

**APPENDIX F**  
**EXAMPLES OF RBLC STANDARD REPORTS**

Process Index Report  
Process Type Summary Report  
Comprehensive Report  
Free Form Report (Customizable & Standard)  
Export/Import Report

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Report Date: 12/06/2004 INDEX OF CONTROL TECHNOLOGIES DETERMINATIONS

**NOTE: Draft determinations are marked with a " \* " beside the RBLC ID.**

Company Name	RBLC ID	Permit Date (Est/Act)	Process Type	Process De			
CAROLINA POWER & LIG	NC-0059	04/11/1996 ACT	15.190	COMBUSTION TURBINE FUEL OIL			
			15.110	COMBUSTION TURBINE NAT GAS			
FREIGHTLINER CORPORA	NC-0060	07/07/1995 ACT	41.002	ONE WHEEL DRY-IP BOOTH			
			41.002	PRETREATMENT LINE DRY-FILTER CAUTION BOOTH			
			41.002	WATERWASH TYPE BOOTH			
			41.002	DRY-FILTER UNDER BOOTH			
			41.002	CAB/SLEEPER TOP WATERWASH PAINT DRY-FILTER TYPE			
			41.002	PAINT SPRAY BOOTH			
			41.002	PAINT MIX ROOM OFFLINE TOUCH-UP			
			41.002	PAINT SPRAY BOOTH TWO CHASSIS LINE SPRAY BOOTHS			
			41.002	TWO CAB TOP-COAT ONE DRY-FILTER BOOTH			
			41.002	ONE WAXING BOOTH			
			FREIGHTLINER CORPORA	NC-0061	11/13/1996 ACT	41.002	ONE SEAMSEAL/UNDER DRYING OVEN
						41.002	DRY-FILTER WAX
						41.002	PRIME LINE FLASH TOP COAT DRY-FILTER WASH PAINT SPRAY
						41.002	TOPCOAT CURE OVEN ELECTRODEPOSITION BAKING OVEN
						41.002	SPOT PRIME AND SPRAY BOOTH
						41.002	SPOT PRIME AND CURE OVEN
						41.002	13 DRY FILTER LINE BOOTH
41.002	PLASTICS BOOTH WIPING						
41.002	PLASTICS FLASH-PAINT						
41.002	PLASTICS LINE (						

41.002	MID-COAT PRIME
	BOOTH
41.002	MID-COAT PRIME

Report Date: 12/06/2004

**INDEX OF CONTROL TECHNOLOGIES DETERMINATION  
BY PROCESS**

**NOTE: Draft determinations are marked with a " \* " beside the RBLC ID.**

Facility Name	RBLC ID	Permit Date (Est/Act)	Agency Type	Name of Contact	Telephone
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Process Type: 15.110 Natural Gas

CAROLINA POWER & LIGHT	NC-0059	04/11/1996 ACT	NORTH CAROLINA DIV O		
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Process Type: 15.190 Liquid Fuel

CAROLINA POWER & LIGHT	NC-0059	04/11/1996 ACT	NORTH CAROLINA DIV O		
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Process Type: 41.002 Automobiles and Trucks Surface Coating (OEM)

FREIGHTLINER CORPORATION - CLE	NC-0060	07/07/1995 ACT	NORTH CAROLINA DIV O		
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Process Type: 41.002 Automobiles and Trucks Surface Coating (OEM)

FREIGHTLINER CORPORATION - MT.	NC-0061	11/13/1996 ACT	NORTH CAROLINA DIV O		
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COMPREHENSIVE REPORT  
Report Date: 12/06/2004

### Facility Information

<b>RBLC ID:</b>	NC-0059 (final)	<b>Date Determination</b>	10/08/2002
<b>Corporate/Company Name:</b>	CAROLINA POWER & LIGHT	<b>Last Updated:</b>	
<b>Facility Name:</b>	CAROLINA POWER & LIGHT	<b>Permit Number:</b>	1812
<b>Facility Contact:</b>		<b>Permit Date:</b>	04/11/1996 (actual)
<b>Facility Description:</b>		<b>FRS Number:</b>	110000496552
<b>Permit Type:</b>	A: New/Greenfield Facility	<b>SIC Code:</b>	4911
		<b>NAICS:</b>	221111, 221112, 221113, 221119, 221121, 221122
<b>EPA Region:</b>	4		
<b>Facility County:</b>	WAYNE		
<b>Facility State:</b>	NC		
<b>Facility ZIP Code:</b>	27530-9371		
<b>Permit Issued By:</b>	NORTH CAROLINA DIV OF ENV MGMT (Agency Name) Mr. Fred Langenbach (Agency Contact) (919)715-6242		
<b>Other Agency Contact Info:</b>	EDWARD MARTIN NC (919) 715-6283		
<b>Other Permitting Information:</b>	H.F. LEE STEAM ELECTRIC PLANT		

### Process/Pollutant Information

**PROCESS NAME:** COMBUSTION TURBINE, 4 EACH, FUEL OIL

**Process Type:** 15.190 (Liquid Fuel)

**Primary Fuel:** NO.2 FUEL OIL/NAT GS

**Throughput:** 1907.60 MMBTU/H

**Process Notes:** (4) GE PG 7231 FA SIMPLE CYCLE. A SEPARATELY LISTED PROCESS SHOWS EMISSION LIMITS WHEN FIRING NATURAL GAS.

