

Submit complete form and all attachments to: Missouri Department of Natural Resources Air Pollution Control Program, Enforcement Se P.O. Box 176, Jefferson City, MO 65102	ction							
DATE SUBMITTED		ATTE	NTION					
PROPOSED TEST DATE								
Test date must be agreed to by Air Pollution Contro	l Program.							
1. FACILITY INFORMATION								
NAME								
ADDRESS								
CITY			STATE		ZIP CODE			
CONTACT PERSON		TITLE	I					
TELEPHONE NUMBER WITH AREA CODE			CELL PHONE NUMBER					
2. AIR POLLUTION SOURCE TO BE TESTED								
TYPE OF FACILITY/SOURCE								
PERMIT NUMBER	FIPS/PLANT ID			PORT NUMBER				
ADDRESS	I							
DIRECTIONS TO SOURCE (OR ATTACH MAP)								
INITIAL START-UP DATE								
REASON FOR TEST	mont							
Administrative Order Other (specify	/)							
3. TESTING FIRM INFORMATION								
NAME OF FIRM								
ADDRESS								
СІТҮ			STATE		ZIP CODE			
CONTACT PERSON		CON	TACT PERSO	DN TITLE				
TELEPHONE NUMBER WITH AREA CODE			CELL	PHONE NUMBER WITH AREA CODE				
NUMBER OF EMPLOYEES OF FIRM	NUN	/BER O	F EMPLOYE	ES ENGAGED IN AIR POLLUTION SOURCE	TESTING			
Attach organizational chart with names and titles of	personnel.							

1										
LOCAT	LOCATION AND DESCRIPTION OF LABORATORY FACILITIES									
SUBCO						6				
NUMBE				ESTEDR						
				LOILDD						
4. PE	RFOR	MANCE TES	T INFORMATI	ON		T		T		
	•	Pollutant		N Sar P	o. of mpling oints	Total Time per Test Run	No. of Test Runs		Test Method to be Used	
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
5. AL	JDIT IN	FORMATION	N							
Met	thod	Specific analyte	Expected sa concentrat	mple ion	Sar and (if	nple matrix audit matrix different)	Audit sa concent reques	ample tration sted	Audit provider	

6. AUDIT PROVIDER INFORMATION				
PROVIDER NUMBER ONE				
ADDRESS				
CITY		STATE		ZIP CODE
NAME OF CONTACT PERSON		TITLE		
TELEPHONE NUMBER WITH AREA CODE		FAX NUMBER WITH AREA COL	DE	
PROVIDER NUMBER TWO				
ADDRESS				
CITY		STATE		ZIP CODE
NAME OF CONTACT PERSON		TITLE		
TELEPHONE NUMBER WITH AREA CODE		FAX NUMBER WITH AREA COL	DE	
7. LABORATORY INFORMATION				
NAME				
ADDRESS				
CITY	STAT	E	ZIP CODE	
CONTACT PERSON		TITLE OF CONTACT PERSON		
TELEPHONE NUMBER WITH AREA CODE FOR CONTACT PERSON	F	AX NUMBER WITH AREA CODE F	OR CONTACT PERSON	
Certifying entity one:				
Procedures/methods certified:				
Certifying entity two:				
Procedures/methods certified:				
Certifying entity three:				
Procedures/methods certified:				

