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Department of Energy  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

04-OES-0053

APR 9 2004

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APR 19 2004

EDMC

Mr. Michael A. Wilson, Program Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
1315 W. Fourth Avenue  
Kennewick, Washington 99336

Dear Mr. Wilson

CALENDAR YEAR 2003 NONRADIOACTIVE INVENTORY OF AIRBORNE EMISSIONS  
REPORT

Enclosed please find a summary and completed forms documenting specifically requested Hanford Site nonradiological emissions during Calendar Year 2003, pursuant to Washington Administrative Code 173-400-105. Minor corrections have been made to the forms, including corrections of data transmitted correctly in 2002, but incorrectly shown on 2003 forms, and corrections of Standard Industrial Classification and Source Classification Code. One correction is made to 2003 carbon monoxide data on Emission Point Number 26, as noted on the form. All coordinates for the individual emission points have been replaced by a set of coordinates representing a central location on the contiguous Hanford Site, in order to meet Homeland Security requirements.

Should you have any questions, please contact me, or your staff may contact Joel Hebdon, Director, Office of Environmental Services, on (509) 376-6657.

Sincerely,

Keith A. Klein  
Manager

OES:MFJ

Enclosure

cc: See page 2



ENCLOSURE

2003 Hanford Site Emission Inventory

## 2003 HANFORD SITE EMISSION INVENTORY SUMMARY

The 2003 Emission Inventory is completed, on forms provided by the State of Washington, Department of Ecology (Ecology) Air Quality Program.

The format of the report includes the following:

Section 1. General Facility Information

- Certification of Data Accuracy

Section 2. Emission Point Information

- One completed form for each source

Section 3. Emission from Process or Segments

- One completed form for each Source Classification Code reported for each individual emission point in Section 2
- Section 3 forms follow the pertinent Section 2 form for an individual emission point, followed by the Section 2 form and Section 3 form(s) for each additional emission point.

The emissions data for the following emission points (rounded to nearest ton) are provided:

Emission Point Number 22	(Tank Farm Exhausters, 200 E Composite)
Emission Point Number 23	(Tank Farm Exhausters, 200 W Composite)
Emission Point Number 24	(242-A Evaporator, 200 E Area)
Emission Point Number 25	(200 Area Effluent Treatment Facility)
Emission Point Number 26	(ESPC Diesel Boilers, 200 Area Composite)
Emission Point Number 27	(ESPC Gas Boilers, 300 Area Composite)
Emission Point Number 28	(CWC Diffuse and Fugitive, 200 W Area)
Emission Point Number 29	(EMSL Gas Boilers, 300 Area)
Emission Point Number 30	(T Plant Point Source and Fugitive, 200 W Area)
Emission Point Number 31	(WRAP Point Source and Fugitive, 200 W Area)
Emission Point Number 32	(Fuel Dispensing, Evaporative Losses, 200/600 Area)

Source and/or composite emissions from additional Hanford Site sources will be provided upon request from Ecology. The 200/600 Area gas station is reported this year as a new emission point, as requested by Ecology. The Hanford Site Air Operating Permit (AOP) was issued on July 2, 2001. Most of the emission units in the AOP either are included in the list above or do not have significant emissions.

Emissions from the polycube thermal stabilization process were to be reported in this annual report, pursuant to Washington Administrative Code (WAC) 173-400-105, as required by Approval Order DE01NWP-001. The project was completed during the October 2002 - March 2003 time frame. Emissions from the project were less than half a ton of carbon monoxide and less than 10 pounds of toxic air pollutants (TAPs) for each of the calendar year (CY) 2002 and CY 2003 reporting periods. All TAP emissions were well below the small quantity emission rates described in WAC 173-460-080.

The Waste Treatment Plant generators and boilers used approximately 11,300 gallons of diesel fuel in 2003 (greater than 500 horsepower). The balance of the combined Hanford Site use of diesel fuel by the stationary

internal combustion units (e.g., Fluor Hanford, Pacific Northwest National Laboratory, and Johnson Controls, Inc. units, operating as backup diesel generators) for inclusion in the AOP (greater than 500 horsepower) was less than 13,000 gallons. No individual unit had emissions of greater than 0.5 tons for any of the criteria pollutants. The combined emissions were less than 1.7 tons for oxides of nitrogen and less than 0.5 tons for each of the other criteria pollutants.

Guidance is requested from Ecology on future reporting requirements. Future reporting of these sources may be addressed by compositing sources by category and/or areas of the Hanford Site, by addition of new emission points, or through incorporation into the existing composited or stationary emission points.

DEPT. OF ECOLOGY NUCLEAR WASTE SECTION  
2003 Request for Air Emissions Information

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY

**Section 1: Facility Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

**ADDRESS, PHYSICAL AND MAILING**

Physical Addr: HANFORD RESERVATION  
(no PO Box) RICHLAND, WA 99352

Mailing PO BOX 550  
Address: RICHLAND, WA 99352

**Universal Business Identifier (UBI):**

**TECHNICAL CONTACT**

Name: MARY JARVIS  
Phone Number: (509)376-2256

Fax: (509)372-2610  
e-mail: mary\_f\_jarvis@rl.gov

**PRIMARY STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)**

SIC	Industry Type
9999	NON-CLASSIFIABLE ESTABLISHMENTS

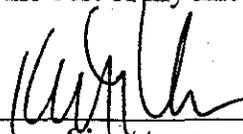
**GEOGRAPHIC COORDINATES (Facility Front Door)**

UTM Horizontal (km): 325      Vertical: 5127      Zone: 11  
Or  
Latitude: N 46° 16' 40"      Longitude: W 119° 16' 32"

**CERTIFICATION OF DATA ACCURACY**

Consistent with state law, the data presented here is accurate to the best of my knowledge. (Please submit this signed page with any electronic submissions.)

KEITH A. KLEIN, MANAGER  
Print Name      Title

  
Signature

4/9/04  
Date



**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 22 Description: TANK FARM EXHAUSTERS, 200 E COMPOSITE

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
9511	AIR, WATER & SOLID WASTE MANAGEMENT

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
Or		Zone:	11
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)					
	2002	2003		2002	2003
Jan - Mar:	25	25	Hrs/Day	24	24
Apr - Jun:	25	25	Days/Wk:	7	7
Jul - Sep:	25	25	Wks/Yr:	52	52
Oct - Dec:	25	25			
	100	100			

STACK PARAMETERS (if applicable)					
	2002	2003		2002	2003
Temperature:			°F.		
Water Vapor:			%		
Height:			ft		
Diameter:			ft		
Flow Rate:					ACFM
Oxygen, Dry:					%
Plume Height:					ft
			(if no stack)		

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 39999996 Segment Number: 01

Process Information

Miscellaneous Industrial Processes: Specify In Comments

2002 2003

Material (in 1000 GALLONS)

0 N/A

Insignificant Emissions Unit? (Y/N): N

Comments: CO reported in prior years based on minimum detection levels, now based on actually detected.

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	0			
PM <sub>10</sub>	0	0	0			
PM <sub>2.5</sub>	0	0	0			
SO <sub>2</sub>	0	0	5			
NOx as NO <sub>2</sub>	0	0	5			
VOC, (reported as individual)	4	5	5			
CO	11	0	5			
NH <sub>3</sub> (ammonia)	7	9	5			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
OTHER TAPS (Composite)		4000	11292	5
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 23 Description: TANK FARM EXHAUSTERS, 200 W COMPOSITE

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
9511	AIR, WATER & SOLID WASTE MANAGEMENT

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
Or		Zone:	11
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)					
	2002	2003		2002	2003
Jan - Mar:	25	25	Hrs/Day	24	24
Apr - Jun:	25	25	Days/Wk:	7	7
Jul - Sep:	25	25	Wks/Yr:	52	52
Oct - Dec:	25	25			
	100	100			

STACK PARAMETERS (if applicable)					
	2002	2003		2002	2003
Temperature:			°F	Flow Rate:	
Water Vapor:			%	Oxygen, Dry:	
Height:			ft	Plume Height:	
Diameter:			ft	(if no stack)	
					ACFM
					%
					ft

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 39999996 Segment Number: 01

Process Information

Miscellaneous Industrial Processes: Specify In Comments

2002 2003

Material (in 1000 GALLONS)

0 N/A

Insignificant Emissions Unit? (Y/N): N

Comments: CO reported in prior years based on minimum detection levels, now based on actually detected.

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	0			
PM <sub>10</sub>	0	0	0			
PM <sub>2.5</sub>	0	0	0			
SO <sub>2</sub>	0	0	5			
NOx as NO <sub>2</sub>	0	0	5			
VOC, (reported as individual)	2	1	5			
CO	4	0	5			
NH <sub>3</sub> (ammonia)	6	8	5			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
OTHER TAPS (Composite)		1400	4017	5
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 24 Description: 242-A EVAPORATOR, 200 EAST AREA

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
9511	AIR, WATER & SOLID WASTE MANAGEMENT

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
Or		Zone:	11
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)					
	2002	2003		2002	2003
Jan - Mar:	0	39	Hrs/Day	24	24
Apr - Jun:	0	11	Days/Wk:	7	7
Jul - Sep:	0	50	Wks/Yr:	2	8
Oct - Dec:	100	0			
	100	100			

STACK PARAMETERS (if applicable)					
	2002	2003		2002	2003
Temperature:	120	120	Flow Rate:	500	500
Water Vapor:			Oxygen, Dry:		
Height:	62	62	Plume Height:		
Diameter:	1	1	(if no stack)		

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY

Point Number: 24 242-A EVAPORATOR, 200 E AREA

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 39999996 Segment Number: 01

**Process Information**

Miscellaneous Industrial Processes: Specify In Comments

2002 2003

Material (in 1000 GALLONS)

0 N/A

Insignificant Emissions Unit? (Y/N): N

Comments: Mixed radioactive/dangerous waste evaporation, subject to RCRA Subpart AA

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	0			
PM <sub>10</sub>	0	0	0			
PM <sub>2.5</sub>	0	0	0			
SO <sub>2</sub>	0	0	0			
NOx as NO <sub>2</sub>	0	0	0			
VOC, (reported as <u>individual</u> )	0	0	5			
CO	0	0	0			
NH <sub>3</sub> (ammonia)	0	1	5			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
OTHER TAPS (Composite)		220	541	5
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 25 Description: 200 AREA EFFLUENT TREAT, 200 E AREA INSIGNIFICANT EMISSIONS UNIT

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
9511	AIR, WATER & SOLID WASTE MANAGEMENT

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
Or		Zone:	11
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)					
	<u>2002</u>	<u>2003</u>		<u>2002</u>	<u>2003</u>
Jan – Mar:	25	25	%	Hrs/Day	24
Apr – Jun:	25	25	%	Days/Wk:	7
Jul – Sep:	25	25	%	Wks/Yr:	52
Oct – Dec:	25	25	%		
	100	100	%		

STACK PARAMETERS (if applicable)					
	<u>2002</u>	<u>2003</u>		<u>2002</u>	<u>2003</u>
Temperature:	85	85	°F	Flow Rate:	60000
Water Vapor:			%	Oxygen, Dry:	
Height:	50	50	ft	Plume Height:	
Diameter:	6	6	ft	(if no stack)	

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY  
 Point Number: 25 200 AREA EFFLUENT TREAT, 200 E AREA

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 39999996 Segment Number: 01

Process Information

Miscellaneous Industrial Processes: Specify In Comments

2002 2003

Material (in 1000 GALLONS)

0 N/A

Insignificant Emissions Unit? (Y/N): Y

Comments: Mixed radioactive/dangerous waste evaporation, subject to RCRA Subpart AA

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	0			
PM <sub>10</sub>	0	0	0			
PM <sub>2.5</sub>	0	0	0			
SO <sub>2</sub>	0	0	0			
NOx as NO <sub>2</sub>	0	0	0			
VOC, (reported as individual)	0	0	5			
CO	0	0	0			
NH <sub>3</sub> (ammonia)	0	0	5			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
OTHER TAPS (Composite)		170	17	5
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 26 Description: ESPC DIST. OIL BLRS, 200 AREA COMPOS.

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
9631	REGULATION, ADMIN. OF UTILITIES

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
Or		Zone:	11
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)						
	2002	2003		2002	2003	
Jan - Mar:	47	35	%	Hrs/Day	24	24
Apr - Jun:	13	10	%	Days/Wk:	7	7
Jul - Sep:	4	10	%	Wks/Yr:	52	52
Oct - Dec:	36	45	%			
	100	100	%			

STACK PARAMETERS (if applicable)						
	2002	2003		2002	2003	
Temperature:			°F	Flow Rate:		ACFM
Water Vapor:			%	Oxygen, Dry:		%
Height:			ft	Plume Height:		ft
Diameter:			ft	(if no stack)		

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY  
 Point Number: 26 ESPC DIST. OIL BLRS, 200 AREA COMPOS.