### POLLUTANT

**NAME:** NOX, OIL      **CAS Number:** 10102  
**Emission Limit 1:**            512.3000 LB/H  
**Emission Limit 2:**            0.2690 LB/MMBTU  
**Standard Emission:**        58.0000 PPM @ 15% O2  
**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown  
**Basis:**                        BACT-PSD  
**Other Applicable Requirements:**  
**Control Method:**            (P) WATER INJECTION; FUEL SPEC: 0.04% N FUEL OIL  
**Est. % Efficiency:**            0  
**Compliance Verified:**        Y  
**Pollutant/Compliance Notes:**

**POLLUTANT**                    **CAS Number:** 7446-09-5  
**NAME:** SO2, OIL  
**Emission Limit 1:**            308.5000 LB/H  
**Emission Limit 2:**            162.0000 LB/MMBTU  
**Standard Emission:**        0  
**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown  
**Basis:**                        BACT-PSD  
**Other Applicable Requirements:**  
**Control Method:**            (P) FUEL SPEC: 0.15% S FUEL OIL  
**Est. % Efficiency:**            0  
**Compliance Verified:**        Y  
**Pollutant/Compliance Notes:**

**POLLUTANT**                    **CAS Number:** 630-08-0  
**NAME:** CO, OIL  
**Emission Limit 1:**            81.0000 LB/H  
**Emission Limit 2:**            0.0420 LB/MMBTU  
**Standard Emission:**        NOT AVAILABLE  
**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown  
**Basis:**                        BACT-PSD

**Other Applicable Requirements:****Control Method:** (P) COMBUSTION CONTROL**Est. % Efficiency:** 0**Compliance Verified:** Y**Pollutant/Compliance Notes:****POLLUTANT**  
**NAME:** VOC, OIL **CAS Number:** VOC**Emission Limit 1:** 7.0000 LB/H**Emission Limit 2:** 0.0037 LB/MMBTU**Standard Emission:** 0**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown**Basis:** BACT-PSD**Other Applicable Requirements:****Control Method:** (P) COMBUSTION CONTROL**Est. % Efficiency:** 0**Compliance Verified:** Y**Pollutant/Compliance Notes:****POLLUTANT**  
**NAME:** H2SO4 **CAS Number:** 7664-93-9**Emission Limit 1:** 17.9500 LB/H**Emission Limit 2:** 0.0094 LB/MMBTU**Standard Emission:** 0**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown**Basis:** BACT-PSD**Other Applicable Requirements:****Control Method:** (P) COMBUSTION CONTROL**Est. % Efficiency:** 0**Compliance Verified:** Y**Pollutant/Compliance Notes:**



**POLLUTANT**                      **CAS Number:** PM  
**NAME:** PM  
**Emission Limit 1:**                      17.0000 LB/H  
**Emission Limit 2:**                      0.0089 LB/MMBTU  
**Standard Emission:**  
**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown  
**Basis:**                                      BACT-PSD  
**Other Applicable Requirements:**  
**Control Method:**                      (P) COMBUSTION CONTROL  
**Est. % Efficiency:**  
**Compliance Verified:**                      Y  
**Pollutant/Compliance Notes:**

**POLLUTANT**                      **CAS Number:** PM  
**NAME:** PM10  
**Emission Limit 1:**                      17.0000 LB/H  
**Emission Limit 2:**                      0.0089 LB/MMBTU  
**Standard Emission:**  
**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown  
**Basis:**                                      BACT-PSD  
**Other Applicable Requirements:**  
**Control Method:**                      (P) COMBUSTION CONTROL  
**Est. % Efficiency:**  
**Compliance Verified:**                      Y  
**Pollutant/Compliance Notes:**

**POLLUTANT**                      **CAS Number:** PM  
**NAME:** PM10  
**Emission Limit 1:**                      9.0000 LB/H  
**Emission Limit 2:**                      0.0048 LB/MMBTU  
**Standard Emission:**

**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown

**Basis:** BACT-PSD

**Other Applicable Requirements:**

**Control Method:** (P) COMBUSTION CONTROL

**Est. % Efficiency:**

**Compliance Verified:** Y

**Pollutant/Compliance Notes:**

#### Process/Pollutant Information

**PROCESS NAME:** COMBUSTION TURBINE, 4 EACH, NAT GAS

**Process Type:** 15.110 (Natural Gas)

**Primary Fuel:** NATURAL GAS

**Throughput:** 1907.60 MMBTU/H

**Process Notes:** (4) GE PG 7231 FA SIMPLE CYCLE. A SEPARATELY LISTED PROCESS SHOWS EMISSION LIMITS WHEN FIRING NATURAL GAS.

