

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 BOOTH			
			41.002	PAINT SPRAY BOOTH			
			41.002	PAINT MIX ROOM OFFLINE TOUCH-UP BOOTH			
			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 BOOTH
						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 BOOTH
41.002	PLASTICS BOOTH WIPING						
41.002	PLASTICS FLASH-BOOTH						
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

RBLC ID:	NC-0059 (final)	Date Determination	10/08/2002
Corporate/Company Name:	CAROLINA POWER & LIGHT	Last Updated:	
Facility Name:	CAROLINA POWER & LIGHT	Permit Number:	1812
Facility Contact:		Permit Date:	04/11/1996 (actual)
Facility Description:		FRS Number:	110000496552
Permit Type:	A: New/Greenfield Facility	SIC Code:	4911
		NAICS:	221111, 221112, 221113, 221119, 221121, 221122
EPA Region:	4		
Facility County:	WAYNE		
Facility State:	NC		
Facility ZIP Code:	27530-9371		
Permit Issued By:	NORTH CAROLINA DIV OF ENV MGMT (Agency Name) Mr. Fred Langenbach (Agency Contact) (919)715-6242		
Other Agency Contact Info:	EDWARD MARTIN NC (919) 715-6283		
Other Permitting Information:	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** **CAS Number:** VOC
NAME: VOC, OIL**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** **CAS Number:** 7664-93-9
NAME: H2SO4**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:
 Other Permitting Information: H.F. LEE STEAM ELECTRIC PLANT

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

*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:

PROCESS INFORMATION : CAROLINA POWER & LIGHT

*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.

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

*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

RBLC ID:	RUS-0014	Date Last Updated:	10/04/1994
Affected Facility:	STATIONARY GAS TURBINES	Proposal:	10/03/1977 (42 FR 53782)
CFR Citation:	40 CFR PART 60 SUBPART GG	Promulgation:	09/10/1979 (44 FR 52792)
Basis:	NSPS	SIC Code:	3511
Rule Status:	IN EFFECT		
Notes:	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)

*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&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&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 INSTRUMEI
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&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: > 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: