Code</u>	<u>General Process Material</u>
		239	casein
024	sewage gas	158	castings
035	sludge	193	catalyst
033	solvent waste	194	cement
015	sub-bituminous coal	289	charcoal
019	waste oil	159	charge process material
004	wood	141	chickens
		148	chlorine
		269	circuit boards
		195	clay
<u>Code</u>	<u>General Process Material</u>		
231	100% H ₂ SO ₄ (sulfuric acid)		

Process Material

302	clear coatings - miscellaneous metal parts	202	ethylene oxide
240	clinker	203	extractor feed cake
196	clothes	304	extreme performance coating – miscellaneous metal parts
316	coal tar	164	fabric
115	coating	204	fertilizer
105	coating lines	205	fiber
197	coating mixed	206	fish meal
281	coffee	207	fish scrap
106	cold cleaners	248	flue dust
133	concentrate	208	fluorspar
107	concrete	249	formaldehyde
267	containers	311	fountain solution
253	coolant	250	Freon
116	core oil	318	fuel
160	cores	165	glass
243	corn	166	grain
241	corn gluten feed	251	gray iron
242	corn gluten meal	167	green beans
100	cotton	130	head of cattle
198	cottonseed	252	hydrogen sulfide
262	crude feed	119	ink
199	crude gypsum		
271	crude oil	<u>Code</u>	<u>General Process Material</u>
200	cullet	293	ink fraction less nonreactive volatiles
123	deadener		
112	degreasing units	209	iron
244	dextrose	131	items
113	drains	282	juice
145	drains	324	lamp
280	dried beans	301	landfill gas
274	dried blood meal	168	lead cast
245	dried germ	169	lead product
246	dried hulls	132	lime
247	dried yeast	210	limestone
114	drums	270	liquor
161	dry feed	170	logs
162	dry nacho feed	263	lube oil
163	dry product	285	material
134	dryer feed	211	meal
117	dye	171	metal
201	dyes/pigments	172	molten aluminum
277	electrode	305	non-classified coating - miscellaneous metal parts
307	entire vehicle coating - motor vehicle refinishing	135	ore
118	etching solution	319	oven-dried wood produced

Process Material

109	overburden	126	sealer
176	P ₂ O ₅ (phosphate)	294	semi-transparent stain
120	paint	224	shot
290	painted wood	180	sinter
291	painted wood plus incidental material	257	slab zinc
		225	slag
173	paper	110	soil
146	parts	314	solder
317	PCB contaminated soil	127	solution
254	peanuts	149	solvent
212	pellets		
308	pesticide/fumigant	<u>Code</u>	<u>General Process Material</u>
213	phosphate rock	138	sour gas
214	phosphorus	226	starch
255	photoresist	310	starting monomer applied
140	pieces	181	steam
215	pigment	258	stock
108	pile	279	stone
216	pipe	227	sugar
256	plastic	232	sulfur
150	plated product	136	sulfur dioxide
261	plywood	283	talc
174	polyester/alkyd resin	151	tank cars
125	primer	152	tank trucks
147	printing lines	228	tin
101	product	230	TNT
309	production index ratio	276	toner
217	raw beets	182	topsoil
286	raw material	111	treated soil
218	raw seed	321	tubing
266	refinery crude	272	turpentine process material
264	refinery feed	287	unbleached pulp
312	refrigerant	265	vacuum feed
322	regulated medical waste (RMW)	259	varnish
306	repair/touch-up coating - motor vehicle refinishing	142	vehicles
		128	VOCs
219	residues/skimmings	292	volatile fraction of ink
275	resin	278	wafers/chips
220	resin/wax	183	waste material
221	rock	139	wastewater
323	rolls	129	water
177	salt	184	wax
222	sand	137	welding rod
223	saturated felt	121	wet mixed slurry
178	sawdust	273	wine
179	scrap	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

Report Submittal Frequency

<u>Code</u>	<u>Report Submittal Frequency</u>
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