**POLLUTANT NAME:** NOX  
**CAS Number:** 10102

**Emission Limit 1:** 158.0000 LB/H

**Emission Limit 2:** 0.0840 LB/MMBTU

**Standard Emission:** 25.0000 PPM @ 15% O2

**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown

**Basis:** BACT-PSD

**Other Applicable Requirements:**

**Control Method:** (P) WATER INJECTION

**Est. % Efficiency:**

**Compliance Verified:** Y

**Pollutant/Compliance Notes:**

**POLLUTANT NAME:** SO2  
**CAS Number:** 7446-09-5

**Emission Limit 1:** 1.0000 LB/H  
**Emission Limit 2:** 5.3000 E-04 LB/MMBTU  
**Standard Emission:**

**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown

**Basis:** BACT-PSD

**Other Applicable Requirements:**

**Control Method:** (P) COMBUSTION CONTROL

**Est. % Efficiency:**

**Compliance Verified:** Y

**Pollutant/Compliance Notes:**

**POLLUTANT**                    **CAS Number:** 630-08-0  
**NAME:** CO

**Emission Limit 1:** 80.0000 LB/H  
**Emission Limit 2:** 0.0420 LB/MMBTU  
**Standard Emission:**

**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown

**Basis:** BACT-PSD

**Other Applicable Requirements:**

**Control Method:** (P) COMBUSTION CONTROL

**Est. % Efficiency:**

**Compliance Verified:** Y

**Pollutant/Compliance Notes:**

**POLLUTANT**                    **CAS Number:** VOC  
**NAME:** VOC

**Emission Limit 1:** 2.8000 LB/H  
**Emission Limit 2:** 0.0015 LB/MMBTU  
**Standard Emission:**

**Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown

**Basis:** BACT-PSD

**Other Applicable**

**Requirements:****Control Method:** (P) COMBUSTION CONTROL**Est. % Efficiency:****Compliance Verified:** Y**Pollutant/Compliance Notes:****POLLUTANT****CAS Number:** PM**NAME:** PM**Emission Limit 1:** 9.0000 LB/H**Emission Limit 2:** 0.0048 LB/MMBTU**Standard Emission:****Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown**Basis:** BACT-PSD**Other Applicable  
Requirements:****Control Method:** (P) COMBUSTION CONTROL**Est. % Efficiency:****Compliance Verified:** Y**Pollutant/Compliance Notes:****POLLUTANT****CAS Number:** 7664-93-9**NAME:** H2SO4**Emission Limit 1:** 17.9500 LB/H**Emission Limit 2:** 0.0094 LB/MMBTU**Standard Emission:****Did factors, other than air pollution technology considerations influence the BACT decisions:** Unknown**Basis:** BACT-PSD**Other Applicable  
Requirements:****Control Method:** (P) COMBUSTION CONTROL**Est. % Efficiency:****Compliance Verified:** Y**Pollutant/Compliance Notes:**



**NOTE: Draft determinations are marked with a " \* " beside the RBLC ID.**

Report Date: 12/06/2004

Control Technology Determinations (Freeform)

**FACILITY INFORMATION : CAROLINA POWER & LIGHT**

RBLC Id: NC-0059  
 \*Corporate/Company Name: CAROLINA POWER & LIGHT  
 \*Facility Name: CAROLINA POWER & LIGHT  
 Facility County: WAYNE  
 Facility Contact Name:  
 Facility Contact Phone:  
 Facility Contact Email:  
 EPA Region: 4  
 Agency Code: NC001  
 Agency Contact: Mr. Fred Langenbach  
 Agency Phone: (919)715-6242  
 Agency Email:  
 Other Agency Contact Info: EDWARD MARTIN  
 NC  
 (919) 715-6283  
 \*Permit number: 1812  
 \*SIC: 4911  
 NAICS: 221111, 221112, 221113, 221119, 221121, 221122  
 FRS #: 110000496552  
 Application Accepted Date: 12/19/1994 ACT  
 Permit Date: 04/11/1996 ACT  
 Date determination entered into RBLC: 08/19/1996  
 Date determination last updated: 10/08/2002  
 Permit Type: A: NEW/GREENFIELD FACILITY  
 Facility Description: H.F. LEE STEAM ELECTRIC PLANT  
 Other Permitting Information:

**PROCESS INFORMATION : CAROLINA POWER & LIGHT**

\*Process: COMBUSTION TURBINE, 4 EACH, FUEL OIL  
 Primary Fuel: NO.2 FUEL OIL/NAT GS  
 Throughput: 1907.60  
 Throughput Unit: MMBTU/H  
 Process Notes: (4) GE PG 7231 FA SIMPLE CYCLE. A SEPARATELY LISTED  
 PROCESS SHOWS EMISSION LIMITS WHEN FIRING NATURAL GAS.

**POLLUTANT INFORMATION : CAROLINA POWER & LIGHT - COMBUSTION TURBINE, 4 EACH, FUEL OIL**

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\*Pollutant Name NOX, OIL  
 \*CAS Number: 10102  
 \*Control Method Code: P  
 \*Control Method WATER INJECTION; FUEL SPEC: 0.04% N FUEL OIL  
 Description:  
 Emission Limit 1: 512.3000  
 Emission Limit 1 Unit: LB/H  
 Emission Limit 1 Avg.  
 Time/Condition:  
 Emission Limit 2: 0.2690  
 Emission Limit 2 Unit: LB/MMBTU  
 Emission Limit 2 Avg.  
 Time/Condition:  
 Standard Emission Limit: 58.0000  
 Standard Emission Limit PPM @ 15% O2  
 Unit:  
 Standard Limit Avg.  
 Time/Condition:  
 \*Basis: BACT-PSD  
 \*Estimated Efficiency 0  
 (%):  
 Cost Effectiveness:  
 Cost Verified by Agency Yes  
 (Y/N):  
 Dollar Year Used In Cost 1994  
 Estimates:  
 Pollutant/Compliance  
 Notes:

\*Pollutant Name SO2, OIL  
 \*CAS Number: 7446-09-5  
 \*Control Method Code: P  
 \*Control Method FUEL SPEC: 0.15% S FUEL OIL  
 Description:  
 Emission Limit 1: 308.5000  
 Emission Limit 1 Unit: LB/H  
 Emission Limit 1 Avg.  
 Time/Condition:  
 Emission Limit 2: 162.0000  
 Emission Limit 2 Unit: LB/MMBTU  
 Emission Limit 2 Avg.  
 Time/Condition:  
 Standard Emission Limit: 0  
 Standard Emission Limit  
 Unit:  
 Standard Limit Avg.  
 Time/Condition:  
 \*Basis: BACT-PSD  
 \*Estimated Efficiency 0  
 (%):

## Cost Effectiveness:

Cost Verified by Agency Yes

(Y/N):

Dollar Year Used In Cost 1994

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name CO, OIL  
 \*CAS Number: 630-08-0  
 \*Control Method Code: P  
 \*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 81.0000

Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0420

Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit:

Standard Emission Limit

Unit:

Standard Limit Avg. NOT AVAILABLE

Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency 0

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name VOC, OIL  
 \*CAS Number: VOC  
 \*Control Method Code: P  
 \*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 7.0000

Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0037

Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: 0



## Standard Emission Limit

Unit:

Standard Limit Avg.

Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency 0

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name H2SO4

\*CAS Number: 7664-93-9

\*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 17.9500

Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0094

Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: 0

Standard Emission Limit

Unit:

Standard Limit Avg.

Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency 0

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name PM

\*CAS Number: PM

\*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 17.0000

Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.  
Time/Condition:  
Emission Limit 2: 0.0089  
Emission Limit 2 Unit: LB/MMBTU  
Emission Limit 2 Avg.  
Time/Condition:  
Standard Emission Limit:  
Standard Emission Limit  
Unit:  
Standard Limit Avg.  
Time/Condition:  
\*Basis: BACT-PSD  
\*Estimated Efficiency  
(%):  
Cost Effectiveness:  
Cost Verified by Agency No  
(Y/N):  
Dollar Year Used In Cost  
Estimates:  
Pollutant/Compliance  
Notes:

\*Pollutant Name PM10  
\*CAS Number: PM  
\*Control Method Code: P  
\*Control Method COMBUSTION CONTROL  
Description:  
Emission Limit 1: 17.0000  
Emission Limit 1 Unit: LB/H  
Emission Limit 1 Avg.  
Time/Condition:  
Emission Limit 2: 0.0089  
Emission Limit 2 Unit: LB/MMBTU  
Emission Limit 2 Avg.  
Time/Condition:  
Standard Emission Limit:  
Standard Emission Limit  
Unit:  
Standard Limit Avg.  
Time/Condition:  
\*Basis: BACT-PSD  
\*Estimated Efficiency  
(%):  
Cost Effectiveness:  
Cost Verified by Agency No  
(Y/N):  
Dollar Year Used In Cost  
Estimates:  
Pollutant/Compliance  
Notes:

\*Pollutant Name PM10  
 \*CAS Number: PM  
 \*Control Method Code: P  
 \*Control Method COMBUSTION CONTROL  
 Description:  
 Emission Limit 1: 9.0000  
 Emission Limit 1 Unit: LB/H  
 Emission Limit 1 Avg.  
 Time/Condition:  
 Emission Limit 2: 0.0048  
 Emission Limit 2 Unit: LB/MMBTU  
 Emission Limit 2 Avg.  
 Time/Condition:  
 Standard Emission Limit:  
 Standard Emission Limit  
 Unit:  
 Standard Limit Avg.  
 Time/Condition:  
 \*Basis: BACT-PSD  
 \*Estimated Efficiency  
 (%):  
 Cost Effectiveness:  
 Cost Verified by Agency No  
 (Y/N):  
 Dollar Year Used In Cost  
 Estimates:  
 Pollutant/Compliance  
 Notes:

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**PROCESS INFORMATION : CAROLINA POWER & LIGHT**


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\*Process: COMBUSTION TURBINE, 4 EACH, NAT GAS  
 Primary Fuel: NATURAL GAS  
 Throughput: 1907.60  
 Throughput Unit: MMBTU/H  
 Process Notes: (4) GE PG 7231 FA SIMPLE CYCLE. A SEPARATELY LISTED  
 PROCESS SHOWS EMISSION LIMITS WHEN FIRING NATURAL GAS.

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**POLLUTANT INFORMATION : CAROLINA POWER & LIGHT - COMBUSTION TURBINE, 4  
 EACH, NAT GAS**


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\*Pollutant Name NOX  
 \*CAS Number: 10102  
 \*Control Method Code: P  
 \*Control Method WATER INJECTION  
 Description:  
 Emission Limit 1: 158.0000  
 Emission Limit 1 Unit: LB/H  
 Emission Limit 1 Avg.

Time/Condition:  
 Emission Limit 2: 0.0840  
 Emission Limit 2 Unit: LB/MMBTU  
 Emission Limit 2 Avg.  
 Time/Condition:  
 Standard Emission Limit: 25.0000  
 Standard Emission Limit PPM @ 15% O2  
 Unit:  
 Standard Limit Avg.  
 Time/Condition:  
 \*Basis: BACT-PSD  
 \*Estimated Efficiency  
 (%):  
 Cost Effectiveness:  
 Cost Verified by Agency No  
 (Y/N):  
 Dollar Year Used In Cost  
 Estimates:  
 Pollutant/Compliance  
 Notes:

\*Pollutant Name SO2  
 \*CAS Number: 7446-09-5  
 \*Control Method Code: P  
 \*Control Method COMBUSTION CONTROL

Description:  
 Emission Limit 1: 1.0000  
 Emission Limit 1 Unit: LB/H  
 Emission Limit 1 Avg.  
 Time/Condition:  
 Emission Limit 2: 5.3000  
 Emission Limit 2 Unit: E-04 LB/MMBTU  
 Emission Limit 2 Avg.  
 Time/Condition:  
 Standard Emission Limit:  
 Standard Emission Limit  
 Unit:  
 Standard Limit Avg.  
 Time/Condition:  
 \*Basis: BACT-PSD  
 \*Estimated Efficiency  
 (%):  
 Cost Effectiveness:  
 Cost Verified by Agency No  
 (Y/N):  
 Dollar Year Used In Cost  
 Estimates:  
 Pollutant/Compliance  
 Notes:

\*Pollutant Name CO

\*CAS Number: 630-08-0  
\*Control Method Code: P  
\*Control Method COMBUSTION CONTROL  
Description:  
Emission Limit 1: 80.0000  
Emission Limit 1 Unit: LB/H  
Emission Limit 1 Avg.  
Time/Condition:  
Emission Limit 2: 0.0420  
Emission Limit 2 Unit: LB/MMBTU  
Emission Limit 2 Avg.  
Time/Condition:  
Standard Emission Limit:  
Standard Emission Limit  
Unit:  
Standard Limit Avg.  
Time/Condition:  
\*Basis: BACT-PSD  
\*Estimated Efficiency  
(%):  
Cost Effectiveness:  
Cost Verified by Agency No  
(Y/N):  
Dollar Year Used In Cost  
Estimates:  
Pollutant/Compliance  
Notes:

\*Pollutant Name VOC  
\*CAS Number: VOC  
\*Control Method Code: P  
\*Control Method COMBUSTION CONTROL  
Description:  
Emission Limit 1: 2.8000  
Emission Limit 1 Unit: LB/H  
Emission Limit 1 Avg.  
Time/Condition:  
Emission Limit 2: 0.0015  
Emission Limit 2 Unit: LB/MMBTU  
Emission Limit 2 Avg.  
Time/Condition:  
Standard Emission Limit:  
Standard Emission Limit  
Unit:  
Standard Limit Avg.  
Time/Condition:  
\*Basis: BACT-PSD  
\*Estimated Efficiency  
(%):  
Cost Effectiveness:  
Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name PM  
 \*CAS Number: PM  
 \*Control Method Code: P  
 \*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 9.0000

Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0048

Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit:

Standard Emission Limit

Unit:

Standard Limit Avg.

Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name H2SO4  
 \*CAS Number: 7664-93-9  
 \*Control Method Code: P  
 \*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 17.9500

Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0094

Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit:

Standard Emission Limit

Unit:

Standard Limit Avg.

Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:





























## **APPENDIX G**

### **EXAMPLES OF FEDERAL/STATE REGULATION STANDARD REPORTS**

Comprehensive Report  
Free Form Report (Customizable & Standard)

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## DETAILED SOURCE LISTING

Report Date: 10/05/2004

**General Information**

<b>RBLC ID:</b>	RUS-0014	<b>Date Last Updated:</b>	10/04/1994
<b>Affected Facility:</b>	STATIONARY GAS TURBINES	<b>Proposal:</b>	10/03/1977 (42 FR 53782)
<b>CFR Citation:</b>	40 CFR PART 60 SUBPART GG	<b>Promulgation:</b>	09/10/1979 (44 FR 52792)
<b>Basis:</b>	NSPS	<b>SIC Code:</b>	3511
<b>Rule Status:</b>	IN EFFECT		
<b>Notes:</b>	BID DOCUMENTS: (1) EPA-450/2-77-017A - STANDARDS SUPPORT AND ENVIRONMENTAL IMPACT STATEMENT. VOLUME I: PROPOSED STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES. (1977) (2) EPA-450/2-77-017B - STANDARDS SUPPORT AND ENVIRONMENTAL IMPACT STATEMENT. VOLUME II: PROMULGATED STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES. (1979)		

**Process/Pollutant Information**

**PROCESS:** TURBINE, GAS  
**Process Type(s):** 15.004 ()  
**SCC Code:** 20200201  
**Throughput:** 0 >10 & <100 MMBTU/H

**Process Notes:****POLLUTANT:** SO2 **CAS No.:** 7446-09-5**Emission Limit 1:** 150 PPM @ 15% O2**Basis:** NSPS**Emission Limit 2:** 0 FUEL <0.8% SULFUR**% Efficiency:** 0**Control Method:** LOW SULFUR FUEL**Pollutant Notes:****POLLUTANT:** NOX **CAS No.:****Emission Limit 1:** 150 PPM @ 15% O2**Basis:** NSPS**Emission Limit 2:** 0**% Efficiency:** 0**Control Method:** DRY CONTROL TECHNIQUES: OPERATIONAL AND DESIGN MODIFICATIONS**Pollutant Notes:****Process/Pollutant Information**

**PROCESS:** TURBINE, GAS  
**Process Type(s):** 15.004 ()  
**SCC Code:** 20200201  
**Throughput:** 0 > 100 MMBTU/H  
**Process Notes:** CONTROL COSTS FOR INDUSTRIAL TURBINE OPERATING 2,000 HR ANNUALLY (LARGE FACILITY, 4000 HP)

**POLLUTANT:** SO2 **CAS No.:** 7446-09-5**Emission Limit 1:** 150 PPM @ 15% O2**Basis:** NSPS**Emission Limit 2:** 0 FUEL <0.8% SULFUR**% Efficiency:** 0**Control Method:** LOW SULFUR FUEL**Pollutant Notes:****POLLUTANT:** NOX **CAS No.:****Emission Limit 1:** 75 PPM @ 15% O2**Basis:** NSPS**Emission Limit 2:** 0**% Efficiency:** 0**Control Method:** WATER OR STEAM INJECTION**Pollutant Notes:**

## Process/Pollutant Information

**PROCESS:** TURBINE, GAS \*  
**Process Type(s):** 15.004 ()  
**SCC Code:** 20200201  
**Throughput:** 0 > 100 MMBTU/H  
**Process Notes:** USED IN OIL/GAS PRODUCTION OR TRANSPORTATION NOT IN MSA