7. SA		E LO	CATIC	N &	TRAV	/ERS	e poi	NT IN	FOR	MATI	ON												
DUCT TO BE SAMPLED						Sketch [NOTI show samp	n of St E Cyc n to b ling.]	tack o lonic e wit lf sar	flow flow hin al mpling	t with <b>mus</b> t I <b>lowa</b> g loca	Port be n ble li tion i	Loca neasu mits s dow	tions ured l prior vnstre	& Dis by ins to in am fr	stance strum itiatic om a	es Sho nent a on of n axia	own <b>nd</b> I flow						
DUCT I	DIMENS	ONS										tan, in	stallat	ion of	a flo	w stra	aighte	ening	devic	e will	proba	ably be	e
From	insid	e far v	vall to	outs	ide of	port						neces	sary u	5 mee	et CyC	IONIC		ment	JII.				
Nippl	le leng	gth																					
Dept	h (or c	liame	ter) of	duct																			
Width	h (rect	angul	ar duo	ct)																			
RECTA	NGULA	R STACH	( EQUIV	ALENT	DIAMET	ER																	
$D_{e} = \frac{2 \text{ x Depth x Widt}h}{\text{Depth + Width}} = \frac{2( ) ( )}{( + )} =$																							
DISTAN	NCE FRO	M NEA	REST FL	OW DIS	STURBA	NCE <b>TO</b>	PORTS																
			U	lpstre	eam (A	4)	0	Downs	trean	n (B)													
	Dis	tance																					
	D.																						
	Diam	eters																					
Stack	k Area	=																					
CALCU	ILATED I	BY																					
70.41		<u>- D0</u>				0F T		•															
IRA	VERS	E PO	INTS	REFE	EREN	CE I/	ABLE	S				i											
LO	CATIC	N OF	TRAV	ERSE	POIN	TS IN	RECT	ANGU	LAR	STAC	KS		LOCA	TION	OF TF	RAVE	RSE P	POINT	s in c	IRCU	LAR	STACK	(S
	2	3	4	5	6	7	8	9	10	11	12		4	6	8	10	12	14	16	18	20	22	24
1	25	16.7	12.5	10	8.3	7.1	6.3	5.6	5	4.5	4.2	1	6.7	4.4	3.2	2.6	2.1	1.8	1.6	1.4	1.3	1.1	1.1
2	75	50	37.5 62.5	30	25	21.4	18.8	16.7	15	13.8	12.5	2	25	14.6	10.5	8.2	6.7	5.7	4.9	4.4	3.9	3.5	3.2
3		03.3	87.5	70	58.3	50	43.8	27.0 38.9	20 35	31.8	20.0	4	75 933	29.6 70.4	32.3	14.0 22.6	11.0	9.9 14.6	0.0 12.5	7.5 10.9	0.7 9.7	87	5.5 7 9
5			01.0	90	75	64.3	56.3	50	45	40.9	37.5	5	55.5	85.4	67.7	34.2	25	20.1	16.9	14.6	12.9	11.6	10.5
6				-	91.7	78.6	68.8	61.1	55	50	45.8	6		95.6	80.6	65.8	35.6	26.9	22	18.8	16.5	14.6	13.2
7						92.9	81.3	72.2	65	59.1	54.2	7			89.5	77.4	64.4	36.8	28.3	23.6	20.4	18	16.1
8							93.8	83.2	75	68.2	62.5	8			96.8	85.4	75	63.4	37.5	29.6	25	21.8	19.4
9								94.4	85	77.3	70.8	9				91.8	82.3	73.1	62.5	38.2	30.6	26.2	23
10									95	86.4	79.2	10				97.4	88.2	79.9	71.7	61.8	38.8	31.5	27.2
11										95.5	87.5	11					93.3	85.4	78	70.4	61.2	39.3	32.3
12											95.8	12					97.9	90.1	83.1	76.4	69.4	60.7	39.8

7. SAMPLE LOCATION & TRAVERSE POINT INFORMATION (CONTINUED)									
Point	Percent of Stack I.D.	Stack I.D.	Distance from Outside Wall	Nipple Length	Distance from Outside of Port				
		-							
A SAMPLING FOUIPMENT									
Include manufactur description of any e	rer and model of the sam equipment which may diff	pling equipment to be u er from that required b	used by the tester for the tester for the specified method	ne performance tests, a (s).	along with a				
B. TEST PROCEDURES									
Describe test proce	edures to be used in the c	conduct of the performa	ance tests which may d	lifter from the specified	method(s).				
C. ANALYTICAL PROCEDU	IRES								
Describe analytical	procedures which differ	from the specified meth	nod(s).						
D. DATA SHEETS Include a sample o method(s).	f all field data sheets whi	ch do not provide the d	ata shown on the exan	nple sheets in 40 CFR	60 for the specified				

E. AIR POLLUTION CONTROL EQUIPMENT
Types and manufacturers of all control equipment
· · · · · · · · · · · · · · · · · · ·
Design or guarantee efficiency
Design of guildinee enclosed
Decign gas volume at full load (actual cubic feet per minute, or acfm)
Design gas volume at full load (actual cubic leet per minute, of actin)
Design pressure drop
Maintenance schedule and method of record keeping

9 EMISSION SOURCE BROCESS/OPERATION GENERIC						
Provide a full description of the process/operation being to						
	טבע ועו מוו פווווסטעוט.					
A. OHARAOTERIZATION OF FEAN, EQUI MENT/ ROOESO						
B. MANUFACTURER, MODEL AND SERIAL NUMBERS OF ALL MAJOR COMPONEN	NTS					
C. RATED PROCESS/PRODUCTION CAPACITY						
D. NORMAL PROCESS/PRODUCTION CAPACITY						
E. NATURE AND RELATIVE PERCENT OF RAW MATERIAL INPUT TO PROCESS						
F. PRODUCT(S) – WITH REALTIVE PERCENT IF MORE THAN ONE						
G. TYPE(S) OF FUEL	CONSUMPTION RATE					
H. NORMAL OPERATING SCHEDULE						
Attach a process flow diagram						
I. Allach a process now diagram.						

9-1 ASPHALTIC CONCRET	E PLANTS - SPECIFIC		
Provide a description of the s			
A. TYPE OF PLANT (CONTINUOUS, BAT	SH, PORTABLE, PERMANENT, DRYER-DRUM)		
B. MANOFACTORER, MODEL & SERIAL	NUMBERS OF DIVIER AND OTHER MAJOR COMPONENTS		
C. RATED CAPACITY OF UNIT (TONS/HO			
D. NORMAL PRODUCTION RATE (TONS)	/HOUR)		
	,		
E. PRODUCTION RATE ANTICIPATED FO	OR COMPLIANCE TEST (TONS/HOUR) (NOT TO BE EXCEED	ED, UNDER AUTHORITY GRANT	ED BY PERMIT)
*THIS RATE IS NOT BE EXCEEDED DUR	ING SUBSEQUENT PRODUCTION, UNDER THE AUTHORITY	GRANTED BY THE APCP PERM	ЛІТ
F. TYPE(S) OF FUEL (SHOW PERCENTA	GES WHEN MORE THAN ONE TYPE OF FUEL IS BURNED)	NORMAL FUEL CONSUMPTIO	ON RATE
G. NORMAL OPERATING SCHEDULE			
H. TYPE OF EMISSION CONTROL DEVIC	E		
I. MODEL AND SERIAL NUMBER			
J. Spare bags/nozzles on hand?	K. OPERABLE GAUGES/DEVICES INDICATING PRESSUR	E DROP ACROSS DEVICE?	L. WATER PRESSURE GAUGE ON SCRUBBER?
YES NO	□ YES □ NO		YES NO
780-2184 (01-13)	1		

9-2. INCINERATORS AND CREMATORS	S - SPECIFIC						
Provide a full description of the source op	eration, including as a minim	um the following.					
A. MANUFACTURER AND TYPE OF INCINERATOR							
B. TYPE OF FEED (BATCH, INTERMITTENT, CONTINUOUS	3) AND FREQUENCY	C. DESIGN	I FEED RATE (LBS/HR, LBS/BATCH)				
D. EXPECTED NORMAL FEED RATE	E. 1	YPE OF SCALES					
F. 24 HOUR OPERATIONAL FLOW SCHEME (e.g., ASH REI	MOVAL, PREHEAT, BURN CYCLE, POST	HEAT)					
G. TYPE OF FUEL							
H. VOLUME OF SECONDARY CHAMBER IN CUBIC FEET							
Sketch chamber with inside dimensions:							
I. TYPE OF SECONDARY CHAMBER TEMPERATURE CON	TINUOUS CHART RECORDER						
J. ITPE(S) OF WASTE AND RELATIVE PERCENTAGES							
			AVENAGE BED OUCOFANGT				
700 0404 (04 40)							

9-3. NONMETALLIC MINERAL PROCESSING PLANT [NSPS Subpart 000] - SPECIFIC										
Describe each processing plant and all affected facilities in the associated production line (40 CFR 60.671).										
A. GENERAL CHARACTERIZATION OF PROCESSING PLANT										
B. NONMETALLIC MINERAL(S) BEIN	B. NONMETALLIC MINERAL(S) BEING PROCESSED									
C. MAXIMUM RATED DESIGN CAPACITY OF PLANT'S PRODUCTION LINE MAXIMUM EXPECTED PRODUCTION RATE FOR COMPLIANCE TEST										
E. PRODUCT(S)										
F. AFFECTED FACILITIES (EQUIPM	ENT) TO BE TESTED									
		1			1					
Affected Eacility	Manufacturer	Date	Model	Serial	Sizo	Plant I Number				
Anecled Facility	Manufacturer	Dale	WOUEI	number	5126	r lant i Number				
G. TOTAL NUMBER OF FUGITIVE E	L MISSION POINTS TO BE OBSEF	RVED			1					
H. TOTAL NUMBER OF CONTROL D	DEVICE STACKS AND/OR BUILD	ING VENT EMISSION	POINTS TO BE TE	STED						
Method 5 or	Method 17	aa ta ba aallaat	od)							
I. NUMBER OF BUILDINGS ENCLOS	BING AFFECTED FACILITIES AN	D REQUIRING EPA N		/ATIONS						
J. NORMAL OPERATING SCHEDUL	E (HRS/ DAY, DAYS/WK, WKS/Y	R)								

# K. Attach process flow diagram, including all affected facilities and control devices.

### PROCEDURAL NOTES

- 1. Testing is to be done on nonmetallic mineral processing of a fresh blast (e.g. rain-soaked material can result is negative-biased test results and subsequent violation notices when emissions increase later from dry material).
- Nonmetallic mineral shall be processed at its maximum production rate, +/- 10 percent, otherwise production is limited to the rate at which compliance with regulations was demonstrated. A record of throughput production tonnage shall be kept during testing so that the ton/hour production rate may be determined.
- 3. Fugitive emission opacity read by EPA Method 9 must be observed for a duration of 30 minutes
- 4. Each piece of equipment, or affected facility, shall be identifiable by a unique Serial and/or Plant Identification Number at the time of the *NSPS OOO* compliance test. The displayed numeral(s) shall remain a permanent means of identifying facilities throughout their history of ownership.
- 5. Two copies of the final report of the test results shall be provided to the coordinating regulatory agency within 30 days of the completion of the compliance test.

9-4. IRON ORE PELLETIZING FURNACE - SPECIFIC									
Describe the source operation including, as a minimum, the for	ollowing								
A. TYPE OF FURNACE	B. FUNCTION OF UNIT								
C. LIST EACH TYPE OF PRODUCT PRODUCED									
D. NATURE AND RELATIVE PERCENTAGE OF RAW MATERIAL FOR EACH TYPE OF P	RODUCT								
E. RELATIVE PERCENTAGE OF EACH PRODUCT PRODUCED ANNUALLY F. PRODUCT DURING EMISSION TEST									
G. FURNACE DESIGN MATERIAL INPUT RATE H. FURNACE NORMAL MA	ATERIAL INPUT RATE I. DESIGN PRODUCTION RATE								
J. NORMAL PRODUCTION RATE K. TYPE(S) OF FUELS BURNED	D (PERCENTAGES OF EACH WHEN MORE THAN ONE TYPE IS BURNED)								
L. NORMAL FUEL CONSUMPTION RATE(S) M. HEAT CONTENT OF FUEL	N. ESTIMATED H2S CONCENTRATION OF FUEL								
O. FUEL FIRING RATE									
P. DESCRIPTION OF AIR POLLUTION CONTROL EQUIPMENT									
Q. NORMAL OPERATING SCHEDULE	Q. NORMAL OPERATING SCHEDULE								
R. Attach process flow diagram showing flow of feed, fuel, pro	oduct, stack gases and fly ash.								

## 9-5. GAS TURBINES - SPECIFIC

A description of the source operation including as a minimum the following

A. MANUFACTURER AND MODEL OF TURBINE

B. TYPE OF HEAT RECOVERY SYSTEM ON THE GAS TURBINE EXHAUST (SIMPLE CYCLE, REGENERATIVE CYCLE OR COMBINED CYCLE)

C. HEAT INPUT RATE AT PEAK LOAD, GIGAJOULES/HOUR AT ISO CONDITIONS

D. USAGE OF TURBINE (GAS AND OIL TRANSPORTATION OR PRODUCTION, EMERGENCY STANDBY, STEAM OR ELECTRICAL GENERATION)

E. THERMAL EFFICIENCY AT PEAK LOAD BASED ON LOWER HEATING VALUE OF THE FUEL (HEAT INPUT PER UNIT OF POWER OUTPUT)

F. TYPE OF FUEL(S) USED AND ULTIMATE ANALYSIS OF THE FUEL BURNED OF HYDROGEN, CARBON, SULFUR, NITROGEN, OXYGEN, WATER AND GROSS CALORIFIC VALUE) OR F FACTORS TO BE USED IN TEST

G. EMISSION CONTROL TECHNOLOGY

H. NORMAL OPERATING SCHEDULE

I. Attach diagram of facility showing flow of exhaust gases.

# 9-6. CARBON ADSORBENT REGENERATORS - SPECIFIC

Describe the source operation including as a minimum the following

A. MANUFACTURER(S) OF MAJOR COMPONENTS

B. DESIGN INPUT CAPACITY (TONS/DAY)

C. TYPE(S) OF FUEL USED

D. DESCRIPTION OF HEATING SYSTEM, INCLUDING NUMBER OF LOCATIONS OF BURNERS DURING STARTUP AND NORMAL OPERATION

E. NORMAL CARBON INPUT RATE AND MAXIMUM FUTURE RATE ANTICIPATED (TONS/HOUR)

F. NORMAL OPERATING SCHEDULE

G. NORMAL MAINTENANCE SCHEDULE FOR PLANTS, ALONG WITH A DESCRIPTION OF THE OPERATING DIFFICULTIES ENCOUNTERED THUS FAR

H. Attach process flow diagram, showing flow of carbon, exhaust gases, fly ash and air pollution control device liquid where applicable

9-7. CHROMIUM ELECTROPLATING - SPECIFIC										
Provide a full of	Provide a full description of the process being tested for air emissions including									
TYPE OF PLATING C	romium	ive Chromium								
A. CHARACTERIZE T	THE PLANT/EQUIPMENT/PRO	DCESS								
B. TANKS										
	<b>–</b>									
	Function (plate, anodize,	Ducted to	Diameter	of duc	t to control devic	e E	stimated flow to co	ntrol device		
ID Number	etch, rinse, etc.)	Control Device?	English	ı	Metric		DSCF/min	DSCM/min		
		☐ Yes ☐ No								
		🗌 Yes 🗌 No								
		🗌 Yes 🔲 No								
		🗌 Yes 📋 No								
		🗌 Yes 🗌 No								
		☐ Yes ☐ No								
C. Rectifiers										
ID Number	Manufacture	r Model N	lumber	Se	rial Number		Rated Amperag	е		
					TOTAL					
	Calo	culate maximum cu	imulative pote	ential re	ectifier capacity					
			Tota	l amps	x 8400 x 0.7 =					
D. Control dev	ice(s)	i	i				Movimum dooi	an flow roto		
								gn now rate		
ID Number	Manufacturer	Model Number		S	erial Number		DSCF/min	DSCM/min		
780-2184 (01-13)										

E. Process/control device monitors	
Device (e.g., amp meter, thermocouple, magnhelic)	Location (e.g., tank number, duct number)
F. RATED PROCESS/PRODUCTION CAPACITY	·
G. NORMAL PROCESS/PRODUCTION CAPCITY	
H. PRODUCT(S) PRODUCED AND PROPORTION OF EACH	
1. NORMAL OPERATING SCHEDULE (HOURS/DAY, DAYS/WEEK, WEEKS/YEAR)	
/80-2184 (01-13)	

9-8. FOSSIL FUEL-FI	RED STEAM GENERATORS - SPECIFIC
Describe the source or	peration including as a minimum the following.
A. FUEL TYPE(S) COAL, OIL, OF WATER AND GROSS CALOF	R GAS TYPE OF FUEL(S) USED AND ULTIMATE ANALYSIS OF THE FUEL BURNED ( PERCENT OF HYDROGEN, CARBON, SULFUR, NITROGEN, OXYGEN, RIFIC VALUE) OR F FACTORS TO BE USED IN TEST
LIST PERCENTAGES OF EACH	FUEL FIRED IN COMBINATION. FOR COAL AND OIL, INDICATE CLASSIFICATION, AND FOR GAS, INDICATE TYPE
B. MANUFACTURER(S) OF BOIL	LER AND OTHER MAJOR COMPONENTS
C. FIRING TYPE	
For coal	
	Overfeed (moving grate, spreader or vibrating grate)
	Suspension (pulverized or cyclone)
For oil. gas or	
pulverized coal	Tangential
suspension firing	
	F RUPNERS
D. TYPE OF BOILER	
E. DESCRIPTION OF ASH HAN	DLING AND DISPOSAL SYSTEM
F. FUEL COMPOSITION (BY AN	(ALYSIS)
G. DESIGN FUEL FIRING RATE	AND HEAT INPUT
H. DESIGN STEAM PRODUCTION	ON RATE, PRESSURE AND TEMPERATURE
I. USE OF STEAM PRODUCED	
J. DESIGN ELECTRICITY GENE	RATION RATE, IF APPLICABLE
K. FLY ASH RE-CIRCULATION	SYSTEM DESCRIPTION, IF APPLICABLE
L. FREQUENCY AND DURATIO	N OF SOOT BLOWING
M. NORMAL MAINTENANCE SC	SHEDDEET OKTAGIELT, ALONG WITTA DESCRIFTION OF THE OFERATING DIFFICUENES ENCOUNTERED THOSTAR
N. NORMAL OPERATING SCHE	DULE
O. Attach diagram of f	acility.
780-2184 (01-13)	

9-9. SEWAGE SLUDGE INCINERATORS - SPECIFIC	
Describe the source operation including as a minimum the following.	
A. TYPE OF INCINERATOR Multiple hearth furnace Rotary kiln furnace Fluidized-bed unit Traveling-gate furnace Atomized spray unit Wet-oxidation unit	
B. MANUFACTURER(S) OF MAJOR COMPONENTS	
C. DESIGN INPUT CAPACITY, TONS/DAY (SPECIFY SLUDGE MOISTURE CONTENT)	
D. NUMBER OF HEARTHS (IF MULTIPLE-HEARTH DESIGN)	
E. DESCRIPTION OF DE-WATERING SYSTEM	
F. AVERAGE SLUDGE MOISTURE CONTENT OUT OF DE-WATERER PERCENT	
G. TYPE(S) OF AUXILIARY FUEL USED (WHERE APPLICABLE)	
H. DESCRIBE AUXILIARY HEAT SYSTEM, INCLUDING NUMBER AND LOCATIONS OF BURNERS, NORMAL FUEL RATES AND OPERATING PROCEDURES FOR BURNERS DURING STARTUP AND NORMAL OPERATION	
I. DESCRIBE OF INCINERATOR ASH HANDLING AND DISPOSAL SYSTEM	
J. DESCRIBE SLUDGE FLOW MEASURING DEVICE (FOR CHARGING RATE DETERMINATION)	
K. NORMAL SLUDGE INPUT RATE AND MAXIMUM FUTURE RATE ANTICIPATED FOR UNIT [TONS/HOUR (SPECIFY SLUDGE MOISTURE CONTENT)]	
L. NORMAL OPERATING SCHEDULE	
M. NORMAL MAINTENANCE SCHEDULE FOR PLANT, ALONG WITH A DESCRIPTION OF THE OPERATING DIFFICULTIES ENCOUNTERED THUS FAR	
N. Attach process flow diagram, showing flow of sludge, incinerator ash, stack gases, fly ash, and air pollution control device liquid, where applicable	

9-10. PORTLAND CEMENT PLANTS - SPECIFIC	
Describe the source operation including as a minimum the following	
A. TYPE OF PROCESS (WET OR DRY) B. KILN DESIGN INPUT CAPACITY [TONS/HOUR (DRY BASIS)]	
C. NORMAL KILN INPUT RATE [TONS/HOUR (DRY BASIS)] D. DESIGN PRODUCTION RATE OF UNIT (TONS/HOUR)	
E. NORMAL PRODUCTION RATE OF UNIT (TONS/HOUR)	
F. MANUFACTURER(S) AND MODEL OF KILN AND OTHER MAJOR COMPONENTS	
G. DESCRIPTION OF PREHEATER SYSTEM	
H. DESCRIPTION OF AIR POLLUTION CONTROL EQUIPMENT DUST RECYCLING SYSTEM, IF APPLICABLE	
I. TYPES OF CEMENT PRODUCED AND PERCENTAGES OF TOTAL PRODUCTION OF EACH TYPE	
J. TYPE(S) OF FUELS BURNED (INDICATE PERCENTAGES OF EACH WHEN MORE THAN ONE TYPE IS BURNED)	
K. NORMAL FUEL CONSUMPTION RATE(S)	
L. LOCATION OF QUARRY	
M. SOURCE(S) OF RAW MATERIALS	
N. DESCRIBE EACH AIR POLLUTION EMISSION POINT, INCLUDING THE KILN, CLINKER COOLER, RAW MILL SYSTEM, FINISH MILL SYSTEM, RAW MILL DRYER, RAW MATERIAL STORAGE, CLINKER STORAGE, FINISHED PRODUCT STORAGE, CONVEYOR TRANSFER POINTS, BAGGING AND BULK LOADING AND UNLOADING SYSTEM	
O. NORMAL OPERATING SCHEDULE	
P. NORMAL MAINTENANCE SCHEDULE FOR PLANT, ALONG WITH A DESCRIPTION OF THE OPERATING DIFFICULTIES ENCOUNTERED THUS FAR	
Q. PROCESS FLOW DIAGRAM, SHOWING FLOW OF FEED, FUEL, PRODUCT, STACK GASES AND FLY ASH (PLEASE ATTACH)	

9-11. ABRASIVE BLAST CLEANING FACILITIES - SPECIFIC
Describe the source operation including as a minimum the following.
A. DESCRIPTION OF ABRASIVE BLAST CLEANING FACILITY [INCLUDE OBJECT(S) CLEANED AND PURPOSE OF CLEANING]
B. MANUFACTURER(S) AND MODEL(S) OF MAJOR COMPONENTS
C. RATED CAPACITY OF FACILITY (UNITS CLEANED PER DAY)
D. NORMAL OUTPUT (UNITS CLEANED PER DAY)
E. TYPE(S) OF ABRASIVE MATERIAL(S) USED
F. METHOD OF PROPELLING THE ABRASIVE
Hydraulic blasting Centrifugal force
Compressed air blasting device - indicate whether suction blast or direct pressure:
G. NUMBER OF BLASTING DEVICES EMPLOYED FOR FACILITY
H. DESCRIPTION OF EQUIPMENT USED TO CONFINE BLAST (BLASTING ROOM, BLASTING CABINET, HOUSING OF BLAST MACHINE OR PERFORATED DRUM OR BARREL IN CABINET)
I. METHOD(S) OF HANDLING OBJECTS CLEANED
J. DESCRIPTION OF HOODING AND VENTILATION SYSTEMS
K. NORMAL OPERATING SCHEDULE
L. NORMAL MAINTENANCE SCHEDULE FOR FACILITY, ALONG WITH A DESCRIPTION OF THE OPERATING DIFFICULTIES ENCOUNTERED THUS FAR
M. Attach flow diagram showing flow of objects cleaned, abrasive materials, waste materials, recycled material(s) and exhaust
L dases

gases. 780-2184 (01-13)

9-12. SULFURIC ACID PLANTS (CONTACT PR	ROCESS) - SPECIFIC		
Describe the source operation including as a minimum the following.			
A. TYPE OF CONTACT PLANT	A. TYPE OF CONTACT PLANT		
Hot Gas (burning elemental sulfur)			
Wet Gas (burning alkylation acid, hydroger	n sulfide, organic sulfides and mercaptans or acid sludge)		
B. MANUFACTURE(S) OF MAJOR COMPONENTS OF PLANT			
C. DESIGN CAPACITY (TONS/DAY)	D. TYPE OF FEEDSTOCK		
E. DESCRIPTION OF ABSORPTION PROCESS	·		
F. NUMBER OF CONVERSION STAGES			
G. DESCRIPTION OF PRODUCT(S)			
H. NORMAL MAINTENANCE SCHEDULE FOR FACILITY, ALONG WITH	H A DESCRIPTION OF THE OPERATING DIFFICULTIES ENCOUNTERED THUS FAR		
I. NORMAL OPERATING SCHEDULE			
J. Attach diagram or sketch of facility showing co	nversion of feedstock to the product(s) and the flow of exhaust gases.		
780-2184 (01-13)			

9-13. CLAUS SULFUR RECOVERY PLANTS - SPECI	FIC	
Describe the source operation including as a minimum the following.		
A. MANUFACTURER(S) OF MAJOR COMPONENTS OF PLANT		
B. DESIGN CAPACITY OF PLANT (LONG TONS/DAY)	C. NORMAL OPERATING LEVEL OF PLANT (LONG TONS/DAY)	
D. NUMBER OF CATALYTIC CONVERSION STAGES		
E. SOURCE(S) OF H2S GAS FED TO SULFUR RECOVERY PLANT		
F. NORMAL INLET FEED STREAM COMPOSITION		
G. SULFUR RECOVERY EFFICIENCY IN CLAUS PLANT (PERCENT)		
H. OPERATING TEMPERATURE(S) IN REACTOR(S)		
I. NORMAL H2S/SO2 CONCENTRATION RATIO IN CONVERTER(S)		
J. TYPE(S) OF CATALYST IN CONVERTER(S)		
K. DETAILED DESCRIPTION OF TAIL GAS PROCESSING METHOD(S) FOR EMI	ISSION CONTROL	
L. MAXIMUM VENDOR-GUARANTEED EMISSIONS OF TOTAL SULFUR, EXPRESSED IN SO2 EQUIVALENT (PPMV)		
M. OVERALL SULFUR RECOVERY EFFICIENCY, INCLUDING CLAUS SULFUR F	PLANT (PERCENT)	
N. NORMAL MAINTENANCE SCHEDULE FOR FACILITY, ALONG WITH A DESC	RIPTION OF THE OPERATING DIFFICULTIES ENCOUNTERED THUS FAR	
O. NORMAL OPERATING SCHEDULE		
F. Attach diagram of sketch of facility showing now of feed gas, sulfur product, and gas stream.		

9-14) FLUID CATALYTIC CRACKING UNIT CATALYST REGENERATORS - SPECIFIC
Describe the source operation including as a minimum the following.
A. MANUFACTURER(S) OF MAJOR COMPONENTS OF PLANT
B. TYPE(S) OF CATALYST REGENERATED
C. DESCRIPTION OF AIR HEATING AND TRANSFER SYSTEM
D. CATALYST DESIGN CIRCULATION RATE (TONS/HOUR)
E. REGENERATOR DESIGN AIR FLOW RATE (SCFM)
F. DESIGN COKE BURN-OFF (LB/HR)
G. RENGENERATOR DESIGN TEMPERATURE (OF) AND PRESSURE (PSIG)
H. DESCRIPTION OF CONTROL ROOM INSTRUMENTATION FOR DETERMINATION OF AIR RATE TO REGENERATOR
I. DESCRIPTION OF INCINERATOR OR WASTE HEAT BOILER
J. TYPE(S) OF AUXILIARY OR SUPPLEMENTAL FUEL BURNED IN INCINERATOR OR WASTE HEAT BOILER. IF FIRED IN COMBINATION, LIST PERCENTAGES OF EACH FUEL
K. FUEL COMPOSITION(S) (BY ANALYSIS)
L. DESIGN FUEL FIRING RATE(S) AND HEAT INPUT(S)
M. NORMAL MAINTENANCE SCHEDULE FOR FACILITY, ALONG WITH A DESCRIPTION OF THE OPERATING DIFFICULTIES ENCOUNTERED THUS FAR
N. NORMAL OPERATING SCHEDULE
O. Attach flow diagram of facility, showing flow of catalyst, air, fuel, exhaust gases and fly ash.

9-15. FUEL GAS COMBUSTION DEVICES (PETROLEUM REFINERIES) - SPECIFIC
A description of the source operation including as a minimum the following.
A. TYPE OF COMBUSTION DEVICE
Boiler process heater, flare, or other (specify):
B. FURTHER DESCRIPTION OF UNIT (TYPE OF BOILER, HEATER, FLARE, ETC.)
C. FUNCTION OF UNIT
D. DESIGN CAPACITY (106 BTU/HR)
E. DESIGN FUEL GAS FIRING RATE (SCF/HR)
F. SOURCE(S) OF FUEL GAS
G. AVERAGE HEAT CONTENT OF FUEL GAS (BTU/CF)
H. ESTIMATED H2S CONCENTRATION OF FUEL GAS (GR/DSCF)
I. DESCRIPTION OF FUEL GAS TREATMENT, IF APPLICABLE
J. NORMAL MAINTENANCE SCHEDULE FOR FACILITY, ALONG WITH A DESCRIPTION OF THE OPERATING DIFFICULTIES ENCOUNTERED THUS FAR
K. NORMAL OPERATING SCHEDULE
L. Attach diagram or sketch of facility showing flow of fuel gas and exhaust gases.

9-16. THERMAL OXIDIZERS FOR VOLATILE ORGANIC COMPOUND CONTROL - SPECIFIC
Describe the source operation, including as a minimum the following.
A. MANUFACTURER, MODEL, SERIAL NUMBER AND TYPE OF OXIDIZER (INDICATE DIRECT OR CATALYTIC)
B. ANTICIPATED INLET AND OUTLET VOC CONCENTRATIONS (PPM)
D. ANTICIPATED CAPTURE AND DESTRUCTION EFFICIENCIES
Capture Destruction
E. VOC SPECIES BEING CONTROLLED (INDICATE CHLORINATED COMPOUNDS AND LISTED HAP'S)
F. COMBUSTION CHAMBER TEMPERATURE SET-POINT
H. FUME RESIDENCE TIME
G. TYPE OF FUEL
H. REGENERATION CYCLE TIME (IF APPLICABLE)
I. TYPE OF COMBUSTION CHAMBER (OR CATALYST BED) CONTINUOUS TEMPERATURE RECORDER
J. IS SOURCE OPERATION LOCATED WITHIN A PERMANENT TOTAL ENCLOSURE OR BUILDING ENCLOSURE?
If Yes, Method 204 date:
Method 204 testing firm:
K. PARAMETER MEASURED AND LOCATION OF WARNING, ALARM OR CONCENTRATION SENSING DEVICES
L. MAAIMUM DESIGN PRODUCTION-RATE OF SOURCE OPERATION
M ADDITIONAL COMMENTS

9-17. CONTINUOUS MONITORING SYSTEM - SPECIFIC
Describe continuous monitoring system(s) including the following.
A. MANUFACTURER OF EACH MONITOR
B. MODEL NUMBER AND SERIAL NUMBER OF EACH MONITOR
C. DESCRIPTION OF INTERFACE SYSTEM (FOR EXTRACTIVE MONITORS)
D. DESCRIPTION OF DATA ACQUISITION AND HANDLING SYSTEM
E. NUMBER OF COPIES OF OPERATOR'S MANUAL SUPPLIED WITH EACH MONITOR
F. NAME OF TESTING FIRM THAT WILL PERFORM THE REFERENCE METHOD TESTS FOR SULFUR DIOXIDE AND/OR NITROGEN OXIDES DURING THE CONTINUOUS MONITORING SYSTEM PERFORMANCE EVALUATIONS
G. NAME OF ORGANIZATION THAT WILL PERFORM THE CONTINUOUS MONITORING SYSTEM PERFORMANCE EVALUATIONS (SOURCE OPERATOR, MONITORING SYSTEM
H. ANTICIPATED STARTING DATE OF THE CONDITIONING PERIOD FOR THE MONITORING SYSTEMS
I. DRAWING OF THE MONITORING SYSTEM LOCATION(S) SHOWING STACK OR DUCT DIMENSIONS, AIR POLLUTION CONTROL EQUIPMENT, FANS, AND LOCATION(S) OF
DOCUMENT).
780-2184 (01-13)

# SOURCE TESTING REPORT FORMAT

#### COVER

- Plant name and location
- Source sampled
- Testing company or agency, name, and address

#### CERTIFICATION

- Certification by team leader
- Certification by reviewer (e.g. Professional Engineer)

#### INTRODUCTION

- Test purpose
- Test location, type of process
- Test dates
- Pollutants tested
- Observers' names (industry and agency)
- Any other important background information

## SUMMARY OF RESULTS

- Emission results
- Process data, as related to determination of compliance
- Control device parameter data summary
- Allowable emissions
- Description of collected samples
- Visible emissions summary
- Discussion of errors, both real and apparent

#### SOURCE OPERATION

- Description of process and control device
- Process and control equipment flow diagram
- Process data and results, with example calculations for one test run
- Representatives of raw materials and products
- Any specially required operation demonstrated

# SAMPLING and ANALYSIS PROCEDURES

- Sampling port location and dimensioned cross section
- Sampling port description, including labeling system
- Sampling train description
- Brief description of sampling procedures, with discussion of deviations from standard methods
- Brief description of analytical procedures, with discussion of deviations from standard methods

#### APPENDIX

- Complete results with example calculations for one test run
- Raw field data (original, not computer printouts)
- Control device parameter data
- Process production data
- Laboratory report, with chain of custody
- Test log
- Calibration procedures and results
- Project participants and titles
- Related correspondence