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

Throughput Quantity Units Process Rates

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

Throughput Quantity Units Process Rates

<u>Code</u>	<u>Throughput Quantity Units</u>		
0037	drums burned	0084	hundreds of pounds of
0038	each		product
0041	facility - annual	0086	hundreds of tons mined
0040	feet drilled	0085	hundreds of tons of material
0044	flanges in operation (annual basis)	0087	hundreds of tons produced
0045	gallons	0089	items produced
0062	gallons adhesive applied	0090	kilograms
0063	gallons deadener used	0091	kilowatts
0049	gallons dye consumed	1000	lamps crushed
0050	gallons etching solution consumed	0094	landings & takeoffs (ltos)
0064	gallons finished product	0097	lb/1000 lbs concentrate processed
0051	gallons heated	0098	lb/1000 lbs dryer feed
0052	gallons ink	0099	lb/1000 lbs ore processed
0066	gallons lubrication consumed	0100	lb/1000 lbs product
0067	gallons of adhesive	0095	lb/ton of lime manufactured
0068	gallons of aerosol filled	0096	lb/ton of lime processed
0069	gallons of aerosol mixed	0101	lbs/ton finished product
0046	gallons of coating	0102	lbs SO ₂ used
0047	gallons of core oil used	0103	lbs welding rod used
0048	gallons of product	0092	linear feet
0053	gallons paint consumed	0104	million Btu heat input
0071	gallons primer used	0106	million cubic feet burned
0072	gallons processed	0115	million cubic feet gas
0054	gallons produced	0107	million cubic feet gas processed
0055	gallons product	0105	million cubic feet of gas produced
0073	gallons recovered		
0074	gallons sealer used	0118	million cubic feet processed
0075	gallons solution consumed	0108	million cubic feet produced
0056	gallons solvent	0109	million cubic feet sour gas processed
0057	gallons solvent consumed		
0058	gallons stored	0121	million gallons burned
0077	gallons surface coating applied	0110	million gallons cooling water
0059	gallons used	0122	million gallons throughput
0078	gallons VOCs consumed	0111	million gallons wastewater
0079	gallons water removed	0112	million pieces processed
0060	gallons wet mixed slurry sprayed	0713	million square feet board
0080	head of cattle capacity	0124	millions cubic feet burned
0081	head of cattle throughput	0125	MWe-hr
0082	holes drilled	0134	number of batches
0083	hours of operation	0130	number of boards produced
		0131	number of boats manufactured

Throughput Quantity Units Process Rates

<u>Code</u>	<u>Throughput Quantity Units</u>		
0126	number of chickens-capacity	0363	tons 100% sulfur
0127	number of chickens- throughput	0228	tons abrasive consumed
0132	number of drains	0229	tons acid
0133	number of seals	0368	tons acid recovered
0128	number of slips	0230	tons adhesive
0135	number of vehicles	0370	tons adhesives produced
0129	number of vehicles processed	0231	tons agent used
0136	number of x-rays taken	0232	tons air-dry pulp
0137	parts processed	0371	tons alcohol used
0143	pounds	0372	tons ammonia stored
0144	pounds of chlorine used	0373	tons ash handled
0145	pounds of solvent used	0233	tons asphalt processed
0146	pounds of welding rod	0234	tons asphalt shingle
0138	pounds processed	0375	tons asphalt shingles/rolls
0147	pounds solvent used	0376	tons asphaltic concrete
0139	pounds stored	0235	tons bauxite material used
0140	printing lines	0236	tons beaded glass produced
0148	process unit - year	0691	tons beans fed
0156	SCFM average airflow	0692	tons beans fed to roaster
0151	seals in operation (annual basis)	0377	tons beans processed
0152	sq. ft. Demolished floor area	0693	tons beans produced
0160	sq. ft. Of surface of area stripped	0688	tons beans screened
0153	sq. ft. Surface area x hours operated	0689	tons beans stored
0161	sq. ft. Of area graded	0687	tons beans unloaded
0162	square feet	0237	tons brick produced
0154	square feet of product plated	0238	tons burned
0163	square feet of surface area	0379	tons carbon black produced
0164	square feet of tank surface area	0380	tons carpet processed
0155	square feet sump area/year	0381	tons casein produced
0165	tank cars cleaned	0239	tons castings cleaned
0166	tank trucks cleaned	0240	tons catalyst burned
0167	thousand pieces processed	0241	tons catalyst removed
0364	ton ore processed	0242	tons cement produced
0365	ton processed	0243	tons charged
0366	ton product	0244	tons clay dried
0367	tons	0245	tons clay processed
0360	tons 100% H ₂ SO ₄	0384	tons clinker produced
0361	tons 100% H ₂ SO ₄ loaded	0246	tons clothes cleaned
0362	tons 100% H ₂ SO ₄ stored	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

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

Throughput Quantity Units Process Rates

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

Throughput Quantity Units Process Rates

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

Throughput Quantity Units Process Rates

<u>Code</u>	<u>Throughput Quantity Units</u>
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)

<u>Code</u>	<u>Weight/Mass</u>	96	pecks
72	100 pounds	73	pints
59	100 tons	74	quarts
58	1000 pounds		
60	1000 tons	<u>Code</u>	<u>Rates/Ratios</u>
61	air-dry tons	121	1000 cubic feet per day
71	brick	120	1000 cubic feet per hour
33	grains	129	centimeters per second
68	grams	42	cubic feet per day
69	kilograms	41	cubic feet per hour
375	loads	119	cubic feet per hour (standard conditions)
70	megagrams (10 ⁶ grams)	39	cubic feet per minute
66	micrograms (10 ⁻⁶ grams)	118	cubic feet per minute (standard conditions)
67	milligrams (10 ⁻³ grams)	116	cubic feet per second (actual)
65	nanograms (10 ⁻⁹ grams)	117	cubic feet per second (standard conditions)
32	ounces	43	cubic feet per year
64	picograms (10 ⁻¹² grams)	125	cubic meters per min (actual)
26	pounds	126	cubic meters per min (standard conditions)
34	tons	347	dollars per million British thermal units
62	tons (long)	382	dry standard cubic feet per minute
63	tons (metric)	326	dynes per centimeter
<u>Code</u>	<u>Volume</u>	51	feet per day
79	100 barrels	50	feet per hour
75	100 gallons	324	feet per minute
80	1000 barrels	49	feet per second
91	1000 cubic feet	52	feet per year
94	1000 cubic yards	323	freeboard ratio
76	1000 gallons	17	gallons per day
83	barrel mile	16	gallons per hour
82	barrel year	115	gallons per minute
81	barrels (liquid, us)	<u>Code</u>	<u>Rates/Ratios</u>
78	barrels (petroleum, us)	367	gallons per month
95	bushels (us)	114	gallons per second
97	cord	18	gallons per year
85	cubic centimeters	141	gallons/min/1000 actual cubic ft/min (liquid/gas volumetric flow rate ratio)
90	cubic feet	391	grains per standard cubic foot
89	cubic inches		
86	cubic meters		
93	cubic yards		
15	gallons		
84	hogshead		
88	liters		
87	milliliters		
92	million cubic feet		
77	million gallons		

Units (of measurement)

339	grams of VOC per tire installed	133	miles per hour
337	grams particulate per kilogram of glass produced	383	million Btu per day
319	grams per brake horsepower-hour	25	million Btu per hour
107	grams per day	352	million cubic feet per month
106	grams per hour	55	million cubic feet per year
105	grams per minute	341	million square feet per year
104	grams per second	386	million standard cubic feet per year
108	grams per year	327	millions of amp hours per year
396	grams pm per dry standard cubic meter	353	millisiemens per centimeter
384	inches per minute	373	number (or quantity) per batch
394	kilograms HCl per mg	377	number (or quantity) per minute
336	kilograms organic hap per kilogram solids applied	349	number (or quantity) per year
112	kilograms per day	345	odor units per minute
111	kilograms per hour	136	percent
325	kilograms per hour per square meter (vapor degreasers)	21	percent by volume
110	kilograms per minute	57	percent by weight
348	kilograms per month	333	percent reduction by volume
368	kilograms per month per square meter	332	percent reduction by weight
109	kilograms per second	340	percent reduction by weight (corrected to 7% O ₂ , dry basis)
113	kilograms per year	331	percent reduction by weight or volume (corrected to 7% O ₂ , dry basis)
393	kilograms pm per mg	98	pound moles per hour
392	kilograms THC, as propane per mg	328	pounds of steam per pound of fuel
335	kilograms VOC per kilogram solids applied	369	pounds of VOC per pound of solids
366	kilograms VOC per liter	321	pounds of volatile hazardous air pollutant per pounds of solids
379	kilograms VOC per liter of coating solids	338	pounds of water per pound of fuel
132	kilometers per hour	10	pounds per 100 pounds
135	kilometers per liter	4	pounds per 1000 pounds
124	liters per hour	11	pounds per 1000 pounds of ueg
123	liters per minute		
122	liters per second		
334	megagrams (10 ⁶ grams) per year	Code	Rates/Ratios
131	meters per minute	2	pounds per day
130	meters per second	3	pounds per hour
387	micrograms of d/f TEQ per mg	381	pounds per hour per flare
134	miles per gallon		

Units (of measurement)

99	pounds per hour square foot (liquid flow rate)	189	1000 square feet
374	pounds per load	178	1000 vehicle miles
8	pounds per megawatt hour	56	acres
7	pounds per million Btus	186	angstroms
342	pounds per million cubic feet	181	centimeters
100	pounds per minute	47	feet
355	pounds per month	197	hectares
102	pounds per pound mole	48	inches
101	pounds per second	179	kilometers
6	pounds per ton	180	meters
350	pounds per week	184	micrometers (or microns)
1	pounds per year	175	miles
103	pounds water per pounds dry air	182	millimeters
140	revolutions per minute	183	mils
139	revolutions per second	185	nanometers
128	square feet hours	195	square centimeters
389	square feet per hour	188	square feet
127	square feet per year	187	square inches
385	standard cubic feet per year	193	square kilometers
54	thousand gallons per year	194	square meters
37	tons per day	192	square miles
9	tons per hour	196	square millimeters
351	tons per week	191	square yards
38	tons per year	177	vehicle miles
		174	yards

<u>Code</u>	<u>Time</u>	<u>Code</u>	<u>Energy/Power/ Radiation</u>
29	days	222	horsepower hours
28	hours	53	British thermal units
30	minutes	205	British thermal units per gallon
31	seconds	200	British thermal units per hour
27	years	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
<u>Code</u>	<u>Temperature</u>	<u>Code</u>	<u>Energy/Power/ Radiation</u>
45	degrees centigrade (or Celsius)	317	British thermal units per year
44	degrees Fahrenheit	209	calories
46	degrees Kelvin	240	curies
172	degrees Rankin	230	ergs
<u>Code</u>	<u>Length/Area</u>		
190	10 ⁴ square feet		
198	1000 board feet		
173	1000 feet		
176	1000 miles		

Units (of measurement)

231	ergs per sec	Code	Concentration/Density
232	foot-pounds	269	10 ⁻¹² micro curies per milliliter
233	foot-pounds per hour	270	10 ⁻¹⁵ micro curies per milliliter
234	foot-pounds per minute	271	10 ⁻¹⁸ micro curies per milliliter
226	gram calories	272	10 ⁻²¹ micro curies per milliliter
227	gram calories per hour	266	10 ⁻³ micro curies per milliliter
237	gram centimeters	267	10 ⁻⁶ micro curies per milliliter
218	horsepower (boiler)	268	10 ⁻⁹ micro curies per milliliter
220	horsepower (electric)	346	grains per 100 dry standard
219	horsepower (mechanical)		cubic ft. (corrected to 7% O ₂)
221	horsepower (metric)	13	grains per 100 dscf
223	joules	14	grains per 1000 dscf
225	joules per hour	258	grains per dry standard cubic
224	joules per second		foot (corrected to 12% CO ₂)
208	kilocalories	259	grains per dry standard cubic
228	kilogram calories		foot (corrected to 4% CO ₂)
229	kilogram calories per hour	257	grains per dry standard cubic
235	kilogram meters		foot (corrected to 7% O ₂)
236	kilogram-meters per second	12	grains per dscf
395	kilovolt-amperes	264	grains per gallon
215	kilowatt hour per year	265	grains per milliliter
214	kilowatt hours	249	grams per cubic centimeter
213	kilowatts	247	grams per cubic foot
239	liter atmosphere	248	grams per cubic meter
216	megawatt	251	grams per liter
217	megawatt hour	250	grams per milliliter
36	microcuries	252	kilograms per cubic meter
199	million British thermal units	20	microcuries per milliliter
320	million British thermal units	256	micrograms per cubic foot
	per year	255	micrograms per cubic meter
238	newton-meters	370	micrograms per dry standard
210	pound steam per hour		cubic meter (corrected to 7%
207	therms		O ₂)
390	volt-amperes per 1000 actual	254	micrograms per liter
	cubic feet per minute		
212	watt hours	Code	Concentration/Density
211	watts	253	milligrams per cubic meter
		322	milligrams per dry standard
			cubic meter
Code	Quantity		
376	containers	329	milligrams per dry standard
242	hundred items		cubic meter (corrected to 7%
241	items		O ₂)
244	million items	318	milligrams per liter
243	thousand items	354	nanogram toxicity equivalence
372	tons of RMW		per dry standard cu meter,
			corrected to 7% O ₂

Units (of measurement)

260	nanograms per dry standard cubic meter	289	grams per square centimeter
262	nanograms per dry standard cubic meter (corrected to 12% CO ₂)	282	inches of mercury
263	nanograms per dry standard cubic meter (corrected to 4% CO ₂)	284	inches of water
261	nanograms per dry standard cubic meter (corrected to 7% O ₂)	287	kilograms per square centimeter
330	nanograms per dry standard cubic meter (total mass, corrected to 7% O ₂)	288	kilograms per square meter
343	part per million by volume (dry, units (of measurement) corrected to 10% O ₂)	294	millibar
277	parts per billion by volume	283	millimeters of mercury
280	parts per billion by volume (dry, corrected to 12% CO ₂)	380	millimeters of water
279	parts per billion by volume (dry, corrected to 15% O ₂)	296	newton per square meter (Pascal)
278	parts per billion by volume (dry, corrected to 7% O ₂)	290	pounds per square foot
23	parts per billion by weight	291	pounds per square inch absolute
273	parts per million (by volume)	292	pounds per square inch gauge
371	parts per million by volume (dry, corrected to 3% oxygen)	295	torr
276	parts per million by volume (dry, corrected to 12% CO ₂)		
275	parts per million by volume (dry, corrected to 15% O ₂)	<u>Code</u>	<u>Miscellaneous Parameters</u>
274	parts per million by volume (dry, corrected to 7% O ₂)	304	amperes
22	parts per million by weight	307	amperes per hour
19	pounds per 1000 gallons	378	centistokes (viscosity)
245	pounds per cubic foot	316	gram per centimeter second (viscosity)
246	pounds per cubic inch	298	kilogram per meter hour (viscosity)
5	pounds per gallon	303	kilovolts
<u>Code</u>	<u>Pressure</u>	306	microamperes
388	1000 Newtons/square meter (kilopascals)	312	microamperes per square foot (corona power)
281	atmospheres	313	microamperes per square meter (corona power)
293	bar	305	milliamps
285	centimeters of water	309	milliohms
286	feet of water		
		<u>Code</u>	<u>Miscellaneous Parameters</u>
		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)

<u>Code</u>	<u>Waste Type</u>
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

<u>Code</u>	<u>Waste Feed</u>
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

<u>Code</u>	<u>Operating Schedule</u>
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