**POLLUTANT:** SO2      **CAS No.:** 7446-09-5  
**Emission Limit 1:** 150 PPM @ 15% O2      **Basis:** NSPS  
**Emission Limit 2:** 0 FUEL < 0.8% SULFUR      **% Efficiency:** 0  
**Control Method:** LOW SULFUR FUEL  
**Pollutant Notes:**

**POLLUTANT:** NOX      **CAS No.:**  
**Emission Limit 1:** 150 PPM @ 15% O2      **Basis:** NSPS  
**Emission Limit 2:** 0      **% Efficiency:** 0  
**Control Method:** DRY CONTROL TECHNIQUES: OPERATIONAL AND DESIGN MODIFICATIONS  
**Pollutant Notes:**

## General Information

**RBLC ID:** RUS-0246      **Date Last Updated:** 01/21/2003  
**Affected Facility:** STATIONARY COMBUSTION TURBINES      **Proposal:** 01/14/2003 (68 FR 1888)  
**CFR Citation:** 40 CFR PART 63 SUBPART YYYY      **Promulgation:** ()  
**Basis:** MACT      **SIC Code:** 4911  
**Rule Status:** PROPOSED  
**Notes:** RULE APPLIES TO STATIONARY COMBUSTION TURBINES LOCATED AT A MAJOR SOURCE OF HAP. THE RULE DOES NOT COVER DUCT BURNERS AND TEST CELLS/STANDS. ADDITIONAL SIC CODES: 4922, 1311, 1321 AND 4931. NAICS CODES: 2211, 486210, 211111, 211112, AND 221.

## Process/Pollutant Information

**PROCESS:** DIFFUSION FLAME STATIONARY COMB. TURBINE EXISTING  
**Process Type(s):** 15.000 (Large Combustion Turbines (> 25 MW))  
**SCC Code:**  
**Throughput:** 1 MW  
**Process Notes:** TURBINE THROUGHPUT > 1 MW. THIS PROCESS HAS NO EMISSION LIMITS.

## Process/Pollutant Information

**PROCESS:** LEAN PREMIX STATIONARY COMB. TURBINE (EXISTING)  
**Process Type(s):** 15.000 (Large Combustion Turbines (> 25 MW))  
**SCC Code:**  
**Throughput:** 1 MW  
**Process Notes:** TURBINE THROUGHPUT > 1 MW.

**POLLUTANT:** CO      **CAS No.:** 630-08-0  
**Emission Limit 1:** 95 % REDUCTION      **Basis:** MACT  
**Emission Limit 2:**      **% Efficiency:** 95  
**Control Method:** OXIDATION CATALYST

**Pollutant Notes:** THIS EMISSION LIMIT APPLIES IF YOU HAVE AN OXIDATION CATALYST CONTROL DEVICE.

**POLLUTANT:** FORMALDEHYDE **CAS No.:** 50000

**Emission Limit 1:** 43 PPBVD @ 15% O2

**Basis:** MACT

**Emission Limit 2:**

**% Efficiency:**

**Control Method:** OTHER CONTROLS THAN OXIDATION CATALYST

**Pollutant Notes:**

#### Process/Pollutant Information

**PROCESS:** STATIONARY COMBUSTION TURBINE (NEW)

**Process Type(s):** 15.000 (Large Combustion Turbines (> 25 MW))

**SCC Code:**

**Throughput:** 1 MW

**Process Notes:** TURBINE THROUGHPUT > 1 MW.

**POLLUTANT:** CO **CAS No.:** 630-08-0

**Emission Limit 1:** 95 % REDUCTION

**Basis:** MACT

**Emission Limit 2:**

**% Efficiency:** 95

**Control Method:** OXIDATION CATALYST

**Pollutant Notes:** THIS EMISSION LIMIT APPLIES IF YOU HAVE AN OXIDATION CATALYST CONTROL DEVICE.

**POLLUTANT:** FORMALDEHYDE **CAS No.:** 50000

**Emission Limit 1:** 43 PPBVD @ 15% O2

**Basis:** MACT

**Emission Limit 2:**

**% Efficiency:**

**Control Method:** OTHER CONTROLS THAN OXIDATION CATALYST.

**Pollutant Notes:**

#### Process/Pollutant Information

**PROCESS:** EMERGENCY,LIMITED USE OR LANDFILL/DIGESTER GAS CT

**Process Type(s):** 15.000 (Large Combustion Turbines (> 25 MW))

**SCC Code:**

**Throughput:** 0

**Process Notes:** NO EMISSION LIMITS. INITIAL NOTIFICATION REQUIREMENTS ONLY.

#### Process/Pollutant Information

**PROCESS:** STATIONARY COMBUSTION TURBINE < 1 MW

**Process Type(s):** 15.000 (Large Combustion Turbines (> 25 MW))

**SCC Code:**

**Throughput:** 1 MW

**Process Notes:** TURBINE THROUGHPUT < 1 MW. NO EMISSION LIMITS.



Report Date: 12/06/2004

Regulations (Freeform)

RBLC ID: RUS-0107  
 Affected Facility: PETROLEUM REFINERIES  
 Basis: MACT  
 State: US  
 EPA Region:  
 Agency Name: EPA REGION I  
 Agency Contact: Clean Air Technology Center  
 Agency Phone: (919) 541-0800  
 CFR Citation: 40 CFR PART 63 SUBPART CC  
 Rule Status: IN EFFECT  
 Entry Date: 01/26/1995  
 Last Update: 04/01/1996  
 SIC: 2911  
 BID: SEE NOTES  
 BID Title: SEE NOTES  
 On-Line Location: PETROFAC.WPF,PETROPRE.WPF,PETRORUL.ZIP,BID\*.ZIP IN  
 Tech Support Doc. Date: 07/28/1995  
 Economic Analysis Date: 07/28/1995  
 Risk Analysis Date:  
 Public Notice Date: 07/15/1994  
 Public Hearing: Yes  
 Proposal Date: 07/15/1994  
 FR Proposal: 59 FR 36130  
 Promulgation Date: 08/18/1995  
 FR Promulgation: 60 FR 43243  
 Effective Date: 08/18/1995  
 FR Effective: 60 FR 43243

## Notes

BID: APTD-1352A,B,C: BKGD INFO FOR NSPS: PETROLEUM REFINERIES EPA-4: 003: BKGD INFO FOR NSPS: PETROLEUM REFINERIES EPA-450/3-85-001A,B: VC FROM PET RFNRY WASTEWATER SYS EPA-450/3-80-033A,B: VOC FUG EMISS I REFIN INDUSTRY EPA-453/D-92-016A,B,C: HAP EMISS FROM PROCESS UNITS I 95-015B: NESHAP BKGD INFO FOR FINAL STDS, SUMMARY OF COMMENTS EN AVERAGING ALLOWED AMONG EXISTING SRC (EXCEPT LEAKS) AT SITE. RE EQUIPMENT LEAKS BASED ON 40 CFR 63 SUBPART H (HON), WITH DIFFEREN REFLECT WHAT IS TECHNOLOGICALLY FEASIBLE. REFINERIES MAY ALSO C

TO COMPLY WITH NSPS (40 CFR 60 SUBPART VV) TO USE EXISTING LDAR PR

Report Date: 12/06/2004

Regulations (Freeform)

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\*Process: STORAGE VESSELS

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-99

Throughput:

Throughput Unit: SEE PROCESS NOTES

Process Notes: EXISTING: >= 177 M3 AND >= 10.4 KPA AND > 4% HAP BY WEIGHT NEW: >= AND >= 3.4 KPA AND > 2% HAP BY WEIGHT, OR 76 - 151 M3 AND >= 77 KPA HAP BY WEIGHT. DOES NOT APPLY TO VESSELS FOR >29.7 PSIA OR TO WASTEWATER TANKS. FITTING CONTROLS REQ'D ON NEW TANKS FOR V PRESS > 0.5 PSIA.

\*Pollutant: HAP

\*CAS Number:

Control Method Description: CLOSED VENT SYSTEM TO CONTROL DEVICE INT. FLOATING ROOF W/ DE SEALS; EXT FIXED-RF W/ INT FLOAT. ROOF & DBL RIM SEALS

Emission Limit 1: 0

Emission Limit 1 Unit: SEE P2

Emission Limit 1

Condition:

Percent Efficiency: 95

Emission Limit 2: 0

Emission Limit 2

Unit:

Emission Limit 2

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

Annualized Cost:

O&M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: WASTEWATER STREAMS

\*Process Type(s): 50.009

\*SCC Code: 3-06-005

Throughput:

Throughput Unit:

Process Notes: APPLIES TO FACILITIES WITH BENZENE LOADINGS OVER 10 MG/YR. REQ. ON 40 CFR 61 SUBPART FF (BENZENE WASTEWATER NESHAP). REFINERIE COMPLIANCE WITH NESHAP ARE CONSIDERED IN COMPLIANCE WITH RE MACT.

\*Pollutant: BENZENE  
\*CAS Number: 71-43-2  
Control Method Description: SUPPRESS. FOLLOW. BY STEAM STRIP OR OTHER 95% CTRL  
Emission Limit 1: 99  
Emission Limit 1 Unit: % REDUCTION OF MASS  
Emission Limit 1 Condition:  
Percent 0  
Efficiency:  
Emission Limit 2: 0  
Emission Limit 2 Unit:  
Emission Limit 2 Condition:  
Emission Type: F  
CAP Cost of Control Equipment:  
Annualized Cost:  
O&M Cost:  
Cost  
Effectiveness:  
Dollar Year Used  
In Cost Estimates:  
Pollutant Notes:

\*Process: LEAKS - PUMPS AND VALVES, LIGHT LIQ & GAS/VAPOR  
\*Process Type(s): 50.007  
\*SCC Code: 3-06-008-99  
Throughput:  
Throughput Unit:  
Process Notes: APPLIES IF EQUIPMENT CONTAINS MORE THAN 5% HAP. QUARTERLY LD. ALLOWED IF < 3% LEAKERS, PUMPS, OR < 4% OR 5%, VLAVES.

\*Pollutant: HAP  
\*CAS Number:  
Control Method Description: LEAK DETECTION AND REPAIR (LDAR). QUALITY IMPROVMENT PLAN (QI REQUIRED IF STANDARDS NOT MET  
Emission Limit 1: 0  
Emission Limit 1 Unit: SEE P2  
Emission Limit 1 Condition:  
Percent 0  
Efficiency:  
Emission Limit 2: 0  
Emission Limit 2 Unit:

## Emission Limit 2

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

Annualized Cost:

O&amp;M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: LEAKS - COMPRESSORS

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-99

Throughput:

Throughput Unit:

Process Notes: HYDROGEN COMPRESSORS ARE EXEMPT.

\*Pollutant: HAP

\*CAS Number:

Control Method BARRIER FLUID SEAL SYSTEM TO PREVENT HAP LEAKS LEAK DETECTIO

Description: REPAIR (LDAR)

Emission Limit 1: 0

Emission Limit 1  
Unit: SEE CONTROLS/P2

Emission Limit 1

Condition:

Percent 0

Efficiency:

Emission Limit 2: 0

Emission Limit 2

Unit:

Emission Limit 2

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

Annualized Cost:

O&amp;M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: LEAKS - SAMPLING CONNECTORS

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-99

Throughput:

Throughput Unit:

Process Notes:

\*Pollutant: HAP

\*CAS Number:

Control Method CLOSED PURGE, CLOSED LOOP, OR CLOSED VENT SYSTEM LEAK DETECT

Description: REPAIR (LDAR)

Emission Limit 1: 0

Emission Limit 1  
Unit: SEE CONTROLS/P2

Emission Limit 1

Condition:

Percent  
Efficiency: 0

Emission Limit 2: 0

Emission Limit 2

Unit:

Emission Limit 2

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

Annualized Cost:

O&M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: LEAKS - OPEN-ENDED LINES OR VALVES

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-99

Throughput:

Throughput Unit:

Process Notes:

\*Pollutant: HAP

\*CAS Number:

Control Method CAP, BLIND FLANGE, OR PLUG LEAK DETECTION AND REPAIR (LDAR)

Description:

Emission Limit 1: 0

Emission Limit 1  
Unit: SEE CONTROLS/P2

Emission Limit 1

Condition:

Percent  
Efficiency: 0

Emission Limit 2: 0  
Emission Limit 2  
Unit:  
Emission Limit 2  
Condition:  
Emission Type: F  
CAP Cost of  
Control  
Equipment:  
Annualized Cost:  
O&M Cost:  
Cost  
Effectiveness:  
Dollar Year Used  
In Cost Estimates:  
Pollutant Notes:

\*Process: LEAKS - PRESSURE RELIEF VALVES  
\*Process Type(s): 50.007  
\*SCC Code: 3-06-008-99  
Throughput:  
Throughput Unit:  
Process Notes:

\*Pollutant: HAP  
\*CAS Number:  
Control Method ACHIEVE EQUIV. OF ZERO EMISSIONS IF NO RUPTURE DISK OR CLOSED V  
Description: SYSTEM. MONITOR AFTER EACH RELEASE  
Emission Limit 1: 0  
Emission Limit 1 SEE CONTROLS/P2  
Unit:  
Emission Limit 1  
Condition:  
Percent 0  
Efficiency:  
Emission Limit 2: 0  
Emission Limit 2  
Unit:  
Emission Limit 2  
Condition:  
Emission Type: F  
CAP Cost of  
Control  
Equipment:  
Annualized Cost:  
O&M Cost:  
Cost  
Effectiveness:  
Dollar Year Used  
In Cost Estimates:  
Pollutant Notes:

\*Process: LEAKS - PROCESS EQUIPMENT  
\*Process Type(s): 50.007  
\*SCC Code: 3-06-008-99  
Throughput:  
Throughput Unit: HEAVY LIQUID  
Process Notes: INCLUDES PUMPS, VALVES, CONNECTORS, AND AGITATORS. RECIPROCA  
PUMPS ARE EXEMPT.

\*Pollutant: HAP  
\*CAS Number:  
Control Method IF INSPECTION DETECTS POSSIBLE, THEN MONITOR WITH AN INSTRUME  
Description:  
Emission Limit 1: 0  
Emission Limit 1 SEE P2  
Unit:  
Emission Limit 1  
Condition:  
Percent 0  
Efficiency:  
Emission Limit 2: 0  
Emission Limit 2  
Unit:  
Emission Limit 2  
Condition:  
Emission Type: F  
CAP Cost of  
Control  
Equipment:  
Annualized Cost:  
O&M Cost:  
Cost  
Effectiveness:  
Dollar Year Used  
In Cost Estimates:  
Pollutant Notes:

\*Process: LEAKS - CONNECTORS  
\*Process Type(s): 50.007  
\*SCC Code: 3-06-008-99  
Throughput:  
Throughput Unit: LIGHT LIQ & GAS/VAPOR  
Process Notes:

\*Pollutant: HAP  
\*CAS Number:  
Control Method RANDOM MONITORING OR COMPLETE INSPECTION W/IN 12 MOS IN EXCE  
Description: FOR LESS STRINGENT VALVE LIMITS.  
Emission Limit 1: 0  
Emission Limit 1 SEE P2  
Unit:



## Emission Limit 1

Condition:

Percent  
Efficiency: 0

Emission Limit 2: 0

Emission Limit 2

Unit:

Emission Limit 2

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

Annualized Cost:

O&amp;M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: PROCESS VENTS

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-22

Throughput:

Throughput Unit: &gt; 20 PPMV/ 72 LB/DAY

APPLIES TO NONCONDENSABLE GASES VENTED FROM CONDENSERS AND VACUUM (STEAM) EJECTORS. CONTROLS REEQUIRED FOR GROUP I VENT EMIT >72 LB/DAY FOR EXISTING AND >15 LB/DAY FOR NEW SOURCES. GR VENTS NOT REQUIRED TO APPLY CONTROLS. STANDARD REQUIRES RED OF HAP TO LESS STRINGENT LIMIT.

Process Notes:

\*Pollutant: HAP

\*CAS Number:

Control Method  
Description: FLARE, BOILER, PROCESS HEATER, INCINERATOR

Emission Limit 1: 20

Emission Limit 1  
Unit: PPMV

Unit:

Emission Limit 1

Condition:

Percent  
Efficiency: 0

Emission Limit 2: 98

Emission Limit 2  
Unit: % REDUCTION

Unit:

Emission Limit 2

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:  
Annualized Cost:  
O&M Cost:  
Cost  
Effectiveness:  
Dollar Year Used  
In Cost Estimates:  
Pollutant Notes: