United States
Environmental Protection
Agency

Solid Waste and
Emergency Response
(5305W)

EPA530-R-97-037c
NTIS: PB97-177 448
June 1992

EPA

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

Volume 3:
Appendix C - Background Data for Incineration and Cement Kiln Capacity (Part 2)

...ces Center

... 20460

Printed on paper that contains at lest 20 percent postconsumer fiber

CD2F-S0047

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

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

CD2F 003

Volume 3: Appendix A - Background Data for Incineration and Cement Kiln Capacity (continued)

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

0 0 3 1

June 1992

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, Sauget, Illinois
- Rhone-Poulenc, Baton Rouge, Louisiana
- Rhone-Poulenc, Houston, Texas

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

CD2F 003

0 0 3 2

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

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

CD2F 003

0 0 3 3

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 nonpumbable 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)*.

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

CD2F 003

0034

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

CD2F 003

0035

A. **Facility Information**

1. **Respondent Name and Title:**
Robert F. Babik Regulatory Compliance Coordinator

Company:
Systech Environmental Corp.

Phone number:
(513) 372-8077

2. **Name and address of company that owns the cement kilns at this facility:**
Lafarge Corporation Paulding Cement Plant
County Road 176, P.O. Box 160 Paulding, OH 45879

Facility name, location, and address:

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: OHD005048947

EPA ID of other on-site hazardous waste transporter:
marketer:
storer:

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

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 _____

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

CD2F 003

0036

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
X Steel Drum, specify sizes: 35, 55, 85 gallong, 330 gallon
___ Poly Drum, specify sizes: ___
___ Fiber Drum, specify sizes: ___
___ Bag or other flexible container, specify sizes: ___
___ Rigid Tote
X Tanker Trucks (transferred to tank)
___ Tanker Trucks (direct feed to kiln)
X 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	228,000 gallons 400 yrds^3	1993-1994
Liquid Tanks	292,000 gal	N/A	
Other (specify)			

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

CD2F 003

0031

6b. What processing operations do you perform on-site for liquid wastes?[1]

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?

N/A

[1] 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.

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

CD2F 003

0038

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	6,882,877 gal 27531.5 tons/yr	Same	Approx. 16,750,000 gal 67000 tons/yr	T
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total				

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

CD2F 003

0 0 3 9

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: Rotary Cement Kiln (F.L. Schmidt)

Clinker capacity (tons/hr): 33.5 tons/hr

Thermal input (Btu/ton clinker): 5.2 million BTU/ton clinker

Type of cement product(s) produced in this kiln: Type 1 Specialty Product; Type 1A Masonry

Total hours operating per year on average: 8208

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) ___

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

CD2F 003

0 0 4 0

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	Through July 1, 1991 13766 tons	33500	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: _____ (%)

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

CD2F 003

0041

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	7200 lb/hr	24	342	12000	50%
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:

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

CD2F 003

0042

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? January - March

How long? 23 days/yr

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

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

CD2F 003

0 0 4 3

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: Rotary Cement Kiln (F.L. Schmidt)

Clinker capacity (tons/hr): 33.5 tons/hr

Thermal input (Btu/ton clinker): 5.2 million BTU/ton clinker

Type of cement product(s) produced in this kiln: Type 1 Specialty Product; Type 1A Masonry

Total hours operating per year on average: 8208

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) ____

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

CD2F 003

0 0 4 4

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	Through July 1, 1991 13766 tons	33500	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: _____ (%)

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

CD2F 003

0045

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	7200 lb/yr	24	342	12000	50%
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:

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

CD2F 003

0046

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

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? January - March

How long? 23 days/yr

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

CD2F 003

0 0 4 7

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		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		8500 BTU/lb=5% 8500 BTU/lb=10%	R
Fluorine Content			
Bromine Content			
Other: Specify PCB		50 ppm	R
Other: Specify			

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

CD2F 003

0048

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides	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			

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

CD2F 003

0049

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	10,000 BTU/lb		Q
Water Content		1% in sep. phase	Q
Total Solids Content		30%	Q
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		3%	Q
Sodium Content			
Potassium Content			
Other: Specify Viscosity		<300 cps	Q
Other: Specify Nitrogen		1%	Q
Total Halogen Content		5%	Q
Chlorine Content		5%	Q
Fluorine Content			
Bromine Content			
Other: Specify Ph	4	11	Q
Other: Specify		10%	Q

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

CD2F 003

0050

"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		Each Kiln*	
Antimony Content		9.3 lb/hr	R
Arsenic Content		9.3 lb/hr	R
Barium Content		9.3 lb/hr	R
Beryllium Content		1.86 lb/hr	R
Cadmium Content		3.72 lb/hr	R
Chromium Content		27.90 lb/hr	R
Copper Content			
Lead Content		55.80 lb/hr	R
Mercury Content		1.86 lb/hr	R
Nickel Content			
Selenium Content			
Silver Content		9.30 lb/hr	R
Thallium Content		9.30 lb/hr	R
Vanadium Content			
Zinc Content		3000 ppm	Q
Other: Specify Benzene		<1%	R
Other: Specify			

*These approximate limits are based upon feed rate and concentration.

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

CD2F 003

0051

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

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

N/A

CD2F 003

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

N/A

0052

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

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 Permit Change Request (PCR) to the Regulatory Agency requesting that our permit be revised or codified to allow the acceptance of this waste.

CD2F 003

0 0 5 3

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, RegionV (312) 353-4789	IS	
RCRA Storage			
RCRA Treatment			
Clean Air Act			
Other (specify)			
State Hazardous Waste	Ohio EPA (614) 644-2956	FB MA ND	
Air Emission	Ohio EPA (614) 644-2270		
Land Use/Siting	Hazardous Waste Facility Board (614) 644-2742		
Other (specify)			
Local Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

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

CD2F 003

0054

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

CD2F 003

0 0 5 5

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)?

June - August 1992

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

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

X 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):

100% Waste Fuels January 1993

Dry Solids 1992-1993

b) Effect on hazardous waste capacity:

Fuels will increase

c) Modifications: Kilns 1 and 2

100% Waste Fuels Substitution

Introduction of Dry Solid fuels

CD2F 003

0056

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

CD2F 003

0057

Characteristic Hazardous Waste

	[redacted]	AL	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

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

CD2F 003

0058

Hazardous Waste from Nonspecific Sources

	[redacted]	AL	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

	[redacted]	AL	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

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

CD2F 003

0059

Discarded Commercial Chemical Products

	[redacted]	AL	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
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
[illegible]	—	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

Attachment 2

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

O	H	D	0	0	5	0	4	8	9	4	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	D001	40,000	T	T04 S01 S02
2	D004	40	T	T04 S01 S02
3	D005	40	T	T04 S01 S02
4	D006	40	T	T04 S01 S02
5	D007	40	T	T04 S01 S02
6	D008	40	T	T04 S01 S02
7	D009	40	T	T04 S01 S02
8	D010	40	T	T04 S01 S02
9	D011	40	T	T04 S01 S02
10	D018	40	T	T04 S01 S02
11	D019	40	T	T04 S01 S02
12	D021	40	T	T04 S01 S02
13	D022	40	T	T04 S01 S02
14	D023	40	T	T04 S01 S02
15	D024	40	T	T04 S01 S02
16	D025	40	T	T04 S01 S02
17	D026	40	T	T04 S01 S02
18	D027	40	T	T04 S01 S02
19	D028	40	T	T04 S01 S02
20	D029	40	T	T04 S01 S02
21	D030	40	T	T04 S01 S02
22	D032	40	T	T04 S01 S02
23	D033	40	T	T04 S01 S02
24	D034	40	T	T04 S01 S02
25	D035	40	T	T04 S01 S02
26	D036	40	T	T04 S01 S02
27	D037	40	T	T04 S01 S02
28	D038	40	T	T04 S01 S02
29	D039	40	T	T04 S01 S02
30	D040	40	T	T04 S01 S02
31	D041	40	T	T04 S01 S02
32	D042	40	T	T04 S01 S02
33	F001	< 20	T	T04 S01 S02
34	F002	< 20	T	T04 S01 S02

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

CD2F 003

0060

EPA I.D. Number (enter from page 1): O H D 0 0 5 0 4 8 9 4 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)
35	F003	40,000	T	T04 S01 S02
36	F004	< 20	T	T04 S01 S02
37	F005	40,000	T	T04 S01 S02
38	F006	< 20	T	T04 S01 S02
39	F019	< 20	T	T04 S01 S02
40	F024	< 20	T	T04 S01 S02
41	F025	< 20	T	T04 S01 S02
42	F037	2,000	T	T04 S01 S02
43	F038	2,000	T	T04 S01 S02
44	F039	2,000	T	T04 S01 S02
45	K002	< 20	T	T04 S01 S02
46	K003	< 20	T	T04 S01 S02
47	K004	< 20	T	T04 S01 S02
48	K005	< 20	T	T04 S01 S02
49	K006	< 20	T	T04 S01 S02
50	K007	< 20	T	T04 S01 S02
51	K008	< 20	T	T04 S01 S02
52	K009	< 20	T	T04 S01 S02
53	K010	< 20	T	T04 S01 S02
54	K011	< 20	T	T04 S01 S02
55	K013	< 20	T	T04 S01 S02
56	K014	< 20	T	T04 S01 S02
57	K015	< 20	T	T04 S01 S02
58	K016	< 20	T	T04 S01 S02
59	K017	< 20	T	T04 S01 S02
60	K018	< 20	T	T04 S01 S02
61	K019	< 20	T	T04 S01 S02
62	K020	< 20	T	T04 S01 S02
63	K021	< 20	T	T04 S01 S02
64	K022	2,000	T	T04 S01 S02
65	K023	< 20	T	T04 S01 S02
66	K024	< 20	T	T04 S01 S02
67	K025	< 20	T	T04 S01 S02
68	K026	< 20	T	T04 S01 S02

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

CD2F 003

0 0 6 1

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

O H D 0 0 5 0 4 8 9 4 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)		
69	K028	< 20	T	T04	S01	S02
70	K029	< 20	T	T04	S01	S02
71	K030	< 20	T	T04	S01	S02
72	K048	2,000	T	T04	S01	S02
73	K049	2,000	T	T04	S01	S02
74	K050	< 20	T	T04	S01	S02
75	K051	2,000	T	T04	S01	S02
76	K052	< 20	T	T04	S01	S02
77	K060	< 20	T	T04	S01	S02
78	K061	< 20	T	T04	S01	S02
79	K062	< 20	T	T04	S01	S02
80	K073	< 20	T	T04	S01	S02
81	K083	< 20	T	T04	S01	S02
82	K085	< 20	T	T04	S01	S02
83	K086	36,000	T	T04	S01	S02
84	K087	< 20	T	T04	S01	S02
85	K093	< 20	T	T04	S01	S02
86	K094	< 20	T	T04	S01	S02
87	K095	< 20	T	T04	S01	S02
88	K096	< 20	T	T04	S01	S02
89	K100	< 20	T	T04	S01	S02
90	K103	< 20	T	T04	S01	S02
91	K104	< 20	T	T04	S01	S02
92	K105	< 20	T	T04	S01	S02
93	U001	< 20	T	T04	S01	S02
94	U002	< 20	T	T04	S01	S02
95	U003	< 20	T	T04	S01	S02
96	U004	< 20	T	T04	S01	S02
97	U005	< 20	T	T04	S01	S02
98	U007	< 20	T	T04	S01	S02
99	U008	< 20	T	T04	S01	S02
100	U010	< 20	T	T04	S01	S02
101	U011	< 20	T	T04	S01	S02
102	U012	< 20	T	T04	S01	S02

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

CD2F 003

0062

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

O	H	D	0	0	5	0	4	8	9	4	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)
103	U014	< 20	T	T04 S01 S02
104	U015	< 20	T	T04 S01 S02
105	U016	< 20	T	T04 S01 S02
106	U017	< 20	T	T04 S01 S02
107	U018	< 20	T	T04 S01 S02
108	U019	< 20	T	T04 S01 S02
109	U021	< 20	T	T04 S01 S02
110	U022	< 20	T	T04 S01 S02
111	U024	< 20	T	T04 S01 S02
112	U025	< 20	T	T04 S01 S02
113	U026	< 20	T	T04 S01 S02
114	U027	< 20	T	T04 S01 S02
115	U028	< 20	T	T04 S01 S02
116	U029	< 20	T	T04 S01 S02
117	U030	< 20	T	T04 S01 S02
118	U031	< 20	T	T04 S01 S02
119	U032	< 20	T	T04 S01 S02
120	U034	< 20	T	T04 S01 S02
121	U035	< 20	T	T04 S01 S02
122	U037	< 20	T	T04 S01 S02
123	U038	< 20	T	T04 S01 S02
124	U039	< 20	T	T04 S01 S02
125	U041	< 20	T	T04 S01 S02
126	U042	< 20	T	T04 S01 S02
127	U044	< 20	T	T04 S01 S02
128	U045	< 20	T	T04 S01 S02
129	U046	< 20	T	T04 S01 S02
130	U047	< 20	T	T04 S01 S02
131	U048	< 20	T	T04 S01 S02
132	U049	< 20	T	T04 S01 S02
133	U050	< 20	T	T04 S01 S02
134	U051	< 20	T	T04 S01 S02
135	U052	< 20	T	T04 S01 S02
136	U053	< 20	T	T04 S01 S02

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

CD2F 003

0063

EPA I.D. Number (enter from page 1): O H D 0 0 5 0 4 8 9 4 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)
137	U055	< 20	T	T04 S01 S02
138	U056	< 20	T	T04 S01 S02
139	U057	< 20	T	T04 S01 S02
140	U058	< 20	T	T04 S01 S02
141	U059	< 20	T	T04 S01 S02
142	U062	< 20	T	T04 S01 S02
143	U063	< 20	T	T04 S01 S02
144	U064	< 20	T	T04 S01 S02
145	U066	< 20	T	T04 S01 S02
146	U068	< 20	T	T04 S01 S02
147	U069	< 20	T	T04 S01 S02
148	U070	< 20	T	T04 S01 S02
149	U071	< 20	T	T04 S01 S02
150	U072	< 20	T	T04 S01 S02
151	U073	< 20	T	T04 S01 S02
152	U074	< 20	T	T04 S01 S02
153	U075	< 20	T	T04 S01 S02
154	U076	< 20	T	T04 S01 S02
155	U077	< 20	T	T04 S01 S02
156	U078	< 20	T	T04 S01 S02
157	U079	< 20	T	T04 S01 S02
158	U080	< 20	T	T04 S01 S02
159	U083	< 20	T	T04 S01 S02
160	U084	< 20	T	T04 S01 S02
161	U085	< 20	T	T04 S01 S02
162	U087	< 20	T	T04 S01 S02
163	U088	< 20	T	T04 S01 S02
164	U089	< 20	T	T04 S01 S02
165	U090	< 20	T	T04 S01 S02
166	U091	< 20	T	T04 S01 S02
167	U092	< 20	T	T04 S01 S02
168	U093	< 20	T	T04 S01 S02
169	U094	< 20	T	T04 S01 S02
170	U095	< 20	T	T04 S01 S02

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

CD2F 003

0064

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

O	H	D	0	0	5	0	4	8	9	4	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)
171	U097	< 20	T	T04 S01 S02
172	U101	< 20	T	T04 S01 S02
173	U102	< 20	T	T04 S01 S02
174	U103	< 20	T	T04 S01 S02
175	U105	< 20	T	T04 S01 S02
176	U106	< 20	T	T04 S01 S02
177	U107	< 20	T	T04 S01 S02
178	U108	< 20	T	T04 S01 S02
179	U110	< 20	T	T04 S01 S02
180	U111	< 20	T	T04 S01 S02
181	U112	< 20	T	T04 S01 S02
182	U113	< 20	T	T04 S01 S02
183	U114	< 20	T	T04 S01 S02
184	U115	< 20	T	T04 S01 S02
185	U116	< 20	T	T04 S01 S02
186	U117	< 20	T	T04 S01 S02
187	U118	< 20	T	T04 S01 S02
188	U119	< 20	T	T04 S01 S02
189	U120	< 20	T	T04 S01 S02
190	U121	< 20	T	T04 S01 S02
191	U122	< 20	T	T04 S01 S02
192	U123	< 20	T	T04 S01 S02
193	U124	< 20	T	T04 S01 S02
194	U125	< 20	T	T04 S01 S02
195	U126	< 20	T	T04 S01 S02
196	U128	< 20	T	T04 S01 S02
197	U130	< 20	T	T04 S01 S02
198	U131	< 20	T	T04 S01 S02
199	U132	< 20	T	T04 S01 S02
200	U136	< 20	T	T04 S01 S02
201	U137	< 20	T	T04 S01 S02
202	U138	< 20	T	T04 S01 S02
203	U139	< 20	T	T04 S01 S02
204	U140	< 20	T	T04 S01 S02

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

CD2F 003

0065

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

O	H	D	0	0	5	0	4	8	9	4	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)
205	U141	< 20	T	T04 S01 S02
206	U143	< 20	T	T04 S01 S02
207	U147	< 20	T	T04 S01 S02
208	U148	< 20	T	T04 S01 S02
209	U152	< 20	T	T04 S01 S02
210	U153	< 20	T	T04 S01 S02
211	U154	< 20	T	T04 S01 S02
212	U155	< 20	T	T04 S01 S02
213	U156	< 20	T	T04 S01 S02
214	U157	< 20	T	T04 S01 S02
215	U158	< 20	T	T04 S01 S02
216	U159	< 20	T	T04 S01 S02
217	U161	< 20	T	T04 S01 S02
218	U162	< 20	T	T04 S01 S02
219	U163	< 20	T	T04 S01 S02
220	U164	< 20	T	T04 S01 S02
221	U165	< 20	T	T04 S01 S02
222	U166	< 20	T	T04 S01 S02
223	U169	< 20	T	T04 S01 S02
224	U170	< 20	T	T04 S01 S02
225	U171	< 20	T	T04 S01 S02
226	U172	< 20	T	T04 S01 S02
227	U173	< 20	T	T04 S01 S02
228	U174	< 20	T	T04 S01 S02
229	U176	< 20	T	T04 S01 S02
230	U177	< 20	T	T04 S01 S02
231	U178	< 20	T	T04 S01 S02
232	U179	< 20	T	T04 S01 S02
233	U180	< 20	T	T04 S01 S02
234	U181	< 20	T	T04 S01 S02
235	U182	< 20	T	T04 S01 S02
236	U183	< 20	T	T04 S01 S02
237	U184	< 20	T	T04 S01 S02
238	U185	< 20	T	T04 S01 S02

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

CD2F 003

0066

EPA I.D. Number (enter from page 1): O H D 0 0 5 0 4 8 9 4 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)
239	U186	< 20	T	T04 S01 S02
240	U187	< 20	T	T04 S01 S02
241	U188	< 20	T	T04 S01 S02
242	U190	< 20	T	T04 S01 S02
243	U191	< 20	T	T04 S01 S02
244	U192	< 20	T	T04 S01 S02
245	U193	< 20	T	T04 S01 S02
246	U194	< 20	T	T04 S01 S02
247	U196	< 20	T	T04 S01 S02
248	U197	< 20	T	T04 S01 S02
249	U201	< 20	T	T04 S01 S02
250	U202	< 20	T	T04 S01 S02
251	U203	< 20	T	T04 S01 S02
252	U204	< 20	T	T04 S01 S02
253	U206	< 20	T	T04 S01 S02
254	U207	< 20	T	T04 S01 S02
255	U208	< 20	T	T04 S01 S02
256	U209	< 20	T	T04 S01 S02
257	U210	< 20	T	T04 S01 S02
258	U211	< 20	T	T04 S01 S02
259	U213	< 20	T	T04 S01 S02
260	U218	< 20	T	T04 S01 S02
261	U219	< 20	T	T04 S01 S02
262	U220	< 20	T	T04 S01 S02
263	U221	< 20	T	T04 S01 S02
264	U222	< 20	T	T04 S01 S02
265	U225	< 20	T	T04 S01 S02
266	U226	< 20	T	T04 S01 S02
267	U227	< 20	T	T04 S01 S02
268	U228	< 20	T	T04 S01 S02
269	U235	< 20	T	T04 S01 S02
270	U236	< 20	T	T04 S01 S02
271	U238	< 20	T	T04 S01 S02
272	U239	< 20	T	T04 S01 S02

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

CD2F 003

0067

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

O	H	D	0	0	5	0	4	8	9	4	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)
273	U243	< 20	T	T04 S01 S02
274	U247	< 20	T	T04 S01 S02
275	U249	< 20	T	T04 S01 S02
276	U353	< 20	T	T04 S01 S02
277	U359	< 20	T	T04 S01 S02

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

CD2F 003

0068

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

CD2F 003

0 0 6 9

A. **Facility Information**

1. Respondent Name and Title:
Donald H. Brown, Manager of Process

Company:
Lone Star Industries, Inc.

Phone number:
317-653-9766

2. Name and address of company that owns the cement kilns at this facility:
Lone Star Industries, Inc., 300 First Stamford Place, P.O. Box 120014
Stamford, CT 06912-0014

Facility name, location, and address:
Greencastle Cement Plant
Limedale Road, Greencastle, Indiana 46135

EPA ID of burner: IND 006419212

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: N/A

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

3. Number of kilns currently burning hazardous wastes at this facility: 1
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): 1

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 _____

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

CD2F 003

0 0 7 0

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
_x_ Steel Drum, specify sizes: 35, 55
_x_ Poly Drum, specify sizes: 55
_x_ Fiber Drum, specify sizes: 55
___ Bag or other flexible container, specify sizes: ___
_x_ Rigid Tote
_x_ 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.	112,000 Gal.	
Liquid Tanks	300,000 Gal.		
Other (specify)		260,000 Gal. Dry Solids	

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

CD2F 003

0071

6b. What processing operations do you perform on-site for liquid wastes?[1]

Blending and grinding

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

Blending and grinding

[1] 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.

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

CD2F 003

0 0 7 2

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	17261	17025	47500	T
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids	1686	1620	3960	T
Bulk Solids				
Dry Solids				
Total	18946	18645	51460	

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

CD2F 003

0073

Kiln Number: ____ of ____

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: Portland Cement, Rotary, Long Wet

Clinker capacity (tons/hr): 88

Thermal input (Btu/ton clinker): 5.0 million

Type of cement product(s) produced in this kiln: Portland I, III, Masonry

Total hours operating per year on average: 7920

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) Air Cannon	X

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

CD2F 003

0074

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	17261	47500	T
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids	1686	3960	T
Bulk Solids			
Dry Solids			
Total	18946	51460	

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): 25 (%)
Percent of above solids originally generated as solids: 9 (%)

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

CD2F 003

0075

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	15000	24	264	11000	30
Pumpable Sludges	NA	NA	NA	NA	NA
Nonpumpable Sludges	NA	NA	NA	NA	NA
Containerized Solids	1250	24	264	11000	30
Bulk Solids	NA	NA	NA	NA	NA
Dry Solids	NA	NA	NA	NA	NA

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:

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

CD2F 003

0076

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 September

How long? All Month 10 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):

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

CD2F 003

0 0 7 7

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.		P
Water Content		60%	Q
Total Solids Content			
Total Inorganics Content			
Particle/Object Size		1/4"	Q
Cyanide Content		Detectable	T
Sulfur Content		10%	Q
Sodium Content			
Potassium Content			
Other (Specify) PCB's		50ppm	R
Other (Specify)		-	
Total Halogen Content		10%	Q
Chlorine Content		10%	Q
Fluorine Content		10%	Q
Bromine Content		10%	Q
Other: Specify			
Other: Specify			

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

CD2F 003

0 0 7 8

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		Detectable	T
Fungicides		"	T
Herbicides		"	T
Insecticides		"	T
Rodenticides		"	T
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content		200 ppm	Q
Barium Content		7,500 ppm	Q
Beryllium Content			
Cadmium Content			
Chromium Content		5,000 ppm	Q
Copper Content			
Lead Content		7,500 ppm	Q
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content		5,000 ppm	Q
Other: Specify			
Other: Specify			

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

CD2F 003

0079

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	6000 BTU/Lb.		R
Water Content		40%	Q
Total Solids Content		30%	R
Total Inorganics Content			
Particle/Object Size		1/4"	Q
Cyanide Content		Detectable	T
Sulfur Content		2.5%	R
Sodium Content			
Potassium Content			
Other: Specify PCB's		50 ppm	R
Other: Specify Ash		15%	R
Total Halogen Content		2.5%	Q
Chlorine Content		2.5%	Q
Fluorine Content		2.5%	Q
Bromine Content		2.5%	Q
Other: Specify			
Other: Specify			

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

CD2F 003

0 0 0 0

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		Detectable	T
Fungicides		"	T
Herbicides		"	T
Insecticides		"	T
Rodenticides		"	T
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content		200 ppm	R
Barium Content		7500 ppm	R
Beryllium Content			
Cadmium Content		400 ppm	R
Chromium Content		1000 ppm	R
Copper Content			
Lead Content		5000 ppm	R
Mercury Content			
Nickel Content		2500 ppm	R
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content		5000 ppm	R
Other: Specify			
Other: Specify			

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

CD2F 003

0 0 8 1

Containerized Solids Waste Acceptance Limits As ~~Received~~ Burned

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: 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.

"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 PCB's			
Other: Specify			
Total Halogen Content			
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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

CD2F 003

0082

"As Received" 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			

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

CD2F 003

0 0 0 3

Containerized Solids Waste Acceptance Limits As ~~Burned~~ Received

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: No

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	6000 BTU/Lb.		R
Water Content		40%	Q
Total Solids Content		100%	R
Total Inorganics Content			
Particle/Object Size			
Cyanide Content		Detectable	T
Sulfur Content		10%	Q
Sodium Content			
Potassium Content			
Other: Specify PCB's		50 ppm	R
Other: Specify			
Total Halogen Content		10%	Q
Chlorine Content		10%	Q
Fluorine Content		10%	Q
Bromine Content		10%	Q
Other: Specify			
Other: Specify			

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

CD2F 003

0084

"As Burned" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		Detectable	T
Fungicides		"	T
Herbicides		"	T
Insecticides		"	T
Rodenticides		"	T
Other: Specify			
Total Specified Metals Content			
Antimony Content			
Arsenic Content		200 ppm	Q
Barium Content		7500 ppm	Q
Beryllium Content			
Cadmium Content			
Chromium Content		5000 ppm	Q
Copper Content			
Lead Content		7500 ppm	Q
Mercury Content			
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content		5000 ppm	Q
Other: Specify			
Other: Specify			

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

CD2F 003

0 0 8 5

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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	N		
Personal Protection Equipment (e.g., Tyvex suits)	N	N		
Paper or Cardboard Materials	N	N		
Filter Cartridges	N	N		
Wood Materials	N	N		
Rubber Objects (e.g., tires, hoses)	N	N		
PVC Pipe	N	N		
Other Plastic Debris	N	N		
Glass Debris	N	N		
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	N		
Intact Batteries	N	N		
Battery Cases	N	N		
Electronic Components (e.g., printed circuit boards)	N	N		
Electrical Wires, Switches, etc.	N	N		

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

CD2F 003

0086

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

CD2F 003

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

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

No

0 0 0 8 1

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.

Attached

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).

NA

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?

NA

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

CD2F 003

0088

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 5	PM	
RCRA Storage	U.S. EPA Region 5	15	1993
RCRA Treatment	U.S. EPA Region 5	15	1993
Clean Air Act			
Other (specify)			
State Hazardous Waste	IDEM 317-232-8603		
Air Emission			
Land Use/Siting			
Other (specify)			
Local Hazardous Waste			
Air Emission			
Land Use/Siting			
Other (specify)			

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

CD2F 003

0089

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.

NA

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

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

CD2F 003

0 0 9 0

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

__x__ 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):

3rd Quarter 1993

b) Effect on hazardous waste capacity:

Increase by 50%

c) Modifications:

Dry Solids

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

CD2F 003

0 0 9 1

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

CD2F 003

0092

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:
   Medusa Cement Co., Clinchfield Plant, P.O. Box 120, Clinchfield, GA 31013

   Facility name, location, and address:

   EPA ID of burner: GAD003305513

   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: 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: ___
   Total Number of kilns at this facility (should be total of above): 1

* 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 _____

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

CD2F 003

0 0 9 3

*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
x Tanker Trucks (transferred to tank)
x Tanker Trucks (direct feed to kiln)
x 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	120 Barrels	
Liquid Tanks	0	240,000	1) 1992
Other (specify)			

1) Depends on Interim Status

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

CD2F 003

0094

*Proposed Facility

6b. What processing operations do you perform on-site for liquid wastes?[1]

Proposed operations include (copy Festus)

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

Proposed operations include (copy Festus)

[1] 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.

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

CD2F 003

0095

*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				

Proposed Capacity 99,000 $\frac{\text{Tons}}{\text{Year}}$

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

CD2F 003

0096

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: Preheater

Clinker capacity (tons/hr): 77

Thermal input (Btu/ton clinker): 3,890,000

Type of cement product(s) produced in this kiln: I, IA, II, III, MAS

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:	
Containerized solids charged to calcining zone:	
Sludge Pump: Injected at hot end	x P
Other: (specify)	

P - Proposed

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

CD2F 003

0097

Kiln Number: 1 of 1

*Proposed Facility

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	0	0	
Bulk Solids	0	0	
Dry Solids	0	0	
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): N/A (%)
Percent of above solids originally generated as solids: N/A (%)

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

CD2F 003

0098

Kiln Number: 1 of 1

*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 Waste	26,600 lbs/Hr	24 Hrs	310	N/A	N/A
Fuel					

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

CD2F 003

0099

Kiln Number: 1 of 1

*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, June

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.

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

CD2F 003

0100

*Proposed Facility

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 BTV's/lb	25,000 BTV's/lb	T
Water Content		40%	T
Total Solids Content		100%	T
Total Inorganics Content			
Particle/Object Size		1.00"	
Cyanide Content			
Sulfur Content			
Sodium Content			
Potassium Content			
Other (Specify) ASH		40%	T
Other (Specify)			
Total Halogen Content			
Chlorine Content		.1%	T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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

CD2F 003

* Proposed Facility

"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		500ppm,	T
Arsenic Content		50ppm	T
Barium Content		5000ppm	T
Beryllium Content		5ppm	T
Cadmium Content		500ppm	T
Chromium Content		2500ppm	T
Copper Content			
Lead Content		5000ppm	T
Mercury Content		10ppm	T
Nickel Content			
Selenium Content			
Silver Content		500ppm	T
Thallium Content		500ppm	T
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

* Five times proposed limits as per BIF precompliance certification, requires state approval.

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

CD2F 003

0102

*Proposed Facility
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/lb	14,000 BTU's/lb	T
Water Content		25%	T
Total Solids Content		70%	T
Total Inorganics Content			
Particle/Object Size		.125"	T
Cyanide Content			
Sulfur Content			T
Sodium Content			T
Potassium Content			T
Other: Specify ASH		15%	R
Other: Specify			
Total Halogen Content			
Chlorine Content		5%	R
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

* Proposed limits, as per BIF precompliance certification, require state approval.

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

CD2F 003

0103

* Proposed Facility

"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		100ppm	R
Arsenic Content		10ppm	R
Barium Content		1000ppm	R
Beryllium Content		1ppm	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			

* Proposed limits, as per BIF precompliance certification, require state approval.

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

CD2F 003

0 1 0 4

* Proposed Facility
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.

"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			

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

CD2F 003

0105

* Proposed Facility

"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			

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

CD2F 003

0106

* Proposed Facility

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

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			

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

CD2F 003

0 1 0 7

* Proposed Facility

"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			

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

CD2F 003

0100

* Proposed Facility

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			

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

CD2F 003

0109

*. Proposed Facility

"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			

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

CD2F 003

0110

* Proposed Facility

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.

"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			

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

CD2F 003

* Proposed Facility

"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			

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

CD2F 003

0112

* Proposed Facility

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			

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

CD2F 003

0113

* Proposed Facility

"As Received" 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			

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

CD2F 003

0114

* Proposed Facility

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.

"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			

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

CD2F 003

0115

* Proposed Facility

"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			

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

CD2F 003

0 1 1 6

* Proposed Facility

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			

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

CD2F 003

* Proposed Facility

"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			

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

CD2F 003

0 1 1 8

* Proposed Facility

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			

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

CD2F 003

0119

* Proposed Facility

"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			

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

CD2F 003

0 1 2 0

* Proposed Facility

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			

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

CD2F 003

0 1 2 1

* Proposed Facility

"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			

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

CD2F 003

0 1 2 2

* Proposed Facility

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			

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

CD2F 003

0123

* Proposed Facility

"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			

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

CD2F 003

0124

* Proposed Facility

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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., Tyvex 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		

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

CD2F 003

0125

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

1) Fuel valve into calcining zone.

2) Raw material value, i.e. high concentrations of calcium, alumina, silica or iron.

3) Wire insulations 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.

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

CD2F 003

0126

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

CD2F 003

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?

0127

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

CD2F 003

0 1 2 0

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)			

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

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.

CD2F 003

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

0129

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

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

___ Yes
_X_ 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:

CD2F 003

0130

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

CD2F 003

0 1 3 1

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	

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

CD2F 003

0 1 3 2

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	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			

ACCEPTABLE WASTE CODES
TRACE

WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE
D001 - oxidizer	K062	P021	P068	P116	U064	U148	U218
D002	K064	P023	P070	P118	U066	U149	U219
D003 - water reaction	K065	P024	P071	P119	U067	U150	U225
except direct burn	K066	P026	P072	P120	U068	U151	U235
D003 - explosives	K069	P027	P073	P121	U073	U153	U236
D012	K071	P028	P074	P122	U075	U155	U237
D013	K073	P029	P075	P123	U085	U156	U240
D014	K090	P030	P076	U005	U086	U157	U244
D015	K091	P031	P077	U006	U087	U158	U246
D016	K097	P033	P078	U007	U089	U160	U247
D017	K098	P034	P081	U010	U090	U163	U248
D020	K099	P036	P082	U011	U091	U164	U249
D037	K100	P037	P083	U014	U093	U166	
D041	K106	P038	P084	U015	U094	U167	
D042	K117	P039	P085	U016	U095	U168	
F006	K118	P040	P087	U017	U096	U170	
F007	K123	P041	P088	U018	U097	U179	
F008	K124	P042	P089	U020	U101	U181	
F009	K125	P043	P092	U021	U103	U182	
F010	K126	P044	P093	U022	U114	U183	
F011	K136	P045	P094	U026	U116	U184	
F012	P001	P046	P095	U029	U120	U185	
F019	P002	P047	P096	U030	U126	U186	
K021	P003	P048	P097	U032	U129	U187	
K031	P004	P049	P098	U033	U130	U189	
K032	P006	P050	P099	U035	U131	U191	
K033	P007	P051	P101	U036	U132	U192	
K034	P008	P054	P102	U038	U134	U193	
K037	P009	P056	P103	U048	U135	U197	
K038	P010	P057	P104				
K039	P011	P058	P105				
K040	P012	P059	P106	U049	U136	U200	
K041	P013	P060	P107	U050	U137	U204	
K042	P014	P062	P108	U058	U138	U205	
K043	P015	P063	P109	U059	U142	U206	
K044	P016	P064	P110	U060	U143	U214	
K045	P017	P065	P111	U061	U144	U215	
K046	P018	P066	P113	U062	U145	U216	
K047	P020	P067	P114	U063	U146	U217	
			P115				

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

CD2F 003

0 1 3 E E

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

CD2F 003

0134

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:
Medusa Wampum, Route 18, P.O. Box 153, Wampum, PA 16157

Facility name, location, and address:

EPA ID of burner: PAD-083-965-897

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: 3
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): 3

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): 70
Processor 1 Sun Oil, Toledo Ohio
Processor 2 North East Chemical, Cleveland Ohio
Processor 3 Petroleum Recyclers Inc.
Processor 4 Frontier Chemical

Pumpable Sludges
Percent received from off-site processors (excluding generators): 25
Processor 1 Sun Oil, Toledo Ohio 419-698-1441
Processor 2 North East Chemical, Cleveland Ohio
Processor 3 Petroleum Recyclers Inc.
Processor 4 Frontier Chemical

Nonpumpable Sludges
Percent received from off-site processors (excluding generators): 5
Processor 1 Sun Oil
Processor 2 North East Chemical
Processor 3 Petroleum Recyclers Inc.
Processor 4 Frontier Chemical

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

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

CD2F 003

0135

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) Proposed
x 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 Barrels		
Liquid Tanks		240,000 gallons	Early 1992
Other (specify)			

* For on-site generated waste storage

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

CD2F 003

0136

6b. What processing operations do you perform on-site for liquid wastes?[1]

Unloading, blending, pumping, burning

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

Filtering of oversize particles from liquid streams, unleading of settled solids from transport vehicles, grinding, mixing of groundup material back into liquid stream, pumping, burning

[1] 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.

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

CD2F 003

0 1 3 7

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	8,400	8,400	45,000	P/R
Pumpable Sludges	3,000	3,000	16,000	P/R
Nonpumpable Sludges	600	600	3,000	P/R
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	12,000	12,000	69,000	P/R

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

CD2F.003

0138

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: Long Dry Kiln

Clinker capacity (tons/hr): 32

Thermal input (Btu/ton clinker): 4,670,000

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

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
Dry solids injected at "hot" end: ___
Containerized solids charged to calcining zone: ___
Sludge Pump: ___
Other: (specify) ___

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

CD2F 003

0139

Kiln Number: 2 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: 2

Type of Kiln: Long Dry

Clinker capacity (tons/hr): 32

Thermal input (Btu/ton clinker): 4,670,000

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

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
- Dry solids injected at "hot" end: ____
- Containerized solids charged to calcining zone: ____
- Sludge Pump: ____
- Other: (specify) ____

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

CD2F 003

0140

Kiln Number: 3 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: 3

Type of Kiln: Long Dry

Clinker capacity (tons/hr): 36.5

Thermal input (Btu/ton clinker): 4,390,000

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

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
Dry solids injected at "hot" end: ___
Containerized solids charged to calcining zone: ___
Sludge Pump: ___
Other: (specify) ___

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

CD2F 003

0 1 4 1

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	2,800	15,000	P/R
Pumpable Sludges	1,000	5,333	P/R
Nonpumpable Sludges	200	1,000	P/R
Containerized Solids	N/A	N/A	
Bulk Solids	N/A	N/A	
Dry Solids	N/A	N/A	
Total	4,000	21,333	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): 20 (%)
Percent of above solids originally generated as solids: N/A (%)

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

CD2F 003

0 1 4 2

Kiln Number: 2 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	2,800	15,000	P/R
Pumpable Sludges	1,000	5,333	P/R
Nonpumpable Sludges	200	1,000	P/R
Containerized Solids	N/A	N/A	
Bulk Solids	N/A	N/A	
Dry Solids	N/A	N/A	
Total	4,000	21,333	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): 20 (%)
Percent of above solids originally generated as solids: N/A (%)

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

CD2F 003

0 1 4 3

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	2,800	15,000	P/R
Pumpable Sludges	1,000	5,333	P/R
Nonpumpable Sludges	200	1,000	P/R
Containerized Solids	N/A	N/A	
Bulk Solids	N/A	N/A	
Dry Solids	N/A	N/A	
Total	4,000	21,333	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): 20 (%)
Percent of above solids originally generated as solids: N/A (%)

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

CD2F 003

0 1 4 4

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	4032	24	310	N/A	N/A
Pumpable Sludges	1152	24	310	N/A	N/A
Nonpumpable Sludges	288	24	310	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:

1152 lb/hr 24 hr/day 310 day/year

ton/2000 lb

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

CD2F 003

0145

Kiln Number: 2 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	4032	24	310	N/A	N/A
Pumpable Sludges	1152	24	310	N/A	N/A
Nonpumpable Sludges	288	24	310	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:

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

CD2F 003

0146

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	4032	24	310	N/A	N/A
Pumpable Sludges	1152	24	310	N/A	N/A
Nonpumpable Sludges	288	24	310	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:

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

CD2F 003

0 1 4 7

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? 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):

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

CD2F 003

0148

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? 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):

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

CD2F 003

0149

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? 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):

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

CD2F 003

0150

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 $\frac{BTV'S}{lb}$	25,000 $\frac{BTV's}{lb}$	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) ASH		40%	T
Other (Specify)			
Total Halogen Content			
Chlorine Content		20%	T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

* Five times proposed limits, as per BIF Precompliance Certification, require approval

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

CD2F 003

0151

"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		500ppm	T
Arsenic Content		50ppm	T
Barium Content		5000ppm	T
Beryllium Content		10ppm	T
Cadmium Content		500ppm	T
Chromium Content		2500ppm	T
Copper Content			
Lead Content		5000ppm	T
Mercury Content		10ppm	T
Nickel Content			
Selenium Content			
Silver Content		500ppm	T
Thallium Content		500ppm	T
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

* Five times proposal limits as per BIF precompliance certification require state approval.

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

CD2F 003

0152

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

CD2F 003

0153

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 BTV's/lb	14,000 BTV's/lb	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		4.0%	R
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

*. Proposed limits as per BIF precompliance certification require state approval

"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		100ppm	R
Arsenic Content		10ppm	R
Barium Content		1000	R
Beryllium Content		2	R
Cadmium Content		100	R
Chromium Content		500	R
Copper Content			
Lead Content		1000	R
Mercury Content		2	R
Nickel Content			
Selenium Content			
Silver Content		100	R
Thallium Content		100	R
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

* Proposed limits as per BIF precompliance certification require state approval

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

CD2F 003

0154

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 *Five times proposed limits as per BIF precompliance certification 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			

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

CD2F 003

0155

"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			

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

CD2F 003

0156

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 as per BIF precompliance certification 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			

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

CD2F 003

0157

"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			

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

CD2F 003

0158

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

CD2F 003

0159

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 * Five times proposed limits as per BIF precompliance certification, 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			

"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			

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

CD2F 003

0160

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 as per BIF precompliance certification, 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			

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

CD2F 003

0161

"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			

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

CD2F 003

0162

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			

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

CD2F 003

0163

"As Received" 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			

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

CD2F 003

0164

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.

"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			

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

CD2F 003

0165

"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			

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

CD2F 003

0166

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.

"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			

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

CD2F 003

0167

"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			

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

CD2F 003

0168

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			

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

CD2F 003

0169

"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			

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

CD2F 003

0 1 7 0

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			

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

CD2F 003

"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			

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

CD2F 003

0112

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			

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

CD2F 003

"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			

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

CD2F 003

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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., Tyvex 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		
Other Bricks		Y		
Slag		N		
Intact Batteries		N		
Battery Cases		Y	4	
Electronic Components (e.g., printed circuit boards)		N		
Electrical Wires, Switches, etc.		N		

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

CD2F 003

0115

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

CD2F 003

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

1) Fuel valve into calcining zone

2) Raw material valve, 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.

0176

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 copy of acceptable waste codes.

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?

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

CD2F 003

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)			

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

CD2F 003

0 1 7 8

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)?

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

CD2F 003

0179

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

____ Yes
_X_ 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:

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

CD2F 003

0 1 8 0

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

CD2F 003

0 1 8 1

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	

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

CD2F 003

0182

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	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			

ACCEPTABLE WASTE CODES
TRACE

WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE
D001 - oxidizer	K062	P021	P068	P116	U064	U148	U218
D002	K064	P023	P070	P118	U066	U149	U219
D003 - water reaction	K065	P024	P071	P119	U067	U150	U225
except direct burn	K066	P026	P072	P120	U068	U151	U235
D003 - explosives	K069	P027	P073	P121	U073	U153	U236
D012	K071	P028	P074	P122	U075	U155	U237
D013	K073	P029	P075	P123	U085	U156	U240
D014	K090	P030	P076	U005	U086	U157	U244
D015	K091	P031	P077	U006	U087	U158	U246
D016	K097	P033	P078	U007	U089	U160	U247
D017	K098	P034	P081	U010	U090	U163	U248
D020	K099	P036	P082	U011	U091	U164	U249
D037	K100	P037	P083	U014	U093	U166	
D041	K106	P038	P084	U015	U094	U167	
D042	K117	P039	P085	U016	U095	U168	
F006	K118	P040	P087	U017	U096	U170	
F007	K123	P041	P088	U018	U097	U179	
F008	K124	P042	P089	U020	U101	U181	
F009	K125	P043	P092	U021	U103	U182	
F010	K126	P044	P093	U022	U114	U183	
F011	K136	P045	P094	U026	U116	U184	
F012	P001	P046	P095	U029	U120	U185	
F019	P002	P047	P096	U030	U126	U186	
K021	P003	P048	P097	U032	U129	U187	
K031	P004	P049	P098	U033	U130	U189	
K032	P006	P050	P099	U035	U131	U191	
K033	P007	P051	P101	U036	U132	U192	
K034	P008	P054	P102	U038	U134	U193	
K037	P009	P056	P103	U048	U135	U197	
K038	P010	P057	P104				
K039	P011	P058	P105				
K040	P012	P059	P106	U049	U136	U200	
K041	P013	P060	P107	U050	U137	U204	
K042	P014	P062	P108	U058	U138	U205	
K043	P015	P063	P109	U059	U142	U206	
K044	P016	P064	P110	U060	U143	U214	
K045	P017	P065	P111	U061	U144	U215	
K046	P018	P066	P113	U062	U145	U216	
K047	P020	P067	P114	U063	U146	U217	
			P115				

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

CD2F 003

E 8 1 0

A. **Facility Information**

1. Respondent Name and Title:
Charles D. Kellett; Technical Manager

Company:
National Cement Company

Phone number:
(805) 329-3121, ext 232

2. Name and address of company that owns the cement kilns at this facility:
National Cement Company of California, Inc.
15821 Ventura Blvd., Suite 435, Encino, CA 91436-2935

Facility name, location, and address:
Los Robles Cement plant, National Cement Co. state Hwy 135,
5 Miles East of I-5; P.O. Box 1247, Lebec, CA 93243

EPA ID of burner: CAD 982 444 807

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

EPA ID of on-site processor: CAT 080031628

EPA ID of other on-site hazardous waste transporter: -
marketer: -
storer: -

3. Number of kilns currently burning hazardous wastes at this facility: 1
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): 1

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

CD2F 003

0184

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): 48%
Processor 1 Rosic Chemical, E. Palo Alto, CA (415) 324-1638
Processor 2 Oil + Solvent Process, Azusa, CA (818) 334-5117
Processor 3 Petroleum Recycling Corp, Signal Hill, CA (213) 595-7431
Processor 4 RHO Chem Corp., Inglewood, CA (213) 776-6233

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 _____

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

CD2F 003

0185

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
X Steel Drum, specify sizes: 55 gallons; 1 to 85 gallons
X Poly Drum, specify sizes: " ; "
X Fiber Drum, specify sizes: " ; "
___ Bag or other flexible container, specify sizes: ___
___ Rigid Tote
X Tanker Trucks (transferred to tank)
___ Tanker Trucks (direct feed to kiln)
___ Rail car
___ Carboy
___ Pallet
X Other, specify: Portable Tanks, 100 to 600 gallons

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	1,100 gallons	None	
Liquid Tanks	400,000 gallons	None	
Other (specify)	None	None	

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

CD2F 003

0186

6b. What processing operations do you perform on-site for liquid wastes?[1]

Liquid wastes are blended to provide for a quality cement kiln fuel.

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

None.

[1] 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.

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

CD2F 003

0 1 8 7

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	14,735	14,735	34,800	P
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total	14,735	14,735	34,800	

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

CD2F 003

0188

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 dry with chains

Clinker capacity (tons/hr): 80

Thermal input (Btu/ton clinker): CBI

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

Total hours operating per year on average: CBI

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) ____

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

CD2F 003

0189

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	19,570	34,800	P
Pumpable Sludges			
Nonpumpable Sludges			
Containerized Solids			
Bulk Solids			
Dry Solids			
Total	19,570	34,800	

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: 0 (%)

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

CD2F 003

0 1 9 0

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	9360	24	310	12,113	32
Pumpable Sludges	N/A				
Nonpumpable Sludges	N/A				
Containerized Solids	N/A				
Bulk Solids	N/A				
Dry Solids	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:

Permit limitation (Cal. EPA, Dept. of Toxic Subst. Control) is 1200 gallons/hour of waste fuel or 40% of the total heat input into the Kiln, whichever is the lesser amount. 1200 GPH quantity is more stringent and is used above. Waste fuel density - 7.75 lbs/gallon.

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

CD2F 003

0191

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? No precise month. Varies from year to year.

How long? Approx 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):

b) Physical changes (include planned schedule):

c) Regulatory modifications (include planned schedule):

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

CD2F 003

0192

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	5000 Btu/lb.		T
Water Content		40%	*
Total Solids Content		50%	*
Total Inorganics Content **			
Particle/Object Size	NA	NA	
Cyanide Content		0	P
Sulfur Content	0	≤ 0%	*
Sodium Content		No Limit	
Potassium Content		No Limit	
Other (Specify) ** pH	4	11	P
Other (Specify)			
Total Halogen Content	0	Approx. 15%	*
Chlorine Content	See Total	Halogen	
Fluorine Content	See Total	Halogen	
Bromine Content	See Total	Halogen	
Other: Specify			
Other: Specify			

* - Ability to Blend to Permit Limit (As burned).

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

CD2F 003

0 1 5 3

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		0	P
Fungicides		0	P
Herbicides		0	P
Insecticides		0	P
Rodenticides		0	P
Other: Specify			
Total Specified Metals Content			
Antimony Content		900 ppm	*
Arsenic Content		300 ppm	*
Barium Content		30,000 ppm	*
Beryllium Content		30,000 ppm	*
Cadmium Content		150 ppm	*
Chromium Content		12,000 ppm	*
Copper Content		No Limit	
Lead Content		10,000 ppm	*
Mercury Content		450 ppm	*
Nickel Content		Driven by risk Assessment	P
Selenium Content		Driven by risk Assessment	P
Silver Content		160 ppm	*
Thallium Content		300 ppm	*
Vanadium Content		No Limit	
Zinc Content		No Limit	
Other: Specify			
Other: Specify			

* Ability to blend to Permit Limit (as burned).

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

CD2F 003

0194

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/lb.		P
Water Content (As separated phase)	0	1.0%	T, P
Total Solids Content	0	3.0%	P
Total Inorganics Content **			
Particle/Object Size	NA	NA	
Cyanide Content		0	T, P
Sulfur Content	0	1.0%	P
Sodium Content		No Limit	
Potassium Content		No Limit	
Other: Specify ** pH	4	11	P
Other: Specify Specific Gravity		1.2	T, P
Total Halogen Content	2.5%	3.8%	T, P
Chlorine Content	2.5%	3.8%	T, P
Fluorine Content	2.5%	3.8%	T, P
Bromine Content	2.5%	3.8%	T, P
Other: Specify -			
Other: Specify			

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

CD2F 003

0195

"As Burned" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		0	P
Fungicides		0	P
Herbicides		0	P
Insecticides		0	P
Rodenticides		0	P
Other: Specify			
Total Specified Metals Content			
Antimony Content		150 ppm	P
Arsenic Content		50 ppm	P
Barium Content		5,000 ppm	P
Beryllium Content		5 ppm	P
Cadmium Content		33 ppm	P
Chromium Content		300 ppm	P
Copper Content		No Limit	
Lead Content		1,500 ppm	P
Mercury Content		78 ppm	P
Nickel Content		Risk Assessment Driven	P
Selenium Content		Risk Assessment Driven	P
Silver Content		28 ppm	P
Thallium Content		50 ppm	P
Vanadium Content		No Limit	
Zinc Content		No Limit	
Other: Specify			
Other: Specify			

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

CD2F 003

0196

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: 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" 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			

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

CD2F 003

0197

"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			

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

CD2F 003

0 1 5 8

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: 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" 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			

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

CD2F 003

0199

"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			

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

CD2F 003

0200

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: 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" 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			

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

CD2F 003

0201

"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			

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

CD2F 003

0202

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: 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" 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			

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

CD2F 003

0203

"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			

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

CD2F 003

0204

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			

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

CD2F 003

0205

"As Received" 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			

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

CD2F 003

0206

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.

"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			

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

CD2F 003

0 2 0 7

"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			

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

CD2F 003

0208

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			

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

CD2F 003

0 2 0 0

"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			

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

CD2F 003

0210

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			

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

CD2F 003

0211

"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			

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

CD2F 003

0212

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			

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

CD2F 003

0213

"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			

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

CD2F 003

0214

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

CD2F 003

0215

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			

"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			

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

CD2F 003

0216

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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	N		
Personal Protection Equipment (e.g., Tyvex suits)	N	N		
Paper or Cardboard Materials	N	N		
Filter Cartridges	N	N		
Wood Materials	N	N		
Rubber Objects (e.g., tires, hoses)	N	N		
PVC Pipe	N	N		
Other Plastic Debris	N	N		
Glass Debris	N	N		
Ceramic Debris (e.g., semiconducters)	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	N		
Intact Batteries	N	N		
Battery Cases	N	N		
Electronic Components (e.g., printed circuit boards)	N	N		
Electrical Wires, Switches, etc.	N	N		

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

CD2F 003

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

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

No.

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

CD2F 003

0218

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. Please see attached sheets.

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). D010, D011

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?

No plans to burn these wastes due to concerns of health and safety while handling these compounds.

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

CD2F 003

0219

Line Number	A. EPA HAZARDOUS WASTE NO.
103	U105
104	U108
105	U112
106	U113
107	U117
108	U118
109	U121
110	U122
111	U124
112	U125
113	U127
114	U128
115	U130
116	U140
117	U147
118	U154
119	U159
120	U161
121	U162
122	U165
123	U171
124	U188
125	U190
126	U191
127	U197
128	U207
129	U209
130	U210
131	U211
132	U213
133	U220
134	U221
135	U223
136	U225

Line Number	A. EPA HAZARDOUS WASTE NO.
137	U226
138	U227
139	U239
140	U359

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

CD2F 003

0220

Line Number	A. EPA HAZARDOUS WASTE NO.
1	D001
2	D004
3	D005
4	D006
5	D007
6	D008
7	D009
10	D018
11	D019
12	D021
13	D022
14	D023
15	D024
16	D025
17	D026
18	D027
19	D028
20	D029
21	D030
22	D032
23	D033
24	D034
25	D035
26	D036
27	D037
28	D038
29	D039
30	D040
31	D041
32	D042
33	F001
34	F002

Line Number	A. EPA HAZARDOUS WASTE NO.
35	F003
36	F004
37	F005
38	K001
39	K009
40	K010
41	K014
42	K015
43	K016
44	K017
45	K018
46	K019
47	K020
48	K022
49	K024
50	K025
51	K026
52	K028
53	K029
54	K030
55	K046
56	K048
57	K049
58	K050
59	K051
60	K052
61	K073
62	K083
63	K085
64	K093
65	K094
66	K095
67	K096
68	K103

Line Number	A. EPA HAZARDOUS WASTE NO.
69	U001
70	U002
71	U003
72	U004
73	U007
74	U008
75	U012
76	U019
77	U025
78	U031
79	U037
80	U041
81	U044
82	U051
83	U052
84	U053
85	U055
86	U056
87	U057
88	U067
89	U069
90	U070
91	U071
92	U072
93	U076
94	U077
95	U079
96	U080
97	U088
98	U092
99	U098
100	U101
101	U102
102	U103

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

CD2F 003

0221

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 IX (415) 744-2051	IS	August 1992
RCRA Storage (System)	EPA Region IX (415) 744-2051	ND	January 1993
RCRA Treatment			
Clean Air Act			
Other (specify)			
State Hazardous Waste	Cal. EPA Dept. of Toxic Substances Control (916) 855-7700	ND	January 1993
Air Emission			
Land Use/Siting			
Other (specify)			
Local Hazardous Waste			
Air Emission	Kern County Air Pollution Control District (805) 861-3682	FP	
Land Use/Siting			
Other (specify)			

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

CD2F 003

0222

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. None.

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

August 1992

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

CD2F 003

0223

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

___ Yes
X 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:

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

CD2F 003

0224

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

CD2F 003

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:
   River Festus, Selma Plant P.O. Box 338, Festus, MO 63028

   Facility name, location, and address:

   EPA ID of burner: MOD-050-232-560

   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: 2
   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

0225

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): 70
Processor 1 IFR, South Bend Ind,
Processor 2 Laidlaw, Crowley La., (318) 783-2624
Processor 3 Afganic, Cottage Grove, Wisconsin
Processor 4 Sun Oil, Tulsa OK

Pumpable Sludges
Percent received from off-site processors (excluding generators): 25
Processor 1 IFR, South Bend Ind,
Processor 2 Laidlaw, Crowley La., (318) 783-2624
Processor 3 Afganic, Cottage Grove, Wisconsin
Processor 4 Sun Oil, Tulsa OK

Nonpumpable Sludges
Percent received from off-site processors (excluding generators): 5
Processor 1 IFR, South Bend Ind,
Processor 2 Laidlaw, Crowley La., (318) 783-2624
Processor 3 Afganic, Cottage Grove, Wisconsin
Processor 4 Sun Oil, Tulsa OK

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

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

CD2F 0226

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

CD2F 003

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
x Tanker Trucks (transferred to tank)
x Tanker Trucks (direct feed to kiln)
x 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 Barrels		
Liquid Tanks	180,000 gal.		
Other (specify)			

0227

6b. What processing operations do you perform on-site for liquid wastes?[1]

Unloading, filtering, storage, blending, pumping, burning

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

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.

[1] 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.