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 10200501 Segment Number: 01

**Process Information**

Boiler, Industrial, Grade 1 & 2 Distillate Oil

Distillate Oil (No. 1 & 2) (in 1000 GALLONS)

Weight Percent Sulfur In Fuel (%)

	2002	2003
	797	1134
	0.05	0.05

Insignificant Emissions Unit? (Y/N): N

Comments: CO emissions reported as zero in 2002 were actually 4 tons. (typo) corrected in this report.

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	1	1	5			
PM <sub>10</sub>	1	1	5			
PM <sub>2.5</sub>	0	0	5			
SO <sub>2</sub>	3	4	5			
NOx as NO <sub>2</sub>	8	12	5			
VOC, (reported as NMTOC)	1	1	5			
CO	4	6	5			
NH <sub>3</sub> (ammonia)	0	0	3			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
Lead	7439-92-1	1	1	3

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 27 Description: ESPC NAT GAS BLRS, 300 AREA COMPOS.

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
9631	REGULATION, ADMIN. OF UTILITIES

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
		Zone:	11
Or			
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)					
	2002	2003		2002	2003
Jan - Mar:	44	42	%	Hrs/Day	24
Apr - Jun:	13	11	%	Days/Wk:	7
Jul - Sep:	3	3	%	Wks/Yr:	52
Oct - Dec:	40	44	%		
	100	100	%		

STACK PARAMETERS (if applicable)					
	2002	2003		2002	2003
Temperature:			°F	Flow Rate:	
Water Vapor:			%	Oxygen, Dry:	
Height:			ft	Plume Height:	
Diameter:			ft	(if no stack)	
					ACFM
					%
					ft

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY  
 Point Number: 27 ESPC NAT GAS BLRS, 300 AREA COMPOS.

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 10200602 Segment Number: 01

Process Information

Boiler, Industrial, Natural Gas, 10-100 MM BTU/Hr

2002 2003

Natural Gas (in MILLION CUBIC FEET)

97 94

Insignificant Emissions Unit? (Y/N): N

Comments: 987000 THERMS in 2003

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	1	1	5			
PM <sub>10</sub>	1	1	5			
PM <sub>2.5</sub>	1	1	5			
SO <sub>2</sub>	0	0	5			
NOx as NO <sub>2</sub>	3	2	5			
VOC, (reported as NMTOC)	1	1	5			
CO	11	11	5			
NH <sub>3</sub> (ammonia)	0	0	3			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
Lead	7439-92-1	0	0	0

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 28 Description: CWC DIFFUSE AND FUGITIVE, 200 W AREA

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
9511	AIR, WATER & SOLID WASTE MANAGEMENT

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
		Zone:	11
Or			
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)					
	2002	2003		2002	2003
Jan - Mar:	25	25	%	Hrs/Day	24
Apr - Jun:	25	25	%	Days/Wk:	7
Jul - Sep:	25	25	%	Wks/Yr:	52
Oct - Dec:	25	25	%		
	100	100	%		

STACK PARAMETERS (if applicable)					
	2002	2003		2002	2003
Temperature:			°F	Flow Rate:	ACFM
Water Vapor:			%	Oxygen, Dry:	%
Height:			ft	Plume Height:	ft
Diameter:			ft	(if no stack)	

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY  
 Point Number: 28 CWC DIFFUSE AND FUGITIVE, 200 W AREA

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 39999996 Segment Number: 01

Process Information

Miscellaneous Industrial Processes: Specify In Comments

2002 2003

Material (in 1000 GALLONS) 0 N/A

Insignificant Emissions Unit? (Y/N): N

Comments: storage of vented containers

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	0			
PM <sub>10</sub>	0	0	0			
PM <sub>2.5</sub>	0	0	0			
SO <sub>2</sub>	0	0	0			
NO <sub>x</sub> as NO <sub>2</sub>	0	0	0			
VOC, (reported as _____)	0	0	5			
CO	0	0	0			
NH <sub>3</sub> (ammonia)	0	0	0			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 29 Description: EMSL GAS BOILERS, 300 AREA

Boiler Design Capacity (if applicable) in MMBTUs: Two operating, one standby boilers: 5MMBTU/hr each

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
8731	COMMERCIAL, PHYSICAL & BIOLOGICAL RESEARCH

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
		Zone:	11
Or			
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)						
	2002	2003		2002	2003	
Jan - Mar:	35	37	%	Hrs/Day	24	24
Apr - Jun:	17	17	%	Days/Wk:	7	7
Jul - Sep:	15	13	%	Wks/Yr:	52	52
Oct - Dec:	33	33	%			
	100	100	%			

STACK PARAMETERS (if applicable)						
	2002	2003		2002	2003	
Temperature:			°F	Flow Rate:		ACFM
Water Vapor:			%	Oxygen, Dry:		%
Height:			ft	Plume Height:		ft
Diameter:			ft	(if no stack)		

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY  
 Point Number: 29 EMSL GAS BOILERS, 300 AREA

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 10300603 Segment Number: 01

Process Information

Boiler, Com/Institut, Natural Gas, Less Than 10 MM BTU/Hr

2002 2003

Natural Gas (in MILLION CUBIC FEET)

16 14

Insignificant Emissions Unit? (Y/N): N

Comments: 145754 Therms in CY2003

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	5			
PM <sub>10</sub>	0	0	5			
PM <sub>2.5</sub>	0	0	5			
SO <sub>2</sub>	0	0	5			
NOx as NO <sub>2</sub>	1	1	5			
VOC, (reported as _____)	0	0	5			
CO	1	1	5			
NH <sub>3</sub> (ammonia)	0	0	3			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY

Point Number: 29 EMSL GAS BOILERS, 300 AREA

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 10300503 Segment Number: 02

Boiler, Com/Institut, < 10 MM BTU/Hr

**Process Information**

	<u>2002</u>	<u>2003</u>
Distillate Oil (in 1000 Gallons)	0	0
Weight Percent Sulfur In Fuel (%)	0.05	0.05

Insignificant Emissions Unit? (Y/N): N

Comments: Diesel emergency Backup fuel

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	3			
PM <sub>10</sub>	0	0	3			
PM <sub>2.5</sub>	0	0	3			
SO <sub>2</sub>	0	0	3			
NOx as NO <sub>2</sub>	0	0	3			
VOC, (reported as )	0	0	3			
CO	0	0	3			
NH <sub>3</sub> (ammonia)	0	0	3			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 30 Description: T Plant point source and fugitive, 200 W area

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
9511	AIR, WATER & SOLID WASTE MANAGEMENT

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
Or		Zone:	11
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)						
	2002	2003		2002	2003	
Jan - Mar:	25	25	%	Hrs/Day	24	24
Apr - Jun:	25	25	%	Days/Wk:	7	7
Jul - Sep:	25	25	%	Wks/Yr:	52	52
Oct - Dec:	25	25	%			
	100	100	%			

STACK PARAMETERS (if applicable)						
	2002	2003		2002	2003	
Temperature:			°F	Flow Rate:		ACFM
Water Vapor:			%	Oxygen, Dry:		%
Height:			ft	Plume Height:		ft
Diameter:			ft	(if no stack)		

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY  
 Point Number: 30 T PLANT POINT SOURCE AND FUGITIVE, 200 W area

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 39999996 Segment Number: 01

Process Information

Miscellaneous Industrial Processes: Specify In Comments

2002 2003

Material (in 1000 GALLONS) 0 N/A

Insignificant Emissions Unit? (Y/N): N

Comments: storage & repack vented containers

Confidentiality: Is process data confidential (see RCW 70.94.205)? Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	0			
PM <sub>10</sub>	0	0	0			
PM <sub>2.5</sub>	0	0	0			
SO <sub>2</sub>	0	0	0			
NOx as NO <sub>2</sub>	0	0	0			
VOC, (reported as )	0	0	5			
CO	0	0	0			
NH <sub>3</sub> (ammonia)	0	0	0			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 31 Description: WRAP POINT SOURCE & FUGITIVE, 200 W AREA

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
9511	AIR, WATER & SOLID WASTE MANAGEMENT

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
		Zone:	11
Or			
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)						
	2002	2003		2002	2003	
Jan - Mar:	25	25	%	Hrs/Day	24	24
Apr - Jun:	25	25	%	Days/Wk:	7	7
Jul - Sep:	25	25	%	Wks/Yr:	52	52
Oct - Dec:	25	25	%			
	100	100	%			

STACK PARAMETERS (if applicable)						
	2002	2003		2002	2003	
Temperature:			°F	Flow Rate:		ACFM
Water Vapor:			%	Oxygen, Dry:		%
Height:			ft	Plume Height:		ft
Diameter:			ft	(if no stack)		

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY  
 Point Number: 31 WRAP POINT SOURCE & FUGITIVE, 200 W AREA

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 39999996 Segment Number: 01

Process Information

Miscellaneous Industrial Processes: Specify In Comments

2002 2003

Material (in 1000 GALLONS)

0 N/A

Insignificant Emissions Unit? (Y/N): N

Comments: storage & repack vented containers

Confidentiality: Is process data confidential (see RCW 70.94.205)?  Yes  No

CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)						
Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	0			
PM <sub>10</sub>	0	0	0			
PM <sub>2.5</sub>	0	0	0			
SO <sub>2</sub>	0	0	0			
NO <sub>x</sub> as NO <sub>2</sub>	0	0	0			
VOC, (reported as _____)	0	0	5			
CO	0	0	0			
NH <sub>3</sub> (ammonia)	0	0	0			

TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)				
Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>

**Section 2: Emission Point Information**

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

Emission Point No: 32 Description: Fuel Dispensing, Evaporative Losses, 200/600 Area  
New EU 2002

Boiler Design Capacity (if applicable) in MMBTUs:

POINT STANDARD INDUSTRIAL PROCESS (SIC) CODE (one only)	
SIC	Industry Type
5541	GASOLINE SERVICE STATIONS

POINT GEOGRAPHIC COORDINATES			
UTM Horizontal (km):	301	Vertical:	5160
		Zone:	11
Or			
Latitude: N	° ' "	Longitude: W	° ' "

POINT OPERATING SCHEDULE (Quarterly throughput must equal 100 or 0 if not operating)					
	<u>2002</u>	<u>2003</u>		<u>2002</u>	<u>2003</u>
Jan - Mar:	25	24	%	Hrs/Day	24
Apr - Jun:	25	25	%	Days/Wk:	7
Jul - Sep:	25	25	%	Wks/Yr:	52
Oct - Dec:	25	26	%		
	100	100	%		

STACK PARAMETERS (if applicable)					
	<u>2002</u>	<u>2003</u>		<u>2002</u>	<u>2003</u>
Temperature:	_____	_____	°F	Flow Rate:	_____
Water Vapor:	_____	_____	%	Oxygen, Dry:	_____
Height:	_____	_____	ft	Plume Height:	_____
Diameter:	_____	_____	ft	(if no stack)	

CONTROL EQUIPMENT (Please associate with the proper segments on next page(s))	
Code*	Description
047	Vapor recovery system (Stage 1)
093	Submerged filling
094	Underground tank

\* A list of valid codes may be found at <http://www.ecy.wa.gov/ecology/programs/air/emisinv.htm>

Plant Number: M - 005 - 0009 U.S. DEPT OF ENERGY

Point Number: 32 FUEL DISPENSING, EVAPORATIVE LOSSES, 200/600 AREA

**Section 3: Emissions from Segments Information** (Please use one page for each segment)

(Is the following complete and accurate? If not, correct any errors and provide any missing information.)

SCC Code: 2501060000 Segment Number: 01

**Process Information**

Gasoline Service Stations: Specify In Comments

2002      2003

Gasoline (in 1000 GALLONS)

583      583

Insignificant Emissions Unit? (Y/N): N

Comments: Fuel dispensing, evaporative loss Stage I and Stage II (Stage II not included in 2002)

Confidentiality: Is process data confidential (see RCW 70.94.205)?      Yes       No

**CRITERIA POLLUTANT EMISSIONS and AMMONIA (Specify in tons per year)**

Criteria Pollutant	Emissions		Estimation Code*	Control Equip. Code		Control Efficiency (%)
	2002	2003		Primary	Secondary	
Particulate Total	0	0	0			
PM <sub>10</sub>	0	0	0			
PM <sub>2.5</sub>	0	0	0			
SO <sub>2</sub>	0	0	0			
NO <sub>x</sub> as NO <sub>2</sub>	0	0	0			
VOC, (reported as <u>      </u> TOC)	1	4	3			
CO	0	0	0			
NH <sub>3</sub> (ammonia)	0	0	0			

**TOXIC POLLUTANT EMISSIONS (Specify in pounds per year)**

Toxic Pollutant	CAS #	Emissions		Est. Code*
		2002	2003	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\* A list of valid codes may be found at <http://www.ecy.wa.gov/programs/air/emisinv.htm>