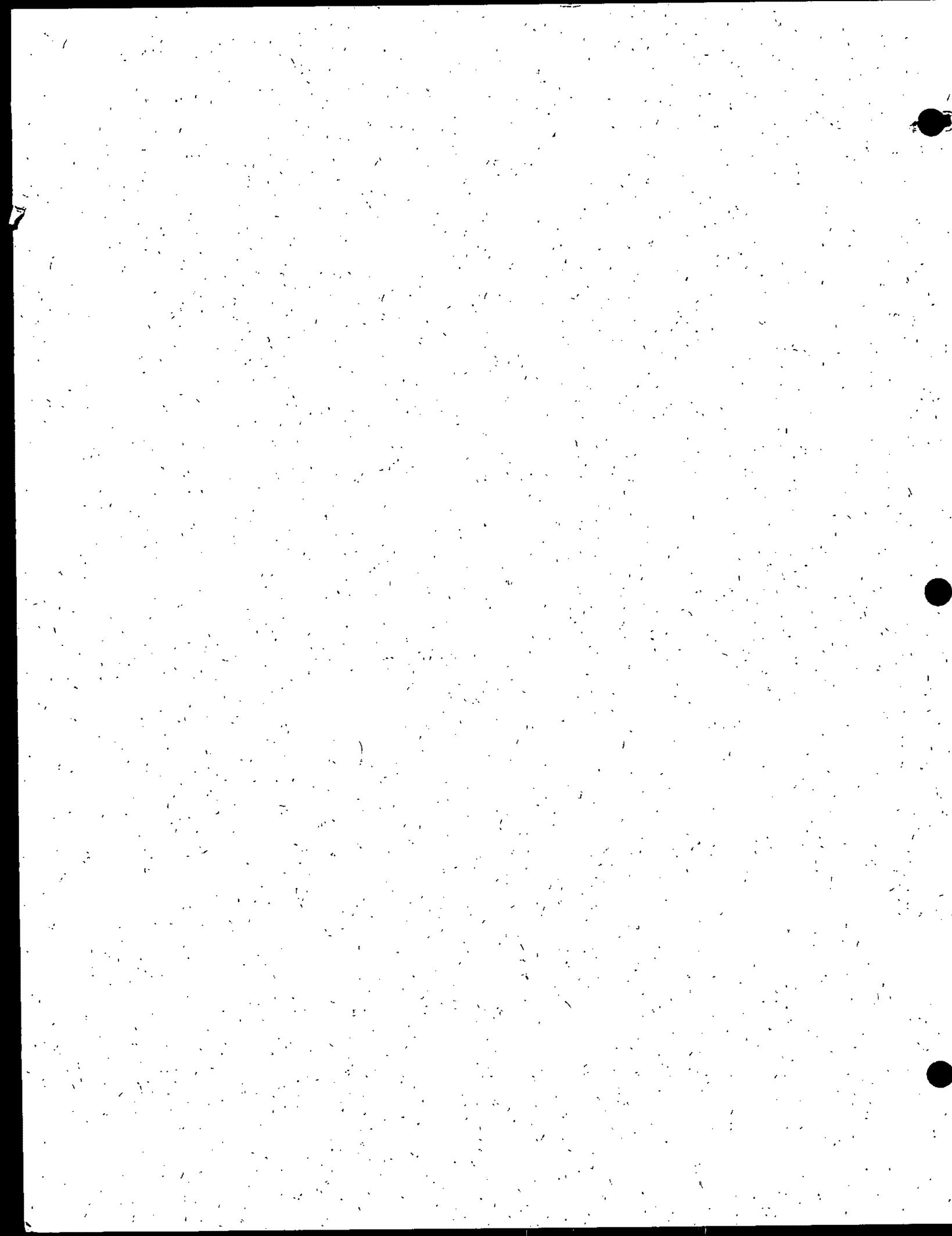




# **Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions (Final Rule)**

**Volume 2:  
Appendix C - Background  
Data for Incineration and  
Cement Kiln Capacity (Part 1)**



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**Background Document for Capacity Analysis for  
Newly Listed Wastes and Hazardous Debris to  
Support 40 CFR 268 Land Disposal Restrictions  
(Final Rule)**

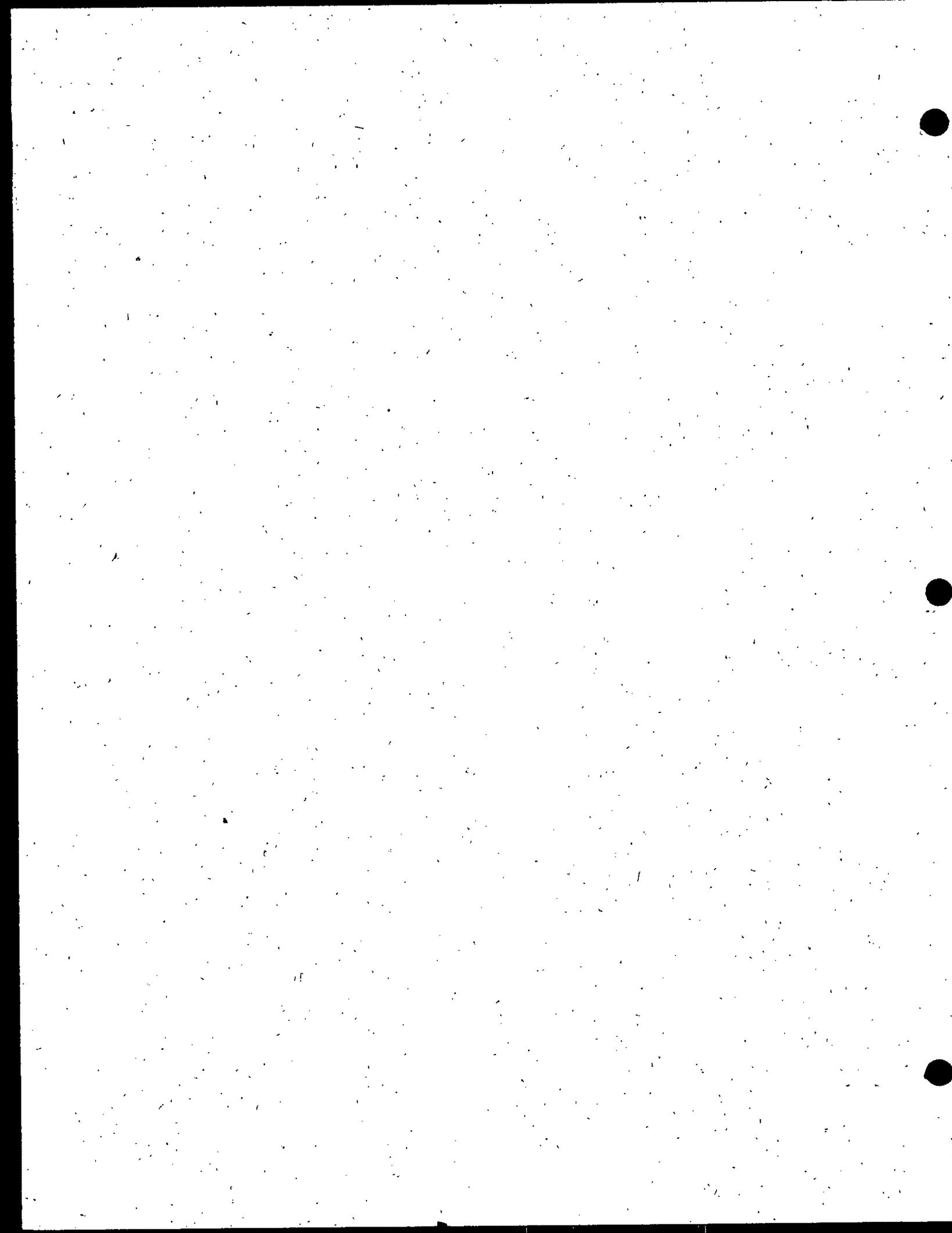
**Volume 2: Appendix A - Background Data for Incineration  
and Cement Kiln Capacity**

United States Environmental Protection Agency  
Office of Solid Waste  
401 M Street, N.W.  
Washington, D.C. 20460

June 1992

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The following information included in EPA's commercial combustion capacity update are included in this document:

Volume 1: Cement Kiln Recycling Coalition surveys

- Ash Grove Cement, Chanute, Kansas
- Ash Grove Cement, Foreman, Arkansas
- Ash Grove Cement, Louisville, Nebraska
- Ash Grove Cement West, Clancy, Montana
- Ash Grove Cement West, Nephi, Utah
- Blue Circle Cement, Atlanta, Georgia
- Blue Circle Cement, Tulsa, Oklahoma
- ESSROC Cement Group, Logansport, Indiana
- ESSROC Cement Group, San Juan, Puerto Rico
- ESSROC Cement Group, Speed, Indiana
- Giant Cement, Harleyville, South Carolina
- Heartland Cement, Independence, Kansas
- Keystone Cement, Bath, Pennsylvania
- Lafarge, Alpena, Michigan
- Lafarge, Demopolis, Alabama
- Lafarge, Fredonia, Kansas

Volume 2: Cement Kiln Recycling Coalition surveys

- Lafarge, Paulding, Ohio
- Lone Star Industries, Greencastle, Indiana
- Medusa Cement, Clinchfield, Georgia
- Medusa Cement, Wampum, Pennsylvania
- National Cement, Lebec, California
- River Cement, Festus, Missouri
- Southdown, Brooksville, Florida
- Southdown, Fairborn, Ohio
- Southdown, Knoxville, Tennessee
- Southdown, Louisville, Kentucky
- Southdown, Odessa, Texas
- Southdown, Pittsburgh, Pennsylvania

Volume 3: Incinerator capacity surveys

- Aptus, Coffeyville, Kansas
- Aptus, Tooele, Utah
- Chemical Waste Management, Chicago, Illinois
- Chemical Waste Management, Port Arthur, Texas
- Chemical Waste Management, Saugat, Illinois
- Rhone-Poulenc, Baton Rouge, Louisiana
- Rhone-Poulenc, Houston, Texas

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Volume 3: Incinerator capacity surveys (continued)

- Rollins, Bridgeport, New Jersey
- Rollins, Baton Rouge, Louisiana
- Rollins, Deer Park, Texas
- Ross, Grafton, Ohio
- ThermalKEM, Rock Hill, South Carolina

Other background information ..

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#### **Survey Responses Contained in this Document**

Volumes 2 and 3: Appendix A contain surveys completed by firms that are connected with fuels substitution, own cement kilns, and act as fuels blenders, regarding the capacity to burn hazardous wastes under regulation since November 1984 ("newly listed" wastes.) The survey was sponsored by the Cement Kiln Recycling Coalition (CKRC), and completed survey forms were returned to EPA to evaluate and incorporate into the Agency's effort to determine the commercial combustion capacity available in May 1992. In addition to requesting information regarding liquid, containerized solid, dry solid, pumpable and nonpumpable sludge hazardous waste fuel combustion capacity of kilns they own or operate, the survey asked respondents about hazardous waste fuel storage capacity and fuels processing capability, the fuels blenders from whom they receive their hazardous waste (if applicable), and the physical and chemical specifications their fuels must meet.

Volume 4: Appendix A contains voluntary capacity update responses from companies that own commercial hazardous waste incinerator facilities. In addition to supplying information regarding their present and future capacity to burn liquids, pumpable sludges, non-pumpable sludges, containerized solids, and bulk solids, the capacity update form included engineering specifications of incinerator unit(s) at facility, debris and soil acceptance criteria, and waste code acceptability. This document also contains facilities that are expected to come on-line by July 1994. EPA contacted appropriate state regulatory agencies to determine the status of those facilities. Telephone logs of conversations clarifying capacity information can be found at the end of this document.

Some facilities requested that all or part of the information they submitted be maintained as Confidential Business Information. Their responses are included in this document, with the confidential information deleted. Their complete responses can be found in the CBI room at EPA headquarters in Washington, D.C.

The data contained in these capacity update responses was used in EPA's capacity analysis as discussed in Chapter 2 of *Background Document for Capacity Analysis for Newly Listed Wastes and Contaminated Debris To Support 40 CFR 268 Land Disposal Restrictions (Final Rule)*.

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Cement Kiln Surveys

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A. Facility Information

1. Respondent Name and Title: ERIC HANEFIN, V.P. and Technical Director

Company: Ash Grove Cement

Phone number: 913 451-8900

2. Name and address of company that owns the cement kilns at this facility:

Ash Grove Cement Company  
8900 Indian Creek Parkway, Olathe, KS 66225

Facility name, location, and address:

Ash Grove Chouteau Cement Plant  
North Santa Fe Street, Chanute, KS 66720

EPA ID of burner: KSD33123-218

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):

Same as above

EPA ID of on-site processor: N/A

EPA ID of other on-site hazardous waste transporter: N/A

marketer: N/A

storer: N/A

3. Number of kilns currently burning hazardous wastes at this facility:

2

Additional kilns expected to burn hazardous wastes by July 1994:

0

Kilns at this facility not expected to burn hazardous wastes by July 1994:

0

Total Number of kilns at this facility (should be total of above):

2

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

Liquids

Percent received from off-site processors (excluding generators): 100

Processor 1 Peter-Chem Processing Inc. 313-824-5429  
Processor 2 Pollution Control Industries of America 219-397-3951  
Processor 3 FibreTite Chemical Resources Inc. 903-577-3227  
Processor 4 Chemical Processing 313-824-5429

Pumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): 100

Processor 1 Cecos International Inc. 800-274-5738  
Processor 2 Peter-Chem Processing Inc. 313-824-5429  
Processor 3 Rector Chemical Industries 501-778-9027  
Processor 4 Chemical Processing 313-824-5429

Bulk Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

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B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin  
 Steel Drum, specify sizes: 5 - 6.5 gal.  
 Poly Drum, specify sizes: 5 - 7.5 gal.  
 Fiber Drum, specify sizes:  
 Bag or other flexible container, specify sizes: 8 - 15 gal.  
 Rigid Tote  
 Tanker Trucks (transferred to tank)  
 Tanker Trucks (direct feed to kiln)  
 Rail car  
 Carboy  
 Pallet  
 Other, specify:

6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers	60,500 gal.	119,500 gal.	1992
Liquid Tanks	76,000 gal.	38,000 gal.	1992
Other (specify)			

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

None

6c. What processing operations do you perform on-site for solid wastes?

Bulk solids generated by petroleum refineries (EPA waste code E048-E052) are received in steel drums, metal boxes, and repackaged into smaller size containers (55-gal).

For direct feeding to the kilns, packaged material can be shipped directly to other locations.

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	27,560	None	75,000	T
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids	9,185	None	50,000	T
Bulk Solids	2,700	2700	25,000 tons in 100 ft <sup>2</sup> contact area	—
Dry Solids				
Total	39,445		125,000	

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Kiln Number: 1 of 2

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: Wet process rotary cement kiln

Clinker capacity (tons/hr): 31.25 Tph

Thermal input (Btu/ton clinker): 200 MM BTU/Hr

Type of cement product(s) produced in this kiln: Portland Cement

Total hours operating per year on average: 7500

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end:

Dry solids injected at "hot" end:

Containerized solids charged to calcining zone:

Sludge Pump:

Other: (specify) \_\_\_\_\_

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Kiln Number: 1 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	13,780	37,500	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids	5,443	25,000	T
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 30 (%)  
Percent of above solids originally generated as solids: NRA (%)

N.P.A. = 11.7 %

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Kiln Number: 2 of 2

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	2000	24	260	11,000	66%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids	8000	24	260	6000	24%
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

260 days burning fuel out of 310 operating days (84%)

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**SUPPLEMENTAL QUESTION SET  
FOR ADDITIONAL KILNS**

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Kiln Number: 2 of 2

This supplemental question set should be completed for each additional kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 2

Type of Kiln: Wet process rotary cement kiln

Clinker capacity (tons/hr): 31.25 TPH

Thermal input (Btu/ton clinker): ≥ 50 MMBtu/ton

Type of cement product(s) produced in this kiln: Portland Cement

Total hours operating per year on average: 7500

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end:

Dry solids injected at "hot" end:

Containerized solids charged to calcining zone:

Sludge Pump:

Other: (specify) \_\_\_\_\_

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Kiln Number: 2 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time; residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	13,780	37,500	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids	5,943	25,000	P
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 30 (%)  
Percent of solids originally generated as solids: NRA (%)

R.E.A. = Not readily available

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Kiln Number: N of A

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous-waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	12000	24	260	11,600	66%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids	8000	24	260	3,000	24%
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

The maximum practical burning capacity is based on feeding waste to the kiln for 84% of the available operating time. Available operating time is based on operating the kiln 24 hours a day (30 calendar days/month, 15 months/year). The availability of the kiln for burning waste is estimated at 71%. This is a conservative estimate.

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Kiln Number: N of N

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? January, February, or March

How long? 3-4 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter): N/A

b) Physical changes (include planned schedule):

c) Regulatory modifications (include planned schedule):

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Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total-specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor,
Heat of Combustion BTU/g	8000		T
Water Content			
Total Solids Content		30%	T
Total Inorganics Content			
Particle/Object Size		1/8 inch	T
Cyanide Content			
Sulfur Content		3%	R
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content		5%	R
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Contaminated Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify PCB		50 ppm	
Total Specified Metals Content			
Antimony Content			
Arsenic Content		200 ppm	
Barium Content		10,300 ppm	
Beryllium Content			
Cadmium Content		100 ppm	
Chromium Content		1000 ppm	
Copper Content			
Lead Content		2500 ppm	
Mercury Content		10 ppm	
Nickel Content			
Selenium Content		100 ppm	
Silver Content		1000 ppm	
Thallium Content		1000 ppm	
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) YES

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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Containerized Solids Waste Acceptance Limits As Received [Refer to Attachment]

- 16a.. Are your containerized solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion BTU/lb	6000		R
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		3%	R
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content		5%	R
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify PCB		50 ppm	P
Total Specified Metals Content			
Antimony Content			
Arsenic Content		2000 ppm	P
Barium Content		10000 ppm	P
Beryllium Content			
Cadmium Content		200 ppm	P
Chromium Content		5000 ppm	P
Copper Content			
Lead Content		10000 ppm	P
Mercury Content		10 ppm	P
Nickel Content			
Selenium Content		200 ppm	P
Silver Content		1000 ppm	P
Thallium Content		1000 ppm	P
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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#### Containerized Solids Waste Acceptance Limits As Burned

- 16b. Are your containerized solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17a:

Yes

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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**Bulk Solids Waste Acceptance Limits As Received**

- 17a. Are your bulk solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17b: yes

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

## NOTICE

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (in addition to above)	Don't Know (S)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)	Y			
Personal Protection Equipment (e.g., Tyvek suits)	Y			
Paper or Cardboard Materials	N			
Filter Cartridges	N			
Wood Materials	N			
Rubber Objects (e.g., tires, hoses)	Y			
PVC Pipe	Y			
Other Plastic Debris	N			
Glass Debris	Y			
Ceramic Debris (e.g., semiconductors)	N			
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)	N			
Asbestos Materials (e.g., shingles, insulation)	N			
Non-Soil Geologic Material (e.g., rocks)	N			
Concrete Debris	N			
Refractory Brick	N			
Other Bricks	N			
Slag	N			
Intact Batteries	N			
Battery Cases	N	Y		
Electronic Components (e.g., printed circuit boards)	N			
Electrical Wires, Switches, etc.	N			

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20. Please explain any debris acceptance conditions noted on the previous page:

must be blended to meet fuel specification  
for solid or liquid fuel

- 20a. Do you accept soils? If so, under what conditions or limitations?

Yes, if E-7 is used

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X

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**C. Permit Conditions**

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

Refer to the attached RCRA Part A Application.

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

N/A

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

N/A

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

- NR - Permit Not Required (explain in note)
- FP - Fully Permitted to receive RCRA hazardous wastes
- PM - Preparing Permit Modification for Additional Wastes
- SA - Submitted Complete Application and Awaiting Response from Issuing Agency
- MA - Modifying Permit Application for Additional RCRA Wastes
- IS - Interim Status
- ND - Currently Responding to Notices of Deficiency in Application
- PH - Awaiting Public Hearing on Permit
- OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
Federal BIF	US EPA Region 7	IS	
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
State Hazardous Waste	Illinois Department of Natural Resources	IS	
Air Emission	EPA Region 5 Illinois Department of Natural Resources	FP	
Land Use/Siting			
Other (specify)			
Local Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

N/A

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26. When do you plan to submit a BIF Certification of Compliance (month and year)?

June 1982

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes

No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

a) When (month or quarter, and year):

---

b) Effect on hazardous waste capacity:

c) Modifications:

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X

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (S)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)	Y			
Personal Protection Equipment (e.g., Tyvek suits)	Y			
Paper or Cardboard Materials	Y			
Filter Cartridges	Y			
Wood Materials	Y			
Rubber Objects (e.g., tires, hoses)	Y			
PVC Pipe	Y			
Other Plastic Debris	Y			
Glass Debris	Y			
Ceramic Debris (e.g., semiconductors)	N			
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)	Y			
Asbestos Materials (e.g., shingles, insulation)	Y			
Non-Soil Geologic Material (e.g., rocks)	N			
Concrete Debris				
Refractory Brick	N			
Other Bricks	N			
Slag	N			
Intact Batteries	N			
Battery Cases	N	Y		
Electronic Components (e.g., printed circuit boards)	N			
Electrical Wires, Switches, etc.	N			

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For EPA Regional  
Use Only

For State  
Use Only



United States Environmental Protection Agency  
Washington, DC 20460

## Hazardous Waste Permit Application

### Part A

(Read the Instructions before starting)

I. ID Number(s)

A. EPA ID Number

K S D 0 3 1 2 0 3 3 1 8

B. Secondary ID Number (if applicable)

II. Name of Facility

A S H G R O V E C E M E N T P L A N T

III. Facility Location (Physical address not P.O. Box or Route Number)

A. Street

N O R T H S A N T A F E S T R E E T

Street (continued)

City or Town

State ZIP Code

C H A N U T E

K S 6 6 7 2 0 -

County Code  
(if known)

County Name

N E O S H O

B. Land Type

(enter code) C. Geographic Location

LATITUDE (degrees minutes & seconds)

LONGITUDE (degrees minutes & seconds)

D. Facility Existence Data

Month Day Year

IV. Facility Mailing Address

Street or P.O. Box

P O B O X 5 1 9

State ZIP Code

City or Town

C H A N U T E

K S 6 6 7 2 0 -

V. Facility Contact (Person to be contacted regarding waste activities at facility)

Name (last)

(first)

S H E A

J A M E S

Job Title

Phone Number (area code and number)

P L A N T M A N A G E R

3 1 6 - 4 3 1 - 4 5 0 0

VI. Facility Contact Address (See Instructions)

A. Contact Address  
Location Mailing

B. Street or P.O. Box

X

City or Town

State ZIP Code

0 8 5 9

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EPA I.D. Number (enter from page 1)										Secondary ID Number (enter from page 1)									
K	S	D	0	3	1	2	0	3	3	1	8								

XI. Nature of Business (provide a brief description)

Manufacturing of Portland cement by the wet process - involves:

- 1) Quarrying and crushing of limestone and acquisition of other raw materials;
  - 2) Grinding of raw materials with water to form a slurry;
  - 3) Pyroprocessing of the slurry in a rotary cement kiln to form Portland Cement clinker; and
  - 4) Grinding of clinker with gypsum to form Portland Cement.

## XII. Process - Codes and Design Capacities

- A. PROCESS CODE** - Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in Item XIII.

**B. PROCESS DESIGN CAPACITY** - For each code entered in column A, enter the capacity of the process.

  1. **AMOUNT** - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure enforcement action), enter the total amount of waste for that process unit.
  2. **UNIT OF MEASURE** - For each amount entered in column B(1), enter the code from the list of unit measure codes below. It describes the unit of measure used. Only the units of measure that are listed below should be used.

**C. PROCESS TOTAL NUMBER OF UNITS** - Enter the total number of units used with the corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	UNIT OF MEASURE	UNIT MEASI CO.
	<b>DISPOSAL:</b>			
D79	INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY	GALLONS .....	G
D80	LANDFILL	ACRE-FEET OR HECTARE-METER	GALLONS PER HOUR.....	E
D81	LAND APPLICATION	ACRES OR HECTARES	GALLONS PER DAY.....	U
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY	LITERS .....	I
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS	LITERS PER HOUR .....	H
	<b>STORAGE:</b>			
S01	CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS	LITERS PER DAY.....	I
S02	TANK	GALLONS OR LITERS	SHORT TONS PER HOUR.....	D
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS	METRIC TONS PER HOUR .....	M
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS	SHORT TONS PER DAY .....	N
	<b>TREATMENT:</b>			
TC1	TANK	GALLONS PER DAY OR LITERS PER DAY	METRIC TONS PER DAY.....	S
TC2	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY	POUNDS PER HOUR .....	J
TC3	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR.	KILOGRAMS PER HOUR .....	R
	<b>OTHER TREATMENT</b>			
TC4	(Use for physical, chemical, biological or biological treatments described in Item 10. Do not use for surface impoundments or incinerators. Describe the processes in the space provided in Item 10.)	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY	CUBIC YARDS .....	Y
			ACRES .....	B
			ACRE-FEET .....	A
			HECTARES .....	C
			NECTARE-METER .....	F
			BTU'S PER HOUR .....	K

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EPA I.D. Number (enter from page 1)								Secondary ID Number (enter from page 1)							
K	S	D	0	3	1	2	0	3	3	1	8				

**XIV. Description of Hazardous Wastes**

- A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazard waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit numbers from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	H

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

**D. PROCESSES**

**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

**NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:**

1. Enter the first two as described above.
2. Enter "000" in the extreme right box of Item XIV-D(1).
3. Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).

**2. PROCESS DESCRIPTION:** If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.2J).

**NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER -** Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Selections of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

**EXAMPLE FOR COMPLETING ITEM XIV** (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator, and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
X-1	K 0 3 4	900	P	T 0 3 D 8 0							
X-2	D 0 0 2	400	P	T 0 3 D 8 0							
X-3	D 0 0 1	100	P	T 0 3 D 8 0							
X-4	D 0 0 2										

Included With Above

0  
8  
6  
1

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For Type II C numbers see instructions on page 1 of this form.

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)										
K	S	D	O 3 1 2 0 3 3 1 8											
<b>XIV. Description of Hazardous Wastes (continued)</b>														
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						(2) PROCESS DESCRIPTION (If a code is not entered in				
				(1) PROCESS CODES (enter)						(2) PROCESS DESCRIPTION (If a code is not entered in				
1	D 0 3 6	2.0 x 10 <sup>8</sup>	P	S O 1 S 0 2 T 0 4	T 0 1									
2	D 0 3 7	" "	P	"	"	"	"	"	"	"	"	"	"	
3	D 0 3 8	" "	P	"	"	"	"	"	"	"	"	"	"	
4	D 0 3 9	" "	P	"	"	"	"	"	"	"	"	"	"	
5	D 0 4 0	" "	P	"	"	"	"	"	"	"	"	"	"	
6	D 0 4 1	" "	P	"	"	"	"	"	"	"	"	"	"	
7	D 0 4 2	" "	P	"	"	"	"	"	"	"	"	"	"	
8	D 0 4 3	" "	P	"	"	"	"	"	"	T 0 1				
9	F 0 0 1	5.0 x 10 <sup>8</sup>	P	"	"	"	"	"	"	"	"	"	"	
1 0	F 0 0 2	" "	P	"	"	"	"	"	"	"	"	"	"	
1 1	F 0 0 3	" "	P	"	"	"	"	"	"	"	"	"	"	
1 2	F 0 0 4	" "	P	"	"	"	"	"	"	"	"	"	"	
1 3	F 0 0 5	" "	P	"	"	"	"	"	"	"	"	"	"	
1 4	F 0 0 6	1.0 x 10 <sup>8</sup>	P	"	"	"	"	"	"	"	"	"	"	
1 5	F 0 0 7	" "	P	"	"	"	"	"	"	"	"	"	"	
1 6	F 0 0 8	" "	P	"	"	"	"	"	"	"	"	"	"	
1 7	F 0 0 9	" "	P	"	"	"	"	"	"	"	"	"	"	
1 8	F 0 1 0	" "	P	"	"	"	"	"	"	"	"	"	"	
1 9	F 0 1 1	" "	P	"	"	"	"	"	"	"	"	"	"	
2 0	F 0 1 2	" "	P	"	"	"	"	"	"	"	"	"	"	
2 1	F 0 1 9	" "	P	"	"	"	"	"	"	"	"	"	"	
2 2	F 0 2 4	" "	P	"	"	"	"	"	"	"	"	"	"	
2 3	F 0 2 5	" "	P	"	"	"	"	"	"	"	"	"	"	
2 4	F 0 2 8	" "	P	"	"	"	"	"	"	"	"	"	"	
2 5	F 0 3 4	" "	P	"	"	"	"	"	"	"	"	"	"	
2 6	F 0 3 5	" "	P	"	"	"	"	"	"	"	"	"	"	
2 7	F 0 3 7	" "	P	"	"	"	"	"	"	"	"	"	"	
2 8	F 0 3 8	" "	P	"	"	"	"	"	"	"	"	"	"	
2 9	F 0 3 9	" "	P	"	"	"	"	"	"	"	"	"	"	
3 0	K 0 0 1	" "	P	"	"	"	"	"	"	"	"	"	"	
3 1	K 0 0 2	" "	P	"	"	"	"	"	"	"	"	"	"	
3 2	K 0 0 3	" "	P	"	"	"	"	"	"	"	"	"	"	
3 3	K 0 0 4	1.0 x 10 <sup>8</sup>	P	S O 1 S 0 2 T 0 4										

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0 8 6 3

R	S	D	0	3	1	2	0	3	3	1	8
---	---	---	---	---	---	---	---	---	---	---	---

Secondary ID Number (enter from page 1)

## XIV Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (if code is not entered in D.1)				
1	K 0 0 5	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4
2	K 0 0 6	" "	P	"	"	"	"	"	"	"	"	"
3	K 0 0 7	" "	P	"	"	"	"	"	"	"	"	"
4	K 0 0 8	" "	P	"	"	"	"	"	"	"	"	"
5	K 0 0 9	" "	P	"	"	"	"	"	"	"	"	"
6	K 0 1 0	" "	P	"	"	"	"	"	"	"	"	"
7	K 0 1 1	" "	P	"	"	"	"	"	"	"	"	"
8	K 0 1 3	" "	P	"	"	"	"	"	"	"	"	"
9	K 0 1 4	" "	P	"	"	"	"	"	"	"	"	"
10	K 0 1 5	" "	P	"	"	"	"	"	"	"	"	"
11	K 0 1 6	" "	P	"	"	"	"	"	"	"	"	"
12	K 0 1 7	" "	P	"	"	"	"	"	"	"	"	"
13	K 0 1 8	" "	P	"	"	"	"	"	"	"	"	"
14	K 0 1 9	" "	P	"	"	"	"	"	"	"	"	"
15	K 0 2 0	" "	P	"	"	"	"	"	"	"	"	"
16	K 0 2 1	" "	P	"	"	"	"	"	"	"	"	"
17	K 0 2 2	" "	P	"	"	"	"	"	"	"	"	"
18	K 0 2 3	" "	P	"	"	"	"	"	"	"	"	"
19	K 0 2 4	" "	P	"	"	"	"	"	"	"	"	"
20	K 0 2 5	" "	P	"	"	"	"	"	"	"	"	"
21	K 0 2 6	" "	P	"	"	"	"	"	"	"	"	"
22	K 0 2 7	" "	P	"	"	"	"	"	"	"	"	"
23	K 0 2 8	" "	P	"	"	"	"	"	"	"	"	"
24	K 0 2 9	" "	P	"	"	"	"	"	"	"	"	"
25	K 0 3 0	" "	P	"	"	"	"	"	"	"	"	"
26	K 0 3 1	" "	P	"	"	"	"	"	"	"	"	"
27	K 0 3 2	" "	P	"	"	"	"	"	"	"	"	"
28	K 0 3 3	" "	P	"	"	"	"	"	"	"	"	"
29	K 0 3 4	" "	P	"	"	"	"	"	"	"	"	"
30	K 0 3 5	" "	P	"	"	"	"	"	"	"	"	"
31	K 0 3 6	" "	P	"	"	"	"	"	"	"	"	"
32	K 0 3 7	" "	P	"	"	"	"	"	"	"	"	"
33	K 0 3 8	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)								
K	S	D	0 3 1 2 0 3 3 1 8									
XIV. Description of Hazardous Wastes (continued)												
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in				
1	K 0 3 9	$1.0 \times 10^8$	P	S	O	I	S	0	2	T	0	4
2	K 0 4 0	" "	P	"	"	"	"	"	"	"	"	"
3	K 0 4 1	" "	P	"	"	"	"	"	"	"	"	"
4	K 0 4 2	" "	P	"	"	"	"	"	"	"	"	"
5	K 0 4 3	" "	P	"	"	"	"	"	"	"	"	"
6	K 0 4 4	" "	P	"	"	"	"	"	"	"	"	"
7	K 0 4 5	" "	P	"	"	"	"	"	"	"	"	"
8	K 0 4 6	" "	P	"	"	"	"	"	"	"	"	"
9	K 0 4 7	" "	P	"	"	"	"	"	"	"	"	"
10	K 0 4 8	$2.0 \times 10^8$	P	"	"	"	"	"	"	"	"	"
11	K 0 4 9	" "	P	"	"	"	"	"	"	"	"	"
12	K 0 5 0	" "	P	"	"	"	"	"	"	"	"	"
13	K 0 5 1	" "	P	"	"	"	"	"	"	"	"	"
14	K 0 5 2	" "	P	"	"	"	"	"	"	"	"	"
15	K 0 6 0	$1.0 \times 10^8$	P	"	"	"	"	"	"	"	"	"
16	K 0 6 1	" "	P	"	"	"	"	"	"	"	"	"
17	K 0 6 2	" "	P	"	"	"	"	"	"	"	"	"
18	K 0 6 4	" "	P	"	"	"	"	"	"	"	"	"
19	K 0 6 5	" "	P	"	"	"	"	"	"	"	"	"
20	K 0 6 6	" "	P	"	"	"	"	"	"	"	"	"
21	K 0 7 1	" "	P	"	"	"	"	"	"	"	"	"
22	K 0 7 3	" "	P	"	"	"	"	"	"	"	"	"
23	K 0 8 3	" "	P	"	"	"	"	"	"	"	"	"
24	K 0 8 4	" "	P	"	"	"	"	"	"	"	"	"
25	K 0 8 5	" "	P	"	"	"	"	"	"	"	"	"
26	K 0 8 6	" "	P	"	"	"	"	"	"	"	"	"
27	K 0 8 7	" "	P	"	"	"	"	"	"	"	"	"
28	K 0 8 8	" "	P	"	"	"	"	"	"	"	"	"
29	K 0 9 0	" "	P	"	"	"	"	"	"	"	"	"
30	K 0 9 1	" "	P	"	"	"	"	"	"	"	"	"
31	K 0 9 2	" "	P	"	"	"	"	"	"	"	"	"
32	K 0 9 4	" "	P	"	"	"	"	"	"	"	"	"
33	K 0 9 5	$0 \times 10^8$	P	S	O	I	S	0	2	T	0	4

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EPA ID Number (enter from page 1)

Secondary ID Number (enter from page 1)

K S D 0 1 3 1 2 2 0 3 3 1 a

XIV Description of Hazardous Wastes (continued)

Line Number	A/EPA HAZARDOUS WASTE NO. (enter code)	B ESTIMATE ANNUAL QUANTITY OF WASTE	C UNIT OF MEASURE (enter code)	D PROCESSES			
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (6 code's entered - 0-9)	(3)	(4)
1	K 0 9 6	1.0 x 10 <sup>5</sup>	P	S 0 1 S 0 2 T 0 4			
2	K 0 9 7	" "	P	" " " "			
3	K 0 9 8	" "	P	" " " "			
4	K 0 9 9	" "	P	" " " "			
5	K 1 0 0	" "	P	" " " "			
6	K 1 0 1	" "	P	" " " "			
7	K 1 0 2	" "	P	" " " "			
8	K 1 0 3	" "	P	" " " "			
9	K 1 0 4	" "	P	" " " "			
10	K 1 0 5	" "	P	" " " "			
11	K 1 0 6	" "	P	" " " "			
12	K 1 1 1	" "	P	" " " "			
13	K 1 1 2	" "	P	" " " "			
14	K 1 1 3	" "	P	" " " "			
15	K 1 1 4	" "	P	" " " "			
16	K 1 1 5	" "	P	" " " "			
17	K 1 1 6	" "	P	" " " "			
18	K 1 1 7	" "	P	" " " "			
19	K 1 1 8	" "	P	" " " "			
20	K 1 2 3	" "	P	" " " "			
21	K 1 2 4	" "	P	" " " "			
22	K 1 2 5	" "	P	" " " "			
23	K 1 2 6	" "	P	" " " "			
24	K 1 3 1	" "	P	" " " "			
25	K 1 3 2	" "	P	" " " "			
26	K 1 3 6	" "	P	" " " "			
27	P 0 0 1	" "	P	" " " "			
28	P 0 0 2	" "	P	" " " "			
29	P 0 0 3	" "	P	" " " "			
30	P 0 0 4	" "	P	" " " "			
31	P 0 0 5	" "	P	" " " "			
32	P 0 0 6	" "	P	" " " "			
33	P 0 0 7	1.0 x 10 <sup>5</sup>	P	S 0 1 S 0 2 T 0 4			

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EPA I.D. Number (enter from page 3)				Secondary ID Number (enter from page 3)								
K	S	D	0 3 1 2 0 3 3 1 8									
XIV. Description of Hazardous Wastes (continued)												
Line Number	A EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in row 4)				
1 P 0 0 8	1.0 x 10 <sup>8</sup>	P	S	D	O	I	S	O	Z	T	0	4
2 P 0 0 9	" "	P		"	"	"	"	"	"	"	"	
3 P 0 1 0	" "	P		"	"	"	"	"	"	"	"	
4 P 0 1 1	" "	P		"	"	"	"	"	"	"	"	
5 P 0 1 2	" "	P		"	"	"	"	"	"	"	"	
6 P 0 1 3	" "	P		"	"	"	"	"	"	"	"	
7 P 0 1 4	" "	P		"	"	"	"	"	"	"	"	
8 P 0 1 5	" "	P		"	"	"	"	"	"	"	"	
9 P 0 1 6	" "	P		"	"	"	"	"	"	"	"	
10 P 0 1 7	" "	P		"	"	"	"	"	"	"	"	
11 P 0 1 8	" "	P		"	"	"	"	"	"	"	"	
12 P 0 2 0	" "	P		"	"	"	"	"	"	"	"	
13 P 0 2 1	" "	P		"	"	"	"	"	"	"	"	
14 P 0 2 2	" "	P		"	"	"	"	"	"	"	"	
15 P 0 2 3	" "	P		"	"	"	"	"	"	"	"	
16 P 0 2 4	" "	P		"	"	"	"	"	"	"	"	
17 P 0 2 6	" "	P		"	"	"	"	"	"	"	"	
18 P 0 2 7	" "	P		"	"	"	"	"	"	"	"	
19 P 0 2 8	" "	P		"	"	"	"	"	"	"	"	
20 P 0 2 9	" "	P		"	"	"	"	"	"	"	"	
21 P 0 3 0	" "	P		"	"	"	"	"	"	"	"	
22 P 0 3 1	" "	P		"	"	"	"	"	"	"	"	
23 P 0 3 3	" "	P		"	"	"	"	"	"	"	"	
24 P 0 3 4	" "	P		"	"	"	"	"	"	"	"	
25 P 0 3 6	" "	P		"	"	"	"	"	"	"	"	
26 P 0 3 7	" "	P		"	"	"	"	"	"	"	"	
27 P 0 3 8	" "	P		"	"	"	"	"	"	"	"	
28 P 0 3 9	" "	P		"	"	"	"	"	"	"	"	
29 P 0 4 0	" "	P		"	"	"	"	"	"	"	"	
30 P 0 4 1	" "	P		"	"	"	"	"	"	"	"	
31 P 0 4 2	" "	P		"	"	"	"	"	"	"	"	
32 P 0 4 3	" "	P		"	"	"	"	"	"	"	"	
33 P 0 4 4	1.0 x 10 <sup>6</sup>	P	S	D	O	I	S	O	Z	T	0	4

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EPA ID Number (enter from page 1)  
 K S D 0 3 1 2 0 3 3 1 8

Secondary ID Number (enter from page 1)

## XIV Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (Process is noted in C(1))			
1	P 0 4 5	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4					
2	P 0 4 6	" "	P	"	"	"	"				
3	P 0 4 7	" "	P	"	"	"	"				
4	P 0 4 8	" "	P	"	"	"	"				
5	P 0 4 9	" "	P	"	"	"	"				
6	P 0 5 0	" "	P	"	"	"	"				
7	P 0 5 1	" "	P	"	"	"	"				
8	P 0 5 4	" "	P	"	"	"	"				
9	P 0 5 7	" "	P	"	"	"	"				
10	P 0 5 8	" "	P	"	"	"	"				
11	P 0 5 9	" "	P	"	"	"	"				
12	P 0 6 0	" "	P	"	"	"	"				
13	P 0 6 2	" "	P	"	"	"	"				
14	P 0 6 3	" "	P	"	"	"	"				
15	P 0 6 4	" "	P	"	"	"	"				
16	P 0 6 5	" "	P	"	"	"	"				
17	P 0 6 6	" "	P	"	"	"	"				
18	P 0 6 7	" "	P	"	"	"	"				
19	P 0 6 8	" "	P	"	"	"	"				
20	P 0 6 9	" "	P	"	"	"	"				
21	P 0 7 0	" "	P	"	"	"	"				
22	P 0 7 1	" "	P	"	"	"	"				
23	P 0 7 2	" "	P	"	"	"	"				
24	P 0 7 3	" "	P	"	"	"	"				
25	P 0 7 4	" "	P	"	"	"	"				
26	P 0 7 5	" "	P	"	"	"	"				
27	P 0 7 6	" "	P	"	"	"	"				
28	P 0 7 7	" "	P	"	"	"	"				
29	P 0 7 8	" "	P	"	"	"	"				
30	P 0 8 1	" "	P	"	"	"	"				
31	P 0 8 2	" "	P	"	"	"	"				
32	P 0 8 4	" "	P	"	"	"	"				
33	P 0 8 5	1.0 x 10 <sup>6</sup>	P	S 0 1	S 0 2	T 0 4					

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(Enter page 1 &amp; 2 characters &amp; document in the instructed areas only)

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 2)							
K	S	D	O 3 1 2 0 3 3 1 8								
<b>XIV. Description of Hazardous Wastes (continued)</b>											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						(R) PROCESS DESCRIPTIVE (If code is not entered in L)	
				(I) PROCESS CODES (enter)			(J) PROCESS CODES (enter)				
1	P 0 8 7	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4					
2	P 0 8 8	" "	P	" "	" "	" "					
3	P 0 8 9	" "	P	" "	" "	" "					
4	P 0 9 2	" "	P	" "	" "	" "					
5	P 0 9 3	" "	P	" "	" "	" "					
6	P 0 9 4	" "	P	" "	" "	" "					
7	P 0 9 5	" "	P	" "	" "	" "					
8	P 0 9 6	" "	P	" "	" "	" "					
9	P 0 9 7	" "	P	" "	" "	" "					
10	P 0 9 8	" "	P	" "	" "	" "					
11	P 0 9 9	" "	P	" "	" "	" "					
12	P 1 0 1	" "	P	" "	" "	" "					
13	P 1 0 2	" "	P	" "	" "	" "					
14	P 1 0 3	" "	P	" "	" "	" "					
15	P 1 0 4	" "	P	" "	" "	" "					
16	P 1 0 5	" "	P	" "	" "	" "					
17	P 1 0 6	" "	P	" "	" "	" "					
18	P 1 0 7	" "	P	" "	" "	" "					
19	P 1 0 8	" "	P	" "	" "	" "					
20	P 1 0 9	" "	P	" "	" "	" "					
21	P 1 1 0	" "	P	" "	" "	" "					
22	P 1 1 1	" "	P	" "	" "	" "					
23	P 1 1 2	" "	P	" "	" "	" "					
24	P 1 1 3	" "	P	" "	" "	" "					
25	P 1 1 4	" "	P	" "	" "	" "					
26	P 1 1 5	" "	P	" "	" "	" "					
27	P 1 1 6	" "	P	" "	" "	" "					
28	P 1 1 8	" "	P	" "	" "	" "					
29	P 1 1 9	" "	P	" "	" "	" "					
30	P 1 2 0	" "	P	" "	" "	" "					
31	P 1 2 1	" "	P	" "	" "	" "					
32	P 1 2 2	" "	P	" "	" "	" "					
33	P 1 2 3	1.0 x 10 <sup>8</sup>	P S 0 1	S 0 2	T 0 4						

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Form E-200-10, Reference 200-10, Revision D, March 1980

EPA ID Number (enter from page 1)

Secondary ID Number (enter from page 1)

K S D 0 3 1 2 0 3 3 1 8

XIV. Description of Hazardous Wastes (continued)

Line Number	A EPA HAZARDOUS WASTE NO. (enter code)	B ESTIMATED ANNUAL QUANTITY OF WASTE	C UNIT OF MEASURE (enter code)	D PROCESSES				
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in C, enter)			
1	U 0 0	1.0 x 10 <sup>8</sup>	P	S 0 1 S 0 2 T 0 4				
2	U 0 0 2	" "	P	" " "	" "	" "	" "	" "
3	U 0 0 3	" "	P	" " "	" "	" "	" "	" "
4	U 0 0 4	" "	P	" " "	" "	" "	" "	" "
5	U 0 0 5	" "	P	" " "	" "	" "	" "	" "
6	U 0 0 6	" "	P	" " "	" "	" "	" "	" "
7	U 0 0 7	" "	P	" " "	" "	" "	" "	" "
8	U 0 0 8	" "	P	" " "	" "	" "	" "	" "
9	U 0 0 9	" "	P	" " "	" "	" "	" "	" "
10	U 0 1 0	" "	P	" " "	" "	" "	" "	" "
11	U 0 1 1	" "	P	" " "	" "	" "	" "	" "
12	U 0 1 2	" "	P	" " "	" "	" "	" "	" "
13	U 0 1 4	" "	P	" " "	" "	" "	" "	" "
14	U 0 1 5	" "	P	" " "	" "	" "	" "	" "
15	U 0 1 6	" "	P	" " "	" "	" "	" "	" "
16	U 0 1 7	" "	P	" " "	" "	" "	" "	" "
17	U 0 1 8	" "	P	" " "	" "	" "	" "	" "
18	U 0 1 9	" "	P	" " "	" "	" "	" "	" "
19	U 0 2 0	" "	P	" " "	" "	" "	" "	" "
20	U 0 2 1	" "	P	" " "	" "	" "	" "	" "
21	U 0 2 2	" "	P	" " "	" "	" "	" "	" "
22	U 0 2 3	" "	P	" " "	" "	" "	" "	" "
23	U 0 2 4	" "	P	" " "	" "	" "	" "	" "
24	U 0 2 5	" "	P	" " "	" "	" "	" "	" "
25	U 0 2 6	" "	P	" " "	" "	" "	" "	" "
26	U 0 2 7	" "	P	" " "	" "	" "	" "	" "
27	U 0 2 8	" "	P	" " "	" "	" "	" "	" "
28	U 0 2 9	" "	P	" " "	" "	" "	" "	" "
29	U 0 3 0	" "	P	" " "	" "	" "	" "	" "
30	U 0 3 1	" "	P	" " "	" "	" "	" "	" "
31	U 0 3 2	" "	P	" " "	" "	" "	" "	" "
32	U 0 3 3	" "	P	" " "	" "	" "	" "	" "
33	U 0 3 4	1.0 x 10 <sup>8</sup>	P	S 0 1 S 0 2 T 0 4				

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Please enter the first 12 characters of document in the unmasking areas on page 1.

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EPA ID Number (enter from page 1)					Secondary ID Number (enter from page 1)				
K	S	D	0	3	1	2	0	3	3
									1
									8
<b>XIV. Description of Hazardous Wastes (continued)</b>									
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES					(2) PROCESS DESCRIPTION (if a code is not entered in D1)
				(1) PROCESS CODES (enter)					
1	U 0 3 5	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0	T 0	4	
2	U 0 3 6	" "	P	"	"	"	"	"	
3	U 0 3 7	" "	P	"	"	"	"	"	
4	U 0 3 8	" "	P	"	"	"	"	"	
5	U 0 3 9	" "	P	"	"	"	"	"	
6	U 0 4 1	" "	P	"	"	"	"	"	
7	U 0 4 2	" "	P	"	"	"	"	"	
8	U 0 4 3	" "	P	"	"	"	"	"	
9	U 0 4 4	" "	P	"	"	"	"	"	
10	U 0 4 5	" "	P	"	"	"	"	"	
11	U 0 4 6	" "	P	"	"	"	"	"	
12	U 0 4 7	" "	P	"	"	"	"	"	
13	U 0 4 8	" "	P	"	"	"	"	"	
14	U 0 4 9	" "	P	"	"	"	"	"	
15	U 0 5 0	" "	P	"	"	"	"	"	
16	U 0 5 1	" "	P	"	"	"	"	"	
17	U 0 5 2	" "	P	"	"	"	"	"	
18	U 0 5 3	" "	P	"	"	"	"	"	
19	U 0 5 5	" "	P	"	"	"	"	"	
20	U 0 5 6	" "	P	"	"	"	"	"	
21	U 0 5 7	" "	P	"	"	"	"	"	
22	U 0 5 8	" "	P	"	"	"	"	"	
23	U 0 5 9	" "	P	"	"	"	"	"	
24	U 0 6 0	" "	P	"	"	"	"	"	
25	U 0 6 1	" "	P	"	"	"	"	"	
26	U 0 6 2	" "	P	"	"	"	"	"	
27	U 0 6 3	" "	P	"	"	"	"	"	
28	U 0 6 4	" "	P	"	"	"	"	"	
29	U 0 6 5	" "	P	"	"	"	"	"	
30	U 0 6 6	" "	P	"	"	"	"	"	
31	U 0 6 7	" "	P	"	"	"	"	"	
32	U 0 6 8	" "	P	"	"	"	"	"	
33	U 0 6 9	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0	T 0	4	

Please enter all data in the order shown below in the order of columns.

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EPAID Number (enter from page 1)

Secondary ID Number (enter from page 1)

XIV. Description of Hazardous Wastes (continued).

Line Number	A) EPA HAZARDOUS WASTE NO. (enter code)	B) ESTIMATED ANNUAL QUANTITY OF WASTE	C) UNIT OF MEASURE (enter code)	D) PROCESSES								
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTION (if code is noted in column 1)					
1	U 0 7 0	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4
2	U 0 7 1	" "	P	"	"	"	"	"	"	"	"	
3	U 0 7 2	" "	P	"	"	"	"	"	"	"	"	
4	U 0 7 3	" "	P	"	"	"	"	"	"	"	"	
5	U 0 7 4	" "	P	"	"	"	"	"	"	"	"	
6	U 0 7 5	" "	P	"	"	"	"	"	"	"	"	
7	U 0 7 6	" "	P	"	"	"	"	"	"	"	"	
8	U 0 7 7	" "	P	"	"	"	"	"	"	"	"	
9	U 0 7 8	" "	P	"	"	"	"	"	"	"	"	
10	U 0 7 9	" "	P	"	"	"	"	"	"	"	"	
11	U 0 8 0	" "	P	"	"	"	"	"	"	"	"	
12	U 0 8 1	" "	P	"	"	"	"	"	"	"	"	
13	U 0 8 2	" "	P	"	"	"	"	"	"	"	"	
14	U 0 8 3	" "	P	"	"	"	"	"	"	"	"	
15	U 0 8 4	" "	P	"	"	"	"	"	"	"	"	
16	U 0 8 5	" "	P	"	"	"	"	"	"	"	"	
17	U 0 8 6	" "	P	"	"	"	"	"	"	"	"	
18	U 0 8 7	" "	P	"	"	"	"	"	"	"	"	
19	U 0 8 8	" "	P	"	"	"	"	"	"	"	"	
20	U 0 8 9	" "	P	"	"	"	"	"	"	"	"	
21	U 0 9 0	" "	P	"	"	"	"	"	"	"	"	
22	U 0 9 1	" "	P	"	"	"	"	"	"	"	"	
23	U 0 9 2	" "	P	"	"	"	"	"	"	"	"	
24	U 0 9 3	" "	P	"	"	"	"	"	"	"	"	
25	U 0 9 4	" "	P	"	"	"	"	"	"	"	"	
26	U 0 9 5	" "	P	"	"	"	"	"	"	"	"	
27	U 0 9 6	" "	P	"	"	"	"	"	"	"	"	
28	U 0 9 7	" "	P	"	"	"	"	"	"	"	"	
29	U 0 9 8	" "	P	"	"	"	"	"	"	"	"	
30	U 0 9 9	" "	P	"	"	"	"	"	"	"	"	
31	U 1 0 1	" "	P	"	"	"	"	"	"	"	"	
32	U 1 0 2	" "	P	"	"	"	"	"	"	"	"	
33	U 1 0 3	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	1	T	0	6

0000F0046 - 12 characters per row in fields 1-12 &amp; 14-15 only

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)							
K	S	D	0 3 1 2 0 3 3 1 8								
<b>XIV: Description of Hazardous Wastes (continued)</b>											
Line Number	A EPA HAZARDOUS WASTE ID. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTIC (if a code is not entered in C)			
1	U 1 0 5	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4					
2	U 1 0 6	" "	P	"	"	"					
3	U 1 0 7	" "	P	"	"	"					
4	U 1 0 8	" "	P	"	"	"					
5	U 1 0 9	" "	P	"	"	"					
6	U 1 1 0	" "	P	"	"	"					
7	U 1 1 1	" "	P	"	"	"					
8	U 1 1 2	" "	P	"	"	"					
9	U 1 1 3	" "	P	"	"	"					
10	U 1 1 4	" "	P	"	"	"					
11	U 1 1 5	" "	P	"	"	"					
12	U 1 1 6	" "	P	"	"	"					
13	U 1 1 7	" "	P	"	"	"					
14	U 1 1 8	" "	P	"	"	"					
15	U 1 1 9	" "	P	"	"	"					
16	U 1 2 0	" "	P	"	"	"					
17	U 1 2 1	" "	P	"	"	"					
18	U 1 2 2	" "	P	"	"	"					
19	U 1 2 3	" "	P	"	"	"					
20	U 1 2 4	" "	P	"	"	"					
21	U 1 2 5	" "	P	"	"	"					
22	U 1 2 6	" "	P	"	"	"					
23	U 1 2 7	" "	P	"	"	"					
24	U 1 2 8	" "	P	"	"	"					
25	U 1 2 9	" "	P	"	"	"					
26	U 1 3 0	" "	P	"	"	"					
27	U 1 3 1	" "	P	"	"	"					
28	U 1 3 2	" "	P	"	"	"					
29	U 1 3 3	" "	P	"	"	"					
30	U 1 3 4	" "	P	"	"	"					
31	U 1 3 5	" "	P	"	"	"					
32	U 1 3 6	" "	P	"	"	"					
33	U 1 3 7	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4					

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Please enter the following information on page 1:

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EPA ID Number (enter from page 1)

Secondary ID Number (enter from page 1)

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTION (if a code is not entered in C.1)			
1	U 1 3 9	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4				
2	U 1 4 0	" "	P	"	"	"				
3	U 1 4 1	" "	P	"	"	"				
4	U 1 4 2	" "	P	"	"	"				
5	U 1 4 3	" "	P	"	"	"				
6	U 1 4 4	" "	P	"	"	"				
7	U 1 4 5	" "	P	"	"	"				
8	U 1 4 6	" "	P	"	"	"				
9	U 1 4 7	" "	P	"	"	"				
10	U 1 4 8	" "	P	"	"	"				
11	U 1 4 9	" "	P	"	"	"				
12	U 1 5 0	" "	P	"	"	"				
13	U 1 5 1	" "	P	"	"	"				
14	U 1 5 2	" "	P	"	"	"				
15	U 1 5 3	" "	P	"	"	"				
16	U 1 5 4	" "	P	"	"	"				
17	U 1 5 5	" "	P	"	"	"				
18	U 1 5 6	" "	P	"	"	"				
19	U 1 5 7	" "	P	"	"	"				
20	U 1 5 8	" "	P	"	"	"				
21	U 1 5 9	" "	P	"	"	"				
22	U 1 6 0	" "	P	"	"	"				
23	U 1 6 1	" "	P	"	"	"				
24	U 1 6 2	" "	P	"	"	"				
25	U 1 6 3	" "	P	"	"	"				
26	U 1 6 4	" "	P	"	"	"				
27	U 1 6 5	" "	P	"	"	"				
28	U 1 6 6	" "	P	"	"	"				
29	U 1 6 7	" "	P	"	"	"				
30	U 1 6 8	" "	P	"	"	"				
31	U 1 6 9	" "	P	"	"	"				
32	U 1 7 0	" "	P	"	"	"				
33	U 1 7 1	1.0 x 10 <sup>9</sup>	P	S 0 1	S 0 2	T 0 4				

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Please enter information in the first 12 characters per line in the standard 6x8 grid.

EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 2)								
K	S	D	0 3 1 2 0 3 3 1 8									
XIV. Description of Hazardous Wastes (continued)												
Line Number	A EPA HAZARDOUS WASTE ID# (enter code)	B ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D1)				
1	U 1 7 2	1.0 x 10 <sup>3</sup>	P	S	0	1	5	0	2	T	0	4
2	U 1 7 3	" "	P									
3	U 1 7 4	" "	P									
4	U 1 7 6	" "	P									
5	U 1 7 7	" "	P									
6	U 1 7 8	" "	P									
7	U 1 7 9	" "	P									
8	U 1 8 0	" "	P									
9	U 1 8 1	" "	P									
10	U 1 8 2	" "	P									
11	U 1 8 3	" "	P									
12	U 1 8 4	" "	P									
13	U 1 8 5	" "	P									
14	U 1 8 6	" "	P									
15	U 1 8 7	" "	P									
16	U 1 8 8	" "	P									
17	U 1 8 9	" "	P									
18	U 1 9 0	" "	P									
19	U 1 9 1	" "	P									
20	U 1 9 2	" "	P									
21	U 1 9 3	" "	P									
22	U 1 9 4	" "	P									
23	U 1 9 6	" "	P									
24	U 1 9 7	" "	P									
25	U 2 0 0	" "	P									
26	U 2 0 1	" "	P									
27	U 2 0 2	" "	P									
28	U 2 0 3	" "	P									
29	U 2 0 4	" "	P									
30	U 2 0 5	" "	P									
31	U 2 0 6	" "	P									
32	U 2 0 7	" "	P									
33	U 2 0 8	1.0 x 10 <sup>3</sup>	P	S	0	1	5	0	2	T	0	4

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EPA ID Number (enter from page 1)	K-S-D-O 3 1 2 0 3 3 1 8
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Secondary ID Number (enter from page 1)

## XIV Description of Hazardous Wastes (continued)

Line Number	A EPA HAZARDOUS WASTE NO (enter code)	B ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (Process codes listed in C)			
1	U 2 0 9	1.0 x 10 <sup>5</sup>	P	S	0	1	5	0	2	T	0 4
2	U 2 1 0	" "	P	"	"	"	"	"	"	"	"
3	U 2 1 1	" "	P	"	"	"	"	"	"	"	"
4	U 2 1 3	" "	P	"	"	"	"	"	"	"	"
5	U 2 1 4	" "	P	"	"	"	"	"	"	"	"
6	U 2 1 5	" "	P	"	"	"	"	"	"	"	"
7	U 2 1 6	" "	P	"	"	"	"	"	"	"	"
8	U 2 1 7	" "	P	"	"	"	"	"	"	"	"
9	U 2 1 8	" "	P	"	"	"	"	"	"	"	"
10	U 2 1 9	" "	P	"	"	"	"	"	"	"	"
11	U 2 2 0	" "	P	"	"	"	"	"	"	"	"
12	U 2 2 1	" "	P	"	"	"	"	"	"	"	"
13	U 2 2 2	" "	P	"	"	"	"	"	"	"	"
14	U 2 2 3	" "	P	"	"	"	"	"	"	"	"
15	U 2 2 5	" "	P	"	"	"	"	"	"	"	"
16	U 2 2 6	" "	P	"	"	"	"	"	"	"	"
17	U 2 2 7	" "	P	"	"	"	"	"	"	"	"
18	U 2 2 8	" "	P	"	"	"	"	"	"	"	"
19	U 2 3 4	" "	P	"	"	"	"	"	"	"	"
20	U 2 3 5	" "	P	"	"	"	"	"	"	"	"
21	U 2 3 6	" "	P	"	"	"	"	"	"	"	"
22	U 2 3 7	" "	P	"	"	"	"	"	"	"	"
23	U 2 3 8	" "	P	"	"	"	"	"	"	"	"
24	U 2 3 9	" "	P	"	"	"	"	"	"	"	"
25	U 2 4 0	" "	P	"	"	"	"	"	"	"	"
26	U 2 4 3	" "	P	"	"	"	"	"	"	"	"
27	U 2 4 4	" "	P	"	"	"	"	"	"	"	"
28	U 2 4 6	" "	P	"	"	"	"	"	"	"	"
29	U 2 4 7	" "	P	"	"	"	"	"	"	"	"
30	U 2 4 8	" "	P	"	"	"	"	"	"	"	"
31	U 2 4 9	" "	P	"	"	"	"	"	"	"	"
32	U 3 2 8	" "	P	"	"	"	"	"	"	"	"
33	U 3 5 3	1.0 x 10 <sup>5</sup>	P	S	0	1	5	0	2	T	0 4

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Form 8700-23 (01-90) 12 characters per line, no spaces or hyphens.

EPA ID Number (enter from page 1)						Secondary ID Number (enter from page 2)													
K	S	D	0	3	1	2	0	3	3	1	8								
XIV. Description of Hazardous Wastes (continued)																			
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in								
				S	O	I	S	O	2		T	0	4						
1	U	3	5	9	1.0 x 10 <sup>6</sup>	P													
2																			
3																			
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Please enter the type in EU/ECE code (12 characters per row), in the untagged areas only.

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EPA I.D. Number (enter from page 1)

**Secondary ID Number (enter from page 1)**

#### XIV. Description of Hazardous Waste (continued)

**USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM 8/10 ON PAGE 8**

xv. Map

**Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.**

## XVI. Facility Drawings

All existing facilities must include a scale drawing of the facility. See Instructions for more details.

xvii Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see Instructions for more detail).

**XVIII. Certification(s)**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my Inquiry of those Individuals immediately responsible for obtaining the information, I believe that the submitted Information Is true, accurate, and complete. I am aware that there are significant penalties for submitting false Information, including the possibility of fine and imprisonment.

Owner Signature

Date Specified

Name and Original Title (if applicable)

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XIX. Compendia

Note: Mail completed form to the appropriate EPA Regional or State Office. (Refer to Instructions for more information.)

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A. Facility Information

1. Respondent Name and Title:

ERIC HANSEN VICE PRESIDENT AND TECHNICAL DIRECTOR

Company:

ASH GROVE CEMENT CO

Phone number:

913 451 8900

2. Name and address of company that owns the cement kilns at this facility:

ASH GROVE CEMENT COMPANY

89102 Indiana Creek Parkway, Cimarron Park, KS 66235

Facility name, location, and address:

ASH GROVE FARMER CEMENT PLANT

Highway 13 West Farmer AR 71836

EPA ID of burner:

ARD421512270

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):

Same as above

EPA ID of on-site processor:

N/A

EPA ID of other on-site hazardous waste transporter:

N/A

marketer:

N/A

storer:

N/A

3. Number of kilns currently burning hazardous wastes at this facility:

Additional kilns expected to burn hazardous wastes by July 1994:

0

Kilns at this facility not expected to burn hazardous wastes by July 1994:

0

Total Number of kilns at this facility (should be total of above):

0

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive:

Liquids

Percent received from off-site processors (excluding generators): 100

Processor 1 Petro-Chem Precision Inc. 312-24-5424

Processor 2 Fibraltar Chemical Resources Inc. 903-877-3227

Processor 3 Lawlaw Environmental Services Inc. 318-783-2624

Processor 4 Rineco Chemical Industries 501-778-9089

Pumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): 100

Processor 1 Rineco Chemical Industries 501-778-9084

Processor 2 Lawlaw Environmental Services Inc. 318-783-2624

Processor 3 OHM Corporation 404-361-6181

Processor 4 Fibraltar Chemical Resources Inc. 903-877-3227

Bulk Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

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B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

Roll-Off Bin  
 Steel Drum, specify sizes: 5 - 6.5 gal.  
 Poly Drum, specify sizes: 5 - 7.5 gal.  
Fiber Drum, specify sizes:  
 Bag or other flexible container, specify sizes: 8 - 15 gal.  
Rigid Tote  
 Tanker Trucks (transferred to tank)  
Tanker Trucks (direct feed to kiln)  
 Rail car  
Carboy  
 Pallet  
 Other, specify: \_\_\_\_\_

- 6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers	60,000 gal.	120,000 gal.	1992
Liquid Tanks	60,000 gal.	60,000 gal.	1992
Other (specify)			

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6b. What processing operations do you perform on-site for liquid wastes?

None

6c. What processing operations do you perform on-site for solid wastes?

None

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	31,116	None	103,680	T
Pumpable Sludges	Received in containers			
Nonpumpable Sludges	Received in containers			
Containerized Solids	10,619	None	66,816	P
Bulk Solids				
Dry Solids	Received in containers			
Total	41,735		170,496	

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Kiln Number: 1 of 3

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: Wet process rotary cement kiln

Clinker capacity (tons/hr): 36 TPH

Thermal input (Btu/ton clinker): 260 mm BTU/Hr

Type of cement product(s) produced in this kiln: Portland Cement

Total hours operating per year on average: 7,800

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end:   

Containerized solids charged to calcining zone: X

Sludge Pump:   

Other: (specify)   

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Kiln Number: 1 of 3

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R); a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	10,372	34560	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids	3,540	22272	P
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 30 (%)  
Percent of above solids originally generated as solids: NRA (%)

NRA = Not readily available

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Kiln Number: 1 of 3

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	*Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	8,000	24	360	11,000	33%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids	6400	24	290		15%
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

\* Feed RATE of pumpable. LIMITER TO 8000 #/hr when

All three kilns are running. THE limit is increased to 16,000 #/hr when only two kilns are running AND to 22,000 #/hr when only one kiln is running. Therefore, the DAYS feeding waste is increased to 360 since if this kiln was not running, Another kiln would be burning the waste.

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Kiln Number: 1 of 3

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? January or February

How long? 2 weeks, only 1 kiln out of three are shut down at a time. Same capacity since remaining

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter): N/A

b) Physical changes (include planned schedule):

c) Regulatory modifications (include planned schedule):

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**SUPPLEMENTAL QUESTION SET  
FOR ADDITIONAL KILNS**

Kiln #2

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Kiln Number: 2 of 3  
This supplemental question set should be completed for each additional kiln currently  
burning hazardous waste or that you expect to burn hazardous waste by July, 1994.  
(Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 2

Type of Kiln: wet process rotary cement kiln

Clinker capacity (tons/hr): 36 TPH

Thermal input (Btu/ton clinker): 260 MM BTU/Hr

Type of cement product(s) produced in this kiln: Portland cement

Total hours operating per year on average: 7,900

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end:

Containerized solids charged to calcining zone: X

Sludge Pump:

Other: (specify)

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Kiln Number: 2 of 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	10,372	34,560	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids	3,540	22,272	P
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 30 (%)  
Percent of solids originally generated as solids: 1.6P (%)

N.E.P. Not easily available.

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Kiln Number: 1 of 3

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate. (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	8,000	24	* 365	11,000	33%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids	6400	24	290	8,000	15%
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

\* see note on page 8

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Kiln Number: 2 of 3

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? January or February

How long? 2 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter): N/A

b) Physical changes (include planned schedule):

c) Regulatory modifications (include planned schedule):

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**SUPPLEMENTAL QUESTION SET  
FOR ADDITIONAL KILNS**

K.I.N. #3

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Kiln Number: 3 of 3

This supplemental question set should be completed for each additional kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 3

Type of Kiln: Wet process rotary cement kiln

Clinker capacity (tons/hr): 50 TPH

Thermal input (Btu/ton clinker): 7.2 X 10<sup>6</sup> BTU/ton 360 MM BTU/Hr.

Type of cement product(s) produced in this kiln: Portland cement

Total hours operating per year on average: 7,800

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end:

Dry solids injected at "hot" end:

Containerized solids charged to calcining zone:

Sludge Pump:

Other: (specify) \_\_\_\_\_

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Kiln Number: 3 of 3

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits; and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	10,372	34,560	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids	3,540	22,272	P
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 30 (%)  
 Percent of solids originally generated as solids: N.R.A. (%)

N.R.A. = Not Available

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Kiln Number: 3 of 3

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	8,000	24	*	11,000	25%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids	6400	24	290	6,600	10%
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

see note on page 8

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Kiln Number: 3 of 3

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? January or February

How long? 2 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter): N/A

b) Physical changes (include planned schedule):

c) Regulatory modifications (include planned schedule):

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Liquid Waste Acceptance Limits As Received (Refer to Attachment)

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion BTU/lb	9000		T
Water Content			
Total Solids Content		30%	T
Total Inorganics Content			
Particle/Object Size		1/8"	T
Cyanide Content			
Sulfur Content		1%	P
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content		10%	P
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		50 ppm	P
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify PCB		50 PPM	P
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify As, Cd, Cr, Pb, Hg, Zn, Ag		0.3% TOTAL	P
Other: Specify			

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#### Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) Y

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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**Containerized Solids Waste Acceptance Limits As Received**

- 16a. Are your containerized solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	6000 BTU/lb		
Water Content			
Total Solids Content			
Total Inorganics Content	40%		
Particle/Object Size			
Cyanide Content			
Sulfur Content	1%		
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content	8%		
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides		50 ppm	P
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify PCB		50 ppm	P
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content		200 ppm	P
Chromium Content			
Copper Content			
Lead Content			
Mercury Content		10 ppm	P
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify As, Cd, Cr, Pb, Hg, Se, Ag		0.72 % TOTAL	P
Other: Specify			

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#### Containerized Solids Waste Acceptance Limits As Burned

- 16b. Are your containerized solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17a:

Yes

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Containerized Solids Waste Limitations -			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (✓)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)	Y			
Personal Protection Equipment (e.g., Tyvek suits)	Y			
Paper or Cardboard Materials	Y			
Filter Cartridges	Y			
Wood Materials	Y			
Rubber Objects (e.g., tires, hoses)	Y			
PVC Pipe	Y			
Other Plastic Debris	Y			
Glass Debris	Y			
Ceramic Debris (e.g., semiconductors)	N			
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)	N			
Asbestos Materials (e.g., shingles, insulation)	N			
Non-Soil Geologic Material (e.g., rocks)	N			
Concrete Debris	N			
Refractory Brick	N			
Other Bricks	N			
Slag	N			
Intact Batteries	N			
Battery Cases	I			
Electronic Components (e.g., printed circuit boards)	N			
Electrical Wires, Switches, etc.	Y			

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20. Please explain any debris acceptance conditions noted on the previous page:

N/A

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- 20a. Do you accept soils? If so, under what conditions or limitations?

Yes, until exceed 5,000 BTU/lbs.

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**C. Permit Conditions**

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

Refer to the attached RCRA Part A application.

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

N/A

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

N/A

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
FP - Fully Permitted to receive RCRA hazardous wastes  
PM - Preparing Permit Modification for Additional Wastes  
SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
MA - Modifying Permit Application for Additional RCRA Wastes  
IS - Interim Status  
ND - Currently Responding to Notices of Deficiency in Application  
PH - Awaiting Public Hearing on Permit  
OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
<u>Federal</u>			
BIF	U.S. EPA Region 6	IS	
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
<u>State</u>			
Hazardous Waste			
Air Emission	Air Quality Report Form	FF	
Land Use/Siting			
Other (specify)			
<u>Local</u>			
Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

N/A

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26. When do you plan to submit a BIF Certification of Compliance (month and year)?

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes  
 No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

- a) When (month or quarter, and year):

June 1992

- b) Effect on hazardous waste capacity:

Conduct test burn to change air permit in order to increase solids capacity. Current compliance test will increase permitted solids capacity from 66,816 tons per year to 90,000 tons per year. Compliance testing will also broaden fuel specification.

- c) Modifications:

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (S)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)	Y			
Personal Protection Equipment (e.g., Tyvek suits)	Y			
Paper or Cardboard Materials	Y			
Filter Cartridges	Y			
Wood Materials	Y			
Rubber Objects (e.g., tires, hoses)	Y			
PVC Pipe	Y			
Other Plastic Debris	Y			
Glass Debris	Y			
Ceramic Debris (e.g., semiconductors)	N			
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)	N			
Asbestos Materials (e.g., shingles, insulation)	N			
Non-Soil Geologic Material (e.g., rocks)	N			
Concrete Debris	N			
Refractory Brick	N			
Other Bricks	N			
Slag	Y			
Intact Batteries	N			
Battery Cases	N	Y		
Electronic Components (e.g., printed circuit boards)	N			
Electrical Wires, Switches, etc.	N			

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Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

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For EPA Regional Use Only		<b>EPA</b> United States Environmental Protection Agency Washington, DC 20460		For State Use Only	
<b>Hazardous Waste Permit Application</b>					
<b>Part A</b>					
(Read the Instructions before starting)					
I. ID Number(s) →					
A. EPA ID Number		B. Secondary ID Number (if applicable)			
AR D 9 8 1 5 1 2 2 7 0					
II. Name of Facility					
ASH GROVE CEMENT PLANT					
III. Facility Location (Physical address not P.O. Box or Route Number)					
A. Street					
HIGHWAY 108 WEST					
Street (continued)					
City or Town State ZIP Code					
FORERMAN		AR 71836-			
County Code (if known)	County Name				
LITTLE RIVER					
B. Land Type	C. Geographic Location		D. Facility Existence Date		
(enter code)	LATITUDE (degrees, minutes, & seconds)		LONGITUDE (degrees, minutes, & seconds)		
P.	3 3	4 1	0 4 0	0 9 4	2 5 0 1 1
0 5 2 7 1 9 8 6	Month	Day	Year		
IV. Facility Mailing Address					
Street or P.O. Box					
PO BOX 130					
City or Town State ZIP Code					
FORERMAN		AR 71836-			
V. Facility Contact (Person to be contacted regarding waste activities at facility)					
Name (last)		(first)			
GORDON		JAMES			
Job Title		Phone Number (area code and number)			
PLANT MANAGER		501-542-6217			
VI. Facility Contact Address (See Instructions)					
A. Contact Address Location Mailing	B. Street or P.O. Box				
X					
City or Town State ZIP Code					

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From Academy 2008 to 2009 3rd year  
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Form Approved Under the Paperwork Reduction Act

EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page 1)
A R D 9 5 1 5 1 2 2 7 0	

XI. Nature of Business (provide a brief description)

Manufacturing of Portland Cement by the wet process - involves:

- 1) Quarrying and crushing of limestone and acquisition of other raw materials.
- 2) Grinding of raw materials with water to form a slurry.
- 3) Pyroprocessing of the slurry in a rotary cement kiln to form Portland Cement clinker.
- 4) Grinding of clinker with gypsum to form Portland Cement.

XII. Process - Codes and Design Capacities

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in Item XIII.

B. PROCESS DESIGN CAPACITY - For each code entered in column A, enter the capacity of the process.

1. AMOUNT - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure enforcement action) enter the total amount of waste for that process unit.
2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

C. PROCESS TOTAL NUMBER OF UNITS - Enter the total number of units used with the corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	UNIT OF MEASURE	UNIT OF MEASURE CODE
D79	<u>DISPOSAL:</u> INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY	GALLONS .....	G
D80	LANDFILL	ACRE-FEET OR HECTARE-METER	GALLONS PER HOUR.....	E
D81	LAND APPLICATION	ACRES OR HECTARES	GALLONS PER DAY .....	U
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY	LITERS .....	L
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS	LITERS PER HOUR .....	H
S01	<u>STORAGE:</u> CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS	LITERS PER DAY.....	V
S02	TANK	GALLONS OR LITERS	SHORT TONS PER HOUR.....	D
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS	METRIC TONS PER HOUR .....	W
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS	SHORT TONS PER DAY .....	N
T01	<u>TREATMENT:</u> TANK	GALLONS PER DAY OR LITERS PER DAY	METRIC TONS PER DAY.....	S
T02	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY	POUNDS PER HOUR .....	J
T03	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR	KILOGRAMS PER HOUR .....	R
T04	OTHER TREATMENT	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY	CUBIC YARDS .....	Y
	(use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided in Form 808.)		CUBIC METERS .....	C
			ACRES .....	B
			ACRE-FEET .....	A
			HECTARES .....	O
			HECTARE-METER .....	F
			BTU'S PER HOUR .....	X

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EPA I.D. Number (enter from page 1).

Secondary ID Number (enter from page 1).

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## XII. Process - Codes and Design Capacities (continued) ➤

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number	A. PROCESS CODE (from list (above))	B. PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)		
X-1	S 0 2	600	G	0 0 2	
X-2	T 0 3	20	E	0 0 1	
1	S 0 1	180,000	G	0 0 1	
2	S 0 2	180,000	G	0 0 6	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

NOTE: If you need to list more than 12 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for additional treatment processes in Item XIII.

## XIII. Additional Treatment Processes (follow instructions from Item XII) ➤

Line Number (over number of processes various unit)	A. PROCESS CODE	B. TREATMENT PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)		
0 3	T 0 4	63.29	D	0 0 3	Recycling of hazardous waste as fuel substitute in cement kilns in order to manufacture Portland ce
	T 0 4				
	T 0 4				
	T 0 4				
	T 0 4				

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EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page 1)
A R D 9 8 1 5 1 2 3 7 0	

XIV. Description of Hazardous Waste

- A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

- For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.
- For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
2. Enter "000" in the extreme right box of Item XIV-D(2).
3. Enter in the space provided on page 7, Item XIV-E, the line number and the additional codes.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D-2).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with Above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below). A facility will store and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS CODES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(2))			
X-1	X 0 3 4	900	P	T 0 3 0 0							
X-2	0 0 0 2	400	P	T 0 3 0 0							
X-3	0 0 0 1	100	P	T 0 3 0 0							
X-4	0 0 0 2										

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EPA I.D. Number (enter from page 1):			Secondary ID Number (enter from page 1)									
A R D 9 8 1 5 1 2 2 7 0												
XIV. Description of Hazardous Wastes (continued)												
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						(2) PROCESS DESCRIPTION (If a code is not entered in D(1)		
				(1) PROCESS CODES (enter)								
1	D 0 0 0 1	5.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4
2	D 0 0 0 4	2.0 x 10 <sup>6</sup>	P	"	"	"	"	"	"	"	"	"
3	D 0 0 0 5	"	P	"	"	"	"	"	"	"	"	"
4	D 0 0 0 6	"	P	"	"	"	"	"	"	"	"	"
5	D 0 0 0 7	"	P	"	"	"	"	"	"	"	"	"
6	D 0 0 0 8	"	P	"	"	"	"	"	"	"	"	"
7	D 0 0 0 9	"	P	"	"	"	"	"	"	"	"	"
8	D 0 0 1 0	"	P	"	"	"	"	"	"	"	"	"
9	D 0 0 1 1	"	P	"	"	"	"	"	"	"	"	"
10	D 0 0 1 2	"	P	"	"	"	"	"	"	"	"	"
11	D 0 0 1 3	"	P	"	"	"	"	"	"	"	"	"
12	D 0 0 1 4	"	P	"	"	"	"	"	"	"	"	"
13	D 0 0 1 5	"	P	"	"	"	"	"	"	"	"	"
14	D 0 0 1 6	"	P	"	"	"	"	"	"	"	"	"
15	D 0 0 1 7	"	P	"	"	"	"	"	"	"	"	"
16	D 0 0 1 8	"	P	"	"	"	"	"	"	"	"	"
17	D 0 0 1 9	"	P	"	"	"	"	"	"	"	"	"
18	D 0 0 2 0	"	P	"	"	"	"	"	"	"	"	"
19	D 0 0 2 1	"	P	"	"	"	"	"	"	"	"	"
20	D 0 0 2 2	"	P	"	"	"	"	"	"	"	"	"
21	D 0 0 2 3	"	P	"	"	"	"	"	"	"	"	"
22	D 0 0 2 4	"	P	"	"	"	"	"	"	"	"	"
23	D 0 0 2 5	"	P	"	"	"	"	"	"	"	"	"
24	D 0 0 2 6	"	P	"	"	"	"	"	"	"	"	"
25	D 0 0 2 7	"	P	"	"	"	"	"	"	"	"	"
26	D 0 0 2 8	"	P	"	"	"	"	"	"	"	"	"
27	D 0 0 2 9	"	P	"	"	"	"	"	"	"	"	"
28	D 0 0 3 0	"	P	"	"	"	"	"	"	"	"	"
29	D 0 0 3 1	"	P	"	"	"	"	"	"	"	"	"
30	D 0 0 3 2	"	P	"	"	"	"	"	"	"	"	"
31	D 0 0 3 3	"	P	"	"	"	"	"	"	"	"	"
32	D 0 0 3 4	"	P	"	"	"	"	"	"	"	"	"
33	D 0 0 3 5	2.0 x 10 <sup>8</sup>	P	S	0	1	S	0	-2	T	0	4

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)								
A	R	D	9	8	1	5	1	2	2	7	0	
XIV. Description of Hazardous Wastes (continued)												
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (if a code is not entered in D(1))				
1	D 0 3 6	2.0 x 10 <sup>5</sup>	P	S	0	1	S	0	2	T	0	4
2	D 0 3 7	" "	P	"	"	"	"	"	"	"	"	"
3	D 0 3 8	" "	P	"	"	"	"	"	"	"	"	"
4	D 0 3 9	" "	P	"	"	"	"	"	"	"	"	"
5	D 0 4 0	" "	P	"	"	"	"	"	"	"	"	"
6	D 0 4 1	" "	P	"	"	"	"	"	"	"	"	"
7	D 0 4 2	" "	P	"	"	"	"	"	"	"	"	"
8	D 0 4 3	" "	P	"	"	"	"	"	"	"	"	"
9	F 0 0 1	5.0 x 10 <sup>6</sup>	P	"	"	"	"	"	"	"	"	"
10	F 0 0 2	" "	P	"	"	"	"	"	"	"	"	"
11	F 0 0 3	" "	P	"	"	"	"	"	"	"	"	"
12	F 0 0 4	" "	P	"	"	"	"	"	"	"	"	"
13	F 0 0 5	" "	P	"	"	"	"	"	"	"	"	"
14	F 0 0 6	1.0 x 10 <sup>8</sup>	P	"	"	"	"	"	"	"	"	"
15	F 0 0 7	" "	P	"	"	"	"	"	"	"	"	"
16	F 0 0 8	" "	P	"	"	"	"	"	"	"	"	"
17	F 0 0 9	" "	P	"	"	"	"	"	"	"	"	"
18	F 0 1 0	" "	P	"	"	"	"	"	"	"	"	"
19	F 0 1 1	" "	P	"	"	"	"	"	"	"	"	"
20	F 0 1 2	" "	P	"	"	"	"	"	"	"	"	"
21	F 0 1 9	" "	P	"	"	"	"	"	"	"	"	"
22	F 0 2 4	" "	P	"	"	"	"	"	"	"	"	"
23	F 0 2 5	" "	P	"	"	"	"	"	"	"	"	"
24	F 0 2 8	" "	P	"	"	"	"	"	"	"	"	"
25	F 0 3 4	" "	P	"	"	"	"	"	"	"	"	"
26	F 0 3 5	" "	P	"	"	"	"	"	"	"	"	"
27	F 0 3 7	" "	P	"	"	"	"	"	"	"	"	"
28	F 0 3 8	" "	P	"	"	"	"	"	"	"	"	"
29	F 0 3 9	" "	P	"	"	"	"	"	"	"	"	"
30	K 0 0 1	" "	P	"	"	"	"	"	"	"	"	"
31	K 0 0 2	" "	P	"	"	"	"	"	"	"	"	"
32	K 0 0 3	" "	P	"	"	"	"	"	"	"	"	"
33	K 0 0 4	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4

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A. EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)								
A	R	D	9 8 1 5 1 2 2 7 0									
XIV. Description of Hazardous Wastes (continued)												
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (if a code is not entered in D(1))				
1	K 0 0 5	1.0 x 10 <sup>6</sup>	P	S	0	1	S	0	2	T	0	4
2	K 0 0 6	" "	P	"	"	"	"	"	"	"	"	"
3	K 0 0 7	" "	P	"	"	"	"	"	"	"	"	"
4	K 0 0 8	" "	P	"	"	"	"	"	"	"	"	"
5	K 0 0 9	" "	P	"	"	"	"	"	"	"	"	"
6	K 0 1 0	" "	P	"	"	"	"	"	"	"	"	"
7	K 0 1 1	" "	P	"	"	"	"	"	"	"	"	"
8	K 0 1 3	" "	P	"	"	"	"	"	"	"	"	"
9	K 0 1 4	" "	P	"	"	"	"	"	"	"	"	"
10	K 0 1 5	" "	P	"	"	"	"	"	"	"	"	"
11	K 0 1 6	" "	P	"	"	"	"	"	"	"	"	"
12	K 0 1 7	" "	P	"	"	"	"	"	"	"	"	"
13	K 0 1 8	" "	P	"	"	"	"	"	"	"	"	"
14	K 0 1 9	" "	P	"	"	"	"	"	"	"	"	"
15	K 0 2 0	" "	P	"	"	"	"	"	"	"	"	"
16	K 0 2 1	" "	P	"	"	"	"	"	"	"	"	"
17	K 0 2 2	" "	P	"	"	"	"	"	"	"	"	"
18	K 0 2 3	" "	P	"	"	"	"	"	"	"	"	"
19	K 0 2 4	" "	P	"	"	"	"	"	"	"	"	"
20	K 0 2 5	" "	P	"	"	"	"	"	"	"	"	"
21	K 0 2 6	" "	P	"	"	"	"	"	"	"	"	"
22	K 0 2 7	" "	P	"	"	"	"	"	"	"	"	"
23	K 0 2 8	" "	P	"	"	"	"	"	"	"	"	"
24	K 0 2 9	" "	P	"	"	"	"	"	"	"	"	"
25	K 0 3 0	" "	P	"	"	"	"	"	"	"	"	"
26	K 0 3 1	" "	P	"	"	"	"	"	"	"	"	"
27	K 0 3 2	" "	P	"	"	"	"	"	"	"	"	"
28	K 0 3 3	" "	P	"	"	"	"	"	"	"	"	"
29	K 0 3 4	" "	P	"	"	"	"	"	"	"	"	"
30	K 0 3 5	" "	P	"	"	"	"	"	"	"	"	"
31	K 0 3 6	" "	P	"	"	"	"	"	"	"	"	"
32	K 0 3 7	" "	P	"	"	"	"	"	"	"	"	"
33	K 0 3 8	1.0 x 10 <sup>6</sup>	P	S	0	1	S	0	2	T	0	4

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)			
A	R	D	9	2	1	3	1
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (if A code is not entered in D(1))		
1	K 0 3 9	1.0 x 10 <sup>5</sup>	P	S 0 1 S 0 2 T 0 4			
2	K 0 4 0	" "	P	" "	" "	" "	
3	K 0 4 1	" "	P	" "	" "	" "	
4	K 0 4 2	" "	P	" "	" "	" "	
5	K 0 4 3	" "	P	" "	" "	" "	
6	K 0 4 4	" "	P	" "	" "	" "	
7	K 0 4 5	" "	P	" "	" "	" "	
8	K 0 4 6	" "	P	" "	" "	" "	
9	K 0 4 7	" "	P	" "	" "	" "	
10	K 0 4 8	2.0 x 10 <sup>5</sup>	P	" "	" "	" "	
11	K 0 4 9	" "	P	" "	" "	" "	
12	K 0 5 0	" "	P	" "	" "	" "	
13	K 0 5 1	" "	P	" "	" "	" "	
14	K 0 5 2	" "	P	" "	" "	" "	
15	K 0 6 0	1.0 x 10 <sup>5</sup>	P	" "	" "	" "	
16	K 0 6 1	" "	P	" "	" "	" "	
17	K 0 6 2	" "	P	" "	" "	" "	
18	K 0 6 4	" "	P	" "	" "	" "	
19	K 0 6 5	" "	P	" "	" "	" "	
20	K 0 6 6	" "	P	" "	" "	" "	
21	K 0 7 1	" "	P	" "	" "	" "	
22	K 0 7 3	" "	P	" "	" "	" "	
23	K 0 8 3	" "	P	" "	" "	" "	
24	K 0 8 4	" "	P	" "	" "	" "	
25	K 0 8 5	" "	P	" "	" "	" "	
26	K 0 8 6	" "	P	" "	" "	" "	
27	K 0 8 7	" "	P	" "	" "	" "	
28	K 0 8 8	" "	P	" "	" "	" "	
29	K 0 9 0	" "	P	" "	" "	" "	
30	K 0 9 1	" "	P	" "	" "	" "	
31	K 0 9 3	" "	P	" "	" "	" "	
32	K 0 9 4	" "	P	" "	" "	" "	
33	K 0 9 5	1.0 x 10 <sup>5</sup>	P	S 0 1 S 0 2 T 0 4			

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0919

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Form Number: 8700-23, Dated: 10-12-88, Revision: 1, Edition: 1

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)							
A	R	D	9 8 1 5 1 2 2 7 0								
XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1)			
1	K 0 9 6	1.0 x 10 <sup>3</sup>	P	S 0 1	S 0 2	T 0 4					
2	K 0 9 7	" "	P	"	"	"	"				
3	K 0 9 8	" "	P	"	"	"	"				
4	K 0 9 9	" "	P	"	"	"	"				
5	K 1 0 0	" "	P	"	"	"	"				
6	K 1 0 1	" "	P	"	"	"	"				
7	K 1 0 2	" "	P	"	"	"	"				
8	K 1 0 3	" "	P	"	"	"	"				
9	K 1 0 4	" "	P	"	"	"	"				
10	K 1 0 5	" "	P	"	"	"	"				
11	K 1 0 6	" "	P	"	"	"	"				
12	K 1 1 1	" "	P	"	"	"	"				
13	K 1 1 2	" "	P	"	"	"	"				
14	K 1 1 3	" "	P	"	"	"	"				
15	K 1 1 4	" "	P	"	"	"	"				
16	K 1 1 5	" "	P	"	"	"	"				
17	K 1 1 6	" "	P	"	"	"	"				
18	K 1 1 7	" "	P	"	"	"	"				
19	K 1 1 8	" "	P	"	"	"	"				
20	K 1 2 3	" "	P	"	"	"	"				
21	K 1 2 4	" "	P	"	"	"	"				
22	K 1 2 5	" "	P	"	"	"	"				
23	K 1 2 6	" "	P	"	"	"	"				
24	K 1 3 1	" "	P	"	"	"	"				
25	K 1 3 2	" "	P	"	"	"	"				
26	K 1 3 6	" "	P	"	"	"	"				
27	P 0 0 1	" "	P	"	"	"	"				
28	P 0 0 2	" "	P	"	"	"	"				
29	P 0 0 3	" "	P	"	"	"	"				
30	P 0 0 4	" "	P	"	"	"	"				
31	P 0 0 5	" "	P	"	"	"	"				
32	P 0 0 6	" "	P	"	"	"	"				
33	P 0 0 7	1.0 x 10 <sup>3</sup>	P	S 0 1	S 0 2	T 0 4					

Please print or type with ECLIPSE type (12 characters per inch) in the unshaded areas only.

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)								
A R D 9 8 1 5 1 2 2 7 0												
XIV. Description of Hazardous Wastes (continued)												
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTION (If a code is not entered in D(1))					
1	P 0 0 S	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4
2	P 0 0 9	" "	P	"	"	"	"	"	"	"	"	"
3	P 0 1 0	" "	P	"	"	"	"	"	"	"	"	"
4	P 0 1 1	" "	P	"	"	"	"	"	"	"	"	"
5	P 0 1 2	" "	P	"	"	"	"	"	"	"	"	"
6	P 0 1 3	" "	P	"	"	"	"	"	"	"	"	"
7	P 0 1 4	" "	P	"	"	"	"	"	"	"	"	"
8	P 0 1 5	" "	P	"	"	"	"	"	"	"	"	"
9	P 0 1 6	" "	P	"	"	"	"	"	"	"	"	"
10	P 0 1 7	" "	P	"	"	"	"	"	"	"	"	"
11	P 0 1 8	" "	P	"	"	"	"	"	"	"	"	"
12	P 0 2 0	" "	P	"	"	"	"	"	"	"	"	"
13	P 0 2 1	" "	P	"	"	"	"	"	"	"	"	"
14	P 0 2 2	" "	P	"	"	"	"	"	"	"	"	"
15	P 0 2 3	" "	P	"	"	"	"	"	"	"	"	"
16	P 0 2 4	" "	P	"	"	"	"	"	"	"	"	"
17	P 0 2 6	" "	P	"	"	"	"	"	"	"	"	"
18	P 0 2 7	" "	P	"	"	"	"	"	"	"	"	"
19	P 0 2 8	" "	P	"	"	"	"	"	"	"	"	"
20	P 0 2 9	" "	P	"	"	"	"	"	"	"	"	"
21	P 0 3 0	" "	P	"	"	"	"	"	"	"	"	"
22	P 0 3 1	" "	P	"	"	"	"	"	"	"	"	"
23	P 0 3 3	" "	P	"	"	"	"	"	"	"	"	"
24	P 0 3 4	" "	P	"	"	"	"	"	"	"	"	"
25	P 0 3 6	" "	P	"	"	"	"	"	"	"	"	"
26	P 0 3 7	" "	P	"	"	"	"	"	"	"	"	"
27	P 0 3 8	" "	P	"	"	"	"	"	"	"	"	"
28	P 0 3 9	" "	P	"	"	"	"	"	"	"	"	"
29	P 0 4 0	" "	P	"	"	"	"	"	"	"	"	"
30	P 0 4 1	" "	P	"	"	"	"	"	"	"	"	"
31	P 0 4 2	" "	P	"	"	"	"	"	"	"	"	"
32	P 0 4 3	" "	P	"	"	"	"	"	"	"	"	"
33	P 0 4 4	:0.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4

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0 9 2 0

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XIV. Description of Hazardous Wastes (continued)				D. PROCESSES									
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	(1) PROCESS CODES (enter)					(2) PROCESS DESCRIPTION (If a code is not entered in D(1))				
1	P 0 4 5	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4							
2	P 0 4 6	" "	P	" "	" "	" "							
3	P 0 4 7	" "	P	" "	" "	" "							
4	P 0 4 8	" "	P	" "	" "	" "							
5	P 0 4 9	" "	P	" "	" "	" "							
6	P 0 5 0	" "	P	" "	" "	" "							
7	P 0 5 1	" "	P	" "	" "	" "							
8	P 0 5 4	" "	P	" "	" "	" "							
9	P 0 5 7	" "	P	" "	" "	" "							
10	P 0 5 8	" "	P	" "	" "	" "							
11	P 0 5 9	" "	P	" "	" "	" "							
12	P 0 6 0	" "	P	" "	" "	" "							
13	P 0 6 2	" "	P	" "	" "	" "							
14	P 0 6 3	" "	P	" "	" "	" "							
15	P 0 6 4	" "	P	" "	" "	" "							
16	P 0 6 5	" "	P	" "	" "	" "							
17	P 0 6 6	" "	P	" "	" "	" "							
18	P 0 6 7	" "	P	" "	" "	" "							
19	P 0 6 8	" "	P	" "	" "	" "							
20	P 0 6 9	" "	P	" "	" "	" "							
21	P 0 7 0	" "	P	" "	" "	" "							
22	P 0 7 1	" "	P	" "	" "	" "							
23	P 0 7 2	" "	P	" "	" "	" "							
24	P 0 7 3	" "	P	" "	" "	" "							
25	P 0 7 4	" "	P	" "	" "	" "							
26	P 0 7 5	" "	P	" "	" "	" "							
27	P 0 7 6	" "	P	" "	" "	" "							
28	P 0 7 7	" "	P	" "	" "	" "							
29	P 0 7 8	" "	P	" "	" "	" "							
30	P 0 8 1	" "	P	" "	" "	" "							
31	P 0 8 2	" "	P	" "	" "	" "							
32	P 0 8 4	" "	P	" "	" "	" "							
33	P 0 8 5	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4							

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CD2F 002

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1970-1971: John C. and Barbara L. H. 2

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~~being filmed~~

CD2F 002

652

EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)							
A	R	D	9 8 1 5 1 2 2 7 0								
XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
1	P 0 3 7	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4					
2	P 0 8 8	" "	P	"	"	"					
3	P 0 8 9	" "	P	"	"	"					
4	P 0 9 2	" "	P	"	"	"					
5	P 0 9 3	" "	P	"	"	"					
6	P 0 9 4	" "	P	"	"	"					
7	P 0 9 5	" "	P	"	"	"					
8	P 0 9 6	" "	P	"	"	"					
9	P 0 9 7	" "	P	"	"	"					
10	P 0 9 8	" "	P	"	"	"					
11	P 0 9 9	" "	P	"	"	"					
12	P 1 0 1	" "	P	"	"	"					
13	P 1 0 2	" "	P	"	"	"					
14	P 1 0 3	" "	P	"	"	"					
15	P 1 0 4	" "	P	"	"	"					
16	P 1 0 5	" "	P	"	"	"					
17	P 1 0 6	" "	P	"	"	"					
18	P 1 0 7	" "	P	"	"	"					
19	P 1 0 8	" "	P	"	"	"					
20	P 1 0 9	" "	P	"	"	"					
21	P 1 1 0	" "	P	"	"	"					
22	P 1 1 1	" "	P	"	"	"					
23	P 1 1 2	" "	P	"	"	"					
24	P 1 1 3	" "	P	"	"	"					
25	P 1 1 4	" "	P	"	"	"					
26	P 1 1 5	" "	P	"	"	"					
27	P 1 1 6	" "	P	"	"	"					
28	P 1 1 8	" "	P	"	"	"					
29	P 1 1 9	" "	P	"	"	"					
30	P 1 2 0	" "	P	"	"	"					
31	P 1 2 1	" "	P	"	"	"					
32	P 1 2 2	" "	P	"	"	"					
33	P 1 2 3	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4					

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Form Number: 8700-23 (01-90)  
GSA GEN. REG. NO. 101  
GSA GEN. REG. NO. 224

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0 9 2 3

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)											
A	R	D	9 8 1 5 1 2 2 7 0												
XIV. Description of Hazardous Wastes (continued)															
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (order code)	(1) PROCESS CODES (enter)								(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
				P	S	O	I	S	O	Z	T	O	4		
1	U 0 0 1	1.0 x 10 <sup>8</sup>		P	S	O	I	S	O	Z	T	O	4		
2	U 0 0 2	"	"	P	"	"	"	"	"	"	"	"	"		
3	U 0 0 3	"	"	P	"	"	"	"	"	"	"	"	"		
4	U 0 0 4	"	"	P	"	"	"	"	"	"	"	"	"		
5	U 0 0 5	"	"	P	"	"	"	"	"	"	"	"	"		
6	U 0 0 6	"	"	P	"	"	"	"	"	"	"	"	"		
7	U 0 0 7	"	"	P	"	"	"	"	"	"	"	"	"		
8	U 0 0 8	"	"	P	"	"	"	"	"	"	"	"	"		
9	U 0 0 9	"	"	P	"	"	"	"	"	"	"	"	"		
10	U 0 1 0	"	"	P	"	"	"	"	"	"	"	"	"		
11	U 0 1 1	"	"	P	"	"	"	"	"	"	"	"	"		
12	U 0 1 2	"	"	P	"	"	"	"	"	"	"	"	"		
13	U 0 1 4	"	"	P	"	"	"	"	"	"	"	"	"		
14	U 0 1 5	"	"	P	"	"	"	"	"	"	"	"	"		
15	U 0 1 6	"	"	P	"	"	"	"	"	"	"	"	"		
16	U 0 1 7	"	"	P	"	"	"	"	"	"	"	"	"		
17	U 0 1 8	"	"	P	"	"	"	"	"	"	"	"	"		
18	U 0 1 9	"	"	P	"	"	"	"	"	"	"	"	"		
19	U 0 2 0	"	"	P	"	"	"	"	"	"	"	"	"		
20	U 0 2 1	"	"	P	"	"	"	"	"	"	"	"	"		
21	U 0 2 2	"	"	P	"	"	"	"	"	"	"	"	"		
22	U 0 2 3	"	"	P	"	"	"	"	"	"	"	"	"		
23	U 0 2 4	"	"	P	"	"	"	"	"	"	"	"	"		
24	U 0 2 5	"	"	P	"	"	"	"	"	"	"	"	"		
25	U 0 2 6	"	"	P	"	"	"	"	"	"	"	"	"		
26	U 0 2 7	"	"	P	"	"	"	"	"	"	"	"	"		
27	U 0 2 8	"	"	P	"	"	"	"	"	"	"	"	"		
28	U 0 2 9	"	"	P	"	"	"	"	"	"	"	"	"		
29	U 0 3 0	"	"	P	"	"	"	"	"	"	"	"	"		
30	U 0 3 1	"	"	P	"	"	"	"	"	"	"	"	"		
31	U 0 3 2	"	"	P	"	"	"	"	"	"	"	"	"		
32	U 0 3 3	"	"	P	"	"	"	"	"	"	"	"	"		
33	U 0 3 4	1.0 x 10 <sup>8</sup>		P	S	O	I	S	O	Z	T	O	4		

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Form Number: 8700-23 (01-90)  
GSA GEN. REG. NO. 27-1000

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0924

EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)																
A	R	D	9	8	1	5	1	2	2	7	0									
XIV. Description of Hazardous Wastes (continued)												D. PROCESSES								
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	(1) PROCESS CODES (enter)								(2) PROCESS DESCRIPTION (If a code is not entered in D(1))							
1	U	0	3	5	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4					
2	U	0	3	6	"	"	P	"	"	"	"	"	"	"	"					
3	U	0	3	7	"	"	P	"	"	"	"	"	"	"	"					
4	U	0	3	8	"	"	P	"	"	"	"	"	"	"	"					
5	U	0	3	9	"	"	P	"	"	"	"	"	"	"	"					
6	U	0	4	1	"	"	P	"	"	"	"	"	"	"	"					
7	U	0	4	2	"	"	P	"	"	"	"	"	"	"	"					
8	U	0	4	3	"	"	P	"	"	"	"	"	"	"	"					
9	U	0	4	4	"	"	P	"	"	"	"	"	"	"	"					
10	U	0	4	5	"	"	P	"	"	"	"	"	"	"	"					
11	U	0	4	6	"	"	P	"	"	"	"	"	"	"	"					
12	U	0	4	7	"	"	P	"	"	"	"	"	"	"	"					
13	U	0	4	8	"	"	P	"	"	"	"	"	"	"	"					
14	U	0	4	9	"	"	P	"	"	"	"	"	"	"	"					
15	U	0	5	0	"	"	P	"	"	"	"	"	"	"	"					
16	U	0	5	1	"	"	P	"	"	"	"	"	"	"	"					
17	U	0	5	2	"	"	P	"	"	"	"	"	"	"	"					
18	U	0	5	3	"	"	P	"	"	"	"	"	"	"	"					
19	U	0	5	5	"	"	P	"	"	"	"	"	"	"	"					
20	U	0	5	6	"	"	P	"	"	"	"	"	"	"	"					
21	U	0	5	7	"	"	P	"	"	"	"	"	"	"	"					
22	U	0	5	8	"	"	P	"	"	"	"	"	"	"	"					
23	U	0	5	9	"	"	P	"	"	"	"	"	"	"	"					
24	U	0	6	0	"	"	P	"	"	"	"	"	"	"	"					
25	U	0	6	1	"	"	P	"	"	"	"	"	"	"	"					
26	U	0	6	2	"	"	P	"	"	"	"	"	"	"	"					
27	U	0	6	3	"	"	P	"	"	"	"	"	"	"	"					
28	U	0	6	4	"	"	P	"	"	"	"	"	"	"	"					
29	U	0	6	5	"	"	P	"	"	"	"	"	"	"	"					
30	U	0	6	6	"	"	P	"	"	"	"	"	"	"	"					
31	U	0	6	7	"	"	P	"	"	"	"	"	"	"	"					
32	U	0	6	8	"	"	P	"	"	"	"	"	"	"	"					
33	U	0	6	9	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	6					

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0 9 2 5

Please print or type in ELITE type (\*2 characters per inch) in the unshaded areas only

Form 6700-23 (01-90)  
GSA GEN. REG. NO. 27-10000  
GSA GEN. REG. NO. 27-10000

EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)							
A	R	D	9	8	1	5	1	2	2	7	0
XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE ID No. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (A code is not entered in D(1))			
1	U 0 7 0	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4					
2	U 0 7 1	" "	P	"	"	"					
3	U 0 7 2	" "	P	"	"	"					
4	U 0 7 3	" "	P	"	"	"					
5	U 0 7 4	" "	P	"	"	"					
6	U 0 7 5	" "	P	"	"	"					
7	U 0 7 6	" "	P	"	"	"					
8	U 0 7 7	" "	P	"	"	"					
9	U 0 7 8	" "	P	"	"	"					
10	U 0 7 9	" "	P	"	"	"					
11	U 0 8 0	" "	P	"	"	"					
12	U 0 8 1	" "	P	"	"	"					
13	U 0 8 2	" "	P	"	"	"					
14	U 0 8 3	" "	P	"	"	"					
15	U 0 8 4	" "	P	"	"	"					
16	U 0 8 5	" "	P	"	"	"					
17	U 0 8 6	" "	P	"	"	"					
18	U 0 8 7	" "	P	"	"	"					
19	U 0 8 8	" "	P	"	"	"					
20	U 0 8 9	" "	P	"	"	"					
21	U 0 9 0	" "	P	"	"	"					
22	U 0 9 1	" "	P	"	"	"					
23	U 0 9 2	" "	P	"	"	"					
24	U 0 9 3	" "	P	"	"	"					
25	U 0 9 4	" "	P	"	"	"					
26	U 0 9 5	" "	P	"	"	"					
27	U 0 9 6	" "	P	"	"	"					
28	U 0 9 7	" "	P	"	"	"					
29	U 0 9 8	" "	P	"	"	"					
30	U 0 9 9	" "	P	"	"	"					
31	U 1 0 1	" "	P	"	"	"					
32	U 1 0 2	" "	P	"	"	"					
33	U 1 0 3	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4					

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CD2F 002

0 9 2 6

00000100

EPA I.D. Number (enter from page 1)			Secondary ID Number (enter from page 1)							
A R D 9 8 1 5 1 2 2 7 0										
XIV. Description of Hazardous Wastes (continued)										
Line Number	A: EPA HAZARDOUS WASTE NO. (enter code)	B: ESTIMATED ANNUAL QUANTITY OF WASTE	C: UNIT OF MEASURE (enter code)	(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (A code is not entered in C(1))		
				P	S	0	1	5	0	2
1	U 1 0 5	1.0 x 10 <sup>6</sup>		P	S	0	1	5	0	2
2	U 1 0 6	" "		P		0		"	"	"
3	U 1 0 7	" "		P		"	"	"	"	"
4	U 1 0 8	" "		P		"	"	"	"	"
5	U 1 0 9	" "		P		"	"	"	"	"
6	U 1 1 0	" "		P		"	"	"	"	"
7	U 1 1 1	" "		P		"	"	"	"	"
8	U 1 1 2	" "		P		"	"	"	"	"
9	U 1 1 3	" "		P		"	"	"	"	"
10	U 1 1 4	" "		P		"	"	"	"	"
11	U 1 1 5	" "		P		"	"	"	"	"
12	U 1 1 6	" "		P		"	"	"	"	"
13	U 1 1 7	" "		P		"	"	"	"	"
14	U 1 1 8	" "		P		"	"	"	"	"
15	U 1 1 9	" "		P		"	"	"	"	"
16	U 1 2 0	" "		P		"	"	"	"	"
17	U 1 2 1	" "		P		"	"	"	"	"
18	U 1 2 2	" "		P		"	"	"	"	"
19	U 1 2 3	" "		P		"	"	"	"	"
20	U 1 2 4	" "		P		"	"	"	"	"
21	U 1 2 5	" "		P		"	"	"	"	"
22	U 1 2 6	" "		P		"	"	"	"	"
23	U 1 2 7	" "		P		"	"	"	"	"
24	U 1 2 8	" "		P		"	"	"	"	"
25	U 1 2 9	" "		P		"	"	"	"	"
26	U 1 3 0	" "		P		"	"	"	"	"
27	U 1 3 1	" "		P		"	"	"	"	"
28	U 1 3 2	" "		P		"	"	"	"	"
29	U 1 3 3	" "		P		"	"	"	"	"
30	U 1 3 4	" "		P		"	"	"	"	"
31	U 1 3 5	" "		P		"	"	"	"	"
32	U 1 3 6	" "		P		"	"	"	"	"
33	U 1 3 7	1.0 x 10 <sup>6</sup>		P	S	0	1	S	0	2

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EPA I.D. Number (enter from page 1)								Secondary ID Number (enter from page 1)								
A	R	D	9	8	1	5	1	2	2	7	0					
XIV. Description of Hazardous Wastes (continued)																
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE		C. UNIT OF MEASURE (enter code)		D. PROCESSES									
	1	U	1	3	8	1.0 × 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4
1	2	U	1	4	0	"	P	"	"	"	"	"	"	"	"	"
2	3	U	1	4	1	"	P	"	"	"	"	"	"	"	"	"
3	4	U	1	4	2	"	P	"	"	"	"	"	"	"	"	"
4	5	U	1	4	3	"	P	"	"	"	"	"	"	"	"	"
5	6	U	1	4	4	"	P	"	"	"	"	"	"	"	"	"
6	7	U	1	4	5	"	P	"	"	"	"	"	"	"	"	"
7	8	U	1	4	6	"	P	"	"	"	"	"	"	"	"	"
8	9	U	1	4	7	"	P	"	"	"	"	"	"	"	"	"
9	10	U	1	4	8	"	P	"	"	"	"	"	"	"	"	"
10	11	U	1	4	9	"	P	"	"	"	"	"	"	"	"	"
11	12	U	1	5	0	"	P	"	"	"	"	"	"	"	"	"
12	13	U	1	5	1	"	P	"	"	"	"	"	"	"	"	"
13	14	U	1	5	2	"	P	"	"	"	"	"	"	"	"	"
14	15	U	1	5	3	"	P	"	"	"	"	"	"	"	"	"
15	16	U	1	5	4	"	P	"	"	"	"	"	"	"	"	"
16	17	U	1	5	5	"	P	"	"	"	"	"	"	"	"	"
17	18	U	1	5	6	"	P	"	"	"	"	"	"	"	"	"
18	19	U	1	5	7	"	P	"	"	"	"	"	"	"	"	"
19	20	U	1	5	8	"	P	"	"	"	"	"	"	"	"	"
20	21	U	1	5	9	"	P	"	"	"	"	"	"	"	"	"
21	22	U	1	6	0	"	P	"	"	"	"	"	"	"	"	"
22	23	U	1	6	1	"	P	"	"	"	"	"	"	"	"	"
23	24	U	1	6	2	"	P	"	"	"	"	"	"	"	"	"
24	25	U	1	6	3	"	P	"	"	"	"	"	"	"	"	"
25	26	U	1	6	4	"	P	"	"	"	"	"	"	"	"	"
26	27	U	1	6	5	"	P	"	"	"	"	"	"	"	"	"
27	28	U	1	6	6	"	P	"	"	"	"	"	"	"	"	"
28	29	U	1	6	7	"	P	"	"	"	"	"	"	"	"	"
29	30	U	1	6	8	"	P	"	"	"	"	"	"	"	"	"
30	31	U	1	6	9	"	P	"	"	"	"	"	"	"	"	"
31	32	U	1	7	0	"	P	"	"	"	"	"	"	"	"	"
32	33	U	1	7	1	1.0 × 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)								
A R D 9 8 1 5 1 2 2 7 0												
XIV. Description of Hazardous Wastes (continued)												
Line Number	A EPA HAZARDOUS WASTE NO. (enter code)	B ESTIMATED ANNUAL QUANTITY OF WASTE	C UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (if a code is not entered in D(1))				
1	U 1 7 2	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4
2	U 1 7 3	" "	P	"	"	"	"	"	"	"	"	"
3	U 1 7 4	" "	P	"	"	"	"	"	"	"	"	"
4	U 1 7 6	" "	P	"	"	"	"	"	"	"	"	"
5	U 1 7 7	" "	P	"	"	"	"	"	"	"	"	"
6	U 1 7 8	" "	P	"	"	"	"	"	"	"	"	"
7	U 1 7 9	" "	P	"	"	"	"	"	"	"	"	"
8	U 1 8 0	" "	P	"	"	"	"	"	"	"	"	"
9	U 1 8 1	" "	P	"	"	"	"	"	"	"	"	"
10	U 1 8 2	" "	P	"	"	"	"	"	"	"	"	"
11	U 1 8 3	" "	P	"	"	"	"	"	"	"	"	"
12	U 1 8 4	" "	P	"	"	"	"	"	"	"	"	"
13	U 1 8 5	" "	P	"	"	"	"	"	"	"	"	"
14	U 1 8 6	" "	P	"	"	"	"	"	"	"	"	"
15	U 1 8 7	" "	P	"	"	"	"	"	"	"	"	"
16	U 1 8 8	" "	P	"	"	"	"	"	"	"	"	"
17	U 1 8 9	" "	P	"	"	"	"	"	"	"	"	"
18	U 1 9 0	" "	P	"	"	"	"	"	"	"	"	"
19	U 1 9 1	" "	P	"	"	"	"	"	"	"	"	"
20	U 1 9 2	" "	P	"	"	"	"	"	"	"	"	"
21	U 1 9 3	" "	P	"	"	"	"	"	"	"	"	"
22	U 1 9 4	" "	P	"	"	"	"	"	"	"	"	"
23	U 1 9 6	" "	P	"	"	"	"	"	"	"	"	"
24	U 1 9 7	" "	P	"	"	"	"	"	"	"	"	"
25	U 2 0 0	" "	P	"	"	"	"	"	"	"	"	"
26	U 2 0 1	" "	P	"	"	"	"	"	"	"	"	"
27	U 2 0 2	" "	P	"	"	"	"	"	"	"	"	"
28	U 2 0 3	" "	P	"	"	"	"	"	"	"	"	"
29	U 2 0 4	" "	P	"	"	"	"	"	"	"	"	"
30	U 2 0 5	" "	P	"	"	"	"	"	"	"	"	"
31	U 2 0 6	" "	P	"	"	"	"	"	"	"	"	"
32	U 2 0 7	" "	P	"	"	"	"	"	"	"	"	"
33	U 2 0 8	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)						
A	R	D	9 8 1 5 1 2 2 7 0							
XIV. Description of Hazardous Waste (continued)										
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))		
1	U 2 0 9	1.0 x 10 <sup>8</sup>	P	S	0 1	S 0 2	T 0 4			
2	U 2 1 0	" "	P	"	"	"	"			
3	U 2 1 1	" "	P	"	"	"	"			
4	U 2 1 3	" "	P	"	"	"	"			
5	U 2 1 4	" "	P	"	"	"	"			
6	U 2 1 5	" "	P	"	"	"	"			
7	U 2 1 6	" "	P	"	"	"	"			
8	U 2 1 7	" "	P	"	"	"	"			
9	U 2 1 8	" "	P	"	"	"	"			
10	U 2 1 9	" "	P	"	"	"	"			
11	U 2 2 0	" "	P	"	"	"	"			
12	U 2 2 1	" "	P	"	"	"	"			
13	U 2 2 2	" "	P	"	"	"	"			
14	U 2 2 3	" "	P	"	"	"	"			
15	U 2 2 5	" "	P	"	"	"	"			
16	U 2 2 6	" "	P	"	"	"	"			
17	U 2 2 7	" "	P	"	"	"	"			
18	U 2 2 8	" "	P	"	"	"	"			
19	U 2 3 4	" "	P	"	"	"	"			
20	U 2 3 5	" "	P	"	"	"	"			
21	U 2 3 6	" "	P	"	"	"	"			
22	U 2 3 7	" "	P	"	"	"	"			
23	U 2 3 8	" "	P	"	"	"	"			
24	U 2 3 9	" "	P	"	"	"	"			
25	U 2 4 0	" "	P	"	"	"	"			
26	U 2 4 3	" "	P	"	"	"	"			
27	U 2 4 4	" "	P	"	"	"	"			
28	U 2 4 6	" "	P	"	"	"	"			
29	U 2 4 7	" "	P	"	"	"	"			
30	U 2 4 8	" "	P	"	"	"	"			
31	U 2 4 9	" "	P	"	"	"	"			
32	U 3 2 8	" "	P	"	"	"	"			
33	U 3 5 3	1.0 x 10 <sup>8</sup>	P	S	0 1	S 0 2	T 0 4			

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)								
A	R	D	9 8 1 5 1 2 2 7 0									
<b>XIV. Description of Hazardous Wastes (continued)</b>												
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTION (If a code is not entered in D(1))					
1	U 3 5 9	1.0 x 10 <sup>3</sup>	?	S	O	I	S	O	P	T	0	4
2												
3												
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From *Agrippa's De Occulta Philosophia*

EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page
A R D 9 8 1 5 1 2 2 7 0	

**XIV. Description of Hazardous Waste (continued)**

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 6.

Line Number	Additional Process Codes (enter)											

xv. Map

**Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.**

## XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

## XVII. Photographs

**All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).**

**XVIII. Certification(s)**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine imprisonment.

**Owner Signature** \_\_\_\_\_ **Date Signed** \_\_\_\_\_

Name and Official Title (type or print)

**Operator Signature** \_\_\_\_\_ **Date Signed** \_\_\_\_\_

Name and Official Title (type or print)

## XIX. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (Refer to Instructions for more information.)

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A. Facility Information

1. Respondent Name and Title:

ERIC HANSEN VICE PRESIDENT AND TECHNICAL DIRECTOR

Company:

ASH GRAVEL COMPANY

Phone number:

913 451 8900

2. Name and address of company that owns the cement kilns at this facility:

Ash Gravel Company  
896 Indian Creek Parkway, Clinton Park, KS  
66225

Facility name, location, and address:

Ash Gravel Louisville Cement Plant  
Highway 550 and 66, Louisville, NE

EPA ID of burner:

NED0C7266672

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):

Same as above

EPA ID of on-site processor:

N/A

EPA ID of other on-site hazardous waste transporter:

N/A

marketer:

N/A

storer:

N/A

3. Number of kilns currently burning hazardous wastes at this facility:

2

Additional kilns expected to burn hazardous wastes by July 1994:

0

Kilns at this facility not expected to burn hazardous wastes by July 1994:

0

Total Number of kilns at this facility (should be total of above):

2

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

**Liquids**

Percent received from off-site processors (excluding generators): 100  
Processor 1 Auganic Industries Inc. 708-705-0125  
Processor 2 Polymer Control Industries of America 219-347-3951  
Processor 3 Petro-Chem Processing 313-524-5429  
Processor 4 Gibraltar Chemical Research Inc. 403-877-3222

**Pumpable Sludges**

Percent received from off-site processors (excluding generators):  
Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Percent received from off-site processors (excluding generators):  
Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

**Nonpumpable Sludges**

Percent received from off-site processors (excluding generators):  
Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

**Containerized Solids**

Percent received from off-site processors (excluding generators): 100

Processor 1 Petro-Chem Processing 313-820-5829

Processor 2 Polymer Control Industries of America 219-397-2951

Processor 3 Auganic Industries Inc. 708-705-0125

Processor 4 Murphy 211 504-271-4141

**Bulk Solids**

Percent received from off-site processors (excluding generators):  
Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

**Dry Solids**

Percent received from off-site processors (excluding generators):  
Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

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B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin  
 Steel Drum, specify sizes: 5 - 6.5 gal.  
 Poly Drum, specify sizes: 5 - 7.5 gal.  
Fiber Drum, specify sizes:  
 Bag or other flexible container, specify sizes: 7-15 gal.  
Rigid Tote  
 Tanker Trucks (transferred to tank)  
Tanker Trucks (direct feed to kiln)  
 Rail car  
 Carboy  
 Pallet  
Other, specify: \_\_\_\_\_

6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers	60,500 gal.	119,500 gal.	1992
Liquid Tanks	76,500 gal.	76,500 gal.	1992
Other (specify)			

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

NONE

6c. What processing operations do you perform on-site for solid wastes?

None

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	4606	None	70,000	T
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids	1,768	None	27,840	P
Bulk Solids				
Dry Solids				
Total	6374		97,840	

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Kiln Number: 1 of 2

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: Allis Chalmers rotary preheater cement kiln

Clinker capacity (tons/hr): 58 TPH

Thermal input (Btu/ton clinker): 4.3 X 10<sup>6</sup> Btu/ton 250 mm BTU/Hr.

Type of cement product(s) produced in this kiln: Portland Cement

Total hours operating per year on average: 7500

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end:   

Containerized solids charged to calcining zone: X

Sludge Pump:   

Other: (specify)   

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Kiln Number: 1 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	2,303	35,000	P
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids	824	13,920	P
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 30 (%)  
 Percent of above solids originally generated as solids: 1/R.A. (%)

N.F.P. = 1 / R.A. + 1 / A.R. + 1 / P.R.

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Kiln Number: 1 of 2

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	10,000	24	290	11,600	42%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids	4,000	24	290	6,600	10%
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

Available for burning waste 290 days = 32% of 365

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Kiln Number: 1 of 2

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Dec, January, February or March

How long? 3-4 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter): N/A

b) Physical changes (include planned schedule):

c) Regulatory modifications (include planned schedule):

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SUPPLEMENTAL QUESTION SET  
FOR ADDITIONAL KILNS

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Kiln Number: 2 of 2

This supplemental question set should be completed for each additional kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 2

Type of Kiln: Humboldt Wedag rotating preheater cement kiln

Clinker capacity (tons/hr): 75 TPH

Thermal input (Btu/ton clinker): 3.5 X 10<sup>6</sup> BTU/ton 260 min RTU/Hr

Type of cement product(s) produced in this kiln: Portland Cement

Total hours operating per year on average: 7500

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end:

Containerized solids charged to calcining zone: X

Sludge Pump:

Other: (specify)

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Kiln Number: N of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	2,363	35,000	P
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids	884	13,920	P
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 30 (%)  
 Percent of solids originally generated as solids: N/A (%)

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S-2

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Kiln Number: N of N

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	10,000	24	290	11,000	44%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids	4,000	24	290	6,000	10%
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 2 of 2

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Nov, Dec, January, February or March

How long? 3-4 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter): N/A

b) Physical changes (include planned schedule):

c) Regulatory modifications (include planned schedule):

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S-4

Liquid Waste Acceptance Limits As Received (Refer to Attachment)

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

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"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion BTU/#	8000 average		P
Water Content			
Total Solids Content		30%	T
Total Inorganics Content			
Particle/Object Size		1/2"	T
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content		0.66%	P
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Liquid Waste Limitations

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		10 ppm	P
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify PCB		10 ppm	P
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content		5130 ppm	P
Beryllium Content			
Cadmium Content		100 ppm	P
Chromium Content			
Copper Content			
Lead Content		2000 ppm	P
Mercury Content		10 ppm	P
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) Yes

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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#### Containerized Solids Waste Acceptance Limits As Received

- 16a. Are your containerized solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16b:

13

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion BTU/lb	6000		P
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content		7.3 %	Q
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		10 ppm	P
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify PC-B		10 ppm	P
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content		6640 ppm	P
Beryllium Content			
Cadmium Content		200 ppm	P
Chromium Content		2,250 ppm	P
Copper Content			
Lead Content		8,293 ppm	P
Mercury Content		10 ppm	P
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Containerized Solids Waste Acceptance Limits As Burned**

- 16b. Are your containerized solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17a:  
Yes

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (✓)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)	Y			
Personal Protection Equipment (e.g., Tyvex suits)	Y			
Paper or Cardboard Materials	Y			
Filter Cartridges	Y			
Wood Materials	Y			
Rubber Objects (e.g., tires, hoses)	Y			
PVC Pipe	Y			
Other Plastic Debris	Y			
Glass Debris	Y			
Ceramic Debris (e.g., semiconductors)	Y			
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)	N			
Asbestos Materials (e.g., shingles, insulation)	N			
Non-Soil Geologic Material (e.g., rocks)	N			
Concrete Debris	N			
Refractory Brick	N			
Other Bricks	N			
Slag	N			
Intact Batteries	N			
Battery Cases	N	Y		
Electronic Components (e.g., printed circuit boards)	N			
Electrical Wires, Switches, etc.	N			

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20. Please explain any debris acceptance conditions noted on the previous page:

N/A

- 20a. Do you accept soils? If so, under what conditions or limitations?

Yes, if containerized a-f if BTUs

< 666 Scov BTU/lb

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**C. Permit Conditions**

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

Refer to the attached RCRA Part A Application

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

N/A

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

N/A

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
FP - Fully Permitted to receive RCRA hazardous wastes  
PM - Preparing Permit Modification for Additional Wastes  
SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
MA - Modifying Permit Application for Additional RCRA Wastes  
IS - Interim Status  
ND - Currently Responding to Notices of Deficiency in Application  
PH - Awaiting Public Hearing on Permit  
OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
<u>Federal</u> <u>BIF</u>	US EPA Region 7	IS	
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
<u>State</u> <u>Hazardous Waste</u>			
Air Emission	Mass. Dept. of Environmental Control	FP	
Land Use/Siting			
Other (specify)			
<u>Local</u> <u>Hazardous Waste</u>			
Air Emission			
Land Use/Siting			
Other (specify)			

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

N/A

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26. When do you plan to submit a BIF Certification of Compliance (month and year)?

June 1992

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes  
 No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

- a) When (month or quarter, and year):

June 1992

- b) Effect on hazardous waste capacity:

Compliance testing to broaden fuel specification and increase firing rate. Testing is planned at 1.5 to 2 times the current permit rate.

- c) Modifications:

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For EPA Regional Use Only		<b>EPA</b> United States Environmental Protection Agency Washington, DC 20460		For State Use Only	
<b>Hazardous Waste Permit Application</b>					
<b>Part A</b>					
(Read the Instructions before starting)					
I. ID Number(s)					
A. EPA ID Number		B. Secondary ID Number (If applicable)			
N E D 0 0 7 2 6 0 6 7 2					
II. Name of Facility					
A S H G R O V E C E M E N T P L A N T					
III. Facility Location (Physical address not P.O. Box or Route Number)					
A. Street					
H I G H W A Y S 5 0 A N D 6 6 I N T E R C H A N G E					
Street (continued)					
City or Town		State		ZIP Code	
L O U I S V I L L E		N E		6 8 0 3 7 -	
County Code (if known)		County Name			
C A S S					
B. Land Type	C. Geographic Location			D. Facility Existence Date	
(enter code)	LATITUDE (degrees, minutes, & seconds)		LONGITUDE (degrees, minutes, & seconds)		Month Day Year
P	4	1	0	0	2 7 9 0 9 6 0 9 1 9 6 0 4 3 0 1 9 8 7
IV. Facility Mailing Address					
Street or P.O. Box					
P O B O X 6 0 9					
City or Town		State		ZIP Code	
L O U I S V I L L E		N E		6 8 0 3 7 -	
V. Facility Contact (Person to be contacted regarding waste activities at facility)					
Name (last)		(first)			
W A L K E R		W I L L I A M			
Job Title		Phone Number (area code and number)			
P L A N T M A N A G E R		4 0 2 - 2 3 4 - 2 4 1 5			
VI. Facility Contact Address (See instructions)					
A. Contact Address Location Mailing	B. Street or P.O. Box				
X					
City or Town		State		ZIP Code	

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5500-1244-0000-0000

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EPA I.D. Number (enter from page 1)		Secondary ID Number (enter from page 1)	
<b>N E D 0 0 7 2 6 0 6 7 2</b>			
<b>XI. Nature of Business (provide a brief description)</b>			
<p>Manufacturing of Portland Cement - involves:</p> <ol style="list-style-type: none"> <li>1) Quarrying and crushing of limestone and acquisition of other raw materials;</li> <li>2) Grinding of raw materials;</li> <li>3) Pyroprocessing of the raw materials in a rotary cement kiln to form Portland Cement clinker; and</li> <li>4) Grinding of clinker with gypsum to form Portland Cement.</li> </ol>			
<b>XII. Process - Codes and Design Capacities</b>			
<p><b>A. PROCESS CODE</b> - Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then provide the process (including its design capacity) in the space provided in Item XIIIC.</p>			
<p><b>B. PROCESS DESIGN CAPACITY</b> - For each code entered in column A, enter the capacity of the process.</p> <ol style="list-style-type: none"> <li>1. <b>AMOUNT</b> - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.</li> <li>2. <b>UNIT OF MEASURE</b> - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.</li> </ol>			
<p><b>C. PROCESS TOTAL NUMBER OF UNITS</b> - Enter the total number of units used and the corresponding unit of measure.</p>			
PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	UNIT OF MEASURE
D79	<b>DISPOSAL:</b> <b>INJECTION WELL</b>	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY	GALLONS .....
D80	<b>LANDFILL</b>	ACRE-FEET OR HECTARE-METER	GALLONS PER HOUR..... E
D81	<b>LAND APPLICATION</b>	ACRES OR HECTARES	GALLONS PER DAY..... U
D82	<b>OCEAN DISPOSAL</b>	GALLONS PER DAY OR LITERS PER DAY	LITERS .....
D83	<b>SURFACE IMPOUNDMENT</b>	GALLONS OR LITERS	LITERS PER HOUR..... H
S01	<b>STORAGE:</b> <b>CONTAINER</b> (barrel, drum, etc.)	GALLONS OR LITERS	LITERS PER DAY..... V
S02	<b>TANK</b>	GALLONS OR LITERS	SHORT TONS PER HOUR..... D
S03	<b>WASTE PILE</b>	CUBIC YARDS OR CUBIC METERS	METRIC TONS PER HOUR..... W
S04	<b>SURFACE IMPOUNDMENT</b>	GALLONS OR LITERS	SHORT TONS PER DAY..... N
T01	<b>TREATMENT:</b> <b>TANK</b>	GALLONS PER DAY OR LITERS PER DAY	METRIC TONS PER DAY..... S
T02	<b>SURFACE IMPOUNDMENT</b>	GALLONS PER DAY OR LITERS PER DAY	POUNDS PER HOUR..... J
T03	<b>INCINERATOR</b>	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR	KILOGRAMS PER HOUR..... R
T04	<b>OTHER TREATMENT</b> <small>(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XIIIC.)</small>	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY	CUBIC YARDS .....
			ACRES .....
			ACRE-FEET .....
			HECTARES .....
			HECTARE-METER..... F
			BTU'S PER HOUR..... K

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State/Zip \_\_\_\_\_

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

N E D 0 0 7 2 6 0 6 7 2

**XII. Process - Codes and Design Capacities (continued)**

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)		
X-1	S-0-3	600	G	0 0 2	
X-2	T-0-3	20	E	0 0 1	
1	S-0-1	152,000	G	0 0 1	
2	S-0-2	180,000	G	0 0 2	
3	T-0-1	35,000	U	0 0 2	
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Please print or type with E-CPE type (10 characters per inch) in the unshaded areas only.

EPA I.D. Number (enter from page 1)						Secondary ID Number (enter from page 1)					
N	E	D	0	0	7	2	6	0	6	7	2

**XIV. Description of Hazardous Wastes**

- A. **EPA HAZARDOUS WASTE NUMBER** - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. **ESTIMATED ANNUAL QUANTITY** - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. **UNIT OF MEASURE** - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

**D. PROCESSES**

**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XIV A, on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XIV A, on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possesses that characteristic or toxic contaminant.

**NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:**

1. Enter the first two as described above.
2. Enter "000" in the extreme right box of Item XIV-D(1).
3. Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).

**2. PROCESS DESCRIPTION:** If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.2).

**NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER** - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with Above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

**EXAMPLE FOR COMPLETING ITEM XIV** (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS								
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))				
X-1	K 0 5 4	900	P	T	0	3	D	0	0			
X-2	D 0 0 2	400	P	T	0	3	D	0	0			
X-3	D 0 0 1	100	P	T	0	3	D	0	0			
X-4	D 0 0 2											Included With Above

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)							
N	E	D	0	0	7	2	6	0	6	7	2
XIV Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (if a code is not entered in D1)			
1	D 0 0 1	5.0 x 10 <sup>6</sup>	P	S	O	I	S	0	2	T	0
2	D 0 0 4	2.0 x 10 <sup>6</sup>	P	"	"	"	"	"	"	"	"
3	D 0 0 5	" "	P	"	"	"	"	"	"	"	"
4	D 0 0 6	" "	P	"	"	"	"	"	"	"	"
5	D 0 0 7	" "	P	"	"	"	"	"	"	"	"
6	D 0 0 8	" "	P	"	"	"	"	"	"	"	"
7	D 0 0 9	" "	P	"	"	"	"	"	"	"	"
8	D 0 1 0	" "	P	"	"	"	"	"	"	"	"
9	D 0 1 1	" "	P	"	"	"	"	"	"	"	"
10	D 0 1 2	" "	P	"	"	"	"	"	"	"	"
11	D 0 1 3	" "	P	"	"	"	"	"	"	"	"
12	D 0 1 4	" "	P	"	"	"	"	"	"	"	"
13	D 0 1 5	" "	P	"	"	"	"	"	"	"	"
14	D 0 1 6	" "	P	"	"	"	"	"	"	"	"
15	D 0 1 7	" "	P	"	"	"	"	"	"	"	"
16	D 0 1 8	" "	P	"	"	"	"	"	"	T	O
17	D 0 1 9	" "	P	"	"	"	"	"	"	"	"
18	D 0 2 0	" "	P	"	"	"	"	"	"	"	"
19	D 0 2 1	" "	P	"	"	"	"	"	"	"	"
20	D 0 2 2	" "	P	"	"	"	"	"	"	"	"
21	D 0 2 3	" "	P	"	"	"	"	"	"	"	"
22	D 0 2 4	" "	P	"	"	"	"	"	"	"	"
23	D 0 2 5	" "	P	"	"	"	"	"	"	"	"
24	D 0 2 6	" "	P	"	"	"	"	"	"	"	"
25	D 0 2 7	" "	P	"	"	"	"	"	"	"	"
26	D 0 2 8	" "	P	"	"	"	"	"	"	"	"
27	D 0 2 9	" "	P	"	"	"	"	"	"	"	"
28	D 0 3 0	" "	P	"	"	"	"	"	"	"	"
29	D 0 3 1	" "	P	"	"	"	"	"	"	"	"
30	D 0 3 2	" "	P	"	"	"	"	"	"	"	"
31	D 0 3 3	" "	P	"	"	"	"	"	"	"	"
32	D 0 3 4	" "	P	"	"	"	"	"	"	"	"
33	D 0 3 5	2.0 x 10 <sup>8</sup>	P	S	O	I	S	0	2	T	0
											T
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For a copy of the EPCRA Title III reporting requirements, refer to the instructions on page 1.

XIV. Description of Hazardous Wastes (continued)				D. PROCESSES								
Line Number	A. EPA ID Number (enter from page 1)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))				
1	D 0 0 3 6	2.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4
2	D 0 0 3 7	" "	P	"	"	"	"	"	"	"	"	"
3	D 0 0 3 8	" "	P	"	"	"	"	"	"	"	"	"
4	D 0 0 3 9	" "	P	"	"	"	"	"	"	"	"	"
5	D 0 0 4 0	" "	P	"	"	"	"	"	"	"	"	"
6	D 0 0 4 1	" "	P	"	"	"	"	"	"	"	"	"
7	D 0 0 4 2	" "	P	"	"	"	"	"	"	"	"	"
8	D 0 0 4 3	" "	P	"	"	"	"	"	"	"	"	T 0 1
9	F 0 0 1	5.0 x 10 <sup>8</sup>	P	"	"	"	"	"	"	"	"	"
10	F 0 0 2	" "	P	"	"	"	"	"	"	"	"	"
11	F 0 0 3	" "	P	"	"	"	"	"	"	"	"	"
12	F 0 0 4	" "	P	"	"	"	"	"	"	"	"	"
13	F 0 0 5	" "	P	"	"	"	"	"	"	"	"	"
14	F 0 0 6	1.0 x 10 <sup>8</sup>	P	"	"	"	"	"	"	"	"	"
15	F 0 0 7	" "	P	"	"	"	"	"	"	"	"	"
16	F 0 0 8	" "	P	"	"	"	"	"	"	"	"	"
17	F 0 0 9	" "	P	"	"	"	"	"	"	"	"	"
18	F 0 1 0	" "	P	"	"	"	"	"	"	"	"	"
19	F 0 1 1	" "	P	"	"	"	"	"	"	"	"	"
20	F 0 1 2	" "	P	"	"	"	"	"	"	"	"	"
21	F 0 1 9	" "	P	"	"	"	"	"	"	"	"	"
22	F 0 2 4	" "	P	"	"	"	"	"	"	"	"	"
23	F 0 2 5	" "	P	"	"	"	"	"	"	"	"	"
24	F 0 2 8	" "	P	"	"	"	"	"	"	"	"	"
25	F 0 3 4	" "	P	"	"	"	"	"	"	"	"	"
26	F 0 3 5	" "	P	"	"	"	"	"	"	"	"	"
27	F 0 3 7	" "	P	"	"	"	"	"	"	"	"	"
28	F 0 3 8	" "	P	"	"	"	"	"	"	"	"	"
29	F 0 3 9	" "	P	"	"	"	"	"	"	"	"	"
30	K 0 0 1	" "	P	"	"	"	"	"	"	"	"	"
31	K 0 0 2	" "	P	"	"	"	"	"	"	"	"	"
32	K 0 0 3	" "	P	"	"	"	"	"	"	"	"	"
33	K 0 0 4	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 2)											
N	E	D	0 0 . 7 2 6 0 6 7 2												
XIV Description of Hazardous Wastes (continued)															
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								(2) PROCESS DESCRIPTIC (If a code is not entered in C)			
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTIC (If a code is not entered in C)										
1	K 0 0 5	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4									
2	K 0 0 6	" "	P	"	"	"									
3	K 0 0 7	" "	P	"	"	"									
4	K 0 0 8	" "	P	"	"	"									
5	K 0 0 9	" "	P	"	"	"									
6	K 0 1 0	" "	P	"	"	"									
7	K 0 1 1	" "	P	"	"	"									
8	K 0 1 3	" "	P	"	"	"									
9	K 0 1 4	" "	P	"	"	"									
10	K 0 1 5	" "	P	"	"	"									
11	K 0 1 6	" "	P	"	"	"									
12	K 0 1 7	" "	P	"	"	"									
13	K 0 1 8	" "	P	"	"	"									
14	K 0 1 9	" "	P	"	"	"									
15	K 0 2 0	" "	P	"	"	"									
16	K 0 2 1	" "	P	"	"	"									
17	K 0 2 2	" "	P	"	"	"									
18	K 0 2 3	" "	P	"	"	"									
19	K 0 2 4	" "	P	"	"	"									
20	K 0 2 5	" "	P	"	"	"									
21	K 0 2 6	" "	P	"	"	"									
22	K 0 2 7	" "	P	"	"	"									
23	K 0 2 8	" "	P	"	"	"									
24	K 0 2 9	" "	P	"	"	"									
25	K 0 3 0	" "	P	"	"	"									
26	K 0 3 1	" "	P	"	"	"									
27	K 0 3 2	" "	P	"	"	"									
28	K 0 3 3	" "	P	"	"	"									
29	K 0 3 4	" "	P	"	"	"									
30	K 0 3 5	" "	P	"	"	"									
31	K 0 3 6	" "	P	"	"	"									
32	K 0 3 7	" "	P	"	"	"									
33	K 0 3 8	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4									

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)			
N E D 0 0 7 2 6 0 6 7 2							
<b>XIV Description of Hazardous Wastes (continued)</b>							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (if a code is not entered in D(1))	
1	K 0 3 9	$1.0 \times 10^8$	P	S 0 1	S 0 2	T 0 4	
2	K 0 4 0	" "	P	"	"	"	
3	K 0 4 1	" "	P	"	"	"	
4	K 0 4 2	" "	P	"	"	"	
5	K 0 4 3	" "	P	"	"	"	
6	K 0 4 4	" "	P	"	"	"	
7	K 0 4 5	" "	P	"	"	"	
8	K 0 4 6	" "	P	"	"	"	
9	K 0 4 7	" "	P	"	"	"	
10	K 0 4 8	$2.0 \times 10^8$	P	"	"	"	
11	K 0 4 9	" "	P	"	"	"	
12	K 0 5 0	" "	P	"	"	"	
13	K 0 5 1	" "	P	"	"	"	
14	K 0 5 2	" "	P	"	"	"	
15	K 0 6 0	$1.0 \times 10^8$	P	"	"	"	
16	K 0 6 1	" "	P	"	"	"	
17	K 0 6 2	" "	P	"	"	"	
18	K 0 6 4	" "	P	"	"	"	
19	K 0 6 5	" "	P	"	"	"	
20	K 0 6 6	" "	P	"	"	"	
21	K 0 7 1	" "	P	"	"	"	
22	K 0 7 3	" "	P	"	"	"	
23	K 0 8 3	" "	P	"	"	"	
24	K 0 8 4	" "	P	"	"	"	
25	K 0 8 5	" "	P	"	"	"	
26	K 0 8 6	" "	P	"	"	"	
27	K 0 8 7	" "	P	"	"	"	
28	K 0 8 8	" "	P	"	"	"	
29	K 0 9 0	" "	P	"	"	"	
30	K 0 9 1	" "	P	"	"	"	
31	K 0 9 3	" "	P	"	"	"	
32	K 0 9 4	" "	P	"	"	"	
33	K 0 9 5	$0 \times 10^8$	P	S 0 1	S 0 2	T 0 4	

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EPA ID Number (enter from page 1)			Secondary ID Number (enter from page 2)							
N E D 0 0 0 7 2 6 0 6 7 2										
XIV. Description of Hazardous Wastes (continued)										
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPT. (If a code is not entered in			
1	K 0 9 6	$1.0 \times 10^8$	P	S	0	1	S	0 2	T	0 4
2	K 0 9 7	" "	P	"	"	"	"	"	"	"
3	K 0 9 8	" "	P	"	"	"	"	"	"	"
4	K 0 9 9	" "	P	"	"	"	"	"	"	"
5	K 1 0 0	" "	P	"	"	"	"	"	"	"
6	K 1 0 1	" "	P	"	"	"	"	"	"	"
7	K 1 0 2	" "	P	"	"	"	"	"	"	"
8	K 1 0 3	" "	P	"	"	"	"	"	"	"
9	K 1 0 4	" "	P	"	"	"	"	"	"	"
10	K 1 0 5	" "	P	"	"	"	"	"	"	"
11	K 1 0 6	" "	P	"	"	"	"	"	"	"
12	K 1 1 1	" "	P	"	"	"	"	"	"	"
13	K 1 1 2	" "	P	"	"	"	"	"	"	"
14	K 1 1 3	" "	P	"	"	"	"	"	"	"
15	K 1 1 4	" "	P	"	"	"	"	"	"	"
16	K 1 1 5	" "	P	"	"	"	"	"	"	"
17	K 1 1 6	" "	P	"	"	"	"	"	"	"
18	K 1 1 7	" "	P	"	"	"	"	"	"	"
19	K 1 1 8	" "	P	"	"	"	"	"	"	"
20	K 1 2 3	" "	P	"	"	"	"	"	"	"
21	K 1 2 4	" "	P	"	"	"	"	"	"	"
22	K 1 2 5	" "	P	"	"	"	"	"	"	"
23	K 1 2 6	" "	P	"	"	"	"	"	"	"
24	K 1 3 1	" "	P	"	"	"	"	"	"	"
25	K 1 3 2	" "	P	"	"	"	"	"	"	"
26	K 1 3 6	" "	P	"	"	"	"	"	"	"
27	P 0 0 1	" "	P	"	"	"	"	"	"	"
28	P 0 0 2	" "	P	"	"	"	"	"	"	"
29	P 0 0 3	" "	P	"	"	"	"	"	"	"
30	P 0 0 4	" "	P	"	"	"	"	"	"	"
31	P 0 0 5	" "	P	"	"	"	"	"	"	"
32	P 0 0 6	" "	P	"	"	"	"	"	"	"
33	P 0 0 7	$1.0 \times 10^8$	P	S	0	1	S	0 2	T	0 4

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EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)						
N E D 0 0 7 2 6 0 6 7 2										
XIV. Description of Hazardous Wastes (continued)										
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
1	P 0 0 8	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4				
2	P 0 0 9	" "	P	"	"	"				
3	P 0 1 0	" "	P	"	"	"				
4	P 0 1 1	" "	P	"	"	"				
5	P 0 1 2	" "	P	"	"	"				
6	P 0 1 3	" "	P	"	"	"				
7	P 0 1 4	" "	P	"	"	"				
8	P 0 1 5	" "	P	"	"	"				
9	P 0 1 6	" "	P	"	"	"				
10	P 0 1 7	" "	P	"	"	"				
11	P 0 1 8	" "	P	"	"	"				
12	P 0 2 0	" "	P	"	"	"				
13	P 0 2 1	" "	P	"	"	"				
14	P 0 2 2	" "	P	"	"	"				
15	P 0 2 3	" "	P	"	"	"				
16	P 0 2 4	" "	P	"	"	"				
17	P 0 2 6	" "	P	"	"	"				
18	P 0 2 7	" "	P	"	"	"				
19	P 0 2 8	" "	P	"	"	"				
20	P 0 2 9	" "	P	"	"	"				
21	P 0 3 0	" "	P	"	"	"				
22	P 0 3 1	" "	P	"	"	"				
23	P 0 3 3	" "	P	"	"	"				
24	P 0 3 4	" "	P	"	"	"				
25	P 0 3 6	" "	P	"	"	"				
26	P 0 3 7	" "	P	"	"	"				
27	P 0 3 8	" "	P	"	"	"				
28	P 0 3 9	" "	P	"	"	"				
29	P 0 4 0	" "	P	"	"	"				
30	P 0 4 1	" "	P	"	"	"				
31	P 0 4 2	" "	P	"	"	"				
32	P 0 4 3	" "	P	"	"	"				
33	P 0 4 4	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4				

**NOTICE**  
If the filmed image is less clear  
than this Notice it is due to  
the quality of the document  
being filmed.

CD2F 002

0 9 6 8

Please print or type in ELLC type (10 characters per inch) in the Unit and Area areas.

If the filled image is less clear  
than this Notice it is due to  
the quality of the document  
being filled.

CD2F 002

0 9 6 9

EPA ID Number (enter from page 1)			Secondary ID Number (enter from page 1)						
N E D 0 0 7 2 6 0 6 7 2									
XIV. Description of Hazardous Wastes (continued)									
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES					
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTION (If code is not entered in D(1))		
1	P 0 4 5	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4			
2	P 0 4 6	" / "	P	"	"	"			
3	P 0 4 7	" "	P	"	"	"			
4	P 0 4 8	" "	P	"	"	"			
5	P 0 4 9	" "	P	"	"	"			
6	P 0 5 0	" "	P	"	"	"			
7	P 0 5 1	" "	P	"	"	"			
8	P 0 5 4	" "	P	"	"	"			
9	P 0 5 7	" "	P	"	"	"			
10	P 0 5 8	" "	P	"	"	"			
11	P 0 5 9	" "	P	"	"	"			
12	P 0 6 0	" "	P	"	"	"			
13	P 0 6 2	" "	P	"	"	"			
14	P 0 6 3	" "	P	"	"	"			
15	P 0 6 4	" "	P	"	"	"			
16	P 0 6 5	" "	P	"	"	"			
17	P 0 6 6	" "	P	"	"	"			
18	P 0 6 7	" "	P	"	"	"			
19	P 0 6 8	" "	P	"	"	"			
20	P 0 6 9	" "	P	"	"	"			
21	P 0 7 0	" "	P	"	"	"			
22	P 0 7 1	" "	P	"	"	"			
23	P 0 7 2	" "	P	"	"	"			
24	P 0 7 3	" "	P	"	"	"			
25	P 0 7 4	" "	P	"	"	"			
26	P 0 7 5	" "	P	"	"	"			
27	P 0 7 6	" "	P	"	"	"			
28	P 0 7 7	" "	P	"	"	"			
29	P 0 7 8	" "	P	"	"	"			
30	P 0 8 1	" "	P	"	"	"			
31	P 0 8 2	" "	P	"	"	"			
32	P 0 8 4	" "	P	"	"	"			
33	P 0 8 5	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4			

Please enter the following ELITE 12 character identifier in the unprinted areas of the  
 Secondary ID Number (enter from page 1)

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 than this Notice it is due to  
 the quality of the document  
 being filled.

CD2F 002

0 9 7 0

EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)									
N E D 0 0 7 2 6 0 6 7 2													
XIV. Description of Hazardous Wastes (continued)													
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D PROCESSES:						(2) PROCESS DESCRIPTION (a code is not entered in D(1))			
				(1) PROCESS CODES (enter)						(2) PROCESS DESCRIPTION (a code is not entered in D(1))			
1	P 0 8	71.0 x 10 <sup>8</sup>	P	S 0 1	I S 0 2	T 0 4							
2	P 0 8	8 "	P	"	"	"							
3	P 0 8	9 "	P	"	"	"							
4	P 0 9	2 "	P	"	"	"							
5	P 0 9	3 "	P	"	"	"							
6	P 0 9	4 "	P	"	"	"							
7	P 0 9	5 "	P	"	"	"							
8	P 0 9	6 "	P	"	"	"							
9	P 0 9	7 "	P	"	"	"							
10	P 0 9	8 "	P	"	"	"							
11	P 0 9	9 "	P	"	"	"							
12	P 1 0	1 "	P	"	"	"							
13	P 1 0	2 "	P	"	"	"							
14	P 1 0	3 "	P	"	"	"							
15	P 1 0	4 "	P	"	"	"							
16	P 1 0	5 "	P	"	"	"							
17	P 1 0	6 "	P	"	"	"							
18	P 1 0	7 "	P	"	"	"							
19	P 1 0	8 "	P	"	"	"							
20	P 1 0	9 "	P	"	"	"							
21	P 1 1	0 "	P	"	"	"							
22	P 1 1	1 "	P	"	"	"							
23	P 1 1	2 "	P	"	"	"							
24	P 1 1	3 "	P	"	"	"							
25	P 1 1	4 "	P	"	"	"							
26	P 1 1	5 "	P	"	"	"							
27	P 1 1	6 "	P	"	"	"							
28	P 1 1	8 "	P	"	"	"							
29	P 1 1	9 "	P	"	"	"							
30	P 1 2	0 "	P	"	"	"							
31	P 1 2	1 "	P	"	"	"							
32	P 1 2	2 "	P	"	"	"							
33	P 1 2	3 1.0 x 10 <sup>8</sup>	P	S 0 1	I S 0 2	T 0 4							

Please print or type in ink or dark ink only. Use a sharp pencil for any other markings.

XIV. Description of Hazardous Wastes (continued)				D PROCESSES									
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	(1) PROCESS CODES (enter)					(2) PROCESS DESCRIPTION (If code is not entered in row 1)				
1	U 0 0 0	11.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4	
2	U 0 0 2	" "	P	"	"	"	"	"	"	"	"	"	
3	U 0 0 3	" "	P	"	"	"	"	"	"	"	"	"	
4	U 0 0 4	" "	P	"	"	"	"	"	"	"	"	"	
5	U 0 0 5	" "	P	"	"	"	"	"	"	"	"	"	
6	U 0 0 6	" "	P	"	"	"	"	"	"	"	"	"	
7	U 0 0 7	" "	P	"	"	"	"	"	"	"	"	"	
8	U 0 0 8	" "	P	"	"	"	"	"	"	"	"	"	
9	U 0 0 9	" "	P	"	"	"	"	"	"	"	"	"	
10	U 0 1 0	" "	P	"	"	"	"	"	"	"	"	"	
11	U 0 1 1	" "	P	"	"	"	"	"	"	"	"	"	
12	U 0 1 2	" "	P	"	"	"	"	"	"	"	"	"	
13	U 0 1 4	" "	P	"	"	"	"	"	"	"	"	"	
14	U 0 1 5	" "	P	"	"	"	"	"	"	"	"	"	
15	U 0 1 6	" "	P	"	"	"	"	"	"	"	"	"	
16	U 0 1 7	" "	P	"	"	"	"	"	"	"	"	"	
17	U 0 1 8	" "	P	"	"	"	"	"	"	"	"	"	
18	U 0 1 9	" "	P	"	"	"	"	"	"	"	"	"	
19	U 0 2 0	" "	P	"	"	"	"	"	"	"	"	"	
20	U 0 2 1	" "	P	"	"	"	"	"	"	"	"	"	
21	U 0 2 2	" "	P	"	"	"	"	"	"	"	"	"	
22	U 0 2 3	" "	P	"	"	"	"	"	"	"	"	"	
23	U 0 2 4	" "	P	"	"	"	"	"	"	"	"	"	
24	U 0 2 5	" "	P	"	"	"	"	"	"	"	"	"	
25	U 0 2 6	" "	P	"	"	"	"	"	"	"	"	"	
26	U 0 2 7	" "	P	"	"	"	"	"	"	"	"	"	
27	U 0 2 8	" "	P	"	"	"	"	"	"	"	"	"	
28	U 0 2 9	" "	P	"	"	"	"	"	"	"	"	"	
29	U 0 3 0	" "	P	"	"	"	"	"	"	"	"	"	
30	U 0 3 1	" "	P	"	"	"	"	"	"	"	"	"	
31	U 0 3 2	" "	P	"	"	"	"	"	"	"	"	"	
32	U 0 3 3	" "	P	"	"	"	"	"	"	"	"	"	
33	U 0 3 4 1.0 x 10 <sup>8</sup>		P	S	0	1	S	0	2	T	0	4	

CD2F 002

0 9 7 1

NOTICE  
If the filled image is less clear  
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Please print or type in all capital letters (no spaces or punctuation) in the unshaded areas only.

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being filled.

CD2F 002

8 9 7 2

EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)								
N E D 0 0 0 7 2 6 0 6 7 2												
XIV. Description of Hazardous Wastes (continued)												
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						(2) PROCESS DESCRIPTION (If a code is not entered in D(1))		
				(1) PROCESS CODES (enter)								
1	U 0 3 5	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4
2	U 0 3 6	" "	P	"	"	"	"	"	"	"	"	"
3	U 0 3 7	" "	P	"	"	"	"	"	"	"	"	"
4	U 0 3 8	" "	P	"	"	"	"	"	"	"	"	"
5	U 0 3 9	" "	P	"	"	"	"	"	"	"	"	"
6	U 0 4 1	" "	P	"	"	"	"	"	"	"	"	"
7	U 0 4 2	" "	P	"	"	"	"	"	"	"	"	"
8	U 0 4 3	" "	P	"	"	"	"	"	"	"	"	"
9	U 0 4 4	" "	P	"	"	"	"	"	"	"	"	"
10	U 0 4 5	" "	P	"	"	"	"	"	"	"	"	"
11	U 0 4 6	" "	P	"	"	"	"	"	"	"	"	"
12	U 0 4 7	" "	P	"	"	"	"	"	"	"	"	"
13	U 0 4 8	" "	P	"	"	"	"	"	"	"	"	"
14	U 0 4 9	" "	P	"	"	"	"	"	"	"	"	"
15	U 0 5 0	" "	P	"	"	"	"	"	"	"	"	"
16	U 0 5 1	" "	P	"	"	"	"	"	"	"	"	"
17	U 0 5 2	" "	P	"	"	"	"	"	"	"	"	"
18	U 0 5 3	" "	P	"	"	"	"	"	"	"	"	"
19	U 0 5 5	" "	P	"	"	"	"	"	"	"	"	"
20	U 0 5 6	" "	P	"	"	"	"	"	"	"	"	"
21	U 0 5 7	" "	P	"	"	"	"	"	"	"	"	"
22	U 0 5 8	" "	P	"	"	"	"	"	"	"	"	"
23	U 0 5 9	" "	P	"	"	"	"	"	"	"	"	"
24	U 0 6 0	" "	P	"	"	"	"	"	"	"	"	"
25	U 0 6 1	" "	P	"	"	"	"	"	"	"	"	"
26	U 0 6 2	" "	P	"	"	"	"	"	"	"	"	"
27	U 0 6 3	" "	P	"	"	"	"	"	"	"	"	"
28	U 0 6 4	" "	P	"	"	"	"	"	"	"	"	"
29	U 0 6 5	" "	P	"	"	"	"	"	"	"	"	"
30	U 0 6 6	" "	P	"	"	"	"	"	"	"	"	"
31	U 0 6 7	" "	P	"	"	"	"	"	"	"	"	"
32	U 0 6 8	" "	P	"	"	"	"	"	"	"	"	"
33	U 0 6 9	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4

Please print or type in 12 point type (12 characters per inch) in the unshaded areas only.

EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)								
N	E	P	D	0	0	7	2	6	0	6	7	2
XIV. Description of Hazardous Wastes (continued)												
Line Number	A EPA HAZARDOUS WASTE NO. (enter code)	B ESTIMATED ANNUAL QUANTITY OF WASTE	C UNIT OF MEASURE (enter code)	D. PROCESSES						(2) PROCESS DESCRIPTION (If a code is not entered in D(1))		
1	U 0 7 0	1.0 x 10 <sup>8</sup>	F	S	0	1	S	0	2	T	0	4
2	U 0 7 1	" "	P	"	"	"	"	"	"	"	"	"
3	U 0 7 2	" "	P	"	"	"	"	"	"	"	"	"
4	U 0 7 3	" "	P	"	"	"	"	"	"	"	"	"
5	U 0 7 4	" "	P	"	"	"	"	"	"	"	"	"
6	U 0 7 5	" "	P	"	"	"	"	"	"	"	"	"
7	U 0 7 6	" "	P	"	"	"	"	"	"	"	"	"
8	U 0 7 7	" "	P	"	"	"	"	"	"	"	"	"
9	U 0 7 8	" "	P	"	"	"	"	"	"	"	"	"
10	U 0 7 9	" "	P	"	"	"	"	"	"	"	"	"
11	U 0 8 0	" "	P	"	"	"	"	"	"	"	"	"
12	U 0 8 1	" "	P	"	"	"	"	"	"	"	"	"
13	U 0 8 2	" "	P	"	"	"	"	"	"	"	"	"
14	U 0 8 3	" "	P	"	"	"	"	"	"	"	"	"
15	U 0 8 4	" "	P	"	"	"	"	"	"	"	"	"
16	U 0 8 5	" "	P	"	"	"	"	"	"	"	"	"
17	U 0 8 6	" "	P	"	"	"	"	"	"	"	"	"
18	U 0 8 7	" "	P	"	"	"	"	"	"	"	"	"
19	U 0 8 8	" "	P	"	"	"	"	"	"	"	"	"
20	U 0 8 9	" "	P	"	"	"	"	"	"	"	"	"
21	U 0 9 0	" "	P	"	"	"	"	"	"	"	"	"
22	U 0 9 1	" "	P	"	"	"	"	"	"	"	"	"
23	U 0 9 2	" "	P	"	"	"	"	"	"	"	"	"
24	U 0 9 3	" "	P	"	"	"	"	"	"	"	"	"
25	U 0 9 4	" "	P	"	"	"	"	"	"	"	"	"
26	U 0 9 5	" "	P	"	"	"	"	"	"	"	"	"
27	U 0 9 6	" "	P	"	"	"	"	"	"	"	"	"
28	U 0 9 7	" "	P	"	"	"	"	"	"	"	"	"
29	U 0 9 8	" "	P	"	"	"	"	"	"	"	"	"
30	U 0 9 9	" "	P	"	"	"	"	"	"	"	"	"
31	U 1 0 1	" "	P	"	"	"	"	"	"	"	"	"
32	U 1 0 2	" "	P	"	"	"	"	"	"	"	"	"
33	U 1 0 3	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4

NOTICE  
If the filled image is less clear  
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the quality of the document  
being filled.

CD2F 002

0 9 7 3

Please print or type legibly and clearly in ink on one document in the unprotective areas only.

EPA ID Number (enter from page 1)			Secondary ID Number (enter from page 1)									
N E D 0 0 7 2 6 0 6 7 2												
XIV. Description of Hazardous Wastes (continued)												
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTION [If a code is not entered in D(1)]					
1	U 1 0 5	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4
2	U 1 0 6	"	P	"	"	"	"	"	"	"	"	"
3	U 1 0 7	"	P	"	"	"	"	"	"	"	"	"
4	U 1 0 8	"	P	"	"	"	"	"	"	"	"	"
5	U 1 0 9	"	P	"	"	"	"	"	"	"	"	"
6	U 1 1 0	"	P	"	"	"	"	"	"	"	"	"
7	U 1 1 1	"	P	"	"	"	"	"	"	"	"	"
8	U 1 1 2	"	P	"	"	"	"	"	"	"	"	"
9	U 1 1 3	"	P	"	"	"	"	"	"	"	"	"
10	U 1 1 4	"	P	"	"	"	"	"	"	"	"	"
11	U 1 1 5	"	P	"	"	"	"	"	"	"	"	"
12	U 1 1 6	"	P	"	"	"	"	"	"	"	"	"
13	U 1 1 7	"	P	"	"	"	"	"	"	"	"	"
14	U 1 1 8	"	P	"	"	"	"	"	"	"	"	"
15	U 1 1 9	"	P	"	"	"	"	"	"	"	"	"
16	U 1 2 0	"	P	"	"	"	"	"	"	"	"	"
17	U 1 2 1	"	P	"	"	"	"	"	"	"	"	"
18	U 1 2 2	"	P	"	"	"	"	"	"	"	"	"
19	U 1 2 3	"	P	"	"	"	"	"	"	"	"	"
20	U 1 2 4	"	P	"	"	"	"	"	"	"	"	"
21	U 1 2 5	"	P	"	"	"	"	"	"	"	"	"
22	U 1 2 6	"	P	"	"	"	"	"	"	"	"	"
23	U 1 2 7	"	P	"	"	"	"	"	"	"	"	"
24	U 1 2 8	"	P	"	"	"	"	"	"	"	"	"
25	U 1 2 9	"	P	"	"	"	"	"	"	"	"	"
26	U 1 3 0	"	P	"	"	"	"	"	"	"	"	"
27	U 1 3 1	"	P	"	"	"	"	"	"	"	"	"
28	U 1 3 2	"	P	"	"	"	"	"	"	"	"	"
29	U 1 3 3	"	P	"	"	"	"	"	"	"	"	"
30	U 1 3 4	"	P	"	"	"	"	"	"	"	"	"
31	U 1 3 5	"	P	"	"	"	"	"	"	"	"	"
32	U 1 3 6	"	P	"	"	"	"	"	"	"	"	"
33	U 1 3 7	1.0 x 10 <sup>8</sup>	P	S	0	1	S	0	2	T	0	4

NOTICE  
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CD2F 002

0 9 7 4

NOTICE  
If the filmed image is less clear  
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the quality of the document  
being filmed.

CD2F 002

0 9 7 5

Please enter the code in 12 characters per item in the unprinted areas only.

EPA ID Number (enter from page 1)				Secondary ID Number (enter from page 1)											
N E D 0 0 7 2 6 0 6 7 2															
XIV. Description of Hazardous Wastes (continued)															
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								(2) PROCESS DESCRIPTION (If a code is not entered in D)			
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D)							
1	U 1 3 8	1.0 x 10 <sup>8</sup>	P	S 0 1 S 0 2 T 0 4											
2	U 1 4 0	" "	P	"	"	"	"	"	"	"	"	"	"	"	
3	U 1 4 1	" "	P	"	"	"	"	"	"	"	"	"	"	"	
4	U 1 4 2	" "	P	"	"	"	"	"	"	"	"	"	"	"	
5	U 1 4 3	" "	P	"	"	"	"	"	"	"	"	"	"	"	
6	U 1 4 4	" "	P	"	"	"	"	"	"	"	"	"	"	"	
7	U 1 4 5	" "	P	"	"	"	"	"	"	"	"	"	"	"	
8	U 1 4 6	" "	P	"	"	"	"	"	"	"	"	"	"	"	
9	U 1 4 7	" "	P	"	"	"	"	"	"	"	"	"	"	"	
10	U 1 4 8	" "	P	"	"	"	"	"	"	"	"	"	"	"	
11	U 1 4 9	" "	P	"	"	"	"	"	"	"	"	"	"	"	
12	U 1 5 0	" "	P	"	"	"	"	"	"	"	"	"	"	"	
13	U 1 5 1	" "	P	"	"	"	"	"	"	"	"	"	"	"	
14	U 1 5 2	" "	P	"	"	"	"	"	"	"	"	"	"	"	
15	U 1 5 3	" "	P	"	"	"	"	"	"	"	"	"	"	"	
16	U 1 5 4	" "	P	"	"	"	"	"	"	"	"	"	"	"	
17	U 1 5 5	" "	P	"	"	"	"	"	"	"	"	"	"	"	
18	U 1 5 6	" "	P	"	"	"	"	"	"	"	"	"	"	"	
19	U 1 5 7	" "	P	"	"	"	"	"	"	"	"	"	"	"	
20	U 1 5 8	" "	P	"	"	"	"	"	"	"	"	"	"	"	
21	U 1 5 9	" "	P	"	"	"	"	"	"	"	"	"	"	"	
22	U 1 6 0	" "	P	"	"	"	"	"	"	"	"	"	"	"	
23	U 1 6 1	" "	P	"	"	"	"	"	"	"	"	"	"	"	
24	U 1 6 2	" "	P	"	"	"	"	"	"	"	"	"	"	"	
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26	U 1 6 4	" "	P	"	"	"	"	"	"	"	"	"	"	"	
27	U 1 6 5	" "	P	"	"	"	"	"	"	"	"	"	"	"	
28	U 1 6 6	" "	P	"	"	"	"	"	"	"	"	"	"	"	
29	U 1 6 7	" "	P	"	"	"	"	"	"	"	"	"	"	"	
30	U 1 6 8	" "	P	"	"	"	"	"	"	"	"	"	"	"	
31	U 1 6 9	" "	P	"	"	"	"	"	"	"	"	"	"	"	
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33	U 1 7 1	1.0 x 10 <sup>8</sup>	P	S 0 1 S 0 2 T 0 4											

Please print or type in capital letters (12 characters per inch) in the unshaded areas only.

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EPA ID Number (enter from page 3)				Secondary ID Number (enter from page 3)							
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XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
				(1) PROCESS CODES (enter)							
1	U 1 7 2	$1.0 \times 10^8$	P	S	0	1	S	0	2	T	0
2	U 1 7 3	" "	P	"	"	"	"	"	"	"	"
3	U 1 7 4	" "	P	"	"	"	"	"	"	"	"
4	U 1 7 6	" "	P	"	"	"	"	"	"	"	"
5	U 1 7 7	" "	P	"	"	"	"	"	"	"	"
6	U 1 7 8	" "	P	"	"	"	"	"	"	"	"
7	U 1 7 9	" "	P	"	"	"	"	"	"	"	"
8	U 1 8 0	" "	P	"	"	"	"	"	"	"	"
9	U 1 8 1	" "	P	"	"	"	"	"	"	"	"
10	U 1 8 2	" "	P	"	"	"	"	"	"	"	"
11	U 1 8 3	" "	P	"	"	"	"	"	"	"	"
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13	U 1 8 5	" "	P	"	"	"	"	"	"	"	"
14	U 1 8 6	" "	P	"	"	"	"	"	"	"	"
15	U 1 8 7	" "	P	"	"	"	"	"	"	"	"
16	U 1 8 8	" "	P	"	"	"	"	"	"	"	"
17	U 1 8 9	" "	P	"	"	"	"	"	"	"	"
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19	U 1 9 1	" "	P	"	"	"	"	"	"	"	"
20	U 1 9 2	" "	P	"	"	"	"	"	"	"	"
21	U 1 9 3	" "	P	"	"	"	"	"	"	"	"
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26	U 2 0 1	" "	P	"	"	"	"	"	"	"	"
27	U 2 0 2	" "	P	"	"	"	"	"	"	"	"
28	U 2 0 3	" "	P	"	"	"	"	"	"	"	"
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XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (A code is not entered in C)			
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4	U 2 1 3	" "	P	"	"	"					
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32	U 3 2 3	" "	P	"	"	"					
33	U 3 5 3	1.0 x 10 <sup>8</sup>	P	S 0 1	S 0 2	T 0 4					

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Please enter or handwrite information in the boxes below in the unprinted areas only.

EPA ID Number (enter from page II)

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Secondary ID Number (enter from page II)

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
1	U 3 5 9	1.0 x 10 <sup>6</sup>	P	S 0 1	5 0 2	T 0 4				
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A. Facility Information

1. Respondent Name and Title:

Hans E. Steuch

Company:

Ash Grove Cement West, Inc.

Phone number:

(503) 293-2333

2. Name and address of company that owns the cement kilns at this facility:

Ash Grove Cement West, Inc., 6720 S.W. Macadam Ave., Suite 300,  
Portland, OR 97219-2312

Facility name, location, and address:

Ash Grove Cement West, Inc., Montana City Plant, 100 MT Hwy. 518,  
Clancy, MT 59634-9701

EPA ID of burner: MTD986067825

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company): Will be cement company.

EPA ID of on-site processor: N/A

EPA ID of other on-site hazardous waste transporter: N/A

marketer: N/A

storer: N/A

3. Number of kilns currently burning hazardous wastes at this facility:

0

Additional kilns expected to burn hazardous wastes by July 1994:

1

Kilns at this facility not expected to burn hazardous wastes by July 1994:

0

Total Number of kilns at this facility (should be total of above):

1

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

Liquids

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Pumpable Sludges

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Bulk Solids

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

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B. **Potential Capacity and Waste Acceptance Limitations**

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin
- Steel Drum, specify sizes: 5-10 gallon
- Poly Drum, specify sizes: 5-10 gallon
- Fiber Drum, specify sizes:
- Bag or other flexible container, specify sizes: 5-10 gallon
- Rigid Tote
- Tanker Trucks (transferred to tank)
- Tanker Trucks (direct feed to kiln)
- Rail car
- Carboy
- Pallet
- Other, specify: \_\_\_\_\_

- 6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers	0	100,000 gal.	12/92
Liquid Tanks	0		
Other (specify)	0		

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

None

6c. What processing operations do you perform on-site for solid wastes?

None

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	0	0	0	N/A
Pumpable Sludges	0	0	0	N/A
Nonpumpable Sludges	0	0	0	N/A
Containerized Solids	0	0	0	N/A
Bulk Solids	0	0	0	N/A
Dry Solids	0	0	0	N/A
Total	0	0	0	N/A

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Kiln Number: 1 of 1

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: Long wet

Clinker capacity (tons/hr): 40

Thermal input (Btu/ton clinker): 5.5 MM

Type of cement product(s) produced in this kiln: I, II, V

Total hours operating per year on average: 7800

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: N/A  
Dry solids injected at "hot" end: N/A  
Containerized solids charged to calcining zone: N/A  
Sludge Pump: N/A  
Other: (specify) N/A

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Kiln Number: 1 of 1

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current/Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0	0	N/A
Pumpable Sludges	0	0	N/A
Nonpumpable Sludges	0	0	N/A
Containerized Solids	0	0	N/A
Bulk Solids	0	0	N/A
Dry Solids	0	0	N/A
Total	0	0	N/A

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): N/A (%)  
Percent of above solids originally generated as solids: N/A (%)

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Kiln Number: 1 of 1

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids					
Pumpable Sludges					
Nonpumpable Sludges			N/A		
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 1 of 1

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? March

How long? 3 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

1/92

- b) Physical changes (include planned schedule):

None

- c) Regulatory modifications (include planned schedule):

State permit - 11/91

Interim status - 8/91

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#### Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content		N/A	
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content		N/A	
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Liquid Waste Acceptance Limits As Burned**

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"?  
(Y/N) \_\_\_\_\_

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		N/A	
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content		N/A	
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Pumpable Sludges Waste Acceptance Limits As Received**

- 14a. Are your pumpable sludge waste limitations "as received" the same as waste limitations specified in questions 13a or b? If so, specify which table applies (e.g., 13a or 13b) and skip to 14b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	N/A	N/A	N/A
Water Content	✓	✓	✓
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify	✓		✓

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"As Received" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides	N/A	N/A	N/A
Fungicides	↓	↓	↓
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify	↓	↓	↓

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**Pumpable Sludges Waste Acceptance Limits As Burned**

- 14b. Are your pumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15a;

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	N/A	N/A	N/A
Water Content	✓	✓	✓
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify	✓	✓	✓

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<b>"As Burned" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides	N/A	N/A	N/A
Fungicides	↓	↓	↓
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify	↓		↓

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**Nonpumpable Sludges Waste Acceptance Limits As Received**

- 15a. Are your nonpumpable sludge waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Nonpumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	N/A	N/A	N/A
Water Content	✓	✓	✓
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify	✓	✓	✓

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"As Received" Nonpumpable Sludges Waste Limitations.			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides	N/A	N/A	N/A
Fungicides	↓	↓	↓
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify	↓	↓	↓

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**Nonpumpable Sludges Waste Acceptance Limits As Burned**

- 15b. Are your nonpumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16a:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Nonpumpable Sludges Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	N/A	N/A	N/A
Water Content	✓	✓	✓
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify	✓	✓	✓

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<b>"As Burned" Nonpumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides	N/A	N/A	N/A
Fungicides	↓	↓	↓
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify	↓	↓	↓

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**Containerized Solids Waste Acceptance Limits As Received**

- 16a. Are your containerized solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	5000 BTU/LB.		T
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content		50,000 ppm	T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides		50 ppm	T
Fungicides		50 ppm	T
Herbicides		50 ppm	T
Insecticides		50 ppm	T
Rodenticides		50 ppm	T
Other: Specify			
Total Specified Metals Content			
Antimony Content		5,000 ppm	T
Arsenic Content		250 ppm	T
Barium Content		100,000 ppm	T
Beryllium Content		35 ppm	T
Cadmium Content		70 ppm	T
Chromium Content		7,500 ppm	T
Copper Content			
Lead Content		5,000 ppm	T
Mercury Content		600 ppm	T
Nickel Content			
Selenium Content			
Silver Content		5,000 ppm	T
Thallium Content		5,000 ppm	T
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Containerized Solids Waste Acceptance Limits As Burned**

- 16b. Are your containerized solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17a:  
16a.

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Burned" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Bulk Solids Waste Acceptance Limits As Received**

- 17a. Are your bulk solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content		N/A	
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content		N/A	
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Bulk Solids Waste Acceptance Limits As Burned**

- 17b. Are your bulk solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18a:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content		N/A	
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Dry Solids Waste Acceptance Limits As Received

- 18a. Are your dry solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		N/A	
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Dry Solids Waste Acceptance Limits As Burned**

- 18b. Are your dry solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 19:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit: Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content		N/A	
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content		N/A	
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (✓)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)		Y		
Personal Protection Equipment (e.g., Tyvek suits)		✓		
Paper or Cardboard Materials				
Filter Cartridges				
Wood Materials				
Rubber Objects (e.g., tires, hoses)				
PVC Pipe				
Other Plastic Debris				
Glass Debris				
Ceramic Debris (e.g., semiconductors)				
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)				
Asbestos Materials (e.g., shingles, insulation)				
Non-Soil Geologic Material (e.g., rocks)				
Concrete Debris				
Refractory Brick				
Other Bricks				
Slag				
Intact Batteries				
Battery Cases				
Electronic Components (e.g., printed circuit boards)				
Electrical Wires, Switches, etc.		✓		

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20. Please explain any debris acceptance conditions noted on the previous page:

To the extent that the debris can be containerized in 5-10 gallon drums or bags and satisfy our limitations, they will be accepted.

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- 20a. Do you accept soils? If so, under what conditions or limitations?

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C. Permit Conditions

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.
22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).
- See attachment 1.
23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

N/A

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
FP - Fully Permitted to receive RCRA hazardous wastes  
PM - Preparing Permit Modification for Additional Wastes  
SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
MA - Modifying Permit Application for Additional RCRA Wastes  
IS - Interim Status  
ND - Currently Responding to Notices of Deficiency in Application  
PH - Awaiting Public Hearing on Permit  
OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
Federal BIF	EPA Region VIII (303) 293-1603	SA	9/91
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
State Hazardous Waste			
Air Emission	Utah Bureau of Air Pollution Control (801) 538-6108		12/91
Land Use/Siting			
Other (specify)			
Local Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)	*		

\*There currently is a state of Utah moratorium on the burning of waste in cement kilns expected to expire in May, 1992.

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

N/A

26. When do you plan to submit a BIF Certification of Compliance (month and year)?

8/91

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes

No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific change(s)), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

a) When (month or quarter, and year): (A)

\_\_\_\_\_

b) Effect on hazardous waste capacity: N/A

c) Modifications: N/A

(A) We are ready to burn containers in kiln #1 as soon as our state permit application is approved and the state moratorium is lifted, and we expect to burn 2500 tons of solid containerized waste in 1992, increasing gradually to 12,000 tons per year in 1994.

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*Appendix 1*

Form Appendix DMB no 7030 0034 Rev 01 11-81  
GSA No 0246 EPA D1

For EPA Regional Use Only		GEPA												For State Use Only									
<b>United States Environmental Protection Agency</b> <b>Washington, DC 20460</b>																							
<h1>Hazardous Waste Permit Application</h1> <h2>Part A</h2>																							
(Read the Instructions before starting)																							
I. ID Number(s)																							
A. EPA ID Number							B. Secondary ID Number (if applicable)																
M	T	D	9	8	6	0	6	7	8	2	5												
II. Name of Facility																							
ASH GROVE CEMENT WEST INC																							
III. Facility Location (Physical address not P.O. Box or Route Number)																							
A. Street																							
M	T	H	W	Y	5	1	8	1	M	I	L	E	E	A	S	T	O	F	A	I	5		
Street (continued)																							
City or Town							State		ZIP Code														
CLANCY							MT		59634-9701														
County Code (if shown)							County Name																
JEFFERSON																							
B. Land Type		C. Geographic Location							D. Facility Existence Date														
(enter code)		LATITUDE (degrees, minutes, & seconds)				LONGITUDE (degrees, minutes, & seconds)			Month		Day			Year									
P	4	6	3	2	2	7	N	1	1	1	5	5	3	5	W	0	7	2	4	1	9	9	1
IV. Facility Mailing Address																							
Street or P.O. Box																							
1	0	0	M	T	H	W	Y	5	1	8													
City or Town							State		ZIP Code														
CLANCY							MT		59634-9701														
V. Facility Contact (Person to be contacted regarding waste activities at facility)																							
Name (last)							(first)																
PETERSON							CHARLES																
Job Title							Phone Number (area code and number)																
PLANT MANAGER							406-442-8855																
VI. Facility Contact Address (See Instructions)																							
A. Contact Address Mailing		B. Street or P.O. Box																					
X																							
City or Town							State		ZIP Code														

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Form Addressed OMB No 2937 (M) & GSA No 2210-3

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EPA I.D. Number (enter from page 1)						Secondary ID Number (enter from page 1)																	
M	T	D	9	8	6	0	6	7	8	2	5												
<b>XI. Nature of Business (provide a brief description)</b>																							
<p>Manufacturing of Portland Cement by the wet process - involves:</p> <ol style="list-style-type: none"> <li>1) Quarrying and crushing of limestone and acquisition of other raw materials</li> <li>2) Grinding of raw materials with water to form a slurry</li> <li>3) Pyroprocessing of the slurry in a rotary cement kiln to form Portland Cement clinker</li> <li>4) Grinding of clinker with gypsum to form Portland Cement</li> </ol>																							
<b>XII. Process - Codes and Design Capacities</b>																							
<p><b>A. PROCESS CODE</b> - Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then specify the process (including its design capacity) in the space provided in Item XIII.</p>																							
<p><b>B. PROCESS DESIGN CAPACITY</b> - For each code entered in column A, enter the capacity of the process.</p> <ol style="list-style-type: none"> <li>1. <b>AMOUNT</b> - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.</li> <li>2. <b>UNIT OF MEASURE</b> - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.</li> </ol>																							
<p><b>C. PROCESS TOTAL NUMBER OF UNITS</b> - Enter the total number of units used with the corresponding process codes.</p>																							
PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY						UNIT OF MEASURE			UNIT OF MEASURE CODE												
D79	<b>DISPOSAL:</b> INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY						GALLONS .....			G												
D80	LANDFILL	ACRE-FEET OR HECTARE-METER						GALLONS PER HOUR .....			E												
D81	LAND APPLICATION	ACRES OR HECTARES						GALLONS PER DAY .....			U												
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY						LITERS .....			L												
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS						LITERS PER HOUR .....			H												
S01	<b>STORAGE:</b> CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS						LITERS PER DAY .....			V												
S02	TANK	CUBIC YARDS OR CUBIC METERS						SHORT TONS PER HOUR .....			D												
S03	WASTE PILE	GALLONS OR LITERS						METRIC TONS PER HOUR .....			W												
S04	SURFACE IMPOUNDMENT							SHORT TONS PER DAY .....			N												
T01	<b>TREATMENT:</b> TANK	GALLONS PER DAY OR LITERS PER DAY						METRIC TONS PER DAY .....			S												
T02	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY						POUNDS PER HOUR .....			J												
T03	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR						KILOGRAMS PER HOUR .....			R												
T04	OTHER TREATMENT	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY						CUBIC YARDS .....			Y												
<small>Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XII.</small>												<small>GALLONS .....</small>			<small>C</small>								
<small>Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XII.</small>												<small>LITERS .....</small>			<small>B</small>								
<small>Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XII.</small>												<small>ACRE-FEET .....</small>			<small>A</small>								
<small>Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XII.</small>												<small>HECTARE-METER .....</small>			<small>F</small>								
<small>Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XII.</small>												<small>BTU'S PER HOUR .....</small>			<small>X</small>								

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M	T	D	9	8	6	0	6	7	8	2	5				

XII. Process - Codes and Design Capacities (continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)		
X-1	S 0 2	600	G	0 0 2	
X-2	T 0 3	20	E	0 0 1	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

NOTE: If you need to list more than 12 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for additional treatment processes in Item XIII.

XIII. Additional Treatment Processes (follow instructions from Item XII)

Line Number (Enter number from item XII)	A. PROCESS CODE	B. TREATMENT PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)		
0 1	T 0 4	23.33	D	0 0 1	Recycling of hazardous waste as a fuel substitute in cement kilns in order to manufacture Portland Cement.
	T 0 4				
	T 0 4				
	T 0 4				
	T 0 4				

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EPA I.D. Number (enter from page 1)

M	T	D	9	8	6	0	6	7	8	2	5
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Secondary ID Number (enter from page 1)

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#### XIV. Description of Hazardous Wastes

- A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

#### D. PROCESSES

##### 1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A, select the code(s) from the list of process codes contained in Item XI A, on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XI A, on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
  2. Enter "000" in the extreme right box of Item XIV-D(1).
  3. Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).
2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
X-1	K 0 3 4	900	P	7	0	3	D	0	0		
X-2	D 0 0 2	400	P	7	0	3	D	0	0		
X-3	D 0 0 1	100	P	7	0	3	D	0	0		
X-4	D 0 0 2									Included With Above	

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
M	T	D	9 8 6 0 6 7 8 2 5				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	D 0 0 1	2.0 x 10 <sup>8</sup>	P	T 0 4			
2	D 0 0 4	" "	P	"			
3	D 0 0 5	" "	P	"			
4	D 0 0 6	" "	P	"			
5	D 0 0 7	" "	P	"			
6	D 0 0 8	" "	P	"			
7	D 0 0 9	" "	P	"			
8	D 0 1 0	" "	P	"			
9	D 0 1 1	" "	P	"			
10	D 0 1 2	" "	P	"			
11	D 0 1 3	" "	P	"			
12	D 0 1 4	" "	P	"			
13	D 0 1 5	" "	P	"			
14	D 0 1 6	" "	P	"			
15	D 0 1 7	" "	P	"			
16	D 0 1 8	" "	P	"			
17	D 0 1 9	" "	P	"			
18	D 0 2 0	" "	P	"			
19	D 0 2 1	" "	P	"			
20	D 0 2 2	" "	P	"			
21	D 0 2 3	" "	P	"			
22	D 0 2 4	" "	P	"			
23	D 0 2 5	" "	P	"			
24	D 0 2 6	" "	P	"			
25	D 0 2 7	" "	P	"			
26	D 0 2 8	" "	P	"			
27	D 0 2 9	" "	P	"			
28	D 0 3 0	" "	P	"			
29	D 0 3 1	" "	P	"			
30	D 0 3 2	" "	P	"			
31	D 0 3 3	" "	P	"			
32	D 0 3 4	" "	P	"			
33	D 0 3 5	2.0 x 10 <sup>8</sup>	P	T 0 4			

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5500-114-001

EPA I.D. Number (enter from page 1)							Secondary ID Number (enter from page 1)									
M	T	D	9	8	6	0	5	7	8	2	5					
XIV. Description of Hazardous Wastes (continued)																
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)			B. ESTIMATED ANNUAL QUANTITY OF WASTE			C. UNIT OF MEASURE (enter code)			D. PROCESSES						
										(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))				
1	D	0	3	6	2.0 x 10 <sup>8</sup>	P			T	0	4					
2	D	0	3	7	" "	P				"						
3	D	0	3	8	" "	P				"						
4	D	0	3	9	" "	P				"						
5	D	0	4	0	" "	P				"						
6	D	0	4	1	" "	P				"						
7	D	0	4	2	" "	P				"						
8	D	0	4	3	" "	P				"						
9	F	0	0	1	" "	P				"						
10	F	0	0	2	" "	P				"						
11	F	0	0	3	" "	P				"						
12	F	0	0	4	" "	P				"						
13	F	0	0	5	" "	P				"						
14	F	0	0	6	" "	P				"						
15	F	0	0	7	" "	P				"						
16	F	0	0	8	" "	P				"						
17	F	0	0	9	" "	P				"						
18	F	0	1	0	" "	P				"						
19	F	0	1	1	" "	P				"						
20	F	0	1	2	" "	P				"						
21	F	0	1	9	" "	P				"						
22	F	0	2	4	" "	P				"						
23	F	0	2	5	" "	P				"						
24	F	0	2	8	" "	P				"						
25	F	0	3	4	" "	P				"						
26	F	0	3	5	" "	P				"						
27	F	0	3	7	" "	P				"						
28	F	0	3	8	" "	P				"						
29	F	0	3	9	" "	P				"						
30	K	0	0	1	" "	P				"						
31	K	0	0	2	" "	P				"						
32	K	0	0	3	" "	P				"						
33	K	0	0	4	2.0 x 10 <sup>8</sup>	P			T	0	4					

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
M	T	D	9 8 6 0 6 7 8 2 5				
<b>XIV. Description of Hazardous Wastes (continued)</b>							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		(2) PROCESS DESCRIPTION (If a code is not entered in D1.)	
				(1) PROCESS CODES (enter)			
1	K 0 0 5	2.0 x 10 <sup>8</sup>	P		T 0 4		
2	K 0 0 6	" "	P		" "		
3	K 0 0 7	" "	P		" "		
4	K 0 0 8	" "	P		" "		
5	K 0 0 9	" "	P		" "		
6	K 0 1 0	" "	P		" "		
7	K 0 1 1	" "	P		" "		
8	K 0 1 3	" "	P		" "		
9	K 0 1 4	" "	P		" "		
10	K 0 1 5	" "	P		" "		
11	K 0 1 6	" "	P		" "		
12	K 0 1 7	" "	P		" "		
13	K 0 1 8	" "	P		" "		
14	K 0 1 9	" "	P		" "		
15	K 0 2 0	" "	P		" "		
16	K 0 2 1	" "	P		" "		
17	K 0 2 2	" "	P		" "		
18	K 0 2 3	" "	P		" "		
19	K 0 2 4	" "	P		" "		
20	K 0 2 5	" "	P		" "		
21	K 0 2 6	" "	P		" "		
22	K 0 2 7	" "	P		" "		
23	K 0 2 8	" "	P		" "		
24	K 0 2 9	" "	P		" "		
25	K 0 3 0	" "	P		" "		
26	K 0 3 1	" "	P		" "		
27	K 0 3 2	" "	P		" "		
28	K 0 3 3	" "	P		" "		
29	K 0 3 4	" "	P		" "		
30	K 0 3 5	" "	P		" "		
31	K 0 3 6	" "	P		" "		
32	K 0 3 7	" "	P		" "		
33	K 0 3 8	2.0 x 10 <sup>6</sup>	P		T 0 4		

Please provide your own CTC type 12 character identifier in the "Subject" area only.

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EPA I.D. Number (enter from page 1)

**Secondary ID Number (enter from page 1)**

M	T	D	9	8	6	0	6	7	8	2	5
<b>XIV. Description of Hazardous Wastes (continued)</b>											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
1	K 0 3 9	2.0 x 10 <sup>8</sup>	P				T 0 4				
2	K 0 4 0	" "	P				"				
3	K 0 4 1	" "	P				"				
4	K 0 4 2	" "	P				"				
5	K 0 4 3	" "	P				"				
6	K 0 4 4	" "	P				"				
7	K 0 4 5	" "	P				"				
8	K 0 4 6	" "	P				"				
9	K 0 4 7	" "	P				"				
10	K 0 4 8	" "	P				"				
11	K 0 4 9	" "	P				"				
12	K 0 5 0	" "	P				"				
13	K 0 5 1	" "	P				"				
14	K 0 5 2	" "	P				"				
15	K 0 6 0	" "	P				"				
16	K 0 6 1	" "	P				"				
17	K 0 6 2	" "	P				"				
18	K 0 6 4	" "	P				"				
19	K 0 6 5	" "	P				"				
20	K 0 6 6	" "	P				"				
21	K 0 7 1	" "	P				"				
22	K 0 7 3	" "	P				"				
23	K 0 8 3	" "	P				"				
24	K 0 8 4	" "	P				"				
25	K 0 8 5	" "	P				"				
26	K 0 8 6	" "	P				"				
27	K 0 8 7	" "	P				"				
28	K 0 8 8	" "	P				"				
29	K 0 9 0	" "	P				"				
30	K 0 9 1	" "	P				"				
31	K 0 9 3	" "	P				"				
32	K 0 9 4	" "	P				"				
33	K 0 9 5	2.0 x 10 <sup>8</sup>	P				T 0 4				

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1028

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
M	T	D	9 8 6 0 6 7 8 2 5				
<b>XIV. Description of Hazardous Wastes (continued)</b>							
Line Number	A EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (If a code is not entered in D1)	
1	K 0 9 6	2.0 x 10 <sup>8</sup>	P	T 0 4			
2	K 0 9 7	" "	P	"			
3	K 0 9 8	" "	P	"			
4	K 0 9 9	" "	P	"			
5	K 1 0 0	" "	P	"			
6	K 1 0 1	" "	P	"			
7	K 1 0 2	" "	P	"			
8	K 1 0 3	" "	P	"			
9	K 1 0 4	" "	P	"			
10	K 1 0 5	" "	P	"			
11	K 1 0 6	" "	P	"			
12	K 1 1 1	" "	P	"			
13	K 1 1 2	" "	P	"			
14	K 1 1 3	" "	P	"			
15	K 1 1 4	" "	P	"			
16	K 1 1 5	" "	P	"			
17	K 1 1 6	" "	P	"			
18	K 1 1 7	" "	P	"			
19	K 1 1 8	" "	P	"			
20	K 1 2 3	" "	P	"			
21	K 1 2 4	" "	P	"			
22	K 1 2 5	" "	P	"			
23	K 1 2 6	" "	P	"			
24	K 1 3 1	" "	P	"			
25	K 1 3 2	" "	P	"			
26	K 1 3 6	" "	P	"			
27	P 0 0 1	" "	P	"			
28	P 0 0 2	" "	P	"			
29	P 0 0 3	" "	P	"			
30	P 0 0 4	" "	P	"			
31	P 0 0 5	" "	P	"			
32	P 0 0 6	" "	P	"			
33	P 0 0 72.0 x 10 <sup>8</sup>	P		T 0 4			

Please print or type with ELLITE type (1/2 characters per inch) -

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
M	T	D	9 8 6 0 6 7 8 2 5				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (if a code is not entered in D(1))	
1	P 0 0 8	2.0 x 10 <sup>8</sup>	P	T	0	4	
2	P 0 0 9	" "	P				
3	P 0 1 0	" "	P				
4	P 0 1 1	" "	P				
5	P 0 1 2	" "	P				
6	P 0 1 3	" "	P				
7	P 0 1 4	" "	P				
8	P 0 1 5	" "	P				
9	P 0 1 6	" "	P				
10	P 0 1 7	" "	P				
11	P 0 1 8	" "	P				
12	P 0 2 0	" "	P				
13	P 0 2 1	" "	P				
14	P 0 2 2	" "	P				
15	P 0 2 3	" "	P				
16	P 0 2 4	" "	P				
17	P 0 2 6	" "	P				
18	P 0 2 7	" "	P				
19	P 0 2 8	" "	P				
20	P 0 2 9	" "	P				
21	P 0 3 0	" "	P				
22	P 0 3 1	" "	P				
23	P 0 3 3	" "	P				
24	P 0 3 4	" "	P				
25	P 0 3 6	" "	P				
26	P 0 3 7	" "	P				
27	P 0 3 8	" "	P				
28	P 0 3 9	" "	P				
29	P 0 4 0	" "	P				
30	P 0 4 1	" "	P				
31	P 0 4 2	" "	P				
32	P 0 4 3	" "	P				
33	P 0 4 4	2.0 x 10 <sup>8</sup>	P	T	0	4	

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
M	T	D	9 8 6 0 6 7 8 2 5				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		(2) PROCESS DESCRIPTION (if a code is not entered in D(1))	
1	P 0 4 5	2.0 x 10 <sup>8</sup>	P	T 0 4			
2	P 0 4 6	" "	P				
3	P 0 4 7	" "	P				
4	P 0 4 8	" "	P				
5	P 0 4 9	" "	P				
6	P 0 5 0	" "	P				
7	P 0 5 1	" "	P				
8	P 0 5 4	" "	P				
9	P 0 5 7	" "	P				
10	P 0 5 8	" "	P				
11	P 0 5 9	" "	P				
12	P 0 6 0	" "	P				
13	P 0 6 2	" "	P				
14	P 0 6 3	" "	P				
15	P 0 6 4	" "	P				
16	P 0 6 5	" "	P				
17	P 0 6 6	" "	P				
18	P 0 6 7	" "	P				
19	P 0 6 8	" "	P				
20	P 0 6 9	" "	P				
21	P 0 7 0	" "	P				
22	P 0 7 1	" "	P				
23	P 0 7 2	" "	P				
24	P 0 7 3	" "	P				
25	P 0 7 4	" "	P				
26	P 0 7 5	" "	P				
27	P 0 7 6	" "	P				
28	P 0 7 7	" "	P				
29	P 0 7 8	" "	P				
30	P 0 8 1	" "	P				
31	P 0 8 2	" "	P				
32	P 0 8 4	" "	P				
33	P 0 8 5	2.0 x 10 <sup>8</sup>	P	T 0 4			

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1031

XIV. Description of Hazardous Wastes (continued)						
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	P 0 8 7	$2.0 \times 10^8$	P	T 0 4		
2	P 0 8 8	" "	P	"		
3	P 0 8 9	" "	P	"		
4	P 0 9 2	" "	P	"		
5	P 0 9 3	" "	P	"		
6	P 0 9 4	" "	P	"		
7	P 0 9 5	" "	P	"		
8	P 0 9 6	" "	P	"		
9	P 0 9 7	" "	P	"		
10	P 0 9 8	" "	P	"		
11	P 0 9 9	" "	P	"		
12	P 1 0 1	" "	P	"		
13	P 1 0 2	" "	P	"		
14	P 1 0 3	" "	P	"		
15	P 1 0 4	" "	P	"		
16	P 1 0 5	" "	P	"		
17	P 1 0 6	" "	P	"		
18	P 1 0 7	" "	P	"		
19	P 1 0 8	" "	P	"		
20	P 1 0 9	" "	P	"		
21	P 1 1 0	" "	P	"		
22	P 1 1 1	" "	P	"		
23	P 1 1 2	" "	P	"		
24	P 1 1 3	" "	P	"		
25	P 1 1 4	" "	P	"		
26	P 1 1 5	" "	P	"		
27	P 1 1 6	" "	P	"		
28	P 1 1 8	" "	P	"		
29	P 1 1 9	" "	P	"		
30	P 1 2 0	" "	P	"		
31	P 1 2 1	" "	P	"		
32	P 1 2 2	" "	P	"		
33	P 1 2 3	$2.0 \times 10^8$	P	T 0 4		

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1032

EPA I.D. Number (enter from page 1)  
M T D 9 8 6 0 6 7 8 2 5

Secondary ID Number (enter from page 1)

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 0 0 1	2.0 x 10 <sup>8</sup>	P	T 0 4	
2	U 0 0 2	" "	P	"	
3	U 0 0 3	" "	P	"	
4	U 0 0 4	" "	P	"	
5	U 0 0 5	" "	P	"	
6	U 0 0 6	" "	P	"	
7	U 0 0 7	" "	P	"	
8	U 0 0 8	" "	P	"	
9	U 0 0 9	" "	P	"	
10	U 0 1 0	" "	P	"	
11	U 0 1 1	" "	P	"	
12	U 0 1 2	" "	P	"	
13	U 0 1 4	" "	P	"	
14	U 0 1 5	" "	P	"	
15	U 0 1 6	" "	P	"	
16	U 0 1 7	" "	P	"	
17	U 0 1 8	" "	P	"	
18	U 0 1 9	" "	P	"	
19	U 0 2 0	" "	P	"	
20	U 0 2 1	" "	P	"	
21	U 0 2 2	" "	P	"	
22	U 0 2 3	" "	P	"	
23	U 0 2 4	" "	P	"	
24	U 0 2 5	" "	P	"	
25	U 0 2 6	" "	P	"	
26	U 0 2 7	" "	P	"	
27	U 0 2 8	" "	P	"	
28	U 0 2 9	" "	P	"	
29	U 0 3 0	" "	P	"	
30	U 0 3 1	" "	P	"	
31	U 0 3 2	" "	P	"	
32	U 0 3 3	" "	P	"	
33	U 0 3 4	2.0 x 10 <sup>8</sup>	P	T 0 4	

Please print or type and clearly type in the following information in ink or type.

EPA I.D. Number (enter from page 1)					Secondary ID Number (enter from page 1)						
M	T	D	9	8	6	0	6	7	8	2	5
XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
1	U 0 3 5	2.0 x 10 <sup>8</sup>	P	T	O	4					
2	U 0 3 6	" "	P								
3	U 0 3 7	" "	P								
4	U 0 3 8	" "	P								
5	U 0 3 9	" "	P								
6	U 0 4 1	" "	P								
7	U 0 4 2	" "	P								
8	U 0 4 3	" "	P								
9	U 0 4 4	" "	P								
10	U 0 4 5	" "	P								
11	U 0 4 6	" "	P								
12	U 0 4 7	" "	P								
13	U 0 4 8	" "	P								
14	U 0 4 9	" "	P								
15	U 0 5 0	" "	P								
16	U 0 5 1	" "	P								
17	U 0 5 2	" "	P								
18	U 0 5 3	" "	P								
19	U 0 5 5	" "	P								
20	U 0 5 6	" "	P								
21	U 0 5 7	" "	P								
22	U 0 5 8	" "	P								
23	U 0 5 9	" "	P								
24	U 0 6 0	" "	P								
25	U 0 6 1	" "	P								
26	U 0 6 2	" "	P								
27	U 0 6 3	" "	P								
28	U 0 6 4	" "	P								
29	U 0 6 5	" "	P								
30	U 0 6 6	" "	P								
31	U 0 6 7	" "	P								
32	U 0 6 8	" "	P								
33	U 0 6 9	2.0 x 10 <sup>8</sup>	P	T	O	4					

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1034

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EPA I.D. Number (enter from page 1)					Secondary ID Number (enter from page 1)						
M	T	D	9	8	6	0	6	7	8	2	5
<b>XIV. Description of Hazardous Wastes (continued)</b>											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
1	U 0 7 0	$2.0 \times 10^8$	P			T	0	4			
2	U 0 7 1	" "	P			"					
3	U 0 7 2	" "	P			"					
4	U 0 7 3	" "	P			"					
5	U 0 7 4	" "	P			"					
6	U 0 7 5	" "	P			"					
7	U 0 7 6	" "	P			"					
8	U 0 7 7	" "	P			"					
9	U 0 7 8	" "	P			"					
10	U 0 7 9	" "	P			"					
11	U 0 8 0	" "	P			"					
12	U 0 8 1	" "	P			"					
13	U 0 8 2	" "	P			"					
14	U 0 8 3	" "	P			"					
15	U 0 8 4	" "	P			"					
16	U 0 8 5	" "	P			"					
17	U 0 8 6	" "	P			"					
18	U 0 8 7	" "	P			"					
19	U 0 8 8	" "	P			"					
20	U 0 8 9	" "	P			"					
21	U 0 9 0	" "	P			"					
22	U 0 9 1	" "	P			"					
23	U 0 9 2	" "	P			"					
24	U 0 9 3	" "	P			"					
25	U 0 9 4	" "	P			"					
26	U 0 9 5	" "	P			"					
27	U 0 9 6	" "	P			"					
28	U 0 9 7	" "	P			"					
29	U 0 9 8	" "	P			"					
30	U 0 9 9	" "	P			"					
31	U 1 0 1	" "	P			"					
32	U 1 0 2	" "	P			"					
33	U 1 0 3	$2.0 \times 10^8$	P			T	0	4			

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1035

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
M	T	D	9 8 6 0 6 7 8 2 5				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (if a code is not entered in D(1))		
1	U 1 0 5	2.0 x 10 <sup>8</sup>	P	T 0 4			
2	U 1 0 6	" "	P	"			
3	U 1 0 7	" "	P	"			
4	U 1 0 8	" "	P	"			
5	U 1 0 9	" "	P	"			
6	U 1 1 0	" "	P	"			
7	U 1 1 1	" "	P	"			
8	U 1 1 2	" "	P	"			
9	U 1 1 3	" "	P	"			
10	U 1 1 4	" "	P	"			
11	U 1 1 5	" "	P	"			
12	U 1 1 6	" "	P	"			
13	U 1 1 7	" "	P	"			
14	U 1 1 8	" "	P	"			
15	U 1 1 9	" "	P	"			
16	U 1 2 0	" "	P	"			
17	U 1 2 1	" "	P	"			
18	U 1 2 2	" "	P	"			
19	U 1 2 3	" "	P	"			
20	U 1 2 4	" "	P	"			
21	U 1 2 5	" "	P	"			
22	U 1 2 6	" "	P	"			
23	U 1 2 7	" "	P	"			
24	U 1 2 8	" "	P	"			
25	U 1 2 9	" "	P	"			
26	U 1 3 0	" "	P	"			
27	U 1 3 1	" "	P	"			
28	U 1 3 2	" "	P	"			
29	U 1 3 3	" "	P	"			
30	U 1 3 4	" "	P	"			
31	U 1 3 5	" "	P	"			
32	U 1 3 6	" "	P	"			
33	U 1 3 7	2.0 x 10 <sup>8</sup>	P	T 0 4			

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EPA I.D. Number (enter from page 1)					Secondary ID Number (enter from page 1)														
M	T	D	9	8	6	0	6	7	6	2	5								
XIV. Description of Hazardous Wastes (continued)																			
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES															
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))											
1	U 1 3 8	2.0 x 10 <sup>8</sup>	P			T	0	4											
2	U 1 4 0	" "	P			"													
3	U 1 4 1	" "	P			"													
4	U 1 4 2	" "	P			"													
5	U 1 4 3	" "	P			"													
6	U 1 4 4	" "	P			"													
7	U 1 4 5	" "	P			"													
8	U 1 4 6	" "	P			"													
9	U 1 4 7	" "	P			"													
10	U 1 4 8	" "	P			"													
11	U 1 4 9	" "	P			"													
12	U 1 5 0	" "	P			"													
13	U 1 5 1	" "	P			"													
14	U 1 5 2	" "	P			"													
15	U 1 5 3	" "	P			"													
16	U 1 5 4	" "	P			"													
17	U 1 5 5	" "	P			"													
18	U 1 5 6	" "	P			"													
19	U 1 5 7	" "	P			"													
20	U 1 5 8	" "	P			"													
21	U 1 5 9	" "	P			"													
22	U 1 6 0	" "	P			"													
23	U 1 6 1	" "	P			"													
24	U 1 6 2	" "	P			"													
25	U 1 6 3	" "	P			"													
26	U 1 6 4	" "	P			"													
27	U 1 6 5	" "	P			"													
28	U 1 6 6	" "	P			"													
29	U 1 6 7	" "	P			"													
30	U 1 6 8	" "	P			"													
31	U 1 6 9	" "	P			"													
32	U 1 7 0	" "	P			"													
33	U 1 7 1	12.0 x 10 <sup>8</sup>	P			T	0	4											

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
M	T	D	9 8 6 0 6 7 8 2 5				
XIV. Description of Hazardous Wastes. (continued)							
Line Number	A EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	U 1 7 2	2.0 x 10 <sup>8</sup>	P	T	0	4	
2	U 1 7 3	" "	P				
3	U 1 7 4	" "	P				
4	U 1 7 5	" "	P				
5	U 1 7 7	" "	P				
6	U 1 7 8	" "	P				
7	U 1 7 9	" "	P				
8	U 1 8 0	" "	P				
9	U 1 8 1	" "	P				
10	U 1 8 2	" "	P				
11	U 1 8 3	" "	P				
12	U 1 8 4	" "	P				
13	U 1 8 5	" "	P				
14	U 1 8 6	" "	P				
15	U 1 8 7	" "	P				
16	U 1 8 8	" "	P				
17	U 1 8 9	" "	P				
18	U 1 9 0	" "	P				
19	U 1 9 1	" "	P				
20	U 1 9 2	" "	P				
21	U 1 9 3	" "	P				
22	U 1 9 4	" "	P				
23	U 1 9 6	" "	P				
24	U 1 9 7	" "	P				
25	U 2 0 0	" "	P				
26	U 2 0 1	" "	P				
27	U 2 0 2	" "	P				
28	U 2 0 3	" "	P				
29	U 2 0 4	" "	P				
30	U 2 0 5	" "	P				
31	U 2 0 6	" "	P				
32	U 2 0 7	" "	P				
33	U 2 0 8	2.0 x 10 <sup>8</sup>	P	T	0	4	

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1037

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EPA I.D. Number (enter from page 1)							Secondary ID Number (enter from page 1)													
M	T	D	9	8	6	0	6	7	8	2	5									
XIV. Description of Hazardous Wastes (continued)																				
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))												
1	U 2 0 9	2.0 x 10 <sup>8</sup>	P				T	0	4											
2	U 2 1 0	" "	P																	
3	U 2 1 1	" "	P																	
4	U 2 1 3	" "	P																	
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9	U 2 1 8	" "	P																	
10	U 2 1 9	" "	P																	
11	U 2 2 0	" "	P																	
12	U 2 2 1	" "	P																	
13	U 2 2 2	" "	P																	
14	U 2 2 3	" "	P																	
15	U 2 2 5	" "	P																	
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30	U 2 4 8	" "	P																	
31	U 2 4 9	" "	P																	
32	U 3 2 8	" "	P																	
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EPA I.D. Number (enter from page 1)					Secondary ID Number (enter from page 1)						
M	T	D	9	8	6	0	6	7	6	2	5
XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (a code is not entered in D(1))			
1	U	3	5	9	2.0	$\times 10^8$	R	T	0	4	
2											
3											
4											
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xv. Map

**Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See Instructions for precise requirements.**

## XVI. Facility Drawing

**All existing facilities must include a scale drawing of the facility (see instructions for more detail).**

## **xvii. Photographs**

**All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see Instructions for more detail).**

**XVIII. Certification(s)**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and, that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Owner Signature	Dickard & Boaler	Date Signed August 19, 1991
-----------------	------------------	--------------------------------

Name and Official Title (Type or print)  
Richard E. Cooke, Vice President - Operations

Operator Signature: *B. J. Brakke* Date Signed: August 10, 1991

Name and Official Title (type or print)  
Richard E. Cooke, Vice President - Operations

XIX. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (refer to Instructions for more information)

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00030215 Attachment 1

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Form Approved GPO 4370-125 02-74 E.O. 11731  
GSA GEN. REG. NO. 2246 EPA

For EPA Regional Use Only		GEPA		For State Use Only	
<p>United States Environmental Protection Agency Washington, DC 20460</p> <h2>Hazardous Waste Permit Application</h2> <h3>Part A</h3> <p>(Read the Instructions before starting.)</p>					
I. ID Number(s)					
A. EPA ID Number		B. Secondary ID Number (If applicable)			
U T D 9 8 2 5 9 0 3 5 8					
II. Name of Facility					
ASH GROVE CEMENT WEST INC					
III. Facility Location (Physical address not P.O. Box or Route Number)					
A. Street					
6 MILES EAST OF LEAMINGTON					
Street (continued)					
HIGHWAY 132					
City or Town		State ZIP Code			
LEAMINGTON		UT 84638 -			
County Code (if known)		County Name			
		JUAB			
B. Land Type	C. Geographic Location		D. Facility Existence Date		
(Enter code)	LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)	Month	Day	Year
O	3 9 3 3 0 4 5	1 1 2 1 1 0 5 0	0	7 2 4 1 9 9 1	
IV. Facility Mailing Address					
Street or P.O. Box					
P O BOX 51					
City or Town		State ZIP Code			
NEPHI		UT 84648 -			
V. Facility Contact (Person to be contacted regarding waste activities at facility)					
Name (last)		(first)			
CRUTCHFIELD		DUANE			
Job Title		Phone Number (area code and number)			
PLANT MANAGER		801-857-2380			
VI. Facility Contact Address (See Instructions)					
A. Contact Address Location Mailing	B. Street or P.O. Box				
X					
City or Town		State ZIP Code			

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Form 4, page 2, 2000, 100-1000000000

EPA I.D. Number (enter from page 1)										Secondary ID Number (enter from page 1)																			
U T D 9 8 2 5 9 0 3 5 8																													
VII. Operator Information (see Instructions)																													
Name of Operator										A S H G R O V E C E M E N T W E S T I N C																			
Street or P.O. Box										P O B O X S 1																			
City or Town										State		ZIP Code																	
N E P H I										U T		8 4 6 4 8																	
Phone Number (area code and number)										B. Operator Type		C. Change of Operator Indicator		Date Changed															
8 0 1 - 8 5 7 - 2 3 8 0										<input type="checkbox"/> P		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> X		Month Day Year															
VIII. Facility Owner (see Instructions)																													
A. Name of Facility's Legal Owner										A S H G R O V E C E M E N T W E S T I N C																			
Street or P.O. Box										6 7 2 0 S W M A C A D A M A V E S U I T E 3 0 0																			
City or Town										State		ZIP Code																	
P O R T L A N D										O R		9 7 2 1 9 - 2 3 1																	
Phone Number (area code and number)										B. Owner Type		C. Change of Owner Indicator		Date Changed															
5 0 3 - 2 9 3 - 2 3 3 3										<input type="checkbox"/> P		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> X		Month Day Year															
IX. SIC Codes (4-digit, in order of significance)																													
Primary										Secondary																			
3 2 4 1 (description) Hydraulic (Portland) Cement										(description)																			
Secondary										Secondary																			
(description)										(description)																			
X. Other Environmental Permits (see Instructions)																													
A. Permit Type (enter code)										B. Permit Number										C. Description									
E		B A Q E - 2 4 0 - 8 9										State of Utah, Department of Health																	
												Division of Environmental Health																	
E		M 1 0 2 3 1 0 1 2										Bureau of Air Quality Air Permit																	
												State of Utah, Department of Natural Resources, Division of Oil, Gas and Mining Mining Permit																	

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Form Approved Under DOD 5010, 07-01-02  
OMB Control No. 2540-0102

EPA I.D. Number (enter from page 1).						Secondary ID Number (enter from page 1)																	
U	T	D	9	8	2	5	9	0	3	5	8												
XI. Nature of Business (provide a brief description)																							

Manufacturing of Portland Cement - involves:

- 1) Quarrying and crushing of limestone and acquisition of other raw materials
- 2) Grinding of raw materials
- 3) Pyroprocessing of raw materials in a rotary cement kiln to form Portland Cement clinker
- 4) Grinding of clinker with gypsum to form Portland Cement

XII. Process - Codes and Design Capacities

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in Item XIII.

B. PROCESS DESIGN CAPACITY - For each code entered in column A, enter the capacity of the process.

1. AMOUNT - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

C. PROCESS TOTAL NUMBER OF UNITS - Enter the total number of units used with the corresponding process codes.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	UNIT OF MEASURE	UNIT OF MEASURE CODE
D79	DISPOSAL: INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY, OR LITERS PER DAY	GALLONS .....	G
D80	LANDFILL	ACRE-FEET OR HECTARE-METER	GALLONS PER HOUR .....	E
D81	LAND APPLICATION	ACRES OR HECTARES	GALLONS PER DAY .....	U
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY	LITERS .....	L
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS	LITERS PER HOUR .....	H
S01	STORAGE: CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS	LITERS PER DAY .....	V
S02	TANK	GALLONS OR LITERS	SHORT TONS PER HOUR .....	D
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS	METRIC TONS PER HOUR .....	W
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS	SHORT TONS PER DAY .....	N
T01	TREATMENT: TANK	GALLONS PER DAY OR LITERS PER DAY, GALLONS PER DAY OR LITERS PER DAY	METRIC TONS PER DAY .....	S
T02	SURFACE IMPOUNDMENT	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR	POUNDS PER HOUR .....	J
T03	INCINERATOR	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR	KILOGRAMS PER HOUR .....	R
T04	OTHER TREATMENT	(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XII.)	CUBIC YARDS .....	T
			CUBIC METERS .....	C
			ACRES .....	B
			ACRE-FEET .....	A
			HECTARES .....	O
			HECTARE-METER .....	F
			BTU'S PER HOUR .....	X

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EPA I.D. Number (enter from page 1)      Secondary ID Number (enter from page 1)

U T D 9 8 2 5 9 0 3 5 8

XII: Process - Codes and Design Capacities (continued)

EXAMPLE FOR COMPLETING ITEM XII [shown in line numbers X-1 and X-2 below]: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)		
X-1	S 0 2	600	G	0 0 2	
X-2	T 0 3	20	E	0 0 1	
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EPA I.D. Number (enter from page 1) U T D 9 8 2 5 9 0 3 5 8 Secondary ID Number (enter from page 1)

#### XIV. Description of Hazardous Wastes

- A. EPA HAZARDOUS WASTE NUMBER** - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

**B. ESTIMATED ANNUAL QUANTITY** - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

**C. UNIT OF MEASURE** - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

## D. PROCESSES

## **1. PROCESS CODES:**

**For listed hazardous waste:** For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

**For non-listed hazardous waste:** For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possesses that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
  2. Enter "000" in the extreme right box of item XIV-D(1).
  3. Enter in the space provided on page 7, item XIV-E, the line number and the additional code(s).

**2. PROCESS DESCRIPTION:** If a code is not listed for a process that will be used, describe the process in the space provided on the form (D-2).

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.**

**2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.**

**3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.**

**EXAMPLE FOR COMPLETING ITEM XIV** (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS								
	(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (if a code is not entered in D(1))							
X 1	K 0 5 .4	900	P	T 0 3 D 8 0								
X 2	D 0 0 2	400	P	T 0 3 D 8 0								
X 3	D 0 0 1	100	P	T 0 3 D 8 0								
X 4	D 0 0 2											Included With Above

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
U	T	D	9 8 2 5 9 0 3 5 8				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		
	(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (if a code is not entered in D(1))					
1	D 0 0 1	2.0 x 10 <sup>8</sup>	P	T 0 4			
2	D 0 0 4	" "	P				
3	D 0 0 5	" "	P				
4	D 0 0 6	" "	P				
5	D 0 0 7	" "	P				
6	D 0 0 8	" "	P				
7	D 0 0 9	" "	P				
8	D 0 1 0	" "	P				
9	D 0 1 1	" "	P				
10	D 0 1 2	" "	P				
11	D 0 1 3	" "	P				
12	D 0 1 4	" "	P				
13	D 0 1 5	" "	P				
14	D 0 1 6	" "	P				
15	D 0 1 7	" "	P				
16	D 0 1 8	" "	P				
17	D 0 1 9	" "	P				
18	D 0 2 0	" "	P				
19	D 0 2 1	" "	P				
20	D 0 2 2	" "	P				
21	D 0 2 3	" "	P				
22	D 0 2 4	" "	P				
23	D 0 2 5	" "	P				
24	D 0 2 6	" "	P				
25	D 0 2 7	" "	P				
26	D 0 2 8	" "	P				
27	D 0 2 9	" "	P				
28	D 0 3 0	" "	P				
29	D 0 3 1	" "	P				
30	D 0 3 2	" "	P				
31	D 0 3 3	" "	P				
32	D 0 3 4	" "	P				
33	D 0 3 5	2.0 x 10 <sup>8</sup>	P	T 0 4			

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
U	T	D	9 8 2 5 9 0 3 5 8				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	D 0 3 6	2.0 x 10 <sup>8</sup>	P	T 0 4			
2	D 0 3 7	" "	P				
3	D 0 3 8	" "	P				
4	D 0 3 9	" "	P				
5	D 0 4 0	" "	P				
6	D 0 4 1	" "	P				
7	D 0 4 2	" "	P				
8	D 0 4 3	" "	P				
9	F 0 0 1	" "	P				
10	F 0 0 2	" "	P				
11	F 0 0 3	" "	P				
12	F 0 0 4	" "	P				
13	F 0 0 5	" "	P				
14	F 0 0 6	" "	P				
15	F 0 0 7	" "	P				
16	F 0 0 8	" "	P				
17	F 0 0 9	" "	P				
18	F 0 1 0	" "	P				
19	F 0 1 1	" "	P				
20	F 0 1 2	" "	P				
21	F 0 1 9	" "	P				
22	F 0 2 4	" "	P				
23	F 0 2 5	" "	P				
24	F 0 2 8	" "	P				
25	F 0 3 4	" "	P				
26	F 0 3 5	" "	P				
27	F 0 3 7	" "	P				
28	F 0 3 8	" "	P				
29	F 0 3 9	" "	P				
30	K 0 0 1	" "	P				
31	K 0 0 2	" "	P				
32	K 0 0 3	" "	P				
33	K 0 0 4	2.0 x 10 <sup>8</sup>	P	T 0 4			

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Form Approved, OMB No. 2020-0014, Expiration 12-31-2004  
GSA FPMR G-44 (EPA)

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1048

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
U	T	D	9 8 2 5 9 0 3 5 8				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	K 0 0 5	$2.0 \times 10^8$	P	T 0 4			
2	K 0 0 6	" "	P				
3	K 0 0 7	" "	P				
4	K 0 0 8	" "	P				
5	K 0 0 9	" "	P				
6	K 0 1 0	" "	P				
7	K 0 1 1	" "	P				
8	K 0 1 3	" "	P				
9	K 0 1 4	" "	P				
10	K 0 1 5	" "	P				
11	K 0 1 6	" "	P				
12	K 0 1 7	" "	P				
13	K 0 1 8	" "	P				
14	K 0 1 9	" "	P				
15	K 0 2 0	" "	P				
16	K 0 2 1	" "	P				
17	K 0 2 2	" "	P				
18	K 0 2 3	" "	P				
19	K 0 2 4	" "	P				
20	K 0 2 5	" "	P				
21	K 0 2 6	" "	P				
22	K 0 2 7	" "	P				
23	K 0 2 8	" "	P				
24	K 0 2 9	" "	P				
25	K 0 3 0	" "	P				
26	K 0 3 1	" "	P				
27	K 0 3 2	" "	P				
28	K 0 3 3	" "	P				
29	K 0 3 4	" "	P				
30	K 0 3 5	" "	P				
31	K 0 3 6	" "	P				
32	K 0 3 7	" "	P				
33	K 0 3 8	$2.0 \times 10^8$	P	T 0 4			

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1049

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Form 8700-23 (Rev. 10-80)

EPA I.D. Number (enter from page 1)

U T D 9 8 2 5 9 0 3 5 8

Secondary ID Number (enter from page 1)

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	K 0 3 9	2.0 x 10 <sup>8</sup>	P	T 0 4	
2	K 0 4 0	" "	P	"	
3	K 0 4 1	" "	P	"	
4	K 0 4 2	" "	P	"	
5	K 0 4 3	" "	P	"	
6	K 0 4 4	" "	P	"	
7	K 0 4 5	" "	P	"	
8	K 0 4 6	" "	P	"	
9	K 0 4 7	" "	P	"	
10	K 0 4 8	" "	P	"	
11	K 0 4 9	" "	P	"	
12	K 0 5 0	" "	P	"	
13	K 0 5 1	" "	P	"	
14	K 0 5 2	" "	P	"	
15	K 0 6 0	" "	P	"	
16	K 0 6 1	" "	P	"	
17	K 0 6 2	" "	P	"	
18	K 0 6 4	" "	P	"	
19	K 0 6 5	" "	P	"	
20	K 0 6 6	" "	P	"	
21	K 0 7 1	" "	P	"	
22	K 0 7 3	" "	P	"	
23	K 0 8 3	" "	P	"	
24	K 0 8 4	" "	P	"	
25	K 0 8 5	" "	P	"	
26	K 0 8 6	" "	P	"	
27	K 0 8 7	" "	P	"	
28	K 0 8 8	" "	P	"	
29	K 0 9 0	" "	P	"	
30	K 0 9 1	" "	P	"	
31	K 0 9 3	" "	P	"	
32	K 0 9 4	" "	P	"	
33	K 0 9 5	2.0 x 10 <sup>8</sup>	P	T 0 4	

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CD2F 002

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Form approved by OMB under Control Number 21-01  
GSA FPMR (41 CFR) 101-11.2 (d)(2)

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CD2F 002

1051

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
U	T	D	9 8 2 5 9 0 3 5 8				
/ XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (if a code is not entered in D(1))		
1 P 0 0 8	2.0 x 10 <sup>8</sup>	P		T 0 4			
2 P 0 0 9	" "	P		"			
3 P 0 1 0	" "	P		"			
4 P 0 1 1	" "	P		"			
5 P 0 1 2	" "	P		"			
6 P 0 1 3	" "	P		"			
7 P 0 1 4	" "	P		"			
8 P 0 1 5	" "	P		"			
9 P 0 1 6	" "	P		"			
1 0 P 0 1 7	" "	P		"			
1 1 P 0 1 8	" "	P		"			
1 2 P 0 2 0	" "	P		"			
1 3 P 0 2 1	" "	P		"			
1 4 P 0 2 2	" "	P		"			
1 5 P 0 2 3	" "	P		"			
1 6 P 0 2 4	" "	P		"			
1 7 P 0 2 6	" "	P		"			
1 8 P 0 2 7	" "	P		"			
1 9 P 0 2 8	" "	P		"			
2 0 P 0 2 9	" "	P		"			
2 1 P 0 3 0	" "	P		"			
2 2 P 0 3 1	" "	P		"			
2 3 P 0 3 3	" "	P		"			
2 4 P 0 3 4	" "	P		"			
2 5 P 0 3 6	" "	P		"			
2 6 P 0 3 7	" "	P		"			
2 7 P 0 3 8	" "	P		"			
2 8 P 0 3 9	" "	P		"			
2 9 P 0 4 0	" "	P		"			
3 0 P 0 4 1	" "	P		"			
3 1 P 0 4 2	" "	P		"			
3 2 P 0 4 3	" "	P		"			
3 3 P 0 4 4	2.0 x 10 <sup>8</sup>	P		T 0 4			

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1052

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
U	T	D	9 8 2 5 9 0 3 5 8				
<b>XIV. Description of Hazardous Wastes (continued)</b>							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	P 0 4 5	2.0 x 10 <sup>8</sup>	P		T 0 4		
2	P 0 4 6	" "	P		"		
3	P 0 4 7	" "	P		"		
4	P 0 4 8	" "	P		"		
5	P 0 4 9	" "	P		"		
6	P 0 5 0	" "	P		"		
7	P 0 5 1	" "	P		"		
8	P 0 5 4	" "	P		"		
9	P 0 5 7	" "	P		"		
10	P 0 5 8	" "	P		"		
11	P 0 5 9	" "	P		"		
12	P 0 6 0	" "	P		"		
13	P 0 6 2	" "	P		"		
14	P 0 6 3	" "	P		"		
15	P 0 6 4	" "	P		"		
16	P 0 6 5	" "	P		"		
17	P 0 6 6	" "	P		"		
18	P 0 6 7	" "	P		"		
19	P 0 6 8	" "	P		"		
20	P 0 6 9	" "	P		"		
21	P 0 7 0	" "	P		"		
22	P 0 7 1	" "	P		"		
23	P 0 7 2	" "	P		"		
24	P 0 7 3	" "	P		"		
25	P 0 7 4	" "	P		"		
26	P 0 7 5	" "	P		"		
27	P 0 7 6	" "	P		"		
28	P 0 7 7	" "	P		"		
29	P 0 7 8	" "	P		"		
30	P 0 8 1	" "	P		"		
31	P 0 8 2	" "	P		"		
32	P 0 8 4	" "	P		"		
33	P 0 8 5	2.0 x 10 <sup>8</sup>	P		T 0 4		

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1053

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Form 8700-23, Rev. 10-80  
EPA Form 8700-23 (01-90)

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
U	T	D	9 8 2 5 9 0 3 5 8				
<b>XIV. Description of Hazardous Wastes (continued)</b>							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))		
1	P 0 8 7	2.0 x 10 <sup>8</sup>	P	T 0 4 1			
2	P 0 8 8	" "	P	"			
3	P 0 8 9	" "	P	"			
4	P 0 9 2	" "	P	"			
5	P 0 9 3	" "	P	"			
6	P 0 9 4	" "	P	"			
7	P 0 9 5	" "	P	"			
8	P 0 9 6	" "	P	"			
9	P 0 9 7	" "	P	"			
10	P 0 9 8	" "	P	"			
11	P 0 9 9	" "	P	"			
12	P 1 0 1	" "	P	"			
13	P 1 0 2	" "	P	"			
14	P 1 0 3	" "	P	"			
15	P 1 0 4	" "	P	"			
16	P 1 0 5	" "	P	"			
17	P 1 0 6	" "	P	"			
18	P 1 0 7	" "	P	"			
19	P 1 0 8	" "	P	"			
20	P 1 0 9	" "	P	"			
21	P 1 1 0	" "	P	"			
22	P 1 1 1	" "	P	"			
23	P 1 1 2	" "	P	"			
24	P 1 1 3	" "	P	"			
25	P 1 1 4	" "	P	"			
26	P 1 1 5	" "	P	"			
27	P 1 1 6	" "	P	"			
28	P 1 1 8	" "	P	"			
29	P 1 1 9	" "	P	"			
30	P 1 2 0	" "	P	"			
31	P 1 2 1	" "	P	"			
32	P 1 2 2	" "	P	"			
33	P 1 2 3	2.0 x 10 <sup>8</sup>	P	T 0 4			

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)									
U	I	T	D	9	8	2	5	9	0	3	5	8	
XIV. Description of Hazardous Wastes (continued)													
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE		C. UNIT OF MEASURE (enter code)		D. PROCESSES						
							(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
1	U	0	0	1	2.0 x 10 <sup>8</sup>	P		T	0	4			
2	U	0	0	2	" "	P			"				
3	U	0	0	3	" "	P			"				
4	U	0	0	4	" "	P			"				
5	U	0	0	5	" "	P			"				
6	U	0	0	6	" "	P			"				
7	U	0	0	7	" "	P			"				
8	U	0	0	8	" "	P			"				
9	U	0	0	9	" "	P			"				
10	U	0	1	0	" "	P			"				
11	U	0	1	1	" "	P			"				
12	U	0	1	2	" "	P			"				
13	U	0	1	4	" "	P			"				
14	U	0	1	5	" "	P			"				
15	U	0	1	6	" "	P			"				
16	U	0	1	7	" "	P			"				
17	U	0	1	8	" "	P			"				
18	U	0	1	9	" "	P			"				
19	U	0	2	0	" "	P			"				
20	U	0	2	1	" "	P			"				
21	U	0	2	2	" "	P			"				
22	U	0	2	3	" "	P			"				
23	U	0	2	4	" "	P			"				
24	U	0	2	5	" "	P			"				
25	U	0	2	6	" "	P			"				
26	U	0	2	7	" "	P			"				
27	U	0	2	8	" "	P			"				
28	U	0	2	9	" "	P			"				
29	U	0	3	0	" "	P			"				
30	U	0	3	1	" "	P			"				
31	U	0	3	2	" "	P			"				
32	U	0	3	3	" "	P			"				
33	U	0	3	4	2.0 x 10 <sup>8</sup>	P		T	0	4			

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1054

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1055

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Form Approved, Circular 2345, 2/22/79, 50 CFR Part 2.3  
GSA GEN. REG. 100-12

XIV. Description of Hazardous Wastes (continued)				Secondary ID Number (enter from page 1)	
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	U 0 3 5	2.0 x 10 <sup>8</sup>	P	T 0 4	
2	U 0 3 6	" "	P	"	
3	U 0 3 7	" "	P	"	
4	U 0 3 8	" "	P	"	
5	U 0 3 9	" "	P	"	
6	U 0 4 1	" "	P	"	
7	U 0 4 2	" "	P	"	
8	U 0 4 3	" "	P	"	
9	U 0 4 4	" "	P	"	
10	U 0 4 5	" "	P	"	
11	U 0 4 6	" "	P	"	
12	U 0 4 7	" "	P	"	
13	U 0 4 8	" "	P	"	
14	U 0 4 9	" "	P	"	
15	U 0 5 0	" "	P	"	
16	U 0 5 1	" "	P	"	
17	U 0 5 2	" "	P	"	
18	U 0 5 3	" "	P	"	
19	U 0 5 5	" "	P	"	
20	U 0 5 6	" "	P	"	
21	U 0 5 7	" "	P	"	
22	U 0 5 8	" "	P	"	
23	U 0 5 9	" "	P	"	
24	U 0 6 0	" "	P	"	
25	U 0 6 1	" "	P	"	
26	U 0 6 2	" "	P	"	
27	U 0 6 3	" "	P	"	
28	U 0 6 4	" "	P	"	
29	U 0 6 5	" "	P	"	
30	U 0 6 6	" "	P	"	
31	U 0 6 7	" "	P	"	
32	U 0 6 8	" "	P	"	
33	U 0 6 9	2.0 x 10 <sup>8</sup>	P	T 0 4	"

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23-01-23-10

EPA I.D. Number (enter from page 1)

U-T D 9 8 2 5 9 0 3 5 8

Secondary ID Number (enter from page 1)

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	U 0 7 0	2.0 x 10 <sup>8</sup>	P	T 0 4	
2	U 0 7 1	" "	P	"	
3	U 0 7 2	" "	P	"	
4	U 0 7 3	" "	P	"	
5	U 0 7 4	" "	P	"	
6	U 0 7 5	" "	P	"	
7	U 0 7 6	" "	P	"	
8	U 0 7 7	" "	P	"	
9	U 0 7 8	" "	P	"	
10	U 0 7 9	" "	P	"	
11	U 0 8 0	" "	P	"	
12	U 0 8 1	" "	P	"	
13	U 0 8 2	" "	P	"	
14	U 0 8 3	" "	P	"	
15	U 0 8 4	" "	P	"	
16	U 0 8 5	" "	P	"	
17	U 0 8 6	" "	P	"	
18	U 0 8 7	" "	P	"	
19	U 0 8 8	" "	P	"	
20	U 0 8 9	" "	P	"	
21	U 0 9 0	" "	P	"	
22	U 0 9 1	" "	P	"	
23	U 0 9 2	" "	P	"	
24	U 0 9 3	" "	P	"	
25	U 0 9 4	" "	P	"	
26	U 0 9 5	" "	P	"	
27	U 0 9 6	" "	P	"	
28	U 0 9 7	" "	P	"	
29	U 0 9 8	" "	P	"	
30	U 0 9 9	" "	P	"	
31	U 1 0 1	" "	P	"	
32	U 1 0 2	" "	P	"	
33	U 1 0 3	2.0 x 10 <sup>8</sup>	P	T 0 4	

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1056

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1057

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Form Approved: OMB No. 2500-0402  
GSA GEN. REG. NO. 27

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)								
H	I	T	D	9	8	2	5	9	0	3	5	8
XIV. Description of Hazardous Wastes (continued)												
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
	(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION [If a code is not entered in D(1)]										
1	U	1	0	5	2.0 x 10 <sup>8</sup>	P		T	0	4		
2	U	1	0	6	"	"	P		"	"		
3	U	1	0	7	"	"	P		"	"		
4	U	1	0	8	"	"	P		"	"		
5	U	1	0	9	"	"	P		"	"		
6	U	1	1	0	"	"	P		"	"		
7	U	1	1	1	"	"	P		"	"		
8	U	1	1	2	"	"	P		"	"		
9	U	1	1	3	"	"	P		"	"		
10	U	1	1	4	"	"	P		"	"		
11	U	1	1	5	"	"	P		"	"		
12	U	1	1	6	"	"	P		"	"		
13	U	1	1	7	"	"	P		"	"		
14	U	1	1	8	"	"	P		"	"		
15	U	1	1	9	"	"	P		"	"		
16	U	1	2	0	"	"	P		"	"		
17	U	1	2	1	"	"	P		"	"		
18	U	1	2	2	"	"	P		"	"		
19	U	1	2	3	"	"	P		"	"		
20	U	1	2	4	"	"	P		"	"		
21	U	1	2	5	"	"	P		"	"		
22	U	1	2	6	"	"	P		"	"		
23	U	1	2	7	"	"	P		"	"		
24	U	1	2	8	"	"	P		"	"		
25	U	1	2	9	"	"	P		"	"		
26	U	1	3	0	"	"	P		"	"		
27	U	1	3	1	"	"	P		"	"		
28	U	1	3	2	"	"	P		"	"		
29	U	1	3	3	"	"	P		"	"		
30	U	1	3	4	"	"	P		"	"		
31	U	1	3	5	"	"	P		"	"		
32	U	1	3	6	"	"	P		"	"		
33	U	1	3	7	2.0 x 10 <sup>8</sup>	P		T	0	4		

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EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
U	T	D	9 8 2 5 9 0 3 5 8				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))		
1	U 1 3 8	2.0 x 10 <sup>8</sup>	P	T 0 4			
2	U 1 4 0	" "	P				
3	U 1 4 1	" "	P				
4	U 1 4 2	" "	P				
5	U 1 4 3	" "	P				
6	U 1 4 4	" "	P				
7	U 1 4 5	" "	P				
8	U 1 4 6	" "	P				
9	U 1 4 7	" "	P				
10	U 1 4 8	" "	P				
11	U 1 4 9	" "	P				
12	U 1 5 0	" "	P				
13	U 1 5 1	" "	P				
14	U 1 5 2	" "	P				
15	U 1 5 3	" "	P				
16	U 1 5 4	" "	P				
17	U 1 5 5	" "	P				
18	U 1 5 6	" "	P				
19	U 1 5 7	" "	P				
20	U 1 5 8	" "	P				
21	U 1 5 9	" "	P				
22	U 1 6 0	" "	P				
23	U 1 6 1	" "	P				
24	U 1 6 2	" "	P				
25	U 1 6 3	" "	P				
26	U 1 6 4	" "	P				
27	U 1 6 5	" "	P				
28	U 1 6 6	" "	P				
29	U 1 6 7	" "	P				
30	U 1 6 8	" "	P				
31	U 1 6 9	" "	P				
32	U 1 7 0	" "	P				
33	U 1 7 1	2.0 x 10 <sup>8</sup>	P	T 0 4			

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GSA FPMR Case 1000 C

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1059

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)					
U	T	D	9 8 2 5 9 0 3 5 8						
XIV. Description of Hazardous Wastes (continued)									
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	U 1 7 2	2.0 x 10 <sup>8</sup>	P			T	0	4	
2	U 1 7 3	" "	P						"
3	U 1 7 4	" "	P						"
4	U 1 7 6	" "	P						"
5	U 1 7 7	" "	P						"
6	U 1 7 8	" "	P						"
7	U 1 7 9	" "	P						"
8	U 1 8 0	" "	P						"
9	U 1 8 1	" "	P						"
10	U 1 8 2	" "	P						"
11	U 1 8 3	" "	P						"
12	U 1 8 4	" "	P						"
13	U 1 8 5	" "	P						"
14	U 1 8 6	" "	P						"
15	U 1 8 7	" "	P						"
16	U 1 8 8	" "	P						"
17	U 1 8 9	" "	P						"
18	U 1 9 0	" "	P						"
19	U 1 9 1	" "	P						"
20	U 1 9 2	" "	P						"
21	U 1 9 3	" "	P						"
22	U 1 9 4	" "	P						"
23	U 1 9 5	" "	P						"
24	U 1 9 6	" "	P						"
25	U 1 9 7	" "	P						"
26	U 2 0 0	" "	P						"
27	U 2 0 1	" "	P						"
28	U 2 0 2	" "	P						"
29	U 2 0 3	" "	P						"
30	U 2 0 4	" "	P						"
31	U 2 0 5	" "	P						"
32	U 2 0 6	" "	P						"
33	U 2 0 7	" "	P						"
34	U 2 0 8	2.0 x 10 <sup>8</sup>	P			T	0	4	

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1868

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
U	T	D	9 8 2 5 9 0 3 5 8				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	U 2 0 9	$2.0 \times 10^8$	P	T	0	4	
2	U 2 1 0	" "	P				
3	U 2 1 1	" "	P				
4	U 2 1 3	" "	P				
5	U 2 1 4	" "	P				
6	U 2 1 5	" "	P				
7	U 2 1 6	" "	P				
8	U 2 1 7	" "	P				
9	U 2 1 8	" "	P				
10	U 2 1 9	" "	P				
11	U 2 2 0	" "	P				
12	U 2 2 1	" "	P				
13	U 2 2 2	" "	P				
14	U 2 2 3	" "	P				
15	U 2 2 5	" "	P				
16	U 2 2 6	" "	P				
17	U 2 2 7	" "	P				
18	U 2 2 8	" "	P				
19	U 2 3 4	" "	P				
20	U 2 3 5	" "	P				
21	U 2 3 6	" "	P				
22	U 2 3 7	" "	P				
23	U 2 3 8	" "	P				
24	U 2 3 9	" "	P				
25	U 2 4 0	" "	P				
26	U 2 4 3	" "	P				
27	U 2 4 4	" "	P				
28	U 2 4 6	" "	P				
29	U 2 4 7	" "	P				
30	U 2 4 8	" "	P				
31	U 2 4 9	" "	P				
32	U 3 2 8	" "	P				
33	U 3 5	$3.20 \times 10^8$	P	T	0	4	

Figure 8(b)(1) or 8(c) with ELITE type (12 characters per inch) in the unshaded areas only

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1061

EPA I.D. Number (enter from page 1)				Secondary ID Number (enter from page 1)			
U	T	D	9 8 2 5 9 0 3 5 8				
XIV. Description of Hazardous Wastes (continued)							
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES			
				(1) PROCESS CODES (enter)		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	U	3	5	9	2.0 × 10 <sup>8</sup>	P	T 0 4
2							
3							
4							
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7							
8							
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**A. Facility Information**

**1. Respondent Name and Title:**

Hans E. Steuch

**Company:**

Ash Grove Cement West, Inc.

**Phone number:**

(503) 293-2333

**2. Name and address of company that owns the cement kilns at this facility:**

Ash Grove Cement West, Inc., 6720 S.W. Macadam Ave., Suite 300,  
Portland, OR 97219-2312

**Facility name, location, and address:**

Ash Grove Cement West, Inc., Leamington Plant, P. O. Box 51,  
Nephi, UT 84648

EPA ID of burner: UTD982590358

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):

Will be cement company.

EPA ID of on-site processor: N/A

EPA ID of other on-site hazardous waste transporter: N/A

marketer: N/A

storer: N/A

**3. Number of kilns currently burning hazardous wastes at this facility:**

0

Additional kilns expected to burn hazardous wastes by July 1994:

1

Kilns at this facility not expected to burn hazardous wastes by July 1994:

0

Total Number of kilns at this facility (should be total of above):

1

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

Liquids

Percent received from off-site processors (excluding generators): 0

Processor 1

Processor 2

Processor 3

Processor 4

Pumpable Sludges

Percent received from off-site processors (excluding generators): 0

Processor 1

Processor 2

Processor 3

Processor 4

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): 0

Processor 1

Processor 2

Processor 3

Processor 4

Containerized Solids

Percent received from off-site processors (excluding generators): 0

Processor 1

Processor 2

Processor 3

Processor 4

Bulk Solids

Percent received from off-site processors (excluding generators): 0

Processor 1

Processor 2

Processor 3

Processor 4

Dry Solids

Percent received from off-site processors (excluding generators): 0

Processor 1

Processor 2

Processor 3

Processor 4

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B. **Potential Capacity and Waste Acceptance Limitations**

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

Roll-Off Bin  
 Steel Drum, specify sizes: 5-10 gallon  
 Poly Drum, specify sizes: 5-10 gallon  
 Fiber Drum, specify sizes:  
 Bag or other flexible container, specify sizes: 5-10 gallon  
 Rigid Tote  
 Tanker Trucks (transferred to tank)  
 Tanker Trucks (direct feed to kiln)  
 Rail car  
 Carboy  
 Pallet  
 Other, specify: \_\_\_\_\_

- 6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers	0	100,000 gallon	12/93
Liquid Tanks	0		
Other (specify)	0		

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

None

6c. What processing operations do you perform on-site for solid wastes?

None

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<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	0	0	0	N/A
Pumpable Sludges	0	0	0	N/A
Nonpumpable Sludges	0	0	0	N/A
Containerized Solids	0	0	0	N/A
Bulk Solids	0	0	0	N/A
Dry Solids	0	0	0	N/A
Total	0	0	0	N/A

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1068

Kiln Number: 1 of 1

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: Short, dry kiln with 4-stage preheater and precalciner

Clinker capacity (tons/hr): 74

Thermal input (Btu/ton clinker): 3.6

Type of cement product(s) produced in this kiln: I, II, V

Total hours operating per year on average: 7,000

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: N/A

Dry solids injected at "hot" end: N/A

Containerized solids charged to calcining zone: N/A

Sludge Pump: N/A

Other: (specify) N/A

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Kiln Number: 1 of 1

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or, if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0	0	N/A
Pumpable Sludges	0	0	N/A
Nonpumpable Sludges	0	0	N/A
Containerized Solids	0	0	N/A
Bulk Solids	0	0	N/A
Dry Solids	0	0	N/A
Total	0	0	N/A

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): N/A (%)  
 Percent of above solids originally generated as solids: N/A (%)

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Kiln Number: \_\_\_\_\_ of \_\_\_\_\_

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids					
Pumpable Sludges					
Nonpumpable Sludges			N/A		
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kilo Number: 1 of 1

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? March

How long? 3 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):

6/92

b) Physical changes (include planned schedule):

None

c) Regulatory modifications (include planned schedule):

State permit - 11/91

Interim status - 8/91

Lifting of Utah moratorium - 5/92

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10-72

Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content		N/A	
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content		N/A	
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1074

#### Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) \_\_\_\_\_

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		N/A	
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1075

**Pumpable Sludges Waste Acceptance Limits As Received**

- 14a. Are your pumpable sludge waste limitations "as received" the same as waste limitations specified in questions 13a or b? If so, specify which table applies (e.g., 13a or 13b) and skip to 14b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		N/A	
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Pumpable Sludges Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content		N/A	
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Pumpable Sludges Waste Acceptance Limits As Burned**

- 14b. Are your pumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15a;

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		S/A	
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Nonpumpable Sludges Waste Acceptance Limits As Received**

- 15a. Are your nonpumpable sludge waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Nonpumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		N/A	
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Nonpumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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#### Nonpumpable Sludges Waste Acceptance Limits As Burned

- 15b. Are your nonpumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16a:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Nonpumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content		N/A	
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Nonpumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Containerized Solids Waste Acceptance Limits As Received**

- 16a. Are your containerized solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	5,000 BTU/LB.		T
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content		94,000 ppm	T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		50 ppm	
Fungicides		50 ppm	
Herbicides		50 ppm	
Insecticides		50 ppm	
Rodenticides		50 ppm	
Other: Specify			
Total Specified Metals Content			
Antimony Content		1,000 ppm	T
Arsenic Content		1,100 ppm	T
Barium Content		100,000 ppm	T
Beryllium Content		40 ppm	T
Cadmium Content		150 ppm	T
Chromium Content		7,000 ppm	T
Copper Content			
Lead Content		5,600 ppm	T
Mercury Content		100 ppm	T
Nickel Content			
Selenium Content			
Silver Content		500 ppm	T
Thallium Content		500 ppm	T
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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#### Containerized Solids Waste Acceptance Limits As Burned

- 16b. Are your containerized solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17a:  
16a.

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Bulk Solids Waste Acceptance Limits As Received**

- 17a. Are your bulk solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17b: \_\_\_\_\_

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content		N/A	
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Bulk Solids Waste Acceptance Limits As Burned**

- 17b. Are your bulk solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18a:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content	N/A		
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Dry Solids Waste Acceptance Limits As Received**

- 18a. Are your dry solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content	N/A		
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Dry Solids Waste Acceptance Limits As Burned**

- 18b. Are your dry solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 19:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q); or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content	N/A		
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content		N/A	
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility; and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (✓)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)		X		
Personal Protection Equipment (e.g., Tyvek suits)		X		
Paper or Cardboard Materials				
Filter Cartridges				
Wood Materials				
Rubber Objects (e.g., tires, hoses)				
PVC Pipe				
Other Plastic Debris				
Glass Debris				
Ceramic Debris (e.g., semiconductors)				
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)				
Asbestos Materials (e.g., shingles, insulation)				
Non-Soil Geologic Material (e.g., rocks)				
Concrete Debris				
Refractory Brick				
Other Bricks				
Slag				
Intact Batteries				
Battery Cases				
Electronic Components (e.g., printed circuit boards)				
Electrical Wires, Switches, etc.				

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20. Please explain any debris acceptance conditions noted on the previous page:

To the extent that the debris can be containerized in 5-10 gallon drums or bags and satisfy our limitations, they will be accepted.

20a. Do you accept soils? If so, under what conditions or limitations?

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C. Permit Conditions

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

0

See Attachment 1

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

N/A

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
 FP - Fully Permitted to receive RCRA hazardous wastes  
 PM - Preparing Permit Modification for Additional Wastes  
 SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
 MA - Modifying Permit Application for Additional RCRA Wastes  
 IS - Interim Status  
 ND - Currently Responding to Notices of Deficiency in Application  
 PH - Awaiting Public Hearing on Permit  
 OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
<u>Federal</u> BIF	EPA Region VIII (303) 293-1603	SA	9/91
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
<u>State</u> Hazardous Waste			
Air Emission	Montana Dept. of Health & Enviro. Sciences (404) 444-3454	SA	12/91
Land Use/Siting			
Other (specify)			
<u>Local</u> Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

N/A

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26. When do you plan to submit a BIF Certification of Compliance (month and year)?

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes

No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

a) When (month or quarter, and year): (A)

b) Effect on hazardous waste capacity:

N/A

c) Modifications: N/A

(A) We are ready to burn containers in kiln #1 as soon as our state permit application is approved and expect to burn 5,000 ton solid containerized waste in 1992, increasing gradually to 12,000 tons per year in 1994.

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A. Facility Information

1. Respondent Name and Title:  
Ed Morton, Director of Engineering and Operations

Company:  
Cemtech LP

Phone number:  
(908) 805-9595

2. Name and address of company that owns the cement kilns at this facility:  
Blue Circle, Inc., Atlanta Plant, 2520 Paul Avenue, Atlanta, GA 30318

Facility name, location, and address:  
 

EPA ID of burner: GAD984286609

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):  
 

EPA ID of on-site processor: Same as above

EPA ID of other on-site hazardous waste transporter: N/A  
marketer: N/A  
storer: N/A

3. Number of kilns currently burning hazardous wastes at this facility:  
Additional kilns expected to burn hazardous wastes by July 1994:  
Kilns at this facility not expected to burn hazardous wastes by July 1994:  
Total Number of kilns at this facility (should be total of above): 2

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\* Proposed Facility

4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

Liquids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Pumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Bulk Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

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\* Proposed Facility

B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin
- Steel Drum, specify sizes: \_\_\_\_\_
- Poly Drum, specify sizes: \_\_\_\_\_
- Fiber Drum, specify sizes: \_\_\_\_\_
- Bag or other flexible container, specify sizes: \_\_\_\_\_
- Rigid Tote
- Tanker Trucks (transferred to tank)
- Tanker Trucks (direct feed to kiln)
- Rail car
- Carboy
- Pallet
- Other, specify: \_\_\_\_\_

6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers			
Liquid Tanks		240,000	1) 1992
Other (specify)			

1) Depends on Interim Status

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\* **Proposed Facility**

6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

Proposed operations include (copy Festus)

6c. What processing operations do you perform on-site for solid wastes?<sup>1</sup>

Proposed operations include (copy Festus)

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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\* Proposed Operations

7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	0	0	?	P/R
Pumpable Sludges	0	0	?	P/R
Nonpumpable Sludges	0	0	?	P/R
Containerized Solids				
Bulk Solids				
Dry Solids				
Total	0	0	?	P/R

Proposed Capacity

124,400 Tons  
Year

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Kiln Number: 1 of 2

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: Dry

Clinker capacity (tons/hr): 41.9

Thermal input (Btu/ton clinker): 4,298,500

Type of cement product(s) produced in this kiln: I, IA, II, III

Total hours operating per year on average: 7450

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X P

Dry solids injected at "hot" end: X P

Containerized solids charged to calcining zone: X P

Sludge Pump: X P

Other: (specify) \_\_\_\_\_

P - proposed

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1108

Kiln Number: 2 of 2

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 2

Type of Kiln: Dry

Clinker capacity (tons/hr): 41.9

Thermal input (Btu/ton clinker): 4,298,500

Type of cement product(s) produced in this kiln: I, IA, II, III

Total hours operating per year on average: 7450

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X P

Dry solids injected at "hot" end: X P

Containerized solids charged to calcining zone: X P

Sludge Pump: X P

Other: (specify) \_\_\_\_\_

P - Proposed

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A

## \* Proposed Facility

Kiln Number: 1 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

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Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0	?	P/R
Pumpable Sludges	0	?	P/R
Nonpumpable Sludges	0	?	P/R
Containerized Solids			
Bulk Solids			
Dry Solids			
Total	0	?	P/R

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): NA (%)  
 Percent of above solids originally generated as solids: NA (%)

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CD2F 002

A

Kiln Number: 2 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0	?	P/R
Pumpable Sludges	0	?	P/R
Nonpumpable Sludges	0	?	P/R
Containerized Solids			
Bulk Solids			
Dry Solids			
Total	0	?	P/R

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): NA (%)  
 Percent of above solids originally generated as solids: NA (%)

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Kiln Number: 1 of 2

## \*Proposed Facility

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids					
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

Total	16,700	28	310	N/A	N/A
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Kiln Number: 2 of 2

\* Proposed Facility

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids					
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

Total      16,700      24      310      N/A      N/A

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\* Proposed Facility

Kiln Number: 1 of 2

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Variable

How long? 30-45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):  
1992 Second Quarter

- b) Physical changes (include planned schedule):

Construction of receiving and storage facility during fourth quarter 1991 and first quarter 1992.

- c) Regulatory modifications (include planned schedule):

Requires obtaining Interim Status during third quarter 1991.

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\* Proposed Facility

Kiln Number: 2 of 2

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Variable

How long? 30-45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):

1992 Second Quarter

b) Physical changes (include planned schedule):

Construction of receiving and storage facility during fourth quarter  
1991 and first quarter 1992.

c) Regulatory modifications (include planned schedule):

Requires obtaining Interim Status during third quarter 1991.

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CD2F 002

**Liquid Waste Acceptance Limits As Received**

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	5,000 BTU's lb	25,000 BTU's lb	T
Water Content		40%	T
Total Solids Content		100%	T
Total Inorganics Content			
Particle/Object Size		1.000"	T
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify) ASH		40%	T
Other (Specify)			
Total Halogen Content			
Chlorine Content		20%	T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

\* Proposed Limits, require state approval

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"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content		500 ppm	T
Arsenic Content		50 ppm	T
Barium Content		5000 ppm	T
Beryllium Content		10 ppm	T
Cadmium Content		500 ppm	T
Chromium Content		2500 ppm	T
Copper Content			
Lead Content		5000 ppm	T
Mercury Content		10 ppm	
Nickel Content			
Selenium Content			
Silver Content		500 ppm	T
Thallium Content		500 ppm	T
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* Proposed Limits require State approval

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**Liquid Waste Acceptance Limits As Burned**

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) N

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	10,000 BTU's /lb	14,000 BTU's /lb	T
Water Content		25%	T
Total Solids Content		70%	
Total Inorganics Content			
Particle/Object Size		.125"	
Cyanide Content			
Sulfur Content			T
Sodium Content			T
Potassium Content			T
Other: Specify ASH		15%	R
Other: Specify			
Total Halogen Content			
Chlorine Content		5%/3%	R/T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

\* Proposed limits require State approval.

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**NOTICE**

CD2F 002

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content		100 ppm	R
Arsenic Content		10 ppm	R
Barium Content		1000 ppm	R
Beryllium Content		2 ppm	R
Cadmium Content		100 ppm	R
Chromium Content		500 ppm	R
Copper Content			
Lead Content		1000 ppm	R
Mercury Content		2 ppm	R
Nickel Content			
Selenium Content			
Silver Content		100 ppm	R
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* Proposed Limits, require state approval.

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Pumpable Sludges Waste Acceptance Limits As Received

- 14a. Are your pumpable sludge waste limitations "as received" the same as waste limitations specified in questions 13a or b? If so, specify which table applies (e.g., 13a or 13b) and skip to 14b: 13a. \* Proposed limits, require state approval

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Pumpable Sludge Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Pumpable Sludges Waste Acceptance Limits As Burned

- 14b. Are your pumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15a:

13b \* Proposed limits, require state approval

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Nonpumpable Sludges Waste Acceptance Limits As Received

- 15a. Are your nonpumpable sludge waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15b:  
13a \* Proposed limits, require state approval

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Nonpumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Nonpumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Nonpumpable Sludges Waste Acceptance Limits As Burned

- 15b. Are your nonpumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16a:

13b \* Proposed limits, require state approval

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Nonpumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1126

<b>"As Burned" Nonpumpable Sludges Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Containerized Solids Waste Acceptance Limits As Received

- 16a. Are your containerized solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16b:  
N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Containerized Solids Waste Acceptance Limits As Burned**

- 16b. Are your containerized solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17a:  
N/A

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Bulk Solids Waste Acceptance Limits As Received

- 17a. Are your bulk solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17b: N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Bulk Solids Waste Acceptance Limits As Burned

- 17b. Are your bulk solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18a: N/A

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Burned" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Dry Solids Waste Acceptance Limits As Received

- 18a. Are your dry solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18b: N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Dry Solids Waste Acceptance Limits As Burned

- 18b. Are your dry solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 19: N/A

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Burned" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (S)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)		Y	1	
Personal Protection Equipment (e.g., Tyvek suits)		Y	1	
Paper or Cardboard Materials		Y	1	
Filter Cartridges		Y	1	
Wood Materials		Y	1	
Rubber Objects (e.g., tires, hoses)		Y	1	
PVC Pipe		Y	1	
Other Plastic Debris		Y	1	
Glass Debris		Y	2	
Ceramic Debris (e.g., semiconductors)		Y	2	
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)		N		
Asbestos Materials (e.g., shingles, insulation)		N		
Non-Soil Geologic Material (e.g., rocks)		N		
Concrete Debris		N		
Refractory Brick		Y	2	
Other Bricks		Y	2	
Slag				
Intact Batteries		N		
Battery Cases		Y	4	
Electronic Components (e.g., printed circuit boards)		N		
Electrical Wires, Switches, etc.		N		

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20. Please explain any debris acceptance conditions noted on the previous page:

- 1) Fuel value into calcining zone
- 2) Raw material value i.e. high concentrations of calcium, alumina, silica, or iron.
- 3) Wire insulation as fuel substitute
- 4) Plastic battery cases as fuel substitute internal lead parts must be removed

20a. Do you accept soils? If so, under what conditions or limitations?

Yes, soils that have high concentrations of silica or alumina can be used as raw material substitutes.

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C. Permit Conditions.

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

\* Proposed Facility

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

See attached copy of acceptable waste codes.

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
FP - Fully Permitted to receive RCRA hazardous wastes  
PM - Preparing Permit Modification for Additional Wastes  
SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
MA - Modifying Permit Application for Additional RCRA Wastes  
IS - Interim Status  
ND - Currently Responding to Notices of Deficiency in Application  
PH - Awaiting Public Hearing on Permit  
OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
<u>Federal</u> <u>BIF</u>			
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
<u>State</u> Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			
<u>Local</u> Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.
26. When do you plan to submit a BIF Certification of Compliance (month and year)?

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes  
 No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

a) When (month or quarter, and year):  
\_\_\_\_\_

b) Effect on hazardous waste capacity:  
\_\_\_\_\_

c) Modifications:  
\_\_\_\_\_

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ACCEPTABLE WASTE CODES  
PRIMARY

<u>WASTE CODE</u>	<u>WASTE CODE</u>
D001 - except compressed gas	K102
D003 - water reaction (if direct burn)	K103
D018	K104
D023	P005
D024	U001
D025	U002
D026	U003
D035	U004
D036	U009
D038	U012
F001	U031
F002	U051
F003	U052
F004	U055
F005	U057
F024	U080
F037	U110
F038	U112
K013	U117
K014	U140
K022	U154
K023	U159
K024	U161
K025	U162
K026	U165
K048	U169
K049	U171
K050	U190
K051	U194
K052	U196
K061 - as raw material	U213
K083	U220
K086	U239
K087	U328
K088	U353
K093	U359
K094	
K101	

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**ACCEPTABLE WASTE CODES**  
**SECONDARY**

<b>WASTE CODE</b>	<b>WASTE CODE</b>	<b>WASTE CODE</b>	<b>WASTE CODE</b>
D004	K018	U041	U122
D005	K019	U042	U123
D006	K020	U043	U124
D007	K027	U044	U125
D008	K028	U045	U127
D009	K029	U046	U128
D010	K030	U047	U133
D011	K035	U053	U141
D019	K036	U056	U147
D021	K060	U065	U152
D022	K061	U069	U172
D027	K084	U070	U173
D028	K085	U071	U174
D029	K095	U072	U176
D030	K096	U074	U177
D031	K105	U076	U178
D032	K107	U077	U180
D033	K108	U078	U188
D034	K109	U079	U201
D039	K110	U081	U202
D040	K111	U082	U203
D043	K112	U083	U207
F032	K113	U084	U208
F034	K114	U088	U209
F035	K115	U092	U210
F039	K116	U098	U211
K001	P022	U099	U221
K002	P069	U102	U222
K003	P112	U105	U223
K004	U008	U106	U226
K005	U019	U107	U227
K006	U023	U108	U228
K007	U024	U109	U234
K008	U025	U111	U238
K009	U027	U113	U243
K010	U028	U115	
K011	U034	U118	
K015	U037	U119	
K016	U039	U121	
K017			

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ACCEPTABLE WASTE CODES

WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE
0001 - oxidizer	K042	P021	P060	P116	U064	U148	U218	U219
0002	K044	P023	P070	P118	U066	U149		
0003 - water reaction	X065	P024	P071	P119	U067	U150	U225	
except direct burn	R066	P026	P072	P120	U068	U151	U235	
0005 - explosives	R069	P027	P073	P121	U073	U153	U236	
0012	K071	P028	P074	P122	U075	U155	U237	
0013	K073	P029	P075	P123	U085	U156	U240	
0014	K090	P030	P076	P005	U086	U157	U244	
0015	K091	P031	P077	P006	U087	U158	U246	
0016	K097	P033	P078	P007	U089	U160	U247	
0017	K098	P034	P081	P010	U099	U163	U248	
0020	K099	P036	P082	P011	U091	U164	U249	
0037	K100	P037	P083	P014	U093	U166		
0041	K104	P038	P084	P015	U094	U166		
0042	K117	P039	P085	P016	U095	U167		
7006	K118	P040	P087	P017	U096	U168		
F007	K123	P041	P088	P018	U097	U170		
F008	K124	P042	P089	P020	U101	U169		
F009	K125	P043	P092	P021	U103	U182		
F010	K126	P044	P093	P022	U114	U183		
F011	K136	P045	P094	P026	U116	U184		
F012	P001	P046	P095	P029	U120	U185		
F019	P002	P047	P096	P030	U126	U186		
F021	P003	P048	P097	P032	U129	U187		
F031	P004	P049	P098	P033	U130	U189		
F032	P006	P050	P099	P035	U131	U191		
F033	P007	P051	P101	U036	U132	U192		
F034	P008	P054	P102	U038	U134	U193		
F037	P009	P056	P103	U046	U135	U197		
F038	P010	P057	P104					
F039	P011	P058	P105					
F040	P012	P059	P106	U049	U136	U200		
F041	P013	P060	P107	U050	U137	U204		
F042	P014	P062	P108	U058	U138	U205		
F043	P015	P063	P109	U059	U142	U206		
F044	P016	P064	P110	U060	U143	U214		
F045	P017	P065	P111	U061	U144	U215		
F046	P018	P066	P113	U062	U145	U216		
F047	P020	P067	P114	U063	U146	P115		

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#### A. Facility Information

- 1. Respondent Name and Title:**

Ed Morton, Director of Engineering and Operations

- Company:**

Cemtech LP

- Phone number:**

19081 805-9595

2. Name and address of company that owns the cement kilns at this facility:

Blue Circle, Inc., Tulsa Plant, 2609 N. 145th East Avenue,  
Tulsa, OK. 74116

**Facility name, location, and address:**

EPA ID of burner: OKD064558703

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):

EPA ID of on-site processor: Same as above

EPA ID of other on-site hazardous waste transporter: N/A

**marketer:** N/A

STORAGE N/A

3. Number of kilns currently burning hazardous wastes at this facility:

Additional kilns expected to burn hazardous wastes by July 1994:

Küns at this facility nor expected to burn hazardous wastes by July 1994:

Total Number of kilns at this facility (should be total of above):

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\* Proposed Facility

4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive:

Liquids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Pumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Bulk Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

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B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin
- Steel Drum, specify sizes: \_\_\_\_\_
- Poly Drum, specify sizes: \_\_\_\_\_
- Fiber Drum, specify sizes: \_\_\_\_\_
- Bag or other flexible container, specify sizes: \_\_\_\_\_
- Rigid Tote
- Tanker Trucks (transferred to tank)
- Tanker Trucks (direct feed to kiln)
- Rail car
- Carboy
- Pallet
- Other, specify: \_\_\_\_\_

- 6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers			
Liquid Tanks		240,000	1) 1992
Other (specify)			

1) Depends on Interim Status

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- 6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

Proposed operations include unloading, storage, blending, pumping,  
burning.

- 6c. What processing operations do you perform on-site for solid wastes?

Proposed operations include filtering of oversize particles from liquid  
streams, unloading of settled solids from transport vehicles, grinding  
mixing of ground-up material back into liquid stream, pumping, burning.

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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\* Proposed Facility

7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	0	0	?	P/R
Pumpable Sludges	0	0	?	P/R
Nonpumpable Sludges	0	0	?	P/R
Containerized Solids				
Bulk Solids				
Dry Solids				
Total	0	0	?	P/R

Proposed Capacity

191,200 Ton/Year

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Kiln Number: 1 of 2

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: Dry

Clinker capacity (tons/hr): 39.6

Thermal input (Btu/ton clinker): 3,789,000

Type of cement product(s) produced in this kiln: I, IA, II, III

Total hours operating per year on average: 7,450

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: x P

Dry solids injected at "hot" end: x P

Containerized solids charged to calcining zone: x P

Sludge Pump:   

Other: (specify)   

P - Proposed

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Kiln Number: 2 of 2

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 2

Type of Kiln: Dry

Clinker capacity (tons/hr): 39.6

Thermal input (Btu/ton clinker): 3,789,000

Type of cement product(s) produced in this kiln: I, IA, II, III

Total hours operating per year on average: 7450

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X P

Dry solids injected at "hot" end: X P

Containerized solids charged to calcining zone: X P

Sludge Pump: X P

Other: (specify) \_\_\_\_\_

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\* Proposed Facility

Kiln Number: 1 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0	?	P/R
Pumpable Sludges	0	?	P/R
Nonpumpable Sludges	0	?	P/R
Containerized Solids			
Bulk Solids			
Dry Solids			
Total	0	Proposed 95,600	P/R

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): NA (%)  
Percent of above solids originally generated as solids: NA (%)

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\* Proposed Facility

Kiln Number: 2 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0	?	P/R
Pumpable Sludges	0	?	P/R
Nonpumpable Sludges	0	?	P/R
Containerized Solids			
Bulk Solids			
Dry Solids			
Total	0	Proposed 95,600	P/R

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): NA (%)  
Percent of above solids originally generated as solids: NA (%)

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Kiln Number: 1 of 2

\* Proposed Facility

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids					
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

Total 12,830 24 310 N/A N/A

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Kiln Number: 2 of 2

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids					
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

Total      12,830      24      310      N/A      N/A

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Kiln Number: 1 of 2

\* Proposed Facility

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When?	Variable
How long?	30-45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):  
1992 Second Quarter

- b) Physical changes (include planned schedule):

Construction of receiving and storage facility during fourth quarter 1991 and first quarter 1992.

- c) Regulatory modifications (include planned schedule):

Requires obtaining Interim status during third quarter 1991.

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\* Proposed Facility

Kiln Number: 2 of 2

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When?	Variable
How long?	30 - 45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

1992 Second Quarter

- b) Physical changes (include planned schedule):

Construction of receiving and storage facility during fourth quarter 1991 and first quarter 1992.

- c) Regulatory modifications (include planned schedule):

Requires obtaining Interim Status during third quarter 1991.

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CD2F 002

Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q); or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	5,000 BTU's lb	25,000 BTU's lb	T
Water Content		40%	T
Total Solids Content		100%	T
Total Inorganics Content			
Particle/Object Size		1.00"	T
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content		20%	
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

\* Five times proposed limits as per BIF precompliance certification, require State approval.

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"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content		500 ppm	
Arsenic Content		50 ppm	
Barium Content		5000 ppm	
Beryllium Content		10 ppm	
Cadmium Content		500 ppm	
Chromium Content		2500 ppm	
Copper Content			
Lead Content		5000 ppm	
Mercury Content		10 ppm	
Nickel Content			
Selenium Content			
Silver Content		500 ppm	
Thallium Content		500 ppm	
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* Five times proposed limits, as per BIF precompliance certifications, require State approval.

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Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"?  
(Y/N) N

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	10,000 BTU's 15	14,000 BTU's 16	T
Water Content		25%	T
Total Solids Content		70%	T
Total Inorganics Content			
Particle/Object Size		.125	T
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify ASH		15%	R
Other: Specify			
Total Halogen Content			
Chlorine Content		5.0%	R
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

\* Proposed limits as per BIF precompliance certifications, require State approval.

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<b>"As Burned" Liquid Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content		100 ppm	R
Arsenic Content		10 ppm	R
Barium Content		1000 ppm	R
Beryllium Content		2 ppm	R
Cadmium Content		100 ppm	R
Chromium Content		500 ppm	R
Copper Content			
Lead Content		1000 ppm	R
Mercury Content		2 ppm	R
Nickel Content			
Selenium Content			
Silver Content		100 ppm	R
Thallium Content		100 ppm	R
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* Proposed limits as per BIF precompliance certification, require State approval.

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**Pumpable Sludges Waste Acceptance Limits As Received**

- 14a. Are your pumpable sludge waste limitations "as received" the same as waste limitations specified in questions 13a or b? If so, specify which table applies (e.g., 13a or 13b) and skip to 14b: 13a

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Pumpable Sludges Waste Acceptance Limits As Burned**

- 14b: Are your pumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15a:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Nonpumpable Sludges Waste Acceptance Limits As Received**

- 15a. Are your nonpumpable sludge waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15b:  
13a

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Nonpumpable Sludges Waste Limitations

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Nonpumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Nonpumpable Sludges Waste Acceptance Limits As Burned:**

- 15b. Are your nonpumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16a:

13b

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Nonpumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
-Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Nonpumpable Sludges Waste Limitations

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Containerized Solids Waste Acceptance Limits As Received**

- 16a. Are your containerized solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16b:  
N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Containerized Solids Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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## Containerized Solids Waste Acceptance Limits As Burned

- 16b. Are your containerized solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17a:  
N/A

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Containerized Solids Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Bulk Solids Waste Acceptance Limits As Received**

- 17a. Are your bulk solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17b: N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q); or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Bulk Solids Waste Acceptance Limits As Burned

- 17b. Are your bulk solids waste limitations "as burned" the same as waste limitations specified in earlier questions? - If so, specify which table applies (e.g., 13a) and skip to 18a: N/A

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Dry Solids Waste Acceptance Limits As Received

- 18a. Are your dry solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18b: N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Dry Solids Waste Acceptance Limits As Burned**

- 18b. Are your dry solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g. 13a) and skip to 19: N/A

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R); a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (✓)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)		Y	1	
Personal Protection Equipment (e.g., Tyvek suits)		Y	1	
Paper or Cardboard Materials		Y	1	
Filter Cartridges		Y	1	
Wood Materials		Y	1	
Rubber Objects (e.g., tires, hoses)		Y	1	
PVC Pipe		Y	1	
Other Plastic Debris		Y	1	
Glass Debris		Y	2	
Ceramic Debris (e.g., semiconductors)		Y	2	
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)		N		
Asbestos Materials (e.g., shingles, insulation)		N		
Non-Soil Geologic Material (e.g., rocks)		N		
Concrete Debris		N		
Refractory Brick		Y	2	
Other Bricks		Y	2	
Slag		N		
Intact Batteries		N		
Battery Cases		Y	4	
Electronic Components (e.g., printed circuit boards)		N		
Electrical Wires, Switches, etc.		N		

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20. Please explain any debris acceptance conditions noted on the previous page:

- 1) Fuel Value into calcining zone
- 2) Raw material value, i.e. high concentrations of calcium, silica, alumina or iron.
- 3) Wire insulation as fuel substitute
- 4) Plastic battery cases as fuel substitutes internal lead parts must be removed.

20a. Do you accept soils? If so, under what conditions or limitations?

Yes, solids that have high concentrations of silica or alumina can be used as raw material substitutes.

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C. Permit Conditions

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

\* Proposed Facility

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

See attached copy of acceptable waste codes.

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
FP - Fully Permitted to receive RCRA hazardous wastes  
PM - Preparing Permit Modification for Additional Wastes  
SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
MA - Modifying Permit Application for Additional RCRA Wastes  
IS - Interim Status  
ND - Currently Responding to Notices of Deficiency in Application  
PH - Awaiting Public Hearing on Permit  
OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
<u>Federal</u> <u>BIF</u>			
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
<u>State</u> <u>Hazardous Waste</u>			
Air Emission			
Land Use/Siting			
Other (specify)			
<u>Local</u> <u>Hazardous Waste</u>			
Air Emission			
Land Use/Siting			
Other (specify)			

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

26. When do you plan to submit a BIF Certification of Compliance (month and year)?

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes  
 No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

a) When (month or quarter, and year):

---

b) Effect on hazardous waste capacity:

c) Modifications:

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ACCEPTABLE WASTE CODES  
PRIMARY

<u>WASTE CODE</u>	<u>WASTE CODE</u>
D001 - except compressed gas	K102
D003 - water reaction (if direct burn)	K103
D018	K104
D023	P005
D024	U001
D025	U002
D026	U003
D035	U004
D036	U009
D038	U012
F001	U031
F002	U051
F003	U052
F004	U055
F005	U057
F024	U080
F037	U110
F038	U112
K013	U117
K014	U140
K022	U154
K023	U159
K024	U161
K025	U162
K026	U165
K048	U169
K049	U171
K050	U190
K051	U194
K052	U196
K061 - as raw material	U213
K083	U220
K086	U239
K087	U328
K088	U353
K093	U359
K094	
K101	

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ACCEPTABLE WASTE CODES  
SECONDARY

WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE
D004	K018	U041	U122
D005	K019	U042	U123
D006	K020	U043	U124
D007	K027	U044	U125
D008	K028	U045	U127
D009	K029	U046	U128
D010	K030	U047	U133
D011	K035	U053	U141
D019	K036	U056	U147
D021	K060	U063	U152
D022	K061	U069	U172
D027	K084	U070	U173
D028	K085	U071	U174
D029	K095	U072	U176
D030	K096	U074	U177
D031	K105	U076	U178
D032	K107	U077	U180
D033	K108	U078	U188
D034	K109	U079	U201
D039	K110	U081	U202
D040	K111	U082	U203
D043	K112	U083	U207
F032	K113	U084	U208
F034	K114	U088	U209
F035	K115	U092	U210
F039	K116	U098	U211
K001	P022	U099	U221
K002	P069	U102	U222
K003	P112	U105	U223
K004	U008	U106	U226
K005	U019	U107	U227
K006	U023	U108	U228
K007	U024	U109	U234
K008	U025	U111	U238
K009	U027	U113	U243
K010	U028	U115	
K011	U034	U118	
K015	U037	U119	
K016	U039	U121	
K017			

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WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE	WASTE_CODE
0001 - oxidizer	K062	P021	P068	P116	U064	U148
0002	K064	P023	P070	P118	U066	U149
0003 - water reaction	K065	P024	P071	P119	U067	U150
except direct burn	K066	P026	P072	P120	U068	U151
0005 - explosives	K069	P027	P073	P121	U073	U153
0012	K071	P028	P074	P122	U075	U155
0013	K073	P029	P075	P123	U085	U156
0014	K090	P030	P076	P005	U086	U157
0015	K091	P031	P077	P006	U087	U158
0016	K097	P033	P078	P007	U089	U160
0017	K098	P036	P081	P010	U090	U160
0020	K099	P036	P082	P011	U091	U164
0037	K100	P037	P003	U014	U093	U166
0041	K106	P038	P084	P015	U094	U167
0042	K117	P039	P085	P016	U095	U168
F095	K118	P040	P087	P017	U096	U170
F097	K123	P041	P088	P018	U097	U179
F098	K124	P042	P089	P020	U010	U181
F099	K125	P043	P092	P021	U103	U182
F100	K126	P044	P093	P022	U114	U183
F011	K126	P045	P094	P026	U114	U184
F012	K001	P046	P095	P029	P120	U185
F019	K002	P047	P096	P030	U126	U186
K021	K003	P048	P097	P032	U129	U187
K031	K004	P049	P098	P033	U130	U189
K032	K006	P050	P099	P035	U131	U191
K033	K007	P051	P101	P034	U132	U192
K034	K008	P054	P102	P038	U134	U193
K037	K009	P056	P103	P043	U135	U197
K038	K010	P057	P104			
K039	K011	P058	P105			
K040	K012	P059	P106			
K041	K013	P060	P107			
K042	K014	P062	P108			
K063	K015	P063	P109			
K044	K016	P064	P110			
K045	K017	P065	P111			
K046	K018	P066	P113			
K047	K020	P067	P114			

ACCEPTABLE USE POLICY

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KAZAINTH, PA 18064

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LOCATION: 703-634-9740

FROM: Mike Cowdrey

TOTAL NUMBER OF PAGES 16 INCLUDING THIS COVER LETTER

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ADDITIONAL COMMENTS: Here is what I have been able  
to assemble so far.

*Betterell  
speed*

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+

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1195

Klin Number: 1 of 5

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Klin Number: 1

Type of Kiln: Vertical Process

Clinker capacity (tons/hr): 18

Thermal input (Btu/ton clinker): 6.3 MM BTU/t

Type of cement product(s) produced in this kiln: Portland

Total hours operating per year on average: 5760

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: ✓

Dry solids injected at "hot" end:       

Containerized solids charged to calcining zone:       

Sludge Pump:       

Other: (specify)       

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Kiln Number: 1 or 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	12,000	~ 19,000	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total	12,000	19,000	

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): \_\_\_\_\_ (%)  
Percent of above solids originally generated as solids: \_\_\_\_\_ (%)

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Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	5,000 BTU/lb	7,000 BTU/lb	P
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content		1.0% by wt.	T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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Kiln Number: 2 of 5

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 2

Type of Kiln: Dry Process, Preheater

Clinker capacity (tons/hr): 92

Thermal input (Btu/on clinker): 3.2 MM BTU /ton

Type of cement product(s) produced in this kiln: Portland cement

Total hours operating per year on average: 5760

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: ✓

Dry solids injected at "hot" end:   

Containerized solids charged to calcining zone:   

Sludge Pump:   

Other: (specify)   

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1199

Kiln Number: 2 of 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	500	35,600	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total	500	35,600	

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): \_\_\_\_\_ (%)  
Percent of above solids originally generated as solids: \_\_\_\_\_ (%)

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1200

Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	5,000 BTU/lb	7,000 BTU/lb	P
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content		6%	
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1201

Kiln Number: 3 of 5

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 3

Type of Kiln: Wet Process

Clinker capacity (tons/hr): 32

Thermal input (Btu/ton clinker): 16.3 MM BTU/hr

Type of cement product(s) produced in this kiln: Portland T I and T II

Total hours operating per year on average: 7200

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: ✓

Dry solids injected at "hot" end:   

Containerized solids charged to calcining zone:   

Sludge Pump:   

Other: (specify)   

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1202

Kiln Number: 3 of 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permit limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids		26,000	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total		26,000	

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): \_\_\_\_\_ (%)  
Percent of above solids originally generated as solids: \_\_\_\_\_ (%)

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1203

Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q); or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1204

Kiln Number: 4 of 5

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 4Type of Kiln: Cement ProcessClinker capacity (tons/hr): 32Thermal input (Btu/ton clinker): 6.3 MMType of cement product(s) produced in this kiln: Portland, Type IITotal hours operating per year on average: 7200

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: Dry solids injected at "hot" end: Containerized solids charged to calcining zone: Sludge Pump: 

Other: (specify) \_\_\_\_\_

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1205

Kiln Number: 4 of 3

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids		26,000	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total		26,000	

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): \_\_\_\_\_ (%)  
Percent of above solids originally generated as solids: \_\_\_\_\_ (%)

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1206

Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1207

Kiln Number: 5 of 5

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 5Type of Kiln: Dry PreheaterClinker capacity (tons/hr): 83.3Thermal input (Btu/ton clinker): 3.6 MHType of cement product(s) produced in this kiln: Portland I and IITotal hours operating per year on average: 7200

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end:   Dry solids injected at "hot" end:   Containerized solids charged to calcining zone:   Sludge Pump:   Other: (specify)   

\* Kiln is not currently burning hazardous waste fuels. Plan to burn containerized solids in the future

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1208

Kiln Number: 5 of 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

N/A

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids			
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): \_\_\_\_\_ (%)  
Percent of above solids originally generated as solids: \_\_\_\_\_ (%)

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1209

**Liquid Waste Acceptance Limits As Received**

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Liquid Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	5,000 BTU/lb	6,000 BTU/lb	T
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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CD2F 002

1210

A. Facility Information

1. Respondent Name and Title:

Virginia C. Davis, Environmental Director

Company:

Giant Cement Company

Phone number:

803/496-5033

2. Name and address of company that owns the cement kilns at this facility:

GIANT GROUP, LTD. - Post Office Box 218

Harleyville, SC 29448

Facility name, location, and address:

Giant Cement Company, Highway SC 453 N @ I-26, Harleyville, SC

Mailing address: P. O. Box 218, Harleyville, SC 29448

EPA ID of burner:

SCD 003 351 699

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):

Giant Resource Recovery Company, Inc.

EPA ID of on-site processor:

N/A

EPA ID of other on-site hazardous waste transporter:

N/A

marketer: N/A

storer: N/A

3. Number of kilns currently burning hazardous wastes at this facility:

4

0

Additional kilns expected to burn hazardous wastes by July 1994:

0

Kilns at this facility not expected to burn hazardous wastes by July 1994:

0

Total Number of kilns at this facility (should be total of above):

4

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

Liquids

Percent received from off-site processors (excluding generators): 73%

Processor 1 Southeastern, P.O. Box 1060, Sumter, SC 29150 (803/773-1400)  
Processor 2 M & M Chemical Co., 1229 Valley Drive, Attalla, AL 35954 (205/538-  
Processor 3 Heritage Env. Servs., 4132 Pompano Road, Charlotte, NC 28216 704/35  
Processor 4 Oldover Corp., P. O. Box 68, Arvonia, VA 23004 (804/798-7981)

Pumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Bulk Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_  
Processor 2 \_\_\_\_\_  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 Safety-Kleen Corp., 581 Milliken Dr. SE, Hebron, OH 43025 (614/929-3  
Processor 2 Tosco Refining Co., Avon Refinery, Martinez, CA 94553 (415/228-12  
Processor 3 \_\_\_\_\_  
Processor 4 \_\_\_\_\_

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12/12

B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin  
 Steel Drum, specify sizes: \_\_\_\_\_  
 Poly Drum, specify sizes: \_\_\_\_\_  
 Fiber Drum, specify sizes: \_\_\_\_\_  
 Bag or other flexible container, specify sizes: \_\_\_\_\_  
 Rigid Tote  
 Tanker Trucks (transferred to tank)  
 Tanker Trucks (direct feed to kiln)  
 Rail car  
 Carboy  
 Pallet  
 Other, specify: \_\_\_\_\_

6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers			
Liquid Tanks	140,000 gallons	350,000 gallons	1993
Other (specify)	550 cu. yards	550 cu. yds.	1993

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

Blending

6c. What processing operations do you perform on-site for solid wastes?

None

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<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	3,804			
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids	1,726			
Total				

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1215

Kiln Number: 1 of 4

This supplemental question set should be completed for each additional kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994.  
(Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1 (Designated #2 on GCC records)

Type of Kiln: Wet Process

Clinker capacity (tons/hr): 32 TPH

Thermal input (Btu/ton clinker): 5.6 MMBTU/ton

Type of cement product(s) produced in this kiln: Types I and II Clinker

Total hours operating per year on average: 7400

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end: X

Containerized solids charged to calcining zone:   

Sludge Pump:   

Other: (specify)   

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1216

Kiln Number: 1 of 4

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

#2 Kiln (GCC records)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	9216	26,000	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids	722	7,400	T
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 20 (%)  
Percent of above solids originally generated as solids: Unknown (%)

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1217

Kiln Number: 1 of 4

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? December, January or February (varies year to year)

How long? 4 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

N/A

- b) Physical changes (include planned schedule):

- c) Regulatory modifications (include planned schedule):

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Kiln Number: 1 of 4

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

#2 Kiln - GCC records

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	7200	24	310	12500	70
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids	2000	24	310	7000	10

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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1219

Kiln Number: 2 of 4

This supplemental question set should be completed for each additional kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 2 (Designated #3 on GCC records)

Type of Kiln: Wet Process

Clinker capacity (tons/hr): 32 TPH

Thermal input (Btu/ton clinker): 5.6 MMBTU/ton

Type of cement product(s) produced in this kiln: Types I and II Clinker

Total hours operating per year on average: 7400

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end: X

Containerized solids charged to calcining zone:   

Sludge Pump:   

Other: (specify)   

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1220

Kiln Number: 2 of 4

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year; taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

#3 Kiln - GCC records

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	7938		T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids	575		T
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 20 (%)  
Percent of solids originally generated as solids: Unknown (%)

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Kiln Number: 2 of 4

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

#3 Kiln - GCC records

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	7200	24	310	12500	70
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids	2000	24	310	7000	10

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 2 of 4

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? December, January or February (varies year to year)

How long? 4 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

N/A

- b) Physical changes (include planned schedule):

- c) Regulatory modifications (include planned schedule):

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Kiln Number: 3 of 4

This supplemental question set should be completed for each additional kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 3 (Designated #4 on GCC records)

Type of Kiln: Wet Process

Clinker capacity (tons/hr): 32 TPH

Thermal input (Btu/ton clinker): 5.6 MMBTU/ton

Type of cement product(s) produced in this kiln: Types I and II Clinker

Total hours operating per year on average: 7400

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end: X

Containerized solids charged to calcining zone:       

Sludge Pump:       

Other: (specify)       

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Kiln Number: 3 of 4

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary: (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

#4 Kiln - GCC records

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	7410		T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids	327		T
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 20 (%)  
Percent of solids originally generated as solids: Unknown (%)

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Kiln Number: 3 of 4

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

#4 Kiln - GCC records

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	7200	24	310	12500	70
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids	2000	24	310	7000	10

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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1225

Kiln Number: 3 of 4

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? December, January or February (varies year to year)

How long? 4 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

N/A

- b) Physical changes (include planned schedule):

- c) Regulatory modifications (include planned schedule):

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Kiln Number: 4 of 4

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 4 (Designated #5 on GCC records)

Type of Kiln: Wet Process

Clinker capacity (tons/hr): 36 TPH

Thermal input (Btu/ton clinker): 5.6 MMBTU/ton

Type of cement product(s) produced in this kiln: Types I and II clinker

Total hours operating per year on average: 7400

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end: X

Containerized solids charged to calcining zone:   

Sludge Pump:   

Other: (specify)   

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Kiln Number: 4 of 4

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

#5 Kiln - GCC records

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	8468		T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids	309		T
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 20 (%)  
Percent of solids originally generated as solids: Unknown (%)

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Kiln Number: 4 of 4

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

#5 Kiln - GCC records

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	9000	24	310	12500	70
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids	2500	24	310	7000	10

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 4 of 4

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? December, January or February (varies year to year)

How long? 4 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

N/A

- b) Physical changes (include planned schedule):

- c) Regulatory modifications (include planned schedule):

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CD2F 002

Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	8000 Btu/lb		Q
Water Content		25%	T
Total Solids Content		Not established	
Total Inorganics Content		Not established	
Particle/Object Size		1/8 inch	T
Cyanide Content		0	T
Sulfur Content		Not established	
Sodium Content		Not established	
Potassium Content		Not established	
Other (Specify)			
Other (Specify)			
Total Halogen Content		8%	T
Chlorine Content		8%	T
Fluorine Content		Not established	
Bromine Content		Not established	
Other: Specify			
Other: Specify			

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"As Received" Liquid Waste Limitations

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		0	T
Fungicides		0	T
Herbicides		0	T
Insecticides		0	T
Rodenticides		0	T
Other: Specify			
Total Specified Metals Content			
Antimony Content		Not established	
Arsenic Content		Not established	
Barium Content		Not established	
Beryllium Content		Not established	
Cadmium Content		Not established	
Chromium Content		Not established	
Copper Content		Not established	
Lead Content		Not established	
Mercury Content		Not established	
Nickel Content		Not established	
Selenium Content		Not established	
Silver Content		Not established	
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"?  
(Y/N) NO

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned: Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q); or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	8000 Btu/lb.		P
Water Content		25%	T
Total Solids Content		Not established	
Total Inorganics Content		Not established	
Particle/Object Size		1/8 inch	T
Cyanide Content		0	T
Sulfur Content		3.5%	P
Sodium Content		Not established	
Potassium Content		Not established	
Other: Specify			
Other: Specify			
Total Halogen Content		4%	P
Chlorine Content		4%	P
Fluorine Content		Not established	
Bromine Content		Not established	
Other: Specify			
Other: Specify			

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"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		0	T
Fungicides		0	T
Herbicides		0	T
Insecticides		0	T
Rodenticides		0	T
Other: Specify			
Total Specified Metals Content		PPM	
Antimony Content		10,000	R
Arsenic Content		748	R
Barium Content		2,000	P
Beryllium Content		10	P
Cadmium Content		2,000	P
Chromium Content		2,000	P
Copper Content		N/A	
Lead Content		2,000	P
Mercury Content		300	R
Nickel Content		5,000	P
Selenium Content		2,000	P
Silver Content		2,000	P
Thallium Content		5,024	R
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Dry Solids Waste Acceptance Limits As Received

- 18a. Are your dry solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	5000 Btu/lb		R
Water Content		25%	T
Total Solids Content			
Total Inorganics Content			
Particle/Object Size		1/4 inch	T
Cyanide Content		0	T
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content		8%	T
Chlorine Content		8%	T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		0	T
Fungicides		0	T
Herbicides		0	T
Insecticides		0	T
Rodenticides		0	T
Other: Specify			
Total Specified Metals Content			
Antimony Content		Not established	
Arsenic Content		Not established	
Barium Content		Not established	
Beryllium Content		Not established	
Cadmium Content		Not established	
Chromium Content		Not established	
Copper Content		Not established	
Lead Content		Not established	
Mercury Content		Not established	
Nickel Content		Not established	
Selenium Content		Not established	
Silver Content		Not established	
Thallium Content		Not established	
Vanadium Content		Not established	
Zinc Content		Not established	
Other: Specify			
Other: Specify			

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Dry Solids Waste Acceptance Limits As Burned

- 18b. Are your dry solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 19:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	8000 Btu/lb		P
Water Content		25%	T
Total Solids Content			
Total Inorganics Content			
Particle/Object Size		1/4 inch	T
Cyanide Content		0	T
Sulfur Content		3.5%	P
Sodium Content		Not established	
Potassium Content		Not established	
Other: Specify			
Other: Specify			
Total Halogen Content		4%	T
Chlorine Content		4%	T
Fluorine Content		Not established	
Bromine Content		Not established	
Other: Specify			
Other: Specify			

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"As Burned" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides	0	T	
Fungicides	0	T	
Herbicides	0	T	
Insecticides	0	T	
Rodenticides	0	T	
Other: Specify			
Total Specified Metals Content		PPM	
Antimony Content	10,000	R	
Arsenic Content	748	R	
Barium Content	2,000	P	
Beryllium Content	10	P	
Cadmium Content	2,000	P	
Chromium Content	2,000	P	
Copper Content			
Lead Content	2,000	P	
Mercury Content	300	R	
Nickel Content	5,000	P	
Selenium Content	2,000	P	
Silver Content	2,000	P	
Thallium Content	5,024	R	
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (S)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)		X		
Personal Protection Equipment (e.g., Tyvek suits)				
Paper or Cardboard Materials		X		
Filter Cartridges	X			
Wood Materials		X		
Rubber Objects (e.g., tires, hoses)		X		
PVC Pipe				
Other Plastic Debris		X		
Glass Debris				
Ceramic Debris (e.g., semiconductors)				
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)				
Asbestos Materials (e.g., shingles, insulation)				
Non-Soil Geologic Material (e.g., rocks)				
Concrete Debris				
Refractory Brick				
Other Bricks				
Slag				
Intact Batteries				
Battery Cases				
Electronic Components (e.g., printed circuit boards)				
Electrical Wires, Switches, etc.				

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20. Please explain any debris acceptance conditions noted on the previous page:

Same requirements as dry solids

- 20a. Do you accept soils? If so, under what conditions or limitations?

Yes - Non regulated soil only at this time. Soil is pretreated in Interim Status incinerators on-site and then used as raw material in cement kilns.

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C. Permit Conditions

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

See attached sheet.

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91):

None

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

N/A

33000415

Following is a list of hazardous waste codes which Giant Cement Company is permitted to accept.

338 codes

66666	D040	F001	K001	K050	P001	U150	U200	U240
77777	D041	F002	K002	K051	P006	U151	U201	U241
D001	D042	F003	K003	K052	P022	U152	U202	U242
D002	D043	F004	K004	K060	P028	U153	U203	U243
D003		F005	K005	K061	P029	U154	U204	U244
D004		F006	K006	K062	P030	U155	U205	U245
D005		F007	K007	K079	P050	U156	U207	U246
D006		F008	K008	K081	P053	U157	U208	U247
D007		F009	K009	K083	P055	U158	U209	U248
D008		F010	K010	K084	P064	U159	U210	
D009		F011	K011	K085	P074	U161	U211	
D010		F012	K013	K086	P098	U162	U212	
D011		F015	K014	K087	P105	U163	U213	
D012		F017	K015	K088	P106	U164	U214	
D013		F018	K016	K093	P120	U165	U215	
D014		F019	K017	K094	P120	U166	U216	
D015		F024	K018	K095	P120	U167	U217	
D016		F030	K019	K096	P120	U168	U218	
D017		F032	K020	K100	P120	U169	U219	
D018		F033	K021	K101	P121	U170	U220	
D019		F034	K022	K102	P122	U171	U221	
D020		F035	K023	K103	P123	U172	U222	
D021		F037	K024	K104	P124	U174	U223	
D022		F038	K025	K105	P125	U179	U225	
D023		F039	K026	K106	P126	U180	U226	
D024			K027	K107	P127	U181	U227	
D025			K028	K108	P128	U182	U228	
D026			K029	K109	P129	U183	U230	
D027			K030	K110	P130	U184	U231	
D028			K035	K111	P131	U185	U232	
D029			K042	K112	P136	U186	U235	
D030			K044	K113	P143	U187	U236	
D031			K046	K114	P144	U188	U237	
D032			K048	K115	P145	U189	U238	
D033			K049	K116	P146	U190	U239	
D034					P147	U191		
D035					P148	U192		
D036					P149	U193		
D037					P150	U194		
D038					P151	U195		
D039					P152	U196		

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
FP - Fully Permitted to receive RCRA hazardous wastes  
PM - Preparing Permit Modification for Additional Wastes  
SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
MA - Modifying Permit Application for Additional RCRA Wastes  
IS - Interim Status  
ND - Currently Responding to Notices of Deficiency in Application  
PH - Awaiting Public Hearing on Permit  
OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
Federal BIF	USEPA - Region IV 404/347-3016	OT*	Unknown
RCRA Storage	SCDHEC 803/734-5200	IS, SA, ND	Spring 1992
RCRA Treatment	404/347-3016 USEPA - Region IV	IS	Unknown
Clean Air Act			
Other (specify)			
State Hazardous Waste	SCDHEC - BS&HWM 803/734-5200	IS SA ND	Spring 1992
Air Emission	SCDHEC - BAOC 803/734-4527	FP	
Land Use/Siting	SCDHEC - BS&HWM 803/734-5200	ND	
Other (specify)			
Local Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

\* Submitted Pre-compliance Certification

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved:

N/A

26. When do you plan to submit a BIF Certification of Compliance (month and year)?

August, 1992

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes  
 No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

a) When (month or quarter, and year):

---

b) Effect on hazardous waste capacity:

c) Modifications:

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A. Facility Information

1. Respondent Name and Title:

Ed Morton, Director of Engineering and Operations

Company:

Cemtech LP

Phone number:

(908) 805-9595

2. Name and address of company that owns the cement kilns at this facility:

Heartland Cement Co., Cement Street, P.O. Box 428, Independence  
KS, 67301

Facility name, location, and address:

EPA ID of burner: KSD-980-739-999

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):  
 

EPA ID of on-site processor: Same as above

EPA ID of other on-site hazardous waste transporter: N/A  
marketer: N/A  
storer: N/A

3. Number of kilns currently burning hazardous wastes at this facility:

4

Additional kilns expected to burn hazardous wastes by July 1994:  
 

Kilns at this facility not expected to burn hazardous wastes by July 1994:  
 

Total Number of kilns at this facility (should be total of above):

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

Liquids

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Pumpable Sludges

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Bulk Solids

Percent received from off-site processors (excluding generators): 0

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): 100

Processor 1 Safety Kleen

Processor 2 IFR Scott City Mo:

Processor 3 USPCJ

Processor 4 \_\_\_\_\_

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B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin  
 Steel Drum, specify sizes: \_\_\_\_\_  
 Poly Drum, specify sizes: \_\_\_\_\_  
 Fiber Drum, specify sizes: \_\_\_\_\_  
 Bag or other flexible container, specify sizes: \_\_\_\_\_  
 Rigid Tote  
 Tanker Trucks (transferred to tank)  
 Tanker Trucks (direct feed to kiln)  
 Rail car  
 Carboy  
 Pallet  
 Other, specify: \_\_\_\_\_  
\_\_\_\_\_

- 6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers	120 cubic yards		
Liquid Tanks			
Other (specify)	Solid Storage Tanks	2,000 cubic yards	1992

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

6c. What processing operations do you perform on-site for solid wastes?

Unloading, screening, blending, burning

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	0	0	0	
Pumpable Sludges	0	0	0	
Nonpumpable Sludges	0	0	0	
Containerized Solids	0	0	0	
Bulk Solids	0	0	0	
Dry Solids	2,400	2,400	30,000	T/Q
Total	2,400	2,400	30,000	T/Q

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Kiln Number: 1 of 4

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: Dry

Clinker capacity (tons/hr): 11.25

Thermal input (Btu/ton clinker): 5,867,000

Type of cement product(s) produced in this kiln: I, II, III, CTS

Total hours operating per year on average: 7450

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: x-P

Dry solids injected at "hot" end: x

Containerized solids charged to calcining zone:

Sludge Pump: x-P

Other: (specify)

P - Proposed

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1252

Kiln Number: 2 of 4

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 2

Type of Kiln: Dry

Clinker capacity (tons/hr): 11.25

Thermal input (Btu/ton clinker): 5,867,000

Type of cement product(s) produced in this kiln: I, II, III, CTS

Total hours operating per year on average: 7450

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: x-P

Dry solids injected at "hot" end: x

Containerized solids charged to calcining zone:

Sludge Pump: x-P

Other: (specify)

P - Proposed

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Kiln Number: 3 of 4

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 3

Type of Kiln: Dry

Clinker capacity (tons/hr): 11.25

Thermal input (Btu/ton clinker): 5,867,000

Type of cement product(s) produced in this kiln: I, II, III, CTS

Total hours operating per year on average: 7450

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: x-P

Dry solids injected at "hot" end: x

Containerized solids charged to calcining zone:

Sludge Pump: x-P

Other: (specify)

P - Proposed

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Kiln Number: 4 of 4

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 4

Type of Kiln: Dry

Clinker capacity (tons/hr): 11.25

Thermal input (Btu/ton clinker): 5,867,000

Type of cement product(s) produced in this kiln: I, II, III, CTS

Total hours operating per year on average: 7450

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: x-P

Dry solids injected at "hot" end: x

Containerized solids charged to calcining zone:   

Sludge Pump: x-P

Other: (specify)   

P - Proposed

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Kiln Number: 1 of 4

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0		
Pumpable Sludges	0		
Nonpumpable Sludges	0		
Containerized Solids	0		
Bulk Solids	0		
Dry Solids	600	7,500	T/Q
Total	600	7,500	T/Q

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 100 (%)  
Percent of above solids originally generated as solids: 100 (%)

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1256

Kiln Number: 2 of 4

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0	0	
Pumpable Sludges	0	0	
Nonpumpable Sludges	0	0	
Containerized Solids	0	0	
Bulk Solids	0	0	
Dry Solids	600	600	T/Q
Total	600	600	T/Q

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 100 (%)  
 Percent of above solids originally generated as solids: 100 (%)

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Kiln Number: 3 of 8

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0	0	
Pumpable Sludges	0	0	
Nonpumpable Sludges	0	0	
Containerized Solids	0	0	
Bulk Solids	0	0	
Dry Solids	600	7,500	T/Q
Total	600	7,500	T/Q

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids?

Average total solid content in liquids (as burned): 100 (%)  
Percent of above solids originally generated as solids: 100 (%)

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Kiln Number: 4 of 4

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	0	0	
Pumpable Sludges	0	0	
Nonpumpable Sludges	0	0	
Containerized Solids	0	0	
Bulk Solids	0	0	
Dry Solids	600	7,500	T/Q
Total	600	7,500	T/Q

- 5a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned):  $\frac{100}{100}$  (%),  
 Percent of above solids originally generated as solids:  $\frac{100}{100}$  (%)

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Kiln Number: 1 of 4

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	N/A	N/A	N/A	N/A	N/A
Pumpable Sludges	"	"	"	"	"
Nonpumpable Sludges	"	"	"	"	"
Containerized Solids	"	"	"	"	"
Bulk Solids	"	"	"	"	"
Dry Solids	2000	24	310	N/A	N/A

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 2 of 4

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	N/A	N/A	N/A	N/A	N/A
Pumpable Sludges	"	"	"	"	"
Nonpumpable Sludges	"	"	"	"	"
Compressed	"	"	"	"	"
Bulk Solids	"	"	"	"	"
Dry Solids	2000	24	310	N/A	N/A

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 3 of 4

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A:

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	N/A	N/A	N/A	N/A	N/A
Pumpable Sludges	"	"	"	"	"
Nonpumpable Sludges	"	"	"	"	"
Containerized Solids	"	"	"	"	"
Bulk Solids	"	"	"	"	"
Dry Solids	2000	24	310	N/A	N/A

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 4 of 4

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill-in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	N/A	N/A	N/A	N/A	N/A
Pumpable Sludges	"	"	"	"	"
Nonpumpable Sludges	"	"	"	"	"
Containerized Solids	"	"	"	"	"
Bulk Solids	"	"	"	"	"
Dry Solids	2000	24	310	N/A	N/A

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kila Number: 1 of 4

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Variable

How long? 30-45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):  
  

b) Physical changes (include planned schedule):  
  

c) Regulatory modifications (include planned schedule):  
  

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Kiln Number: 2 of 4

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Variable

How long? 30-45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):  
                        

b) Physical changes (include planned schedule):  
                        

c) Regulatory modifications (include planned schedule):  
                        

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Kiln Number: 3 of 4

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When?	Variable
How long?	30-45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):  
                        

b) Physical changes (include planned schedule):  
                        

c) Regulatory modifications (include planned schedule):  
                        

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Kiln Number: 4 of 4

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Variable

How long? 30-45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):  
\_\_\_\_\_

b) Physical changes (include planned schedule):  
\_\_\_\_\_

c) Regulatory modifications (include planned schedule):  
\_\_\_\_\_

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Kiln Number: 1 of 2

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Variable  
How long? 30-45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):  
                        

b) Physical changes (include planned schedule):  
                        

c) Regulatory modifications (include planned schedule):  
                        

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Kiln Number: 2 of 2

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Variable

How long? 30-45 days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):  
                                

b) Physical changes (include planned schedule):  
                                

c) Regulatory modifications (include planned schedule):

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Liquid Waste Acceptance Limits As Received      Presently not accepting this type of waste.

13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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CEMENT KILN REC COAL

F-529 T-208 P-015/031 AUG 25 '91 19:16

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1270

<b>"As Received" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Liquid Waste Acceptance Limits As Burned : Presently not accepting this type of waste.

13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) N/A

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1272

"As Burned" Liquid Waste Limitations

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1273

**Pumpable Sludges Waste Acceptance Limits As Received**      Presently not accepting  
this type of waste.

- 14a. Are your pumpable sludge waste limitations "as received" the same as waste limitations specified in questions 13a or b? If so, specify which table applies (e.g., 13a or 13b) and skip to 14b: N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor:</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1274

"As Received" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1275

Pumpable Sludges Waste Acceptance Limits As Burned

Presently not accepting  
this type of waste.

- 14b. Are your pumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15a:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1276

"As Burned" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Nonpumpable Sludges Waste Acceptance Limits As Received      Presently not accepting  
this type of waste.**

- 15a. Are your nonpumpable sludge waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15b:

N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Nonpumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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**"As Received" Nonpumpable Sludges Waste Limitations**

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1279

**Nonpumpable Sludges Waste Acceptance Limits As Burned** Presently not accepting this type of waste.

- 15b. Are your nonpumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16a:

N/A

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Nonpumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Burned" Nonpumpable Sludges Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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128

**Containerized Solids Waste Acceptance Limits As Received**

- 16a. Are your containerized solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 16b:  
N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1282

<b>"As Received" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1283

**Containerized Solids Waste Acceptance Limits As Burned**

- 16b. Are your containerized solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17a:

N/A

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check-off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Burned" Containerized Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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**Bulk Solids Waste Acceptance Limits As Received** Presently not accepting  
this type of waste.

- 17a. Are your bulk solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 17b: N/A

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

#### "As Received" Bulk Solids Waste Limitations

AS Received Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1287

Bulk Solids Waste Acceptance Limits As Burned      Presently not accepting this type of waste.

- 17b. Are your bulk solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18a: N/A

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Bulk Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Burned" Bulk Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1209

**Dry Solids Waste Acceptance Limits As Received**

- 18a. Are your dry solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18b:

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	8,000 BTU'S lb	16,000 BTU'S lb	T
Water Content		10%	T
Total Solids Content	90%	100%	T
Total Inorganics Content			
Particle/Object Size		.125"	T
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify ASH		24%	
Other: Specify			
Total Halogen Content			
Chlorine Content		5%	R
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Dry Solids Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content		200ppm	
Arsenic Content		20ppm	
Barium Content		2000ppm	
Beryllium Content		4ppm	
Cadmium Content		200ppm	
Chromium Content		1000ppm	
Copper Content			
Lead Content		2000ppm	
Mercury Content		4ppm	
Nickel Content			
Selenium Content			
Silver Content		200ppm	
Thallium Content		200ppm	
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* Two times proposed limits of BIF precompliance certification levels due to limited blending capacity.

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Dry Solids Waste Acceptance Limits As Burned

- 18b. Are your dry solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 19:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	8,000 BTU'S 15	14,000 BTU'S 16	T
Water Content		5%	T
Total Solids Content	95%	100%	T
Total Inorganics Content			
Particle/Object Size		.125"	T
Cyanide Content			
Sulfur Content		6%	T
Sodium Content		1%	T
Potassium Content		2%	T
Other: Specify	ASH	24%	R
Other: Specify			
Total Halogen Content		5%	
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Dry Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content		100ppm	R
Arsenic Content		10ppm	R
Barium Content		1000ppm	R
Beryllium Content		2ppm	R
Cadmium Content		100ppm	R
Chromium Content		500ppm	R
Copper Content			
Lead Content		1000ppm	R
Mercury Content		2ppm	R
Nickel Content			
Selenium Content			
Silver Content		100ppm	R
Thallium Content		100ppm	R
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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293

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (✓)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)		Y	1	
Personal Protection Equipment (e.g., Tyvek suits)		Y	1	
Paper or Cardboard Materials		Y	1	
Filter Cartridges		Y	1	
Wood Materials		Y	1	
Rubber Objects (e.g., tires, hoses)		Y	1	
PVC Pipe		Y	1	
Other Plastic Debris		Y	1	
Glass Debris		Y	2	
Ceramic Debris (e.g., semiconductors)		Y	2	
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)		N		
Asbestos Materials (e.g., shingles, insulation)		N		
Non-Soil Geologic Material (e.g., rocks)		N		
Concrete Debris		N		
Refractory Brick		Y	2	
Other Bricks		Y	2	
Slag		N		
Intact Batteries		N		
Battery Cases		Y	4	
Electronic Components (e.g., printed circuit boards)		N		
Electrical Wires, Switches, etc.		N		

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20. Please explain any debris acceptance conditions noted on the previous page:

- 1) Fuel value into calcining zone.
- 2) Raw material value, i.e. high concentrations of calcium, silica, alumina or iron.
- 3) Wire insulation as fuel substitution.
- 4) Plastic battery cases as fuel substitutes, internal lead parts must be moved.

20a. Do you accept soils? If so, under what conditions or limitations?

Yes, solids that have high concentrations of silica or alumina can be used as raw material substitutes.

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**C. Permit Conditions**

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

\* Proposed Facility.

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

See attached copy of acceptable waste codes.

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note).  
 FP - Fully Permitted to receive RCRA hazardous wastes  
 PM - Preparing Permit Modification for Additional Wastes  
 SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
 MA - Modifying Permit Application for Additional RCRA Wastes  
 IS - Interim Status  
 ND - Currently Responding to Notices of Deficiency in Application  
 PH - Awaiting Public Hearing on Permit  
 OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
<u>Federal</u>			
BIF			
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
<u>State</u>			
Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			
<u>Local</u>			
Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

26. When do you plan to submit a BIF Certification of Compliance (month and year)?

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes

No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

a) When (month or quarter, and year):  
\_\_\_\_\_

b) Effect on hazardous waste capacity:

c) Modifications:

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ACCEPTABLE WASTE CODES  
PRIMARY

WASTE CODE	WASTE CODE
D001 - except compressed gas	K102
D003 - water reaction (if direct burn)	K103
D018	K104
D023	P005
D024	U001
D025	U002
D026	U003
D035	U004
D036	U009
D038	U012
F001	U031
F002	U051
F003	U052
F004	U055
F005	U057
F024	U080
F037	U110
F038	U112
K013	U117
K014	U140
K022	U154
K023	U159
K024	U161
K025	U162
K026	U165
K048	U169
K049	U171
K050	U190
K051	U194
K052	U196
K061 - as raw material	U213
K083	U220
K086	U239
K087	U328
K088	U353
K093	U359
K094	
K101	

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ACCEPTABLE WASTE CODES  
SECONDARY

<u>WASTE CODE</u>	<u>WASTE CODE</u>	<u>WASTE CODE</u>	<u>WASTE CODE</u>
D004	K018	U041	U122
D005	K019	U042	U123
D006	K020	U043	U124
D007	K027	U044	U125
D008	K028	U045	U127
D009	K029	U046	U128
D010	K030	U047	U133
D011	K035	U053	U141
D019	K036	U056	U147
D021	K060	U065	U152
D022	K061	U069	U172
D027	K084	U070	U173
D028	K085	U071	U174
D029	K095	U072	U176
D030	K096	U074	U177
D031	K105	U076	U178
D032	K107	U077	U180
D033	K108	U078	U188
D034	K109	U079	U201
D039	K110	U081	U202
D040	K111	U082	U203
D043	K112	U083	U207
F032	K113	U084	U208
F034	K114	U088	U209
F035	K115	U092	U210
F039	K116	U098	U211
K001	P022	U099	U221
KJ02	P069	U102	U222
K003	P112	U105	U223
K004	U008	U106	U226
K005	U019	U107	U227
K006	U023	U108	U228
K007	U024	U109	U234
K008	U025	U111	U238
K009	U027	U113	U243
K010	U028	U115	
KC11	U034	U118	
K015	U037	U119	
K016	U039	U121	
K017			

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ACCEPTABLE IMAGE

| WASTE_CODE |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| K062       | P021       | P068       | P116       | U064       | U148       | U218       |            |            |
| K064       | P023       | P070       | P118       | U066       | U149       | U219       |            |            |
| K065       | P024       | P071       | P119       | U067       | U150       | U225       |            |            |
| K066       | P026       | P072       | P120       | U068       | U151       | U235       |            |            |
| K069       | P027       | P073       | P121       | U073       | U153       | U236       |            |            |
| K071       | P028       | P074       | P122       | U075       | U155       | U237       |            |            |
| K073       | P029       | P075       | P123       | U085       | U156       | U240       |            |            |
| K090       | P030       | P076       | U005       | U086       | U157       | U244       |            |            |
| K091       | P031       | P077       | U006       | U087       | U158       | U246       |            |            |
| K097       | P033       | P078       | U007       | U089       | U160       | U247       |            |            |
| K098       | P034       | P081       | U010       | U090       | U163       | U248       |            |            |
| K099       | P036       | P082       | U011       | U091       | U164       | U249       |            |            |
| K100       | P037       | P083       | U014       | U093       | U166       |            |            |            |
| K106       | P038       | P084       | U015       | U094       | U167       |            |            |            |
| K117       | P039       | P085       | U016       | U095       | U169       |            |            |            |
| K118       | P040       | P087       | U017       | U096       | U170       |            |            |            |
| K123       | P041       | P088       | U018       | U097       | U179       |            |            |            |
| K124       | P042       | P089       | U020       | U101       | U181       |            |            |            |
| K125       | P043       | P092       | U021       | U103       | U182       |            |            |            |
| K126       | P044       | P093       | U022       | U114       | U183       |            |            |            |
| K136       | P045       | P094       | U026       | U116       | U184       |            |            |            |
| P001       | P046       | P095       | U029       | U120       | U185       |            |            |            |
| P002       | P047       | P096       | U030       | U126       | U186       |            |            |            |
| P003       | P048       | P097       | U032       | U129       | U187       |            |            |            |
| P004       | P049       | P098       | U033       | U130       | U189       |            |            |            |
| P006       | P050       | P099       | U035       | U131       | U191       |            |            |            |
| P007       | P051       | P101       | U036       | U132       | U192       |            |            |            |
| P008       | P054       | P102       | U038       | U136       | U193       |            |            |            |
| P009       | P056       | P103       | U048       | U135       | U197       |            |            |            |
| P010       | P057       | P104       |            |            |            |            |            |            |
| P011       | P058       | P105       |            |            |            |            |            |            |
| P012       | P059       | P106       | U069       | U136       | U200       |            |            |            |
| P013       | P060       | P107       | U050       | U137       | U204       |            |            |            |
| P016       | P042       | P108       | U058       | U138       | U205       |            |            |            |
| P015       | P063       | P109       | U059       | U142       | U206       |            |            |            |
| P016       | P064       | P110       | U060       | U143       | U214       |            |            |            |
| P017       | P065       | P111       | U061       | U144       | U215       |            |            |            |
| P018       | P066       | P113       | U062       | U145       | U216       |            |            |            |
| P020       | P067       | P114       | U063       | U146       | U217       |            |            |            |

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CD2F 002

A. Facility Information

1. Respondent Name and Title:

Jeff Kaboly, Environmental Specialist

Company:

Keystone Cement Company

Phone number:

(215) 837-1881

2. Name and address of company that owns the cement kilns at this facility:

GIANT GROUP, LTD.

Harleyville, SC 29448

Facility name, location, and address:

X Keystone Cement Company - Route 329

P. O. Box A, Bath, PA 18014-0058

EPA ID of burner:

PAD 002389559

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):

Same

EPA ID of on-site processor:

Same

EPA ID of other on-site hazardous waste transporter:

marketer: --

storer: --

3. Number of kilns currently burning hazardous wastes at this facility:

2

0

Additional kilns expected to burn hazardous wastes by July 1994:

0

0

Kilns at this facility not expected to burn hazardous wastes by July 1994:

2

Total Number of kilns at this facility (should be total of above):

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

**Liquids**

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 --100% EPA regulated TSDF solvent recyclers/fuel blenders

Processor 4 \_\_\_\_\_

**Pumpable Sludges**

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

**Nonpumpable Sludges**

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

**Containerized Solids**

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

**Bulk Solids**

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

**Dry Solids**

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

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B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin
- Steel Drum, specify sizes: \_\_\_\_\_
- Poly Drum, specify sizes: \_\_\_\_\_
- Fiber Drum, specify sizes: \_\_\_\_\_
- Bag or other flexible container, specify sizes: \_\_\_\_\_
- Rigid Tote
- Tanker Trucks (transferred to tank)
- Tanker Trucks (direct feed to kiln)
- Rail car
- Carboy
- Pallet
- Other, specify: \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

- 6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers			
Liquid Tanks	90,000 gallons	180,000 gallons	1993
Other (specify)			

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

Storage only.

6c. What processing operations do you perform on-site for solid wastes?

None.

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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1306

Kiln Number: 1 of 2

This supplemental question set should be completed for each additional kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: F. L. Smidth Rotary Kiln - wet process

Clinker capacity (tons/hr): 15 tons/hr.

Thermal input (Btu/ton clinker): 5.2 million

Type of cement product(s) produced in this kiln: Type I

Total hours operating per year on average: 7,850 hr.

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end:   

Containerized solids charged to calcining zone:   

Sludge Pump:   

Other: (specify)   

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1307

Kiln Number: 1 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	1,275 tons (estimated)	20,000 tons/yr	R
Pumpable Sludges	N/A	N/A	N/A
Nonpumpable Sludges	N/A	N/A	N/A
Containerized Solids	N/A	N/A	N/A
Bulk Solids	N/A	N/A	N/A
Dry Solids	N/A	N/A	N/A
Total	1,275 tons	20,000 tons/yr	

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): less than 15 (%)  
Percent of solids originally generated as solids: 0 ? (%)

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1308

Kiln Number: 1 of 2

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	76.1	24	327	greater than 8,000	50%
Pumpable Sludges	N/A	N/A	N/A	N/A	N/A
Nonpumpable Sludges	N/A	N/A	N/A	N/A	N/A
Containerized Solids	N/A	N/A	N/A	N/A	N/A
Bulk Solids	N/A	N/A	N/A	N/A	N/A
Dry Solids	N/A	N/A	N/A	N/A	N/A

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 1 of 2

11. When (e.g., calendar month), and for how long is this kiln usually shut down for scheduled maintenance?

When? First Quarter

How long? 110 Days - inventory control

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

N/A

- b) Physical changes (include planned schedule):

- c) Regulatory modifications (include planned schedule):

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1310

Kiln Number: 2 of 2

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 2

Type of Kiln: Traylor Rotary Kiln - wet process

Clinker capacity (tons/hr): 60.4 tons/hr.

Thermal input (Btu/ton clinker): 5.2 million

Type of cement product(s) produced in this kiln: Type I

Total hours operating per year on average: 7,850 hr.

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: x

Dry solids injected at "hot" end:

Containerized solids charged to calcining zone:

Sludge Pump:

Other: (specify)

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Kiln Number: 2 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	24,238	60,000	R
Pumpable Sludges	N/A	N/A	N/A
Nonpumpable Sludges	N/A	N/A	N/A
Containerized Solids	N/A	N/A	N/A
Bulk Solids	N/A	N/A	N/A
Dry Solids	N/A	N/A	N/A
Total	24,238	60,000	

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): less than 15 (%)  
Percent of above solids originally generated as solids: ? (%)

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Kiln Number: 2 of 2

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	13,698	24	327	greater than 8,000	50%
Pumpable Sludges	N/A	N/A	N/A	N/A	N/A
Nonpumpable Sludges	N/A	N/A	N/A	N/A	N/A
Containerized Solids	N/A	N/A	N/A	N/A	N/A
Bulk Solids	N/A	N/A	N/A	N/A	N/A
Dry Solids	N/A	N/A	N/A	N/A	N/A

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 1 of 2

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? First Quarter

How long? 20 Days

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

N/A

- b) Physical changes (include planned schedule):

N/A

- c) Regulatory modifications (include planned schedule):

N/A

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1314

#### Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Received" Liquid Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	greater than 8,000 Btu/lb.	No Limit	P
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content		None	R
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify) PCBs		less than 40 ppm	P
Other (Specify)			
Total Halogen Content			
Chlorine Content	0%	3%	P
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Liquid Waste Limitations

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		None	R
Fungicides		None	R
Herbicides		None	R
Insecticides		None	R
Rodenticides		None	R
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content		.167 lb/mmBtu	P
Barium Content			
Beryllium Content			
Cadmium Content		.383 lb/mmBtu	P
Chromium Content V		.112 lb/mmBtu	P
Copper Content			
Lead Content		10.449 lb/mmBTU	P
Mercury Content		.473 lb/mmBtu	P
Nickel Content		3.341 lb/mmBtu	P
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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#### Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"?  
(Y/N) N

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	greater than 8,000 Btu/lb	No Limit	
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content		None	R
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify PCBs		40 ppm	P
Other: Specify			
Total Halogen Content			
Chlorine Content	0%	3%	R
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides	None		R
Fungicides	None		R
Herbicides	None		R
Insecticides	None		R
Rodenticides	None		R
Other: Specify			
Total Specified Metals Content	less than 1%		
Antimony Content			
Arsenic Content	.043 lb/mmBtu		P
Barium Content			
Beryllium Content			
Cadmium Content	.108 lb/mmBtu		P
Chromium Content	.032 lb/mmBtu		P
Copper Content			
Lead Content	1.838 lb/mmBtu		P
Mercury Content	.019 lb/mmBtu		P
Nickel Content	.240 lb/mmBtu		P
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate whether you accept or plan to accept any of the following types of hazardous waste contaminated debris at this facility, and any physical or chemical conditions (e.g., restrictions or limitations) in addition to those specified above which would be required for you to do so. Note any important acceptance conditions in the table and explain them on the page following the table. If one of the types of debris may be included in wastes you receive, but you are uncertain, please check off the "Don't Know" column.

Hazardous Waste Contaminated Debris Acceptance				
Type of Debris	Accept Now (Y/N)	Plan to Accept By June 94 (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (✓)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)	N	Y	greater than 8,000 Etu/lb less than 3% Cl less than metals max.	
Personal Protection Equipment (e.g., Tyvek suits)	N	Y	greater than 8,000 Etu/lb less than 3% Cl less than metals max.	
Paper or Cardboard Materials	N	Y	" " "	
Filter Cartridges	N	Y	" " "	
Wood Materials	N	Y	" " "	
Rubber Objects (e.g., tires, hoses)	N	Y	" " "	
* PVC Pipe	N	N		
Other Plastic Debris	N	Y	" " "	
Glass Debris	N	Y	less than 5 ppm TOC less than metals max.	
* Ceramic Debris (e.g., semiconductors)	N	N		
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)	N	N		
* Asbestos Materials (e.g., shingles, insulation)	N	N		
* Non-Soil Geologic Material (e.g., rocks)	N	N		
Concrete Debris	N	N		
* Refractory Brick	N	N		
* Other Bricks	N	N		
Slag	N	Y	less than 5 ppm TOC less than metals max.	
* Intact Batteries	N	N		
Battery Cases	N	N		
* Electronic Components (e.g., printed circuit boards)	N	N		
* Electrical Wires, Switches, etc.	N	N		

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20. Please explain any debris acceptance conditions noted on the previous page:

Must meet beneficial use standards established for raw materials  
and fuels.

20a. Do you accept soils? If so, under what conditions or limitations?

Not presently.

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**C. Permit Conditions**

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

F003 - F005

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

D001	K010	K019	K036	K086	U031	U057	U140	U194
D018	K011	K020	K045	K087	U037	U074	U153	U229
D035	K013	K022	K048	U001	U039	U078	U154	U239
F001	K014	K023	K049	U002	U044	U079	U159	
F002	K015	K025	K050	U004	U051	U112	U161	
F003	K016	K026	K051	U009	U052	U113	U169	
F004	K017	K028	K052	U012	U055	U115	U171	
F005	K018	K035	K083	U019	U056	U117	U188	

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
FP - Fully Permitted to receive RCRA hazardous wastes  
PM - Preparing Permit Modification for Additional Wastes  
SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
MA - Modifying Permit Application for Additional RCRA Wastes  
IS - Interim Status  
ND - Currently Responding to Notices of Deficiency in Application  
PH - Awaiting Public Hearing on Permit  
OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
Federal BIF	EPA Region III	IS	
RCRA Storage	EPA Region III	IS	
RCRA Treatment	EPA Region III	NA	
Clean Air Act	EPA Region III	NR	
Other (specify)			
State Hazardous Waste	PA DER	IS	
Air Emission	PA DER	MA/FP	
Land Use/Siting	PA DER	FP	
Other (specify)			
Local Hazardous Waste		NR	
Air Emission		NR	
Land Use/Siting		FP	
Other (specify)			

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

- Final approval of Part B Permit
- Air Quality Plan Approvals
- Awaiting PA DER decisions, expected this year.

26. When do you plan to submit a BIF Certification of Compliance (month and year)?

August 21, 1992

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes  
 No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

- a) When (month or quarter, and year):

Start date estimated 1993

- b) Effect on hazardous waste capacity:

Increasing the storage capacity from 90,000 gallons to 270,000 gallons.

- c) Modifications:

- Increase burning rate by 30%
- Storage capacity increasing by 180,000 gallons
- New laboratory equipment
  - X-ray machine
  - Atomic absorption

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**A. Facility Information**

**1. Respondent Name and Title:**

Robert F. Babik - Regulatory Compliance Coordinator

**Company:**

Systech Environmental Corporation

**Phone number:**

(513) 372-8077

**2. Name and address of company that owns the cement kilns at this facility:**

Lafarge Corporation

11130 Sunrise Valley Drive, Suite 300, Reston, VA 22091

**Facility name, location, and address:**

Lafarge Corporation, Alpena Facility

Ford Avenue, Alpena, Michigan 49701

**EPA ID of burner:**

**Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):**

Systech Environmental Corporation

**EPA ID of on-site processor:** MID 981200835

**EPA ID of other on-site hazardous waste transporter:** \_\_\_\_\_

**marketer:** \_\_\_\_\_

**storer:** \_\_\_\_\_

**3. Number of kilns currently burning hazardous wastes at this facility:**

2

3

**Additional kilns expected to burn hazardous wastes by July 1994:**

0

**Kilns at this facility not expected to burn hazardous wastes by July 1994:**

0

**Total Number of kilns at this facility (should be total of above):**

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

Liquids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Pumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Bulk Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

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B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin
- Steel Drum, specify sizes: \_\_\_\_\_
- Poly Drum, specify sizes: \_\_\_\_\_
- Fiber Drum, specify sizes: \_\_\_\_\_
- Bag or other flexible container, specify sizes: \_\_\_\_\_
- Rigid Tote
- Tanker Trucks (transferred to tank)
- Tanker Trucks (direct feed to kiln)
- Rail car
- Carboy
- Pallet
- Other, specify: \_\_\_\_\_

- 6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers	N/A		
Liquid Tanks	300,000 gallons		
Other (specify)			

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

Liquid wastes are transferred from bulk trucks, and railcars to storage tanks. The material is then blended and used as waste derived fuel.

6c. What processing operations do you perform on-site for solid wastes?

N/A

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the 'Limiting Factor' column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr <u>as received</u> )	Capacity Limiting Factor
Liquids	As of July 1 25870 tons	25870 tons	70090 tons/yr	R
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total				

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1329

Kiln Number: 1 of 5

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 19

Type of Kiln: Rotary Cement Kiln (Allis Chalmers)

Clinker capacity (tons/hr): 40 ton/hr

Thermal input (Btu/ton clinker): 5.3 million BTU/ton clinker

Type of cement product(s) produced in this kiln: Type 1  
Type 3

Total hours operating per year on average: 7896 hr/yr

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: N/A

Dry solids injected at "hot" end:       

Containerized solids charged to calcining zone:       

Sludge Pump:       

Other: (specify)       

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Kiln Number: 1 of 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	N/A	N/A	
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): N/A (%)  
Percent of solids originally generated as solids:        (%)

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Kiln Number: 1 of 5

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	N/A				
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: \_\_\_\_\_ of \_\_\_\_\_

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? \_\_\_\_\_

How long? \_\_\_\_\_

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

92-93

- b) Physical changes (include planned schedule):

Need to install burner, valve rack, piping.

- c) Regulatory modifications (include planned schedule):

BIF pre-compliance certification - August 21, 1991

BIF compliance certification

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CEMENT KILN REC COAL

F-529 T-1B1 P-212/231 AUS 25 '91 17

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Kiln Number: 2 of 5

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 20Type of Kiln: Rotary Cement Kiln (Allis Chalmers)Clinker capacity (tons/hr): 40 ton/hrThermal input (Btu/ton clinker): 5.3 million BTU/ton clinkerType of cement product(s) produced in this kiln: Type 1: Masonry  
Type 3Total hours operating per year on average: 7896 hr/yr

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: N/ADry solids injected at "hot" end:   Containerized solids charged to calcining zone:   Sludge Pump:   Other: (specify)   

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CEMENT KILN REC COAL

F-529 T-1B1 P-011/031 AUG 25 '91 12:20

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Kiln Number: 2 of 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	N/A	N/A	N/A
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): N/A (%)  
 Percent of solids originally generated as solids:        (%)

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Kiln Number: 2 of 5

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	N/A				
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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CEMENT KILN REC COAL

F-529 T-181 P-013/031 AUG 25 '91 12:22

Kiln Number: 2 of 5

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? \_\_\_\_\_

How long? \_\_\_\_\_

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):  
92-93

b) Physical changes (include planned schedule):

Need to install burner, valve, rack and piping.

c) Regulatory modifications (include planned schedule):

BIF pre-compliance certification - August 21, 1991  
BIF compliance certification

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CERENT KILN REC CDPL

F-528 T-181 P-210/231 AUG 05 '91 12

Kiln Number: 3 of 5

Questions 8, 9, 10, 11, and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 21

Type of Kiln: Rotary Cement Kiln (Allis Chalmers)

Clinker capacity (tons/hr):

40 ton/hr

Thermal input (Btu/ton clinker):

5.3 million BTU/ton clinker

Type of cement product(s) produced in this kiln:

Type 1 - Masonry  
Type 3

Total hours operating per year on average:

7896 hr/hr

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end:

N/A

Dry solids injected at "hot" end:

Containerized solids charged to calcining zone:

Sludge Pump:

Other: (specify):

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1338

Kiln Number: 3 of 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	N/A	N/A	N/A
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): N/A (%)  
Percent of solids originally generated as solids: N/A (%)

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Kiln Number: 3 of 5

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	N/A	N/A	N/A	N/A	N/A
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

30000524

1339

+2226253441

CEMENT KILN REC COAL

F-2226253441 F-0137831 Aug 25 '91 12:22

Kiln Number: 3 of 5

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11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? \_\_\_\_\_

How long? \_\_\_\_\_

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

92-93

- b) Physical changes (include planned schedule):

Need to install burner, valve rack and piping.

- c) Regulatory modifications (include planned schedule):

BIF pre-compliance certification

BIF compliance certification

RECEIVED  
LENTON KILN REC CORP

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Kila Number: 4 of 5

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 22

Type of Kiln: Rotary Cement Kiln (Fuller)

Clinker capacity (tons/hr): 70 tons/hr

Thermal input (Btu/ton clinker): 5.3 million BTU/ton clinker

Type of cement product(s) produced in this kiln: Type 1 Masonry  
Type 3

Total hours operating per year on average: 7896 hr/yr

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end:   

Containerized solids charged to calcining zone:   

Sludge Pump:   

Other: (specify)   

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LENTON KILN REC CO.

FEDERAL TRADE COMMISSION, JULY 22, 1991, 12:00

Kiln Number: 4 of 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	As of July 1, 1991 12935 tons	34000 T/yr	R
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 10 (%)  
 Percent of solids originally generated as solids:        (%)

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Kiln Number: 4 of 5

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	.7440 lb/yr	24 hr/day	329	11800	30%
Pumpable Sludges	N/A				
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

33000528

+2026253441

CEMENT KILN REC COAL

F-529 T-181 P-013/031 AUG 25 '91 12:22

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Kila Number: 4 of 5

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? November - January

How long? 3-4 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

N/A

- b) Physical changes (include planned schedule):

- c) Regulatory modifications (include planned schedule):

CD2F 002

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+2226253441

CEMENT KILN REC COAL

F-528 T-181 P-210/031 AUG 25 '91 12

Kiln Number: 5 of 5

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 23

Type of Kiln: Rotary Cement Kiln (Fuller)

Clinker capacity (tons/hr): 70 tons/hr.

Thermal input (BTU/ton clinker): 5.3 million BTU/ton clinker

Type of cement product(s) produced in this kiln: Type I. Masonry  
Type 3

Total hours operating per year on average: 7896 hr/yr

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end:   

Containerized solids charged to calcining zone:   

Sludge Pump:   

Other: (specify)   

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33000536

F-528 T-161 P-211/231 AUG 25 '91 12:20

CEMENT KILN REC COAL

F-528 T-161 P-211/231 AUG 25 '91 12:20

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1346

Kiln Number: 5 of 5

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	As of July 1, 1991 12935	34000 t/yr	P
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids?

Average total solid content in liquids (as burned): 10 (%)  
 Percent of solids originally generated as solids:        (%)

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1347

Kila Number: 5 of 5

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (day/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	7440 lb/y	24 hr/day	329 day/yr	11800	30%
Pumpable Sludges	N/A				
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

3300532

+282625341

CEMENT KILN REC'D.DOC

F-528 T-181 P-013/031 AUG 25 '91 12:22

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11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? November - January  
How long? 3 - 4 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

N/A

- b) Physical changes (include planned schedule):

- c) Regulatory modifications (include planned schedule):

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1349

Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	52,000 BTU/lb		R
Water Content		<1% Sep. Phase	R
Total Solids Content		30%	R
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)	PCB	N.D.	R
Other (Specify)	Ash	15%	R
Total Halogen Content			
Chlorine Content		10%	R
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1350

"As Received" Liquid Waste Limitations

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content		7500 ppm	
Beryllium Content			
Cadmium Content		500 ppm	
Chromium Content		5000 ppm	
Copper Content			
Lead Content		7500 ppm	
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1351

Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) \_\_\_\_\_

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kilns 19, 20, 21

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	10,000 BTU/lb		
Water Content		20%	Q
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		5%	O
Sodium Content			
Potassium Content			
Other: Specify PCB		Non-Detect	R
Other: Specify Ash		15%	O
Total Halogen Content			
Chlorine Content		3%	O
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1352

"As Burned" Liquid Waste Limitations

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify		Kilhs 19,20,21	
Total Specified Metals Content		Each Kiln *	
Antimony Content		2.7 lb/hr	
Arsenic Content		2.7 lb/hr	
Barium Content		27 lb/hr	
Beryllium Content		.54 lb/hr	
Cadmium Content		1.08 lb/hr	
Chromium Content		8.10 lb/hr	
Copper Content			
Lead Content		1.62 lb/hr	
Mercury Content		.54 lb/hr	
Nickel Content			
Selenium Content			
Silver Content		2.7 lb/hr	
Thallium Content		2.7 lb/hr	
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* These approximate limits are based upon feed rate and concentration.

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+226253441

CIMENT KILN REC COAL

F-52B 1-1-81 F-2-8/231 RIG 25 1-91 2-24

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1353

**Liquid Waste Acceptance Limits As Burned**

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) \_\_\_\_\_

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kilns 23, 23

<b>"As Burned" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	10,000 BTU/lb		Q
Water Content		20%	Q
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		5%	Q
Sodium Content			
Potassium Content			
Other: Specify	PCB	N.D.	R
Other: Specify	Ash	15%	Q
Total Halogen Content			
Chlorine Content		3%	Q
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Burned" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify		Kilns 23, 23	
Total Specified Metals Content		Each Kiln *	
Antimony Content		8 lb/hr	
Arsenic Content		8 lb/hr	
Barium Content		80 lb/vr	
Beryllium Content		1.6 lb/hr	
Cadmium Content		3.2 lb/hr	
Chromium Content		24 lb/hr	
Copper Content			
Lead Content		48 lb/hr	
Mercury Content		1.6 lb/hr	
Nickel Content			
Selenium Content			
Silver Content		8 lb/hr	
Thallium Content		8 lb/hr	
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* These approximate limits are based upon feed rate and concentration.

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20. Please explain any debris acceptance conditions noted on the previous page:

N/A

20a. Do you accept soils? If so, under what conditions or limitations?

N/A

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X

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CEMENT KILN REC COAL

F-534 J-214 F-218-A15 AUG-25 '91 20:25

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C. Permit Conditions

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

See Attachment 1

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

See Attachment 2

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

Submit a request for a change under interim status requesting the additional waste codes.

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CEMENT KILN-REC COAL

F-534 T-214 P-011 C-0 AUG 25 1981 22:51

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
 FP - Fully Permitted to receive RCRA hazardous wastes  
 PM - Preparing Permit Modification for Additional Wastes  
 SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
 MA - Modifying Permit Application for Additional RCRA Wastes  
 IS - Interim Status  
 ND - Currently Responding to Notices of Deficiency in Application  
 PH - Awaiting Public Hearing on Permit  
 OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
<u>Federal BIF</u>	U.S. EPA, Region V (312) 353-4789		
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
<u>State Hazardous Waste</u>	Michigan Dept. of Natural Resources (MDNR) (517) 732-3541		
Air Emission	MDNR		
Land Use/Siting			
Other (specify)			
<u>Local Hazardous Waste</u>			
Air Emission			
Land Use/Siting			
Other (specify)			

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CERTAIN KILN REV L100  
P-224 P-214 P-215 P-216 P-217 P-218 P-219  
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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

Add burners, valve racks piping pumps

For kilns 19, 20, 21, it is necessary to install burners, valve racks, piping and pumps.

26. When do you plan to submit a BIF Certification of Compliance (month and year)?

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes  
 No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

a) When (month or quarter, and year):

---

b) Effect on hazardous waste capacity:

Will increase capacity and add sludge handling procedures.

c) Modifications:

Add container storage.  
Increase tank storage  
Sludge handling system

03000544

Systech Environmental Corporation

Attachment 1

Acceptable Waste Codes

As of 08/29/91

Characteristic Hazardous Waste

	OH	AL	KS	
D001	X	X	X	X
D004	-	X	-	X
D005	X	X	X	X
D006	X	X	X	X
D007	X	X	X	X
D008	X	X	X	X
D009	X	X	X	X
D010	-	X	-	-
D011	-	X	-	-
D018	X	X	X	X
D019	X	X	X	X
D021	X	X	X	X
D022	X	X	X	X
D023	X	X	X	X
D024	X	X	X	X
D025	X	X	X	X
D026	X	X	X	X
D027	X	X	X	X
D028	X	X	X	X
D029	X	X	X	X
D030	X	X	X	X
D032	X	X	X	X
D033	X	X	X	X
D034	X	X	X	X
D035	X	X	X	X
D036	X	X	X	X
D037	X	X	X	X
D038	X	X	X	X
D039	X	X	X	X
D040	X	X	X	X
D041	X	X	X	X
D042	X	X	X	X

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Systech Environmental Corporation

Acceptable Waste Codes

As of 08/29/91

Hazardous Waste from Nonspecific Sources

	OH	AL	KS	NY
F001	X	X	X	X
F002	X	X	X	X
F003	X	X	X	X
F004	X	X	X	X
F005	X	X	X	X

Hazardous Waste from Specific Sources

	OH	AL	KS	NY
K015	—	—	X	—
K022	X	X	X	X
K023	—	—	X	—
K024	—	—	X	—
K027	—	—	X	—
K046	—	—	X	—
K048	X	X	X	X
K049	X	X	X	X
K050	—	—	X	—
K051	—	—	X	—
K052	X	X	X	X
K083	—	X	X	—
K085	—	X	X	X
K086	X	X	X	X
K087	—	X	X	—
K093	—	—	X	—
K094	—	—	X	—
K095	—	X	X	X
K096	—	X	X	X

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Systech Environmental Corporation

Acceptable Waste Codes

As of 08/29/91

Discarded Commercial Chemical Products

	OH	AL	KS	IL
U001	X	X	X	X
U002	X	X	X	X
U003	X	X	X	X
U019	X	X	X	X
U031	X	X	X	X
U037	-	X	X	X
U051	X	X	X	X
U052	X	X	X	X
U055	X	X	X	X
U056	X	X	X	X
U057	X	X	X	X
U069	X	X	X	X
U080	-	X	X	X
U102	-	X	-	-
U112	X	X	X	X
U113	X	X	X	X
U117	X	X	X	X
U118	X	X	X	X
U121	-	X	X	-
U124	X	X	X	X
U125	X	X	X	X
U140	X	X	X	X
U154	X	X	X	X
U159	X	X	X	X
U161	X	X	X	X
U162	X	X	X	X
U165	X	X	X	X
U188	X	X	X	X
U210	-	X	X	X
U213	X	X	X	X
U220	X	X	X	X
U226	-	X	X	X
U228	-	X	X	X
U239	X	X	X	X

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Attachment 2

Attachment - EPA Form 8700-23 (01-90)

Page 1 of 3

EPA I.D. Number (enter from page 1)											
M	I	D	0	0	5	3	7	9	6	0	7
XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE		C. UNIT OF MEASURE (enter code)		D. PROCESSES				
							1. PROCESS CODES (enter)				
1	D	0	0	1	11,092	T	T	0	4		
2	D	0	0	4	269	T	T	0	4		
3	D	0	0	5	269	T	T	0	4		
4	D	0	0	6	328	T	T	0	4		
5	D	0	0	7	63	T	T	0	4		
6	D	0	0	8	1,544	T	T	0	4		
7	D	0	0	9	265	T	T	0	4		
8	D	0	1	0	100	T	T	0	4		
9	D	0	1	1	100	T	T	0	4		
10	D	0	1	8	100	T	T	0	4		
11	D	0	1	9	100	T	T	0	4		
12	D	0	2	1	100	T	T	0	4		
13	D	0	2	2	100	T	T	0	4		
14	D	0	2	3	100	T	T	0	4		
15	D	0	2	4	100	T	T	0	4		
16	D	0	2	5	100	T	T	0	4		
17	D	0	2	6	100	T	T	0	4		
18	D	0	2	7	100	T	T	0	4		
19	D	0	2	8	100	T	T	0	4		
20	D	0	2	9	100	T	T	0	4		
21	D	0	3	0	100	T	T	0	4		
22	D	0	3	2	100	T	T	0	4		
23	D	0	3	3	100	T	T	0	4		
24	D	0	3	4	100	T	T	0	4		
25	D	0	3	5	100	T	T	0	4		
26	D	0	3	6	100	T	T	0	4		
27	D	0	3	7	100	T	T	0	4		
28	D	0	3	8	100	T	T	0	4		
29	D	0	3	9	100	T	T	0	4		
30	D	0	4	0	100	T	T	0	4		
31	D	0	4	1	100	T	T	0	4		
32	D	0	4	2	100	T	T	0	4		
33	F	0	0	1	5,360	T	T	0	4		

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EPA I.D. Number (enter from page 1)											
M	I	D	0	0	5	3	7	9	6	0	7
<b>XIV. Description of Hazardous Wastes (continued)</b>											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				1. PROCESS CODES (enter)							
3 4	F 0 0 2	4,258	T	T 0 4							
3 5	F 0 0 3	16,235	T	T 0 4							
3 6	F 0 0 4	1,608	T	T 0 4							
3 7	F 0 0 5	10,246	T	T 0 4							
3 8	F 0 3 7	2,000	T	T 0 4							
3 9	F 0 3 8	2,000	T	T 0 4							
4 0	F 0 3 9	2,000	T	T 0 4							
4 1	K 0 2 2	269	T	T 0 4							
4 2	K 0 2 4	100	T	T 0 4							
4 3	K 0 4 8	2,000	T	T 0 4							
4 4	K 0 4 9	2,000	T	T 0 4							
4 5	K 0 5 0	2,000	T	T 0 4							
4 6	K 0 5 1	2,000	T	T 0 4							
4 7	K 0 5 2	2,000	T	T 0 4							
4 8	K 0 8 5	269	T	T 0 4							
4 9	K 0 8 6	269	T	T 0 4							
5 0	K 0 9 4	100	T	T 0 4							
5 1	K 0 9 5	269	T	T 0 4							
5 2	K 0 9 6	269	T	T 0 4							
5 3	U 0 0 1	269	T	T 0 4							
5 4	U 0 0 2	269	T	T 0 4							
5 5	U 0 0 3	269	T	T 0 4							
5 6	U 0 1 9	269	T	T 0 4							
5 7	U 0 3 1	269	T	T 0 4							
5 8	U 0 3 7	269	T	T 0 4							
5 9	U 0 5 1	269	T	T 0 4							
6 0	U 0 5 2	269	T	T 0 4							
6 1	U 0 5 5	269	T	T 0 4							
6 2	U 0 5 6	269	T	T 0 4							
6 3	U 0 5 7	269	T	T 0 4							
6 4	U 0 6 9	269	T	T 0 4							
6 5	U 0 8 0	269	T	T 0 4							
6 6	U 1 1 2	269	T	T 0 4							

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EPA I.D. Number (enter from page 1)											
M	I	D	0	0	5	3	7	9	6	0	7
XIV. Description of Hazardous Wastes. (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				1. PROCESS CODES (enter)							
6 7	U 1 1 3	269	T	T 0 4							
6 8	U 1 1 7	269	T	T 0 4							
6 9	U 1 1 8	269	T	T 0 4							
7 0	U 1 2 4	269	T	T 0 4							
7 1	U 1 2 5	269	T	T 0 4							
7 2	U 1 4 0	269	T	T 0 4							
7 3	U 1 5 4	269	T	T 0 4							
7 4	U 1 5 9	269	T	T 0 4							
7 5	U 1 6 1	269	T	T 0 4							
7 6	U 1 6 2	269	T	T 0 4							
7 7	U 1 6 5	269	T	T 0 4							
7 8	U 1 8 8	269	T	T 0 4							
7 9	U 2 1 0	269	T	T 0 4							
8 0	U 2 1 3	269	T	T 0 4							
8 1	U 2 2 0	269	T	T 0 4							
8 2	U 2 2 1	269	T	T 0 4							
8 3	U 2 2 6	269	T	T 0 4							
8 4	U 2 2 8	269	T	T 0 4							
8 5	U 2 3 9	269	T	T 0 4							

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A. Facility Information

1. Respondent Name and Title:

Robert Babik/Regulatory Compliance Coordinator

Company:

Systech Environmental Corporation

Phone number:

(513) 372-8077

2. Name and address of company that owns the cement kilns at this facility:

Lafarge Corporation

11130 Sunrise Valley Drive, Suite 300, Reston, VA 22091

Facility name, location, and address:

Lafarge Corporation, Demopolis Facility

Arcola Road, Demopolis, Alabama 36732

EPA ID of burner:

Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):

Systech Environmental Corporation

EPA ID of on-site processor:

ALD981019045

EPA ID of other on-site hazardous waste transporter:

marketer:

storer:

3. Number of kilns currently burning hazardous wastes at this facility:

1

0

Additional kilns expected to burn hazardous wastes by July 1994:

0

Kilns at this facility not expected to burn hazardous wastes by July 1994:

1

Total Number of kilns at this facility (should be total of above):

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CEMENT KILN REC COAL

F-529 T-181 P-006/231 AUG 25 '91 12:18

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

Liquids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Pumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Bulk Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

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CEMENT KILN REC COAL

F-529 T-181 P-227/231 AUG 25 '91 12:18

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**B. Potential Capacity and Waste Acceptance Limitations**

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

Roll-Off Bin  
 Steel Drum, specify sizes: 35, 55, 85 gallons, 330 gallons  
 Poly Drum, specify sizes: 35, 55, 85 gallons  
 Fiber Drum, specify sizes:  
 Bag or other flexible container, specify sizes:  
 Rigid Tote  
 Tanker Trucks (transferred to tank)  
 Tanker Trucks (direct feed to kiln)  
 Rail car  
 Carboy  
 Pallet  
 Other, specify: \_\_\_\_\_

- 6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers	96,000 gallons		
Liquid Tanks	260,000 gallons	150,000	Jan 1, 1992
Other (specify)			

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

Liquid waste and solid waste are blended and transferred from containers, bulk trucks, and railcars to storage tanks. The material is then blended further, and used as waste derived fuels.

6c. What processing operations do you perform on-site for solid wastes?

N/A

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	As of July 13 17144 tons		32,000 tons/yr	R
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total				

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REF ID: A61281

F-210/231 AUG 05 '91 12

Kiln Number: 1 of 1

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: 1

Type of Kiln: Allis-Chalmers

Clinker capacity (tons/hr): 800,000 ton/yr

Thermal input (Btu/ton clinker): 3.1 million/ton

Type of cement product(s) produced in this kiln:

Type 1  
Type 2

Total hours operating per year on average: 7608

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end:   
Dry solids injected at "hot" end:   
Containerized solids charged to calcining zone:   
Sludge Pump:   
Other: (specify) \_\_\_\_\_

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Kiln Number: \_\_\_\_\_ of \_\_\_\_\_

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9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	As of July 13, 1991 17144 tons/hr	32,000 ton/yr	R
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 8 (%)  
 Percent of solids originally generated as solids:        (%)

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Kiln Number: 1 of 1

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	4 ton/yr	24	318 days/hr	12400 BTU/lb	30%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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RECD 8/21/91  
LEPEN KILN REC COAL  
FEDERAL ENERGY REGULATORY COMMISSION  
Kiln Number: 1 of 1

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11. When (e.g., calendar month), and for how long is this kiln usually shut down for scheduled maintenance?

When? Early Spring and Fall  
How long? 3 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):  
N/A

b) Physical changes (include planned schedule):  
N/A

c) Regulatory modifications (include planned schedule):  
N/A

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Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	6000 BTU/lb		R
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)	PCB	Non-Detect	R
Other (Specify)			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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## Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"?  
(Y/N) \_\_\_\_\_

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	10,000 BTU/lb		Q
Water Content		15%	Q
Total Solids Content		30%	Q
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		1%	Q
Sodium Content		< 200 ppm	Q
Potassium Content		< 200 ppm	Q
Other: Specify Nitrogen		< 3%	Q
Other: Specify PCB		Non-detect	R
Total Halogen Content		5	R
Chlorine Content		3.5	Q
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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**"As Burned" Liquid Waste Limitations**

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content		*	
Antimony Content		4580 g/hr	
Arsenic Content		366 g/hr	
Barium Content		45800 g/hr	
Beryllium Content		91.6 g/hr	
Cadmium Content		91.6 g/hr	
Chromium Content		6870 g/hr	
Copper Content			
Lead Content		22900 g/hr	
Mercury Content		687 g/hr	
Nickel Content			
Selenium Content			
Silver Content		4580 g/hr	
Thallium Content		4580 g/hr	
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\*These approximate limits are based upon feed rate and concentration.

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LENTON KILN REC COAL

F-534 T-214 F-222/013 AUG785 S1 20:55

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20. Please explain any debris acceptance conditions noted on the previous page:

N/A

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- 20a. Do you accept soils? If so, under what conditions or limitations?

N/A

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CEMENT KILN REC COAL

F-534 T-214 P-212/213 AUG 25 '91 22:55

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C. Permit Conditions

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.

See Attachment 1

22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).

See Attachment 2

23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

A request to modify or revise the existing permit would need to be submitted requesting additional waste codes.

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
FP - Fully Permitted to receive RCRA hazardous wastes  
PM - Preparing Permit Modification for Additional Wastes  
SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
MA - Modifying Permit Application for Additional RCRA Wastes  
IS - Interim Status  
ND - Currently Responding to Notices of Deficiency in Application  
PH - Awaiting Public Hearing on Permit  
OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
Federal BIF	U.S. EPA, Region IV (404) 347-3433.		
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
State Hazardous Waste	Alabama Dept. of Env. Mgmt. (ADEM)		
Air Emission	ADEM		
Land Use/Siting			
Other (specify)			
Local Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

N/A

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26. When do you plan to submit a BIF Certification of Compliance (month and year)?

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes  
 No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

- a) When (month or quarter, and year):

January - March 1992

- b) Effect on hazardous waste capacity:

Will increase both capacity and blending capabilities.

- c) Modifications:

Add 150,000 burn tank.

00000568

Systech Environmental Corporation

Acceptable Waste Codes

As of 08/29/91

Characteristic Hazardous Waste

	OH	[REDACTED]	KS	MI
D001	X	X	X	X
D004	-	X	-	X
D005	X	X	X	X
D006	X	X	X	X
D007	X	X	X	X
D008	X	X	X	X
D009	X	X	X	X
D010	-	X	-	-
D011	-	X	-	-
D018	X	X	X	X
D019	X	X	X	X
D021	X	X	X	X
D022	X	X	X	X
D023	X	X	X	X
D024	X	X	X	X
D025	X	X	X	X
D026	X	X	X	X
D027	X	X	X	X
D028	X	X	X	X
D029	X	X	X	X
D030	X	X	X	X
D032	X	X	X	X
D033	X	X	X	X
D034	X	X	X	X
D035	X	X	X	X
D036	X	X	X	X
D037	X	X	X	X
D038	X	X	X	X
D039	X	X	X	X
D040	X	X	X	X
D041	X	X	X	X
D042	X	X	X	X

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Acceptable Waste Codes

As of 08/29/91

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Hazardous Waste from Nonspecific Sources

	OH	██████████	KS	MI
F001	X	X	X	X
F002	X	X	X	X
F003	X	X	X	X
F004	X	X	X	X
F005	X	X	X	X

Hazardous Waste from Specific Sources

	OH	██████████	KS	MI
K015	—	—	X	—
K022	X	X	X	X
K023	—	—	X	—
K024	—	—	X	—
K027	—	—	X	—
K046	—	—	X	—
K048	X	X	X	X
K049	X	X	X	X
K050	—	—	X	—
K051	—	—	X	—
K052	X	X	X	X
K083	—	X	X	—
K085	—	X	X	X
K086	X	X	X	X
K087	—	X	X	—
K093	—	—	X	—
K094	—	—	X	—
K095	—	X	X	X
K096	—	X	X	X

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Systech Environmental Corporation

Acceptable Waste Codes

As of 08/29/91

Discarded Commercial Chemical Products

	OH		KS	MI
U001	X	X	X	X
U002	X	X	X	X
U003	X	X	X	X
U019	X	X	X	X
U031	X	X	X	X
U037	-	X	X	X
U051	X	X	X	X
U052	X	X	X	X
U055	X	X	X	X
U056	X	X	X	X
U057	X	X	X	X
U069	X	X	X	X
U090	-	X	X	X
U102	-	X	-	-
U112	X	X	X	X
U113	X	X	X	X
U117	X	X	X	X
U118	X	X	X	X
U121	-	X	X	-
U124	X	X	X	X
U125	X	X	X	X
U140	X	X	X	X
U154	X	X	X	X
U159	X	X	X	X
U161	X	X	X	X
U162	X	X	X	X
U165	X	X	X	X
U188	X	X	X	X
U210	-	X	X	X
U213	X	X	X	X
U220	X	X	X	X
U226	-	X	X	X
U228	-	X	X	X
U239	X	X	X	X

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EPA I.D. Number (enter from page 1)											
A	L	D	0	6	7	1	1	9	9	6	6
XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				1. PROCESS CODES (enter)							
1	D 0 0 1	40,000	T	T 0 4							
2	D 0 0 4	80	T	T 0 4							
3	D 0 0 5	80	T	T 0 4							
4	D 0 0 6	80	T	T 0 4							
5	D 0 0 7	80	T	T 0 4							
6	D 0 0 8	80	T	T 0 4							
7	D 0 0 9	80	T	T 0 4							
8	D 0 1 0	80	T	T 0 4							
9	D 0 1 1	80	T	T 0 4							
10	D 0 1 8	80	T	T 0 4							
11	D 0 1 9	80	T	T 0 4							
12	D 0 2 1	80	T	T 0 4							
13	D 0 2 2	80	T	T 0 4							
14	D 0 2 3	80	T	T 0 4							
15	D 0 2 4	80	T	T 0 4							
16	D 0 2 5	80	T	T 0 4							
17	D 0 2 6	80	T	T 0 4							
18	D 0 2 7	80	T	T 0 4							
19	D 0 2 8	80	T	T 0 4							
20	D 0 2 9	80	T	T 0 4							
21	D 0 3 0	80	T	T 0 4							
22	D 0 3 2	80	T	T 0 4							
23	D 0 3 3	80	T	T 0 4							
24	D 0 3 4	80	T	T 0 4							
25	D 0 3 5	80	T	T 0 4							
26	D 0 3 6	80	T	T 0 4							
27	D 0 3 7	80	T	T 0 4							
28	D 0 3 8	80	T	T 0 4							
29	D 0 3 9	80	T	T 0 4							
30	D 0 4 0	80	T	T 0 4							
31	D 0 4 1	80	T	T 0 4							
32	D 0 4 2	80	T	T 0 4							
33	F 0 0 1	80	T	T 0 4							

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CODES

XIV. Description of Hazardous Wastes (continued)						
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		
				1. PROCESS CODES (enter)		
3 4	F 0 0 2	80	T	T 0 4		
3 5	F 0 0 3	40,000	T	T 0 4		
3 6	F 0 0 4	80	T	T 0 4		
3 7	F 0 0 5	40,000	T	T 0 4		
3 8	K 0 0 1	2,000	T	T 0 4		
3 9	K 0 0 9	80	T	T 0 4		
4 0	K 0 1 1	80	T	T 0 4		
4 1	K 0 1 3	80	T	T 0 4		
4 2	K 0 1 4	80	T	T 0 4		
4 3	K 0 1 9	80	T	T 0 4		
4 4	K 0 2 2	2,000	T	T 0 4		
4 5	K 0 2 3	80	T	T 0 4		
4 6	K 0 2 4	80	T	T 0 4		
4 7	K 0 2 7	80	T	T 0 4		
4 8	K 0 2 8	80	T	T 0 4		
4 9	K 0 2 9	80	T	T 0 4		
5 0	K 0 3 0	80	T	T 0 4		
5 1	K 0 4 8	2,000	T	T 0 4		
5 2	K 0 4 9	2,000	T	T 0 4		
5 3	K 0 5 0	2,000	T	T 0 4		
5 4	K 0 5 1	2,000	T	T 0 4		
5 5	K 0 5 2	2,000	T	T 0 4		
5 6	K 0 8 3	80	T	T 0 4		
5 7	K 0 8 5	80	T	T 0 4		
5 8	K 0 8 6	36,000	T	T 0 4		
5 9	K 0 8 7	2,000	T	T 0 4		
6 0	K 0 9 3	80	T	T 0 4		
6 1	K 0 9 4	80	T	T 0 4		
6 2	K 0 9 5	80	T	T 0 4		
6 3	K 0 9 6	80	T	T 0 4		
6 4	U 0 0 1	80	T	T 0 4		
6 5	U 0 0 2	80	T	T 0 4		
6 6	U 0 0 3	80	T	T 0 4		

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XIV. Description of Hazardous Wastes (continued)						
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		
				1. PROCESS CODES (enter)		
6 7	U 0 0 4	80	T	T 0 4		
6 8	U 0 1 7	80	T	T 0 4		
6 9	U 0 1 9	80	T	T 0 4		
7 0	U 0 3 1	80	T	T 0 4		
7 1	U 0 3 4	80	T	T 0 4		
7 2	U 0 3 7	80	T	T 0 4		
7 3	U 0 3 9	80	T	T 0 4		
7 4	U 0 4 4	80	T	T 0 4		
7 5	U 0 4 5	80	T	T 0 4		
7 6	U 0 4 6	80	T	T 0 4		
7 7	U 0 4 8	80	T	T 0 4		
7 8	U 0 5 1	80	T	T 0 4		
7 9	U 0 5 2	80	T	T 0 4		
8 0	U 0 5 3	80	T	T 0 4		
8 1	U 0 5 5	80	T	T 0 4		
8 2	U 0 5 6	80	T	T 0 4		
8 3	U 0 5 7	80	T	T 0 4		
8 4	U 0 6 9	80	T	T 0 4		
8 5	U 0 7 0	80	T	T 0 4		
8 6	U 0 7 1	80	T	T 0 4		
8 7	U 0 7 2	80	T	T 0 4		
8 8	U 0 7 4	80	T	T 0 4		
8 9	U 0 7 5	80	T	T 0 4		
9 0	U 0 7 6	80	T	T 0 4		
9 1	U 0 7 7	80	T	T 0 4		
9 2	U 0 8 0	80	T	T 0 4		
9 3	U 0 8 1	80	T	T 0 4		
9 4	U 0 8 2	80	T	T 0 4		
9 5	U 0 8 3	80	T	T 0 4		
9 6	U 0 8 9	80	T	T 0 4		
9 7	U 1 0 1	80	T	T 0 4		
9 8	U 1 0 2	80	T	T 0 4		
9 9	U 1 1 2	80	T	T 0 4		

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Attachment - EPA Form 8700-23 (01-90)

Page 4 of 5

XIV. Description of Hazardous Wastes (continued)						
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES		
				1. PROCESS CODES (enter)		
10 0	U 1 1 3	80	T	T 0 4		
10 1	U 1 1 7	80	T	T 0 4		
10 2	U 1 1 8	80	T	T 0 4		
10 3	U 1 2 1	80	T	T 0 4		
10 4	U 1 2 2	80	T	T 0 4		
10 5	U 1 2 4	80	T	T 0 4		
10 6	U 1 2 5	80	T	T 0 4		
10 7	U 1 3 0	80	T	T 0 4		
10 8	U 1 3 2	80	T	T 0 4		
10 9	U 1 4 0	80	T	T 0 4		
11 0	U 1 5 4	80	T	T 0 4		
11 1	U 1 5 9	80	T	T 0 4		
11 2	U 1 6 1	80	T	T 0 4		
11 3	U 1 6 2	80	T	T 0 4		
11 4	U 1 6 5	80	T	T 0 4		
11 5	U 1 7 0	80	T	T 0 4		
11 6	U 1 8 3	80	T	T 0 4		
11 7	U 1 8 4	80	T	T 0 4		
11 8	U 1 8 6	80	T	T 0 4		
11 9	U 1 8 7	80	T	T 0 4		
12 0	U 1 8 8	80	T	T 0 4		
12 1	U 1 9 0	80	T	T 0 4		
12 2	U 1 9 1	80	T	T 0 4		
12 3	U 1 9 6	80	T	T 0 4		
12 4	U 1 9 7	80	T	T 0 4		
12 5	U 2 0 8	80	T	T 0 4		
12 6	U 2 0 9	80	T	T 0 4		
12 7	U 2 1 0	80	T	T 0 4		
12 8	U 2 1 1	80	T	T 0 4		
12 9	U 2 1 3	80	T	T 0 4		
13 0	U 2 2 0	80	T	T 0 4		
13 1	U 2 2 1	80	T	T 0 4		
13 2	U 2 2 6	80	T	T 0 4		

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<b>EPA I.D. Number (enter from page 1)</b>											
A	L	D	0	6	7	1	1	9	9	6	6
<b>XIV. Description of Hazardous Wastes (continued)</b>											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				1. PROCESS CODES (enter)							
13 3	U 2 2 7	80	T	T 0 4							
13 4	U 2 2 8	80	T	T 0 4							
13 5	U 2 3 9	80	T	T 0 4							

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**A. Facility Information**

**1. Respondent Name and Title:**

Robert Babik Regulatory Compliance Coordinator

**Company:**

Systech Environmental Corporation

**Phone number:**

(513) 372-8077

**2. Name and address of company that owns the cement kilns at this facility:**

Lafarge Corporation

11130 Sunrise Valley Dr., Suite 300, Reston, VA 22091

**Facility name, location, and address:**

Lafarge Corporation, Fredonia Facility

South Cement Road, Fredonia, KS 66736

**EPA ID of burner:**

**Name of the company who manages the hazardous waste fuel program at this facility  
(if not the cement company):**

Systech Environmental Corporation

**EPA ID of on-site processor:** KSD980633259

**EPA ID of other on-site hazardous waste transporter:**

marketer:

storer:

**3. Number of kilns currently burning hazardous wastes at this facility:**

2

0

0

Additional kilns expected to burn hazardous wastes by July 1994:

Kilns at this facility not expected to burn hazardous wastes by July 1994:

Total Number of kilns at this facility (should be total of above):

2

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4. For each hazardous waste type, please provide the percent of waste that you receive from off-site intermediate processors and the name, location, and phone number of the 4 off-site processors who provide the largest amount of wastes, by weight, of each waste type you receive.

Liquids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Pumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Nonpumpable Sludges

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Containerized Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Bulk Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

Dry Solids

Percent received from off-site processors (excluding generators): \_\_\_\_\_

Processor 1 \_\_\_\_\_

Processor 2 \_\_\_\_\_

Processor 3 \_\_\_\_\_

Processor 4 \_\_\_\_\_

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B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply:

- Roll-Off Bin  
 Steel Drum, specify sizes: 35, 55, 85 gallon      330 gallon  
 Poly Drum, specify sizes: 35, 55, 85 gallon  
 Fiber Drum, specify sizes:  
 Bag or other flexible container, specify sizes:  
 Rigid Tote  
 Tanker Trucks (transferred to tank)  
 Tanker Trucks (direct feed to kiln)  
 Rail car  
 Carboy  
 Pallet  
 Other, specify: \_\_\_\_\_  
\_\_\_\_\_

- 6a. Please indicate your current and planned on-site storage capacity for hazardous wastes. Indicate any requested specifications below the table.

Maximum RCRA Hazardous Waste Storage Capacity			
Storage Type	Current Capacity (Specify Units)	Planned Capacity Additions (Specify Units)	Expected Date for Planned Additions
Containers	26,000 gallon	303650	1992-1993
Liquid Tanks	440,000 gallon	843000	1992-1993
Other (specify)			

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6b. What processing operations do you perform on-site for liquid wastes?<sup>1</sup>

Liquid waste are transferred from containers, bulk trucks, and railcars to storage tanks. The material is then blended and used as waste derived fuel.

6c. What processing operations do you perform on-site for solid wastes?

Two types of solids are processed, both pumpable sludges and dry solids. The sludges are pumped and injected into the kiln. The dry solid material is pneumatically fed into the kiln.

<sup>1</sup> For purposes of this form, "processing" includes all blending, repackaging, or other physical processing required to prepare the waste to be fed to the kiln.

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7. Please complete the following table indicating this facility's capacity to receive and process wastes on-site prior to burning. Maximum practical processing capacity estimates should be based on the most limiting technical or permitting constraint on receiving, storage, and processing operations that occur in sequence. Please estimate maximum practical processing in terms of waste quantities as received. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If regulatory limits contain overall facility capacity below the sum of individual kiln capacity limits, please distribute the facility capacity limit such that individual kiln limits do not exceed total facility limits.

On-site Hazardous Waste Receiving and Processing Capacity				
Waste Type	Tons Received During First 6 Months of 1991	Tons Processed During First 6 Months of 1991	Current Maximum Practical Processing Capacity (tons/yr as received)	Capacity Limiting Factor
Liquids	as of July 15, 1991 36000 tons	36000 tons	(84,000 ton/yr	T
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids	15200 tons		35,000 ton/yr	T
Total				

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LENTON KILN REC COAL

REC T-161 P-210/231 AUG 85

Kiln Number: 1 of 2

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: Kiln 1

Type of Kiln: Rotary Cement Kiln (Vulcan)

Clinker capacity (tons/hr): 19 tons/hr

Thermal input (BTU/ton clinker): 6.2 million BTU/ton

Type of cement product(s) produced in this kiln: Type 1, Masonry  
Type 3  
Type 5

Total hours operating per year on average: 7796 lb/yr

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: X

Dry solids injected at "hot" end: X

Containerized solids charged to calcining zone:   

Sludge Pump:   

Other: (specify) Pyrolyzer

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Kiln Number: 1 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	14182	28760	
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 15 (%)  
Percent of solids originally generated as solids:        (%)

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Kiln Number: 1 of 2

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	22 gal/min 5.2 l/hr 42 ton	24	892	11,200	100%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids					

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: \_\_\_\_\_ of \_\_\_\_\_

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Winter (Feb)

How long? 2 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

a) When (year and month or quarter):  
N/A

b) Physical changes (include planned schedule):  
N/A

c) Regulatory modifications (include planned schedule):  
N/A

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Kiln Number: 2 of 2

Questions 8, 9, 10, 11 and 12 should be completed for each kiln currently burning hazardous waste or that you expect to burn hazardous waste by July, 1994. A supplemental question set is included for additional kilns. (Question 11 focuses on kilns that are not burning as of August 21, 1991).

8. Kiln Number: Kiln 2

Type of Kiln: Rotary Cement Kiln (F.L. Schmidt)

Clinker capacity (tons/hr): 29 ton/hr

Thermal input (Btu/ton clinker): 5.9 million BTU/ton clinker

Type of cement product(s) produced in this kiln: Type 1 Masonry

Type 3

Total hours operating per year on average: 90%

Type(s) of hazardous waste feed system(s) currently used with this kiln:

Pumpable liquids injected at "hot" end: x

Dry solids injected at "hot" end: x

Containerized solids charged to calcining zone:   

Sludge Pump: x

Other: (specify)   

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CEMENT KILN REC COAL

F-529 T-161 P-811/231 AUG 25 '91 12:28

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1402

Kiln Number: 2 of 2

9. Please indicate the amount of hazardous wastes you actually burned in this kiln during 1991 to date (as of August 21, 1991), and the maximum practical amount you could burn in one year, taking into account operational down time, residual management capacity limits, Interim Status precompliance limits, and permit limits. In the "Capacity Limiting Factor" column, indicate whether it is a permit limit (P), another type of regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If permits limit overall facility capacity and not individual kiln capacity, please make sure that the sum of individual kiln capacities does not exceed overall facility limits. Explain any exceptions on a separate page as necessary. (Total capacity may not equal the sum of the waste specific capacities if there is a permit limit on total capacity, or if one form of waste capacity may be traded off for another.)

Kiln Number:	Tons of Hazardous Waste Burned During 1991 to Date (August 21, 1991)	Maximum Current Practical Burning Capacity (Tons/Year)	Capacity Limiting Factor
Liquids	As of July 15, 1991 21818 tons	51240	
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total			

- 9a. EPA is aware that hazardous wastes that are generated as solids are often blended into liquids for injection to the kiln. What is the average solid content in the liquids fed to this kiln (on a tonnage basis), and what fraction of the solids entrained in these liquids were originally generated as solids.

Average total solid content in liquids (as burned): 15 (%)  
 Percent of solids originally generated as solids:        (%)

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1403

Kiln Number: 2 of 2

10. Please indicate the values you assumed for each of the following factors in estimating the hazardous waste burning capacity of each kiln. Fill in those that do not apply with N/A.

Waste Type	Average Haz. Waste Feed Rate (lb/hr)	Daily Hours of Operation Feeding Haz. Waste (hr/day)	Days Feeding Haz. Waste per Year (days/yr)	Average Heating Value of Haz. Waste (Btu/lb)	Percent of Fuel Value provided by Haz. Wastes (Btu basis)
Liquids	8 ton/yr 7 ton/yr	24	90%	11,200	100%
Pumpable Sludges					
Nonpumpable Sludges					
Containerized Solids					
Bulk Solids					
Dry Solids	1 ton/yr				

Please list any other critical parameters on which capacity estimates are based and include additional operating assumptions that further clarify your capacity estimate for this kiln:

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Kiln Number: 2 of 2

11. When (e.g., calendar month) and for how long is this kiln usually shut down for scheduled maintenance?

When? Winter (February - March)

How long? 2 weeks

12. If this kiln is not currently burning hazardous wastes (as of August 21, 1991), please indicate when you expect it to begin burning hazardous waste, and any physical changes or regulatory (e.g., permit or Interim Status) modification that must occur and/or be authorized before this kiln will begin burning hazardous wastes.

- a) When (year and month or quarter):

N/A

- b) Physical changes (include planned schedule):

N/A

- c) Regulatory modifications (include planned schedule):

N/A

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1405

Liquid Waste Acceptance Limits As Received.

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 1

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	5000 BTU/lb		R
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1407

Liquid Waste Acceptance Limits As Burned

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) \_\_\_\_\_

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 1

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	6000 BTU/lb		
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		3%	Q
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content		5%	Q
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1408

<b>"As Burned" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content		Kiln #1 *	
Antimony Content		2.7 lb/hr	R
Arsenic Content		2.7 lb/hr	R
Barium Content		27 lb/hr	R
Beryllium Content		.54 lb/hr	R
Cadmium Content		4.05 lb/hr	R
Chromium Content			
Copper Content		16.2 lb/hr	R
Lead Content		.54 lb/hr	R
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content		2.7 lb/hr	R
Thallium Content		2.7 lb/hr	R
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\*These approximate limits are based upon feed rate and concentration.

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1409

**Pumpable Sludges Waste Acceptance Limits As Received**

- 14a. Are your pumpable sludge waste limitations "as received" the same as waste limitations specified in questions 13a or b? If so, specify which table applies (e.g., 13a or 13b) and skip to 14b: 13 a

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 1

**"As Received" Pumpable Sludges Waste Limitations**

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1410

"As Received" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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Pumpable Sludges Waste Acceptance Limits As Burned

- 14b. Are your pumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15a:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 1

**"As Burned" Pumpable Sludges Waste Limitations**

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	6000 lb/hr		R
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		3%	Q
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content		5%	Q
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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"As Burned" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content		Kiln 1 *	
Antimony Content		2.9 lb/hr	R
Arsenic Content		2.9 lb/hr	R
Barium Content		29 lb/hr	R
Beryllium Content		.58 lb/hr	R
Cadmium Content		17.4 lb/hr	R
Chromium Content			
Copper Content		17.4 lb/hr	R
Lead Content		.58 lb/hr	R
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content		2.9 lb/hr	R
Thallium Content		2.9 lb/hr	R
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* These approximate limits are based upon feed rate and concentration.

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1413

**Dry Solids Waste Acceptance Limits As Received**

- 18a. Are your dry solids waste limitations "as received" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 18b: \_\_\_\_\_

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (U), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 1

**"As Received" Dry Solids Waste Limitations**

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1414

<b>"As Received" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1-534 1-214 F-226/018 PLG 25 91 20:51

## Dry Solids Waste Acceptance Limits As Burned

- 18b. Are your dry solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 19: \_\_\_\_\_

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 1

<b>"As Burned" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	6000 BTU/lb		R
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		3%	Q
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content		5%	Q
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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F-534 T-214 P-007/018 ALG 25 /91 20:54

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<b>"As Burned" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Poisonicides			
Other: Specify			
Total Specified Metals Content		Kiln 1 *	
Antimony Content		1.2 lb/hr	R
Arsenic Content		1.2 lb/hr	R
Barium Content		12 lb/hr	R
Beryllium Content		.24 lb/hr	R
Cadmium Content		.36 lb/hr	R
Chromium Content		7.2 lb/hr	R
Copper Content			
Lead Content		7.2 lb/hr	R
Mercury Content		.24 lb/hr	R
Nickel Content			
Selenium Content			
Silver Content		1.2 lb/hr	R
Thallium Content		1.2 lb/hr	R
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* These approximate limits are based upon feed and concentration.

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### Liquid Waste Acceptance Limits As Received

- 13a. Please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 2

<b>"As Received" Liquid Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	> 5000 BTU/lb		R
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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1417

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"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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1419

**Liquid Waste Acceptance Limits As Burned**

- 13b. Are your liquid waste limitations "as burned" the same as waste limitations "as received"? (Y/N) \_\_\_\_\_

If yes, skip to 14a. If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

<b>"As Burned" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	6000 BTU/lb		R
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		3%	Q
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content		5%	Q
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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CEMENT KILN REC COAL

F-528 T-161 P-017/031 AUG 25 '91 12:25

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1420

<b>"As Burned" Liquid Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content		Kiln 2*	
Antimony Content		3.2 lb/hr	R
Arsenic Content		3.2 lb/hr	R
Barium Content		32 lb/hr	R
Beryllium Content		.64 lb/hr	R
Cadmium Content		.64 lb/hr	R
Chromium Content		4.8 lb/hr	R
Copper Content			
Lead Content		19.2 lb/hr	R
Mercury Content		.64 lb/hr	R
Nickel Content			
Selenium Content		3.2 lb/hr	R
Silver Content		3.2 lb/hr	R
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\*These approximate limits are based upon feed rate and concentration.

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F-528 T-181 P-018/031 AUG 05 '94 12:25

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#### Pumpable Sludges Waste Acceptance Limits As Received

- 14a. Are your pumpable sludge waste limitations "as received" the same as waste limitations specified in questions 13a or b? If so, specify which table applies (e.g., 13a or 13b) and skip to 14b: 13 a

If no, please indicate the acceptable ranges of all physical and chemical waste properties that you consider before agreeing to receive a waste. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 2

CD2F 002

1421

"As Received" Pumpable Sludges Waste Limitations

Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Received" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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CEMENT KILN REC CORP.

F-529 T-181 P-828/831 AUG 25 '91 12:27

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### Pumpable Sludges Waste Acceptance Limits As Burned

- 14b. Are your pumpable sludge waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 15a:

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 2

<b>"As Burned" Pumpable Sludges Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Heat of Combustion	6000 BTU/lb		R
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		3%	Q
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content		5%	Q
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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CEMENT KILN REC COAL

F-528 T-161 P-221/231 ALG 25 '91 12:28

"As Burned" Pumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content		Kiln 2*	
Antimony Content		3.5 lb/hr	R
Arsenic Content		3.5 lb/hr	R
Barium Content		35 lb/hr	R
Beryllium Content		.7 lb/hr	R
Cadmium Content		1.05 lb/hr	R
Chromium Content		21 lb/hr	R
Copper Content			
Lead Content		21 lb/hr	R
Mercury Content		.7 lb/hr	R
Nickel Content			
Selenium Content			
Silver Content		3.5 lb/hr	R
Thallium Content		3.5 lb/hr	R
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* These approximate limits are based upon feed rate and concentration.

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CEMENT KILN REC COAL

F-534 T-214 P-025/018 AUG 25 '91 28:52

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<b>"As Received" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content			
Barium Content			
Beryllium Content			
Cadmium Content			
Chromium Content			
Copper Content			
Lead Content			
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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## Dry Solids Waste Acceptance Limits As Burned

- 18b. Are your dry solids waste limitations "as burned" the same as waste limitations specified in earlier questions? If so, specify which table applies (e.g., 13a) and skip to 19: \_\_\_\_\_

If no, please indicate the limitations on all physical and chemical waste properties as burned. Fill in only those that apply, and add properties as necessary. In the "Limiting Factor" column, indicate whether the limit is a permit limit (P), another regulatory limit (R), a product quality limit (Q), or some other technical limit (T). If you have a total specified metals limit and not individual metal limits, indicate the total specified metals limit and check off which metals are included in this limit. Explain any exceptions on a separate sheet as necessary.

Kiln 2

<b>"As Burned" Dry Solids Waste Limitations</b>			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	6000 BTU/lb		R
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		3%	Q
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content			
Chlorine Content		5%	Q
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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<b>"As Burned" Dry Solids Waste Limitations</b>			
<b>Property</b>	<b>Minimum Allowable (specify units)</b>	<b>Maximum Allowable (specify units)</b>	<b>Limiting Factor</b>
Pesticides			
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify			
Total Specified Metals Content		Kiln 2 *	
Antimony Content		1.5 lb/hr	R
Arsenic Content		1.5 lb/hr	R
Barium Content		15 lb/hr	R
Beryllium Content		.3 lb/hr	R
Cadmium Content		.45 lb/hr	R
Chromium Content		9 lb/hr	R
Copper Content			
Lead Content		9 lb/hr	R
Mercury Content		.3 lb/hr	R
Nickel Content			
Selenium Content			
Silver Content		1.5 lb/hr	R
Thallium Content		1.5 lb/hr	R
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

\* These approximate limits are based upon feed rate and concentration.

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F-534 T-214 P-009/213 AUG 25 '91 22:55

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20. Please explain any debris acceptance conditions noted on the previous page:

N/A

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- 20a. Do you accept soils? If so, under what conditions or limitations?

N/A

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CEMENT KILN REC COAL

F-534 T-214 P-210/218 AUG 25 '91 20:55

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C. Permit Conditions:

21. Please list all RCRA waste codes you are currently authorized to receive and burn as of 8/21/91 (i.e., you have received full permit or interim status approval). Attach a separate sheet as necessary.
22. Please list all additional RCRA waste codes you are seeking permit or interim status modifications to receive and burn by 8/21/91 (i.e., Part A will have been submitted by 8/21/91).
23. If you are not authorized to receive and burn "newly identified" wastes F037, F038, or D018-D043, what would you have to do to be authorized for those codes?

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--E34 7-214 F-211/2:2, AUG 25 '91 22:56

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24. Please fill in the following table for all authorizations you require in order to burn RCRA hazardous wastes. Consider all permits that limit your ability to burn hazardous wastes. Also indicate when you expect final authorizations. Please use the following permit status codes in the current status column:

NR - Permit Not Required (explain in note)  
 FP - Fully Permitted to receive RCRA hazardous wastes.  
 PM - Preparing Permit Modification for Additional Wastes  
 SA - Submitted Complete Application and Awaiting Response from Issuing Agency  
 MA - Modifying Permit Application for Additional RCRA Wastes  
 IS - Interim Status  
 ND - Currently Responding to Notices of Deficiency in Application  
 PH - Awaiting Public Hearing on Permit  
 OT - Other (please specify):

Authorization Required	Authorizing Agency Name and Phone Number	Current Status	Expected Date of Authorization
Federal BIF			
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
State Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			
Local Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

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CEMENT KILN REC COAL

F-53-1-214 F-212/815 AUG 25 '91 22:57

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25. Please describe any permit changes other than BIF requirements that will be required for you to continue to burn hazardous waste as at present or to begin burning hazardous waste in any of the kilns included in this form. Also indicate when you expect the changes to be made, and when and how you would have to change your current practices if these changes are not approved.

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25. When do you plan to submit a BIF Certification of Compliance (month and year)?

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27. Do you plan to make any changes to the hazardous waste burning practices at this facility before July 1994?

Yes  
 No

28. If you do plan to make changes to this facility, please describe the nature of each modification (including kiln number for specific changes), when you expect it to be completed and fully operational, and the effect it will have on this facility's hazardous waste capacity. Include modifications to waste receiving facilities, fuel processing systems, waste feed systems, analytical equipment and facilities, and air pollution control devices. You may attach appropriate sections of your precompliance certification that describe these changes if convenient.

a) When (month or quarter, and year):

---

b) Effect on hazardous waste capacity:

c) Modifications:

Dry solid and sludge storage

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Systech Environmental Corporation

Attachment 1  
Acceptable Waste Codes

As of 08/29/91

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Characteristic Hazardous Waste

	OH	AL	MI	
D001	X	X	X	X
D004	-	X	-	X
D005	X	X	X	X
D006	X	X	X	X
D007	X	X	X	X
D008	X	X	X	X
D009	X	X	X	X
D010	-	X	-	-
D011	-	X	-	-
D018	X	X	X	X
D019	X	X	X	X
D021	X	X	X	X
D022	X	X	X	X
D023	X	X	X	X
D024	X	X	X	X
D025	X	X	X	X
D026	X	X	X	X
D027	X	X	X	X
D028	X	X	X	X
D029	X	X	X	X
D030	X	X	X	X
D032	X	X	X	X
D033	X	X	X	X
D034	X	X	X	X
D035	X	X	X	X
D036	X	X	X	X
D037	X	X	X	X
D038	X	X	X	X
D039	X	X	X	X
D040	X	X	X	X
D041	X	X	X	X
D042	X	X	X	X

Systech Environmental Corporation

Acceptable Waste Codes

As of 08/29/91

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Hazardous Waste from Nonspecific Sources

	OH	AL	MI	
F001	X	X	X	X
F002	X	X	X	X
F003	X	X	X	X
F004	X	X	X	X
F005	X	X	X	X

Hazardous Waste from Specific Sources

	OH	AL	MI	
K015	-	-	X	-
K022	X	X	X	X
K023	-	-	X	-
K024	-	-	X	-
K027	-	-	X	-
K046	-	-	X	-
K048	X	X	X	X
K049	X	X	X	X
K050	-	-	X	-
K051	-	-	X	-
K052	X	X	X	X
K083	-	X	X	-
K085	-	X	X	X
K086	X	X	X	X
K087	-	X	X	-
K093	-	-	X	-
K094	-	-	X	-
K095	-	X	X	X
K096	-	X	X	X

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## Discarded Commercial Chemical Products

	OH	AL	MI
U001	X	X	X
U002	X	X	X
U003	X	X	X
U019	X	X	X
U031	X	X	X
U037	-	X	X
U051	X	X	X
U052	X	X	X
U055	X	X	X
U056	X	X	X
U057	X	X	X
U069	X	X	X
U080	-	X	X
U102	-	X	-
U112	X	X	X
U113	X	X	X
U117	X	X	X
U118	X	X	X
U121	-	X	-
U124	X	X	X
U125	X	X	X
U140	X	X	X
U154	X	X	X
U159	X	X	X
U161	X	X	X
U162	X	X	X
U165	X	X	X
U188	X	X	X
U210	-	X	X
U213	X	X	X
U220	X	X	X
U226	-	X	X
U228	-	X	X
U239	X	X	X

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EPA I.D. Number (enter from page 1)											
K	S	D	0	0	7	1	4	8	0	3	4
XIV. Description of Hazardous Wastes (continued)											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				1. PROCESS CODES (enter)							
1	D 0 0 1	11,092	T	T	0	4					
2	D 0 0 4	269	T	T	0	4					
3	D 0 0 5	269	T	T	0	4					
4	D 0 0 6	328	T	T	0	4					
5	D 0 0 7	63	T	T	0	4					
6	D 0 0 8	1,544	T	T	0	4					
7	D 0 0 9	265	T	T	0	4					
8	D 0 1 0	100	T	T	0	4					
9	D 0 1 1	100	T	T	0	4					
10	D 0 1 8	100	T	T	0	4					
11	D 0 1 9	100	T	T	0	4					
12	D 0 2 1	100	T	T	0	4					
13	D 0 2 2	100	T	T	0	4					
14	D 0 2 3	100	T	T	0	4					
15	D 0 2 4	100	T	T	0	4					
16	D 0 2 5	100	T	T	0	4					
17	D 0 2 6	100	T	T	0	4					
18	D 0 2 7	100	T	T	0	4					
19	D 0 2 8	100	T	T	0	4					
20	D 0 2 9	100	T	T	0	4					
21	D 0 3 0	100	T	T	0	4					
22	D 0 3 2	100	T	T	0	4					
23	D 0 3 3	100	T	T	0	4					
24	D 0 3 4	100	T	T	0	4					
25	D 0 3 5	100	T	T	0	4					
26	D 0 3 6	100	T	T	0	4					
27	D 0 3 7	100	T	T	0	4					
28	D 0 3 8	100	T	T	0	4					
29	D 0 3 9	100	T	T	0	4					
30	D 0 4 0	100	T	T	0	4					
31	D 0 4 1	100	T	T	0	4					
32	D 0 4 2	100	T	T	0	4					
33	F 0 0 1	5,360	T	T	0	4					

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1437

EPA I.D. Number (enter from page 1)					
K	S	D	0	0	7
			1	4	8
			0	3	4
<b>XIV. Description of Hazardous Wastes (continued)</b>					
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	
3-4	F 0 0 2	4,258	T	T 0 4	
3-5	F 0 0 3	16,235	T	T 0 4	
3-6	F 0 0 4	1,608	T	T 0 4	
3-7	F 0 0 5	10,246	T	T 0 4	
3-8	F 0 3 7	2,000	T	T 0 4	
3-9	F 0 3 8	2,000	T	T 0 4	
4-0	F 0 3 9	2,000	T	T 0 4	
4-1	K 0 1 5	100	T	T 0 4	
4-2	K 0 2 2	269	T	T 0 4	
4-3	K 0 2 3	100	T	T 0 4	
4-4	K 0 2 4	100	T	T 0 4	
4-5	K 0 2 7	100	T	T 0 4	
4-6	K 0 4 5	100	T	T 0 4	
4-7	K 0 4 6	383	T	T 0 4	
4-8	K 0 4 8	269	T	T 0 4	
4-9	K 0 4 9	269	T	T 0 4	
5-0	K 0 5 0	100	T	T 0 4	
5-1	K 0 5 1	100	T	T 0 4	
5-2	K 0 5 2	269	T	T 0 4	
5-3	K 0 8 3	100	T	T 0 4	
5-4	K 0 8 5	269	T	T 0 4	
5-5	K 0 8 6	269	T	T 0 4	
5-6	K 0 8 7	100	T	T 0 4	
5-7	K 0 9 3	100	T	T 0 4	
5-8	K 0 9 4	100	T	T 0 4	
5-9	K 0 9 5	269	T	T 0 4	
6-0	K 0 9 6	269	T	T 0 4	
6-1	U 0 0 1	269	T	T 0 4	
6-2	U 0 0 2	269	T	T 0 4	
6-3	U 0 0 3	269	T	T 0 4	
6-4	U 0 1 9	269	T	T 0 4	
6-5	U 0 3 1	269	T	T 0 4	
6-6	U 0 3 7	269	T	T 0 4	

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EPA I.D. Number (enter from page 1)											
K	S	D	0	0	7	1	4	8	0	3	4
<b>XIV. Description of Hazardous Wastes (continued)</b>											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE		C. UNIT OF MEASURE (enter code)		D. PROCESSES				
							1. PROCESS CODES (enter)				
6	7	U	0	5	1	269	T	T	0	4	
6	8	U	0	5	2	269	T	T	0	4	
6	9	U	0	5	5	269	T	T	0	4	
7	0	U	0	5	6	269	T	T	0	4	
7	1	U	0	5	7	269	T	T	0	4	
7	2	U	0	6	9	269	T	T	0	4	
7	3	U	0	8	0	269	T	T	0	4	
7	4	U	1	1	2	269	T	T	0	4	
7	5	U	1	1	3	269	T	T	0	4	
7	6	U	1	1	7	269	T	T	0	4	
7	7	U	1	1	8	269	T	T	0	4	
7	8	U	1	2	1	269	T	T	0	4	
7	9	U	1	2	4	269	T	T	0	4	
8	0	U	1	2	5	269	T	T	0	4	
8	1	U	1	4	0	269	T	T	0	4	
8	2	U	1	5	4	269	T	T	0	4	
8	3	U	1	5	9	269	T	T	0	4	
8	4	U	1	6	1	269	T	T	0	4	
8	5	U	1	6	2	269	T	T	0	4	
8	6	U	1	6	5	269	T	T	0	4	
8	7	U	1	8	8	269	T	T	0	4	
8	8	U	2	1	0	269	T	T	0	4	
8	9	U	2	1	3	269	T	T	0	4	
8	0	U	2	2	0	269	T	T	0	4	
9	1	U	2	2	6	269	T	T	0	4	
9	2	U	2	2	8	269	T	T	0	4	
9	3	U	2	3	9	269	T	T	0	4	

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