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

CD2F 003

0228

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

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	20,000	20,000	62,000	
Pumpable Sludges	7,000	7,000	22,000	
Nonpumpable Sludges	1,500	1,500	4,000	
Containerized Solids				
Bulk Solids				
Dry Solids				
Total	28,500	28,500	88,000	

CD2F 003
0229

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): 77.5

Thermal input (Btu/ton clinker): 4,516,000

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
Dry solids injected at "hot" end:	x P
Containerized solids charged to calcining zone:	
Sludge Pump:	x P
Other: (specify)	

P - Proposed

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

CD2F 003

0230

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): 81.7

Thermal input (Btu/ton clinker): 4,286,000

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	
Dry solids injected at "hot" end:	x	P
Containerized solids charged to calcining zone:		
Sludge Pump:	x	P
Other: (specify)		

P - Proposed

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

CD2F 003

0 2 3 1

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	10,000	31,000	
Pumpable Sludges	3,500	11,000	
Nonpumpable Sludges	750	2,000	
Containerized Solids			
Bulk Solids			
Dry Solids			
Total	14,250	44,000	

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): 20 (%)
Percent of above solids originally generated as solids: N/A (%)

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

CD2F 003

0232

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	10,000	31,000	
Pumpable Sludges	3,500	11,000	
Nonpumpable Sludges	750	2,000	
Containerized Solids			
Bulk Solids			
Dry Solids			
Total	14,250	44,000	

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): 20 (%)
Percent of above solids originally generated as solids: N/A (%)

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

CD2F 003

0 2 3 3

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	8333	29	310	N/A	N/A
Pumpable Sludges	2957	29	310	N/A	N/A
Nonpumpable Sludges	538	24	310	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:

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

CD2F 003

0234

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	8333	29	310	N/A	N/A
Pumpable Sludges	2957	29	310	N/A	N/A
Nonpumpable Sludges	538	24	310	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:

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

CD2F 003

0235

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):

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

CD2F 003

0236

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):

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

CD2F 003

0 2 3 1

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 BTV's/lb	25,000 BTV'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) ASH		40%	T
Other (Specify)			
Total Halogen Content			
Chlorine Content		25%	T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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

CD2F 003

0238

"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		500ppm	
Arsenic Content		50ppm	
Barium Content		5000ppm	
Beryllium Content		5ppm	
Cadmium Content		500ppm	
Chromium Content		2500ppm	
Copper Content			
Lead Content		5000ppm	
Mercury Content		5ppm	
Nickel Content			
Selenium Content			
Silver Content		500ppm	
Thallium Content		500ppm	
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

* Five times proposed limits as per BIF precompliance certification, require state approval.

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

CD2F 003

0239

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 BTV's/lb	14,000 BTV's/lb	T
Water Content		25%	T
Total Solids Content		70%	T
Total Inorganics Content			
Particle/Object Size		.125%	T
Cyanide Content			T
Sulfur Content		3%	T
Sodium Content			
Potassium Content			
Other: Specify ASH		15%	R
Other: Specify			
Total Halogen Content			
Chlorine Content		5%	T
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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

CD2F 003

0240

"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		100ppm	
Arsenic Content		10ppm	
Barium Content		1000ppm	
Beryllium Content		1ppm	
Cadmium Content		100ppm	
Chromium Content		500ppm	
Copper Content			
Lead Content		1000ppm	
Mercury Content		1ppm	
Nickel Content			
Selenium Content			
Silver Content		100ppm	
Thallium Content		100ppm	
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

* Proposed limits as per BIF precompliance certifications require state approval

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

CD2F 003

0241

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 * Five times proposed limits as per BIF precompliance certification 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			

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

CD2F 003

0242

"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			

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

CD2F 003

0243

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

CD2F 003

0244

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 as per BIF precompliance certification 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			

"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			

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

CD2F 003

0245

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 Five times proposed limits as per BIF precompliance certification, 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			

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

CD2F 003

0246

"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			

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

CD2F 003

0247

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

CD2F 003

0248

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 as per BIF precompliance certification, 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			

"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			

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

CD2F 003

0249

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			

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

CD2F 003

0250

"As Received" 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			

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

CD2F 003

0251

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

CD2F 003

0252

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.

"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			

"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			

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

CD2F 003

0253

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			

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

CD2F 003

0254

"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			

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

CD2F 003

0255

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			

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

CD2F 003

0256

"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			

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

CD2F 003

0257

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			

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

CD2F 003

0258

"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			

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

CD2F 003

0259

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			

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

CD2F 003

0 2 6 0

"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			

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

CD2F 003

0261

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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., Tyvex 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)				
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		

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

CD2F 003

0262

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

CD2F 003

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.

0263

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 copy of acceptable waste codes.

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?

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

CD2F 003

0264

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)			

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

CD2F 003

0265

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)?

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

CD2F 003

0266

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

___ Yes
_X_ 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:

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

CD2F 003

0267

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

CD2F 003

0268

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	

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

CD2F 003

0269

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	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			

ACCEPTABLE WASTE CODES
TRACE

WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE	WASTE CODE
D001 - oxidizer	K062	P021	P068	P116	U064	U148	U218
D002	K064	P023	P070	P118	U066	U149	U219
D003 - water reaction	K065	P024	P071	P119	U067	U150	U225
except direct burn	K066	P026	P072	P120	U068	U151	U235
D003 - explosives	K069	P027	P073	P121	U073	U153	U236
D012	K071	P028	P074	P122	U075	U155	U237
D013	K073	P029	P075	P123	U085	U156	U240
D014	K090	P030	P076	U005	U086	U157	U244
D015	K091	P031	P077	U006	U087	U158	U246
D016	K097	P033	P078	U007	U089	U160	U247
D017	K098	P034	P081	U010	U090	U163	U248
D020	K099	P036	P082	U011	U091	U164	U249
D037	K100	P037	P083	U014	U093	U166	
D041	K106	P038	P084	U015	U094	U167	
D042	K117	P039	P085	U016	U095	U168	
F006	K118	P040	P087	U017	U096	U170	
F007	K123	P041	P088	U018	U097	U179	
F008	K124	P042	P089	U020	U101	U181	
F009	K125	P043	P092	U021	U103	U182	
F010	K126	P044	P093	U022	U114	U183	
F011	K136	P045	P094	U026	U116	U184	
F012	P001	P046	P095	U029	U120	U185	
F019	P002	P047	P096	U030	U126	U186	
K021	P003	P048	P097	U032	U129	U187	
K031	P004	P049	P098	U033	U130	U189	
K032	P006	P050	P099	U035	U131	U191	
K033	P007	P051	P101	U036	U132	U192	
K034	P008	P054	P102	U038	U134	U193	
K037	P009	P056	P103	U048	U135	U197	
K038	P010	P057	P104				
K039	P011	P058	P105				
K040	P012	P059	P106	U049	U136	U200	
K041	P013	P060	P107	U050	U137	U204	
K042	P014	P062	P108	U058	U138	U205	
K043	P015	P063	P109	U059	U142	U206	
K044	P016	P064	P110	U060	U143	U214	
K045	P017	P065	P111	U061	U144	U215	
K046	P018	P066	P113	U062	U145	U216	
K047	P020	P067	P114	U063	U146	U217	
			P115				

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

CD2F-003

0210

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

CD2F 003

A. **Facility Information**

1. Respondent Name and Title:
Leslie M. Cook, Permitting Analyst

Company:
Southdown Environmental Systems

Phone number:
(713) 653-8087

2. Name and address of company that owns the cement kilns at this facility:
Southdown, Inc., 1200 Smith Street, Suite 2400, Houston, Texas 77002

Facility name, location, and address:
Southdown, Inc., Brooksville Facility, P.O. Box 6, Brooksville, Florida 34605 (16301 Ponce DeLeon Blvd., U.S. Highway 98)

EPA ID of burner: FLD 072543010

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: NONE

EPA ID of other on-site hazardous waste transporter: NONE
marketer: NONE
storer: NONE

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: 2
Total Number of kilns at this facility (should be total of above): 1

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. This section is not applicable to the Brookville Facility because it is not burning hazardous waste.

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 _____

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

CD2F 003

0 2 7 2

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: _____

This section does not apply to the Brooksville Facility because it is not yet burning hazardous waste.

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	172,300 gallons	unknown
Liquid Tanks	N/A	100,000 gallons	unknown
Other (specify)	N/A	N/A	N/A

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

CD2F 003

0 2 7 1 3

6b. What processing operations do you perform on-site for liquid wastes?[1]

This section does not apply to the Brooksville Facility because it does not now, nor does it anticipate, engaging in processing activities.

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

This section does not apply to the Brooksville Facility because it does not now, nor does it anticipate, engaging in processing activities.

[1] 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.

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

CD2F 003

0274

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.

This section does not apply to the Brooksville Facility because it does not now, nor does it anticipate, engaging in processing activities.

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				
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total				

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

CD2F 003

0 2 7 5

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: preheater, dry process

Clinker capacity (tons/hr): 50 tons/hr

Thermal input (Btu/ton clinker): 3.18 million Btu/ton

Type of cement product(s) produced in this kiln: * see below

Total hours operating per year on average: 8,060 hours/year

Type(s) of hazardous waste feed system(s) currently used with this kiln:
Hazardous waste is not currently being burned at the Brownsville Facility.

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

* Type 1 Portland cement, type 2 Portland cement, type 3 Portland cement, type 1-P Portland cement, high strength masonry cement, stucco masonry cement and masonry cement.

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

CD2F 003

0276

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.)

Hazardous waste is not currently being burned at the Brownsville Facility.

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: _____ (%)

Hazardous waste is not currently being burned at the Brownsville Facility.

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

CD2F 003

0 2 1 1

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					
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:
Hazardous waste is not currently being burned at the Brooksville Facility.

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

CD2F 003

0 2 7 8

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? There is no set time or duration for

How long? maintenance; it is performed on an as-needed basis. Each shut-down does average 4 to 7 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):
unknown

b) Physical changes (include planned schedule):
1. Installation of a single exhaust stack on kiln #1 mill baghouse (in progress).
2. Installation of tire and HWF pail injection mechanism in both kilns (will begin construction upon Florida DER's approval of testburn).

c) Regulatory modifications (include planned schedule):
1. RCRA Part B - interim status + permit issuance.
2. PSD - adjust nitrogen dioxide and sulfur dioxide levels.

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

CD2F 003

0219

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			

This section is not applicable because the Brooksville Facility is not currently burning hazardous waste.

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

CD2F 003

0280

"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			

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

CD2F 003

0 2 8 1

Liquid Waste Acceptance Limits As Burned

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			

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

CD2F 003

0 2 8 2

"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			

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

CD2F 003

0283

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: 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" 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			

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

CD2F 003

0284

"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			

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

CD2F 003

0285

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: 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" 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			

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

CD2F 003

0286

"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			

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

CD2F 003

0 2 8 7

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: 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" 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			

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

CD2F 003

0288

"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			

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

CD2F 003

0289

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: 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" 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			

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

CD2F 003

0290

"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			

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

CD2F 003

0 2 9 - 1

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			

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

CD2F 003

0292

"As Received" 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			

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

CD2F 003

0293

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.

"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			

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

CD2F 003

0294

"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			

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

CD2F 003

0295

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			

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

CD2F 003

0296

"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			

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

CD2F 003

0297

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			

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

CD2F 003

0298

"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			

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

CD2F 003

0299

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

CD2F 003

0 3 0 0

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			

"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			

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

CD2F 003

0 3 0 1

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

CD2F 003

0 3 8 2

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			

"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			

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

CD2F 003

0 3 0 3

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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)				
Personal Protection Equipment (e.g., Tyvex 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.				

This section is not applicable as the Brooksville Facility is not yet burning haz-ardous waste and, in fact, is not far enough into the permitting process to anticipate what debris would be accepted.

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

CD2F 003

0304

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

This section is not applicable because the Brooksville Facility is not currently burning hazardous waste.

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

This section is not applicable because the Brooksville Facility is not currently burning hazardous waste.

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

CD2F 003

0 3 0 5

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.

The Brooksville Facility does not yet have interim status

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.

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?

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

CD2F 003

0306

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 4, 404/347-3016	OT*	8/20/91
RCRA Storage	USEPA, Region 4 404/347-3016	ND	unknown
RCRA Treatment	Not Applicable	NR	—
Clean Air Act (PSD)	USEPA, Region 4 404/347-3016	OT[2]	unknown
Other (specify)			
State Hazardous Waste	Florida DER,	ND	unknown
Air Emission	Florida DER,	OT[2]	unknown
Land Use/Siting	Not Applicable	NR	—
Other (specify)			
Local Hazardous Waste	Not Applicable	NR	—
Air Emission	Not Applicable	NR	—
Land Use/Siting	Not Applicable	NR	
Other (specify)			

* Submit Certification of Compliance
*[2] Preparing permit modification

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

CD2F 003

0 3 0 1

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)?

August 25, 1991

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

CD2F 003

0 3 0 0

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

X 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):

Upon approval of Florida DEK of test burn.

b) Effect on hazardous waste capacity:

Allow kilns to burn solid HWF.

c) Modifications:

1. Install single exhaust stack on kiln #1 mill baghouse (in process)
2. Installation of tire and HWF pail injection mechanism in both kilns.

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

CD2F 003

0309

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

CD2F 003

SUPPLEMENTAL QUESTION SET
FOR ADDITIONAL KILNS

0 3 1 0

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: preheater, dry process

Clinker capacity (tons/hr): 50 tons/hour

Thermal input (Btu/ton clinker): 3.18 million Btu/ton

Type of cement product(s) produced in this kiln: * see below

Total hours operating per year on average: 8,060 hours/year

Type(s) of hazardous waste feed system(s) currently used with this kiln:
Hazardous waste is not currently being burned at the Brooksville facility.

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

* Type 1 Portland cement, type 2 Portland cement, type 3 Portland cement, type 1-P Portland cement, high strength masonry cement, stucco masonry cement and masonry cement.

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

CD2F 003

0 3 1 1

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.)

Hazardous waste is not currently being burned at the Brooksville Facility

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 solids originally generated as solids: _____ (%)

Hazardous waste is not currently being burned at the Brooksville Facility!

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

CD2F 003

0 3 1 2

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:

Hazardous waste is not currently being burned at the Brooksville Facility.

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

CD2F 003

0 3 1 3

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? There is no set time or duration for

How long? maintenance; it is performed on an as-needed basis. Each shut-down does average 4 to 7 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):
same as for Kiln #1

b) Physical changes (include planned schedule):
same as for Kiln #1

c) Regulatory modifications (include planned schedule):
same as for Kiln #1

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

CD2F 003

0 3 1 4

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

CD2F 003

0 3 1 5

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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)				
Paper or Cardboard Materials				
Filter Cartridges				
~~Wood Materials~~				
Rubber Objects (e.g., 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)				
Concrete Debris				
Refractory Brick				
Other Bricks				
Batteries				
Battery ~~Parts~~ Cases				
Printed Circuit Boards				
Electrical Wires ~~or~~ Switches ~~etc~~				
~~Other Electrical Components~~				

This section is not applicable because the Brookville Facility is not currently burning hazardous waste.

Southdown, Inc., Brooksville Facility - Attachment

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY	
F L D 0 7 2 5 4 3 0 1 0 1	W DUP	2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	D001	100,000	T	S01 S02 T04	
2	D004	--	T	S01 S02 T04	
3	D005	--	T	S01 S02 T04	
4	D006	--	T	S01 S02 T04	
5	D007	--	T	S01 S02 T04	
6	D008	--	T	S01 S02 T04	
7	D009	--	T	S01 S02 T04	
8	D010	--	T	S01 S02 T04	
9	D011	--	T	S01 S02 T04	
10	D012	--	T	S01 S02 T04	
11	D013	--	T	S01 S02 T04	
12	D014	--	T	S01 S02 T04	
13	D015	--	T	S01 S02 T04	
14	D016	--	T	S01 S02 T04	
15	D017	--	T	S01 S02 T04	
16	D018	--	T	S01 S02 T04	
17	D019	--	T	S01 S02 T04	
18	D020	--	T	S01 S02 T04	
19	D021	--	T	S01 S02 T04	
20	D022	--	T	S01 S02 T04	
21	D023	--	T	S01 S02 T04	
22	D024	--	T	S01 S02 T04	
23	D025	--	T	S01 S02 T04	
24	D026	--	T	S01 S02 T04	
25	D027	--	T	S01 S02 T04	
26	D028	--	T	S01 S02 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0316

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY	
T F L D 0 7 2 5 4 3 0 1 0 1	W DUP	2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (if a code is not entered in D(1))
1	D 0 2 9	1 0 0, 0 0 0	T	S 0 1 S 0 2 T 0 4	
2	D 0 3 0	**	T	S 0 1 S 0 2 T 0 4	
3	D 0 3 2	**	T	S 0 1 S 0 2 T 0 4	
4	D 0 3 3	**	T	S 0 1 S 0 2 T 0 4	
5	D 0 3 4	**	T	S 0 1 S 0 2 T 0 4	
6	D 0 3 5	**	T	S 0 1 S 0 2 T 0 4	
7	D 0 3 6	**	T	S 0 1 S 0 2 T 0 4	
8	D 0 3 7	**	T	S 0 1 S 0 2 T 0 4	
9	D 0 3 8	**	T	S 0 1 S 0 2 T 0 4	
10	D 0 3 9	**	T	S 0 1 S 0 2 T 0 4	
11	D 0 4 0	**	T	S 0 1 S 0 2 T 0 4	
12	D 0 4 1	**	T	S 0 1 S 0 2 T 0 4	
13	D 0 4 2	**	T	S 0 1 S 0 2 T 0 4	
14	D 0 4 3	**	T	S 0 1 S 0 2 T 0 4	
15	F 0 0 1	**	T	S 0 1 S 0 2 T 0 4	
16	F 0 0 2	**	T	S 0 1 S 0 2 T 0 4	
17	F 0 0 3	**	T	S 0 1 S 0 2 T 0 4	
18	F 0 0 4	**	T	S 0 1 S 0 2 T 0 4	
19	F 0 0 5	**	T	S 0 1 S 0 2 T 0 4	
20	F 0 2 4	**	T	S 0 1 S 0 2 T 0 4	
21	F 0 3 2	**	T	S 0 1 S 0 2 T 0 4	
22	F 0 3 4	**	T	S 0 1 S 0 2 T 0 4	
23	F 0 3 5	**	T	S 0 1 S 0 2 T 0 4	
24	F 0 3 7	**	T	S 0 1 S 0 2 T 0 4	
25	F 0 3 8	**	T	S 0 1 S 0 2 T 0 4	
26	K 0 0 1	**	T	S 0 1 S 0 2 T 0 4	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 1 1

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. 1. PROCESS CODES (enter)	D. 2. Process Description (If a code is not entered in D(1))
1	K009	100,000	T	S01 S02 T04	
2	K010	--	T	S01 S02 T04	
3	K011	--	T	S01 S02 T04	
4	K013	--	T	S01 S02 T04	
5	K014	--	T	S01 S02 T04	
6	K015	--	T	S01 S02 T04	
7	K016	--	T	S01 S02 T04	
8	K017	--	T	S01 S02 T04	
9	K018	--	T	S01 S02 T04	
10	K019	--	T	S01 S02 T04	
11	K020	--	T	S01 S02 T04	
12	K021	--	T	S01 S02 T04	
13	K022	--	T	S01 S02 T04	
14	K023	--	T	S01 S02 T04	
15	K024	--	T	S01 S02 T04	
16	K025	--	T	S01 S02 T04	
17	K026	--	T	S01 S02 T04	
18	K027	--	T	S01 S02 T04	
19	K028	--	T	S01 S02 T04	
20	K029	--	T	S01 S02 T04	
21	K030	--	T	S01 S02 T04	
22	K031	--	T	S01 S02 T04	
23	K032	--	T	S01 S02 T04	
24	K033	--	T	S01 S02 T04	
25	K034	--	T	S01 S02 T04	
26	K035	--	T	S01 S02 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0318

*NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	K 0 3 6	1 0 0, 0 0 0	T	S 0 1 S 0 2 T 0 4	
2	K 0 3 7	--	T	S 0 1 S 0 2 T 0 4	
3	K 0 3 8	--	T	S 0 1 S 0 2 T 0 4	
4	K 0 3 9	--	T	S 0 1 S 0 2 T 0 4	
5	K 0 4 0	--	T	S 0 1 S 0 2 T 0 4	
6	K 0 4 1	--	T	S 0 1 S 0 2 T 0 4	
7	K 0 4 2	--	T	S 0 1 S 0 2 T 0 4	
8	K 0 4 3	--	T	S 0 1 S 0 2 T 0 4	
9	K 0 4 6	--	T	S 0 1 S 0 2 T 0 4	
10	K 0 4 7	--	T	S 0 1 S 0 2 T 0 4	
11	K 0 4 8	--	T	S 0 1 S 0 2 T 0 4	
2	K 0 4 9	--	T	S 0 1 S 0 2 T 0 4	
13	K 0 5 0	--	T	S 0 1 S 0 2 T 0 4	
14	K 0 5 1	--	T	S 0 1 S 0 2 T 0 4	
15	K 0 5 2	--	T	S 0 1 S 0 2 T 0 4	
16	K 0 6 0	--	T	S 0 1 S 0 2 T 0 4	
17	K 0 6 1	--	T	S 0 1 S 0 2 T 0 4	
18	K 0 6 2	--	T	S 0 1 S 0 2 T 0 4	
19	K 0 6 9	--	T	S 0 1 S 0 2 T 0 4	
20	K 0 7 3	--	T	S 0 1 S 0 2 T 0 4	
21	K 0 8 3	--	T	S 0 1 S 0 2 T 0 4	
22	K 0 8 5	--	T	S 0 1 S 0 2 T 0 4	
23	K 0 8 6	--	T	S 0 1 S 0 2 T 0 4	
24	K 0 8 7	--	T	S 0 1 S 0 2 T 0 4	
25	K 0 8 8	--	T	S 0 1 S 0 2 T 0 4	
26	K 0 9 3	--	T	S 0 1 S 0 2 T 0 4	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0319

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. PROCESS CODES (enter)				2. Process Description (If a code is not entered in D(1))
1	K094	100,000	T	S01	S02	T04		
2	K095	**	T	S01	S02	T04		
3	K096	**	T	S01	S02	T04		
4	K097	**	T	S01	S02	T04		
5	K098	**	T	S01	S02	T04		
6	K099	**	T	S01	S02	T04		
7	K101	**	T	S01	S02	T04		
8	K102	**	T	S01	S02	T04		
9	K103	**	T	S01	S02	T04		
10	K104	**	T	S01	S02	T04		
11	K105	**	T	S01	S02	T04		
12	K106	**	T	S01	S02	T04		
13	K111	**	T	S01	S02	T04		
14	K112	**	T	S01	S02	T04		
15	K113	**	T	S01	S02	T04		
16	K114	**	T	S01	S02	T04		
17	K115	**	T	S01	S02	T04		
18	K116	**	T	S01	S02	T04		
19	K117	**	T	S01	S02	T04		
20	K118	**	T	S01	S02	T04		
21	K123	**	T	S01	S02	T04		
22	K124	**	T	S01	S02	T04		
23	K125	**	T	S01	S02	T04		
24	K126	**	T	S01	S02	T04		
25	K136	**	T	S01	S02	T04		
26	P001	**	T	S01	S02	T04		

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0320

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)		FOR OFFICIAL USE ONLY	
F L D 0 7 2 5 4 3 0 1 0	1	W DUP	2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	P002	100,000	T	S01 S02 T04	
2	P003	—	T	S01 S02 T04	
3	P004	—	T	S01 S02 T04	
4	P005	—	T	S01 S02 T04	
5	P007	—	T	S01 S02 T04	
6	P008	—	T	S01 S02 T04	
7	P014	—	T	S01 S02 T04	
8	P016	—	T	S01 S02 T04	
9	P017	—	T	S01 S02 T04	
10	P018	—	T	S01 S02 T04	
11	P020	—	T	S01 S02 T04	
2	P022	—	T	S01 S02 T04	
13	P023	—	T	S01 S02 T04	
14	P024	—	T	S01 S02 T04	
15	P026	—	T	S01 S02 T04	
16	P027	—	T	S01 S02 T04	
17	P028	—	T	S01 S02 T04	
18	P034	—	T	S01 S02 T04	
19	P037	—	T	S01 S02 T04	
20	P039	—	T	S01 S02 T04	
21	P040	—	T	S01 S02 T04	
22	P041	—	T	S01 S02 T04	
23	P042	—	T	S01 S02 T04	
24	P043	—	T	S01 S02 T04	
25	P044	—	T	S01 S02 T04	
26	P045	—	T	S01 S02 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 2 1

NOTE: Photocopy this page before completing if you have more than 24 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1)).
1	P 0 4 6	1 0 0, 0 0 0	T	S 0 1 S 0 2 T 0 4	
2	P 0 4 7	**	T	S 0 1 S 0 2 T 0 4	
3	P 0 4 8	**	T	S 0 1 S 0 2 T 0 4	
4	P 0 4 9	**	T	S 0 1 S 0 2 T 0 4	
5	P 0 5 0	**	T	S 0 1 S 0 2 T 0 4	
6	P 0 5 1	**	T	S 0 1 S 0 2 T 0 4	
7	P 0 5 4	**	T	S 0 1 S 0 2 T 0 4	
8	P 0 5 7	**	T	S 0 1 S 0 2 T 0 4	
9	P 0 5 8	**	T	S 0 1 S 0 2 T 0 4	
10	P 0 5 9	**	T	S 0 1 S 0 2 T 0 4	
11	P 0 6 0	**	T	S 0 1 S 0 2 T 0 4	
2	P 0 6 2	**	T	S 0 1 S 0 2 T 0 4	
13	P 0 6 4	**	T	S 0 1 S 0 2 T 0 4	
14	P 0 6 6	**	T	S 0 1 S 0 2 T 0 4	
15	P 0 6 7	**	T	S 0 1 S 0 2 T 0 4	
16	P 0 6 9	**	T	S 0 1 S 0 2 T 0 4	
17	P 0 7 0	**	T	S 0 1 S 0 2 T 0 4	
18	P 0 7 1	**	T	S 0 1 S 0 2 T 0 4	
19	P 0 7 2	**	T	S 0 1 S 0 2 T 0 4	
20	P 0 7 5	**	T	S 0 1 S 0 2 T 0 4	
21	P 0 7 7	**	T	S 0 1 S 0 2 T 0 4	
22	P 0 8 1	**	T	S 0 1 S 0 2 T 0 4	
23	P 0 8 2	**	T	S 0 1 S 0 2 T 0 4	
24	P 0 8 4	**	T	S 0 1 S 0 2 T 0 4	
25	P 0 8 5	**	T	S 0 1 S 0 2 T 0 4	
26	P 0 8 8	**	T	S 0 1 S 0 2 T 0 4	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 7 7 2 2

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. Process Codes (enter) 1.	2.	3.	4.	2. Process Description (If a code is not entered in D(1))
1	P089	100,000	T	S01	S02	T04		
2	P092	**	T	S01	S02	T04		
3	P093	**	T	S01	S02	T04		
4	P094	**	T	S01	S02	T04		
5	P095	**	T	S01	S02	T04		
6	P096	**	T	S01	S02	T04		
7	P097	**	T	S01	S02	T04		
8	P102	**	T	S01	S02	T04		
9	P103	**	T	S01	S02	T04		
10	P108	**	T	S01	S02	T04		
11	P109	**	T	S01	S02	T04		
12	P110	**	T	S01	S02	T04		
13	P111	**	T	S01	S02	T04		
14	P112	**	T	S01	S02	T04		
15	P116	**	T	S01	S02	T04		
16	P118	**	T	S01	S02	T04		
17	P122	**	T	S01	S02	T04		
18	P123	**	T	S01	S02	T04		
19	U001	**	T	S01	S02	T04		
20	U002	**	T	S01	S02	T04		
21	U003	**	T	S01	S02	T04		
22	U004	**	T	S01	S02	T04		
23	U005	**	T	S01	S02	T04		
24	U006	**	T	S01	S02	T04		
25	U007	**	T	S01	S02	T04		
26	U010	**	T	S01	S02	T04		

PA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 2 3

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	U 0 1 1	1 0 0, 0 0 0	T	S 0 1 S 0 2 T 0 4	
2	U 0 1 2	**	T	S 0 1 S 0 2 T 0 4	
3	U 0 1 4	**	T	S 0 1 S 0 2 T 0 4	
4	U 0 1 5	**	T	S 0 1 S 0 2 T 0 4	
5	U 0 1 6	**	T	S 0 1 S 0 2 T 0 4	
6	U 0 1 7	**	T	S 0 1 S 0 2 T 0 4	
7	U 0 1 8	**	T	S 0 1 S 0 2 T 0 4	
8	U 0 1 9	**	T	S 0 1 S 0 2 T 0 4	
9	U 0 2 1	**	T	S 0 1 S 0 2 T 0 4	
10	U 0 2 2	**	T	S 0 1 S 0 2 T 0 4	
11	U 0 2 3	**	T	S 0 1 S 0 2 T 0 4	
	U 0 2 4	**	T	S 0 1 S 0 2 T 0 4	
13	U 0 2 5	**	T	S 0 1 S 0 2 T 0 4	
14	U 0 2 6	**	T	S 0 1 S 0 2 T 0 4	
15	U 0 2 7	**	T	S 0 1 S 0 2 T 0 4	
16	U 0 2 8	**	T	S 0 1 S 0 2 T 0 4	
17	U 0 2 9	**	T	S 0 1 S 0 2 T 0 4	
18	U 0 3 0	**	T	S 0 1 S 0 2 T 0 4	
19	U 0 3 1	**	T	S 0 1 S 0 2 T 0 4	
20	U 0 3 4	**	T	S 0 1 S 0 2 T 0 4	
21	U 0 3 6	**	T	S 0 1 S 0 2 T 0 4	
22	U 0 3 7	**	T	S 0 1 S 0 2 T 0 4	
23	U 0 3 8	**	T	S 0 1 S 0 2 T 0 4	
24	U 0 3 9	**	T	S 0 1 S 0 2 T 0 4	
25	U 0 4 1	**	T	S 0 1 S 0 2 T 0 4	
26	U 0 4 2	**	T	S 0 1 S 0 2 T 0 4	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 2 4

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-580004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	U043	100,000	T	S01 S02 T04	
2	U044	**	T	S01 S02 T04	
3	U045	**	T	S01 S02 T04	
4	U046	**	T	S01 S02 T04	
5	U047	**	T	S01 S02 T04	
6	U048	**	T	S01 S02 T04	
7	U050	**	T	S01 S02 T04	
8	U051	**	T	S01 S02 T04	
9	U052	**	T	S01 S02 T04	
10	U053	**	T	S01 S02 T04	
11	U055	**	T	S01 S02 T04	
12	U056	**	T	S01 S02 T04	
13	U057	**	T	S01 S02 T04	
14	U058	**	T	S01 S02 T04	
15	U059	**	T	S01 S02 T04	
16	U060	**	T	S01 S02 T04	
17	U061	**	T	S01 S02 T04	
18	U062	**	T	S01 S02 T04	
19	U063	**	T	S01 S02 T04	
20	U064	**	T	S01 S02 T04	
21	U066	**	T	S01 S02 T04	
22	U067	**	T	S01 S02 T04	
23	U068	**	T	S01 S02 T04	
24	U069	**	T	S01 S02 T04	
25	U070	**	T	S01 S02 T04	
26					

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0325

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	U071	100,000	T	S01 S02 T04	
2	U072	**	T	S01 S02 T04	
3	U073	**	T	S01 S02 T04	
4	U074	**	T	S01 S02 T04	
5	U075	**	T	S01 S02 T04	
6	U076	**	T	S01 S02 T04	
7	U077	**	T	S01 S02 T04	
8	U078	**	T	S01 S02 T04	
9	U079	**	T	S01 S02 T04	
10	U080	**	T	S01 S02 T04	
11	U081	**	T	S01 S02 T04	
12	U082	**	T	S01 S02 T04	
13	U083	**	T	S01 S02 T04	
14	U084	**	T	S01 S02 T04	
15	U085	**	T	S01 S02 T04	
16	U086	**	T	S01 S02 T04	
17	U087	**	T	S01 S02 T04	
18	U088	**	T	S01 S02 T04	
19	U089	**	T	S01 S02 T04	
20	U090	**	T	S01 S02 T04	
21	U091	**	T	S01 S02 T04	
22	U093	**	T	S01 S02 T04	
23	U094	**	T	S01 S02 T04	
24	U095	**	T	S01 S02 T04	
25	U097	**	T	S01 S02 T04	
26	U098	**	T	S01 S02 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0376

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	U099	100,000	T	S01 S02 T04	
2	U101	**	T	S01 S02 T04	
3	U102	**	T	S01 S02 T04	
4	U103	**	T	S01 S02 T04	
5	U105	**	T	S01 S02 T04	
6	U106	**	T	S01 S02 T04	
7	U107	**	T	S01 S02 T04	
8	U108	**	T	S01 S02 T04	
9	U111	**	T	S01 S02 T04	
10	U112	**	T	S01 S02 T04	
11	U113	**	T	S01 S02 T04	
12	U114	**	T	S01 S02 T04	
13	U115	**	T	S01 S02 T04	
14	U116	**	T	S01 S02 T04	
15	U117	**	T	S01 S02 T04	
16	U118	**	T	S01 S02 T04	
17	U119	**	T	S01 S02 T04	
18	U120	**	T	S01 S02 T04	
19	U121	**	T	S01 S02 T04	
20	U122	**	T	S01 S02 T04	
21	U123	**	T	S01 S02 T04	
22	U124	**	T	S01 S02 T04	
23	U125	**	T	S01 S02 T04	
24	U126	**	T	S01 S02 T04	
25	U127	**	T	S01 S02 T04	
26	U128	**	T	S01 S02 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 0 2 2 1

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-580004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. 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	U129	100,000	T	S01 S02 T04	
2	U130	**	T	S01 S02 T04	
3	U131	**	T	S01 S02 T04	
4	U132	**	T	S01 S02 T04	
5	U134	**	T	S01 S02 T04	
6	U135	**	T	S01 S02 T04	
7	U137	**	T	S01 S02 T04	
8	U138	**	T	S01 S02 T04	
9	U139	**	T	S01 S02 T04	
10	U140	**	T	S01 S02 T04	
11	U141	**	T	S01 S02 T04	
2	U142	**	T	S01 S02 T04	
13	U143	**	T	S01 S02 T04	
14	U144	**	T	S01 S02 T04	
15	U145	**	T	S01 S02 T04	
16	U146	**	T	S01 S02 T04	
17	U147	**	T	S01 S02 T04	
18	U148	**	T	S01 S02 T04	
19	U149	**	T	S01 S02 T04	
20	U150	**	T	S01 S02 T04	
21	U152	**	T	S01 S02 T04	
22	U153	**	T	S01 S02 T04	
23	U154	**	T	S01 S02 T04	
24	U155	**	T	S01 S02 T04	
25	U156	**	T	S01 S02 T04	
26	U157	**	T	S01 S02 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 7 8

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

V. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	U 1 5 8	1 0 0, 0 0 0	T	S 0 1 S 0 2 T 0 4	
2	U 1 5 9	**	T	S 0 1 S 0 2 T 0 4	
3	U 1 6 0	**	T	S 0 1 S 0 2 T 0 4	
4	U 1 6 1	**	T	S 0 1 S 0 2 T 0 4	
5	U 1 6 2	**	T	S 0 1 S 0 2 T 0 4	
6	U 1 6 3	**	T	S 0 1 S 0 2 T 0 4	
7	U 1 6 4	**	T	S 0 1 S 0 2 T 0 4	
8	U 1 6 5	**	T	S 0 1 S 0 2 T 0 4	
9	U 1 6 6	**	T	S 0 1 S 0 2 T 0 4	
10	U 1 6 7	**	T	S 0 1 S 0 2 T 0 4	
	U 1 6 8	**	T	S 0 1 S 0 2 T 0 4	
12	U 1 6 9	**	T	S 0 1 S 0 2 T 0 4	
13	U 1 7 0	**	T	S 0 1 S 0 2 T 0 4	
14	U 1 7 1	**	T	S 0 1 S 0 2 T 0 4	
15	U 1 7 2	**	T	S 0 1 S 0 2 T 0 4	
16	U 1 7 3	**	T	S 0 1 S 0 2 T 0 4	
17	U 1 7 4	**	T	S 0 1 S 0 2 T 0 4	
18	U 1 7 6	**	T	S 0 1 S 0 2 T 0 4	
19	U 1 7 7	**	T	S 0 1 S 0 2 T 0 4	
20	U 1 7 8	**	T	S 0 1 S 0 2 T 0 4	
21	U 1 7 9	**	T	S 0 1 S 0 2 T 0 4	
22	U 1 8 0	**	T	S 0 1 S 0 2 T 0 4	
23	U 1 8 1	**	T	S 0 1 S 0 2 T 0 4	
24	U 1 8 2	**	T	S 0 1 S 0 2 T 0 4	
25	U 1 8 3	**	T	S 0 1 S 0 2 T 0 4	
26	U 1 8 4	**	T	S 0 1 S 0 2 T 0 4	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0329

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S30004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. 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	U185	100,000	T	S01 S02 T04	
2	U186	**	T	S01 S02 T04	
3	U187	**	T	S01 S02 T04	
4	U188	**	T	S01 S02 T04	
5	U190	**	T	S01 S02 T04	
6	U191	**	T	S01 S02 T04	
7	U192	**	T	S01 S02 T04	
8	U193	**	T	S01 S02 T04	
9	U194	**	T	S01 S02 T04	
10	U196	**	T	S01 S02 T04	
11	U197	**	T	S01 S02 T04	
.	U200	**	T	S01 S02 T04	
13	U201	**	T	S01 S02 T04	
14	U202	**	T	S01 S02 T04	
15	U203	**	T	S01 S02 T04	
16	U206	**	T	S01 S02 T04	
17	U207	**	T	S01 S02 T04	
18	U208	**	T	S01 S02 T04	
19	U209	**	T	S01 S02 T04	
20	U210	**	T	S01 S02 T04	
21	U211	**	T	S01 S02 T04	
22	U213	**	T	S01 S02 T04	
23	U218	**	T	S01 S02 T04	
24	U219	**	T	S01 S02 T04	
25	U220	**	T	S01 S02 T04	
26	U221	**	T	S01 S02 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0330

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
F L D 0 7 2 5 4 3 0 1 0 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	U 2 2 2	1 0 0, 0 0 0	T	S 0 1 S 0 2 T 0 4	
2	U 2 2 3	**	T	S 0 1 S 0 2 T 0 4	
3	U 2 2 5	**	T	S 0 1 S 0 2 T 0 4	
4	U 2 2 6	**	T	S 0 1 S 0 2 T 0 4	
5	U 2 2 7	**	T	S 0 1 S 0 2 T 0 4	
6	U 2 2 8	**	T	S 0 1 S 0 2 T 0 4	
7	U 2 3 1	**	T	S 0 1 S 0 2 T 0 4	
8	U 2 3 4	**	T	S 0 1 S 0 2 T 0 4	
9	U 2 3 5	**	T	S 0 1 S 0 2 T 0 4	
10	U 2 3 6	**	T	S 0 1 S 0 2 T 0 4	
11	U 2 3 7	**	T	S 0 1 S 0 2 T 0 4	
12	U 2 3 8	**	T	S 0 1 S 0 2 T 0 4	
13	U 2 3 9	**	T	S 0 1 S 0 2 T 0 4	
14	U 2 4 3	**	T	S 0 1 S 0 2 T 0 4	
15	U 2 4 8	**	T	S 0 1 S 0 2 T 0 4	
16	U 3 2 8	**	T	S 0 1 S 0 2 T 0 4	
17	U 3 5 3	**	T	S 0 1 S 0 2 T 0 4	
18	U 3 5 9	**	T	S 0 1 S 0 2 T 0 4	
19					
20					
21					
22					
23					
24					
25					
26					

*PA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 3 1

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

CD2F 003

0 3 3 2

Contact: Jeff Kaboly, Environmental Specialist

Company: Keystone Cement Co.

Phone: (215) 837-1881

Date: 26 August, 1991

Caller: Lisette Lambregts

Subject: Metals limits in HW fuel, Kiln #1 capacity

Report of Discussion:

The limit of metals content in their hazardous waste fuel was given in lb/mmBtu. Mr. Kaboly explained that this was pounds of metals, per 10^6 Btu hazardous waste feed.

Kiln #1 is just a very small kiln, that is limited to about 10 gallons of hazardous waste fuel per minute. It is not used continuously and has been down about four months so far this year.

Contact: Mike Cawthray

Company: ESSROC

Phone: (215) 837-6725

Date: 24 September, 1991

Caller: Lisette Lambregts

Subject: Clarify CKRC Survey response.

Report of Discussion:

Mr. Cawthray explained that kilns 1 and 2 in the survey response were two San Juan Cement kilns, 3 and 4 were two Logansport, Indiana kilns, and kiln 5 was a Speed, Indiana kiln.

The ESSROC survey response contained both a minimum and a maximum limit for heat content. Mr. Cawthray explained that those limits were taken directly off contracts, so represent typical ranges of hazardous waste fuel feed, but not actual maximum limits.

Mr. Cawthray does not believe that certifying compliance with BIF requirements will change their minimum Btu limits, especially minimum heat content for liquids, because liquid fuels with 5,000 Btu and lower contain alot of water, which has an adverse effect on kiln operation.

The Logansport kilns together burned 5.5 million gallons of hazardous waste fuel, up to 21 August, 1991. Mr. Cawthray said they use 8.1 lb/gallon as the density of their fuel. This corresponds to 17,402 tons per year per kiln by the following calculation:

	5,500,000 gallons
÷	0.64 year
x	8.1 lb/gallon
x	1 ton/2000 lb
÷	2 kilns
	17,402 tons per year per kiln

The Speed facility's kiln reported on in the CKRC Survey response is not currently burning hazardous waste.. Mr. Cawthray offered a capacity estimate of 108,000 tons per year, as reported by their public notice. The facility is planning to burn containerized solids. Mr. Cawthray did not know when they were planning to begin, and suggested Craig Walquist at Cadence would.

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

CD2F 003

0 3 3 3

Contact: Craig Walquist

Company: Cadence

Phone: (219) 873-3113

Date: 24 September, 1991

Caller: Lisette Lambregts

Subject: Timing of ESSROC, Speed, Indiana's containerized solid waste fuel burning program.

Report of Discussion:

Mr. Walquist estimates that they could begin within a year. He indicated that the timing is now dependent on EPA permit processing.

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

CD2F 003

0 3 3 4

Contact: Mr. Michael Benoit, Vice President of Environmental Affairs and Technical Development

Company: Cadence Chemical Resources, and CKRC

Phone: (401) 397-3890

Caller: Gary Light

Subject: Bromine limits for cement kilns that burn hazardous wastes

Report of Discussion:

To assess potential limitations on available capacity for K117 and K118, which typically contain bromine, we contacted Mr. Benoit to discuss general bromine feed limits for cement kilns that burn hazardous wastes as fuel.

Mr. Benoit indicated that bromine does not present a particular problem for cement kilns, but that cement kilns typically must comply with permit limits on total halogens contained in waste fuels. This limit typically requires that wastes as fed to kilns contain no more than 5 percent total halogens. This limit does, however, vary from facility to facility, and Mr. Benoit is aware of limits as low as 2.5 percent. Mr. Benoit further indicated that it is common for cement kilns or intermediate fuel blenders to blend wastes into fuels that meet desired specifications. In amounts less than 5,000 tons per year, waste streams containing close to 100 percent bromine could be blended into the large volumes of other wastes currently going to many cement kilns.

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

CD2F 003

0 3 3 5

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

CD2F 003

0 3 3 6

A. **Facility Information**

1. Respondent Name and Title:
Leslie M. Cook, Permitting Analyst

Company:
Southdown Environmental Systems

Phone number:
713) 653-7037

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

Facility name, location, and address:
Southdown, Inc., Fairborn Facility, 506 E. Xenia Drive, P.O. Box 191, Fairborn, Ohio 45324

EPA ID of burner: OHD004232930

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: NONE

EPA ID of other on-site hazardous waste transporter: NONE
marketer: NONE
storer: NONE

3. Number of kilns currently burning hazardous wastes at this facility: 1
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): 1

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 Chemical Waste Management
Processor 2 West Carrollton, Ohio 513/859-6107
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 _____

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

CD2F 003

0 3 3 7

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
X 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	N/A	N/A
Liquid in Tanks gallons	120,000 by design 102,000 working	N/A	N/A
Other (specify)			

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

CD2F 003

0338

6b. What processing operations do you perform on-site for liquid wastes?[1]

The Fairborn Facility does not engage in any processing activities.

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

The Fairborn Facility does not engage in any processing activities.

[1] 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.

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

CD2F 003

0339

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.

This section does not apply as the Fairworn Facility does not engage in processing activities.

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				
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total				

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

CD2F 003

0 3 4 0

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: Dry Preheater

Clinker capacity (tons/hr): 85-90 tons/hour

Thermal input (Btu/ton clinker): 3.3-3.5 million Btu/ton

Type of cement product(s) produced in this kiln: * see below

Total hours operating per year on average: 7,500 hours/year

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) ___

* Type I, Type IA, Type 2, Type III, Block, Type K, Type N, Type S and Type M.

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

CD2F 003

0341

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	2,866 tons	25,000 tons/year	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	2,866 tons	25,000 tons/year	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): <25 (%)
Percent of above solids originally generated as solids: unknown (%)

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

CD2F 003

0 3 4 2

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	6,750 lb/hr	24 hr/day	310 days/yr	11,000 Btu/lb	30% (50% permitted)
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:

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

CD2F 003

0343

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 and October

How long? Two to three weeks each

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.

N/A

a) When (year and month or quarter):

b) Physical changes (include planned schedule):

c) Regulatory modifications (include planned schedule):

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

CD2F 003

0344

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	10,000 Btu/lb		T
Water Content	< 1.0		T
Total Solids Content	30%		T
Total Inorganics Content ash	14%		T
Particle/Object Size	pumpable		T
Cyanide Content	not accepted		P
Sulfur Content	< 1%		T
Sodium Content			
Potassium Content			
Other (Specify) pH	>4, < 11		T
Other (Specify) density	< 9.83 lb/gal		
Total Halogen Content	< 1.8%		R
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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

CD2F 003

0345

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides	Not accepted		R
Fungicides	Not accepted		R
Herbicides	Not accepted		R
Insecticides	Not accepted		R
Rodenticides	Not accepted		R
Other: Specify			
Total Specified Metals Content			
Antimony Content	90 ppm		
Arsenic Content	75 ppm		
Barium Content	3,000 ppm		
Beryllium Content	9 ppm		
Cadmium Content	150 ppm		
Chromium Content	1,500 ppm		
Copper Content			
Lead Content	2,500 ppm		
Mercury Content	9 ppm		
Nickel Content	1,000 ppm		
Selenium Content			
Silver Content	160 ppm		
Thallium Content	19 ppm		
Vanadium Content			
Zinc Content	3,000 ppm		
Other: Specify Benzene	< .5 ppm		
Other: Specify PCB	< 50 ppm		

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

CD2F 003

0 3 4 6

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			

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

CD2F 003

0 3 4 7

"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			

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

CD2F 003

0 3 4 8

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: 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" 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			

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

CD2F 003

0349

"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			

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

CD2F 003

0350

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: 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" 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			

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

CD2F 003

0 3 5 1

"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			

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

CD2F 003

0 3 5 2

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: 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" 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			

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

CD2F 003

0 3 5 3

"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			

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

CD2F 003

0354

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

CD2F 003

0355

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: 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" 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			

"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			

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

CD2F 003

0356

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			

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

CD2F 003

0 3 5 1

"As Received" 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			

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

CD2F 003

0358

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.

"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			

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

CD2F 003

0 3 5 9

"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			

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

CD2F 003

0 2 6 0

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			

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

CD2F 003

0 3 6 1

"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			

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

CD2F 003

0 3 6 2

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			

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

CD2F 003

0 0 9 6 3

"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			

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

CD2F 003

0 3 9 4

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			

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

CD2F 003

0365

"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			

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

CD2F 003

0366

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			

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

CD2F 003

0367

"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			

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

CD2F 003

0368

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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	N		
Personal Protection Equipment (e.g., Tyvex suits)	N	N		
Paper or Cardboard Materials	N	N		
Filter Cartridges	N	N		
Wood Materials	N	N		
Rubber Objects (e.g., tires, hoses)	N	N		
PVC Pipe	N	N		
Other Plastic Debris	N	N		
Glass Debris	N	N		
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	N		
Intact Batteries	N	N		
Battery Cases	N	N		
Electronic Components (e.g., printed circuit boards)	N	N		
Electrical Wires, Switches, etc.	N	N		

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

CD2F 003

0369

20. Please explain any debris acceptance conditions noted on the previous page:
No solids are accepted by the Fairborn Facility.

20a. Do you accept soils? If so, under what conditions or limitations?
No solids are accepted by the Fairborn Facility.

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

CD2F 003

0 3 7 0

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.

D-listed metal codes, D001, F001, F002, F003 and 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).

See attachment.

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?

Get final approval on modifications made to Ohio EPA air permit.

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

CD2F 003

0 3 7 1 1

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 5,	OT*	8/20/91
RCRA Storage	USEPA Region 5,	IS	
RCRA Treatment	Not Applicable	NR	—
Clean Air Act (PSD)	Not Applicable	NR	—
Other (specify)			
State Hazardous Waste	Ohio EPA, 615/466-2000	SA	
Air Emission	Ohio EPA, 615/466-2000	MA	
Land Use/Siting	Not Applicable	NR	—
Other (specify)			
Local Hazardous Waste	Not Applicable	NR	—
Air Emission	RAPCA, 513/225-4435	OT**	
Land Use/Siting	Not Applicable	NR	—
Other (specify)			

* Submit certification of compliance.
** Permit renewal process.

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

CD2F 003

0 3 7 2

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.

None required.

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

August 23, 1991

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

CD2F 003

0 3 7 1 3

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

_____ Yes
X 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):

No modifications are planned prior to 1994.

b) Effect on hazardous waste capacity:

c) Modifications:

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

CD2F 003

0 3 7 4

Southdown, Inc. - Fairborn facility Attachment

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W V H D 9 8 1 1 9 5 7 7 9 - 1	W DUP 2 DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (if a code is not entered in D(1))
1	D001	81,000	T	S01 S02 T04	
2	D002	**	T	S01 S02 T04	
3	D004	**	T	S01 S02 T04	
4	D005	**	T	S01 S02 T04	
5	D006	**	T	S01 S02 T04	
6	D007	**	T	S01 S02 T04	
7	D008	**	T	S01 S02 T04	
8	D009	**	T	S01 S02 T04	
9	D010	**	T	S01 S02 T04	
10	D011	**	T	S01 S02 T04	
11	D018	**	T	S01 S02 T04	
12	D019	**	T	S01 S02 T04	
13	D021	**	T	S01 S02 T04	
14	D022	**	T	S01 S02 T04	
15	D023	**	T	S01 S02 T04	
16	D024	**	T	S01 S02 T04	
17	D025	**	T	S01 S02 T04	
18	D026	**	T	S01 S02 T04	
19	D027	**	T	S01 S02 T04	
20	D028	**	T	S01 S02 T04	
21	D029	**	T	S01 S02 T04	
22	D030	**	T	S01 S02 T04	
23	D032	**	T	S01 S02 T04	
24	D033	**	T	S01 S02 T04	
25	D034	**	T	S01 S02 T04	
26	D035	**	T	S01 S02 T04	

Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 7 5

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
T U H D 9 8 1 1 9 5 7 7 9 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	D036	81,000	T	S01 S02 T04	
2	D037	**	T	S01 S02 T04	
3	D038	**	T	S01 S02 T04	
4	D039	**	T	S01 S02 T04	
5	D040	**	T	S01 S02 T04	
6	D043	**	T	S01 S02 T04	
7	F001	**	T	S01 S02 T04	
8	F002	**	T	S01 S02 T04	
9	F003	**	T	S01 S02 T04	
10	F004	**	T	S01 S02 T04	
11	F005	**	T	S01 S02 T04	
12	F006	**	T	S01 S02 T04	
13	F019	**	T	S01 S02 T04	
14	F024	**	T	S01 S02 T04	
15	F025	**	T	S01 S02 T04	
16	F032	**	T	S01 S02 T04	
17	F034	**	T	S01 S02 T04	
18	F035	**	T	S01 S02 T04	
19	F037	**	T	S01 S02 T04	
20	F038	**	T	S01 S02 T04	
21	F039	**	T	S01 S02 T04	
22	K001	**	T	S01 S02 T04	
23	K002	**	T	S01 S02 T04	
24	K003	**	T	S01 S02 T04	
25	K004	**	T	S01 S02 T04	
26	K005	**	T	S01 S02 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 2 7 6

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)		FOR OFFICIAL USE ONLY	
W O H D 9 8 1 1 9 5 7 7 9	1	W DUP	2 DUP

D. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
	K006	81,000	T	S01 S02 T04	
2	K007	**	T	S01 S02 T04	
	K008	**	T	S01 S02 T04	
4	K009	**	T	S01 S02 T04	
	K010	**	T	S01 S02 T04	
6	K011	**	T	S01 S02 T04	
	K013	**	T	S01 S02 T04	
8	K014	**	T	S01 S02 T04	
	K015	**	T	S01 S02 T04	
10	K016	**	T	S01 S02 T04	
11	K017	**	T	S01 S02 T04	
12	K018	**	T	S01 S02 T04	
	K019	**	T	S01 S02 T04	
14	K020	**	T	S01 S02 T04	
	K022	**	T	S01 S02 T04	
16	K023	**	T	S01 S02 T04	
	K024	**	T	S01 S02 T04	
18	K025	**	T	S01 S02 T04	
19	K026	**	T	S01 S02 T04	
20	K028	**	T	S01 S02 T04	
21	K029	**	T	S01 S02 T04	
22	K030	**	T	S01 S02 T04	
23	K035	**	T	S01 S02 T04	
24	K048	**	T	S01 S02 T04	
25	K049	**	T	S01 S02 T04	
26					

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0377

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
O H D 9 8 1 1 9 5 7 7 9 1	W DUP 2 DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. 1. PROCESS CODES (enter)	D. 2. Process Description (If a code is not entered in D(1))
1	K 0 5 0	81,000	T	S 0 1 S 0 2 T 0 4	
2	K 0 5 1	**	T	S 0 1 S 0 2 T 0 4	
3	K 0 5 2	**	T	S 0 1 S 0 2 T 0 4	
4	K 0 6 1	**	T	S 0 1 S 0 2 T 0 4	
5	K 0 6 2	**	T	S 0 1 S 0 2 T 0 4	
6	K 0 8 3	**	T	S 0 1 S 0 2 T 0 4	
7	K 0 8 5	**	T	S 0 1 S 0 2 T 0 4	
8	K 0 8 6	**	T	S 0 1 S 0 2 T 0 4	
9	K 0 8 7	**	T	S 0 1 S 0 2 T 0 4	
10	K 0 8 8	**	T	S 0 1 S 0 2 T 0 4	
11	K 0 9 3	**	T	S 0 1 S 0 2 T 0 4	
12	K 0 9 4	**	T	S 0 1 S 0 2 T 0 4	
13	K 0 9 5	**	T	S 0 1 S 0 2 T 0 4	
14	K 0 9 6	**	T	S 0 1 S 0 2 T 0 4	
15	K 1 0 3	**	T	S 0 1 S 0 2 T 0 4	
16	K 1 0 4	**	T	S 0 1 S 0 2 T 0 4	
17	K 1 0 5	**	T	S 0 1 S 0 2 T 0 4	
18	P 0 0 5	**	T	S 0 1 S 0 2 T 0 4	
19	P 0 2 2	**	T	S 0 1 S 0 2 T 0 4	
20	P 0 2 8	**	T	S 0 1 S 0 2 T 0 4	
21	P 0 7 7	**	T	S 0 1 S 0 2 T 0 4	
22	U 0 0 1	**	T	S 0 1 S 0 2 T 0 4	
23	U 0 0 2	**	T	S 0 1 S 0 2 T 0 4	
24	U 0 0 3	**	T	S 0 1 S 0 2 T 0 4	
25	U 0 0 4	**	T	S 0 1 S 0 2 T 0 4	
26	U 0 0 9	**	T	S 0 1 S 0 2 T 0 4	

Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 7 8

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)		FOR OFFICIAL USE ONLY	
T. .	H D 9 8 1 1 9 5 7 7 9 1	W DUP	2 DUP

D. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	U 0 1 2	81,000	T	S 0 1 S 0 2 T 0 4	
	U 0 1 7	**	T	S 0 1 S 0 2 T 0 4	
3	U 0 1 8	**	T	S 0 1 S 0 2 T 0 4	
	U 0 1 9	**	T	S 0 1 S 0 2 T 0 4	
5	U 0 2 1	**	T	S 0 1 S 0 2 T 0 4	
	U 0 2 2	**	T	S 0 1 S 0 2 T 0 4	
7	U 0 2 3	**	T	S 0 1 S 0 2 T 0 4	
	U 0 2 4	**	T	S 0 1 S 0 2 T 0 4	
9	U 0 2 5	**	T	S 0 1 S 0 2 T 0 4	
1	U 0 2 8	**	T	S 0 1 S 0 2 T 0 4	
1'	U 0 3 1	**	T	S 0 1 S 0 2 T 0 4	
1	U 0 3 4	**	T	S 0 1 S 0 2 T 0 4	
13	U 0 3 7	**	T	S 0 1 S 0 2 T 0 4	
	U 0 3 8	**	T	S 0 1 S 0 2 T 0 4	
15	U 0 3 9	**	T	S 0 1 S 0 2 T 0 4	
1	U 0 4 1	**	T	S 0 1 S 0 2 T 0 4	
17	U 0 4 4	**	T	S 0 1 S 0 2 T 0 4	
	U 0 4 5	**	T	S 0 1 S 0 2 T 0 4	
19	U 0 4 6	**	T	S 0 1 S 0 2 T 0 4	
2	U 0 4 7	**	T	S 0 1 S 0 2 T 0 4	
21	U 0 4 8	**	T	S 0 1 S 0 2 T 0 4	
2	U 0 5 1	**	T	S 0 1 S 0 2 T 0 4	
23	U 0 5 2	**	T	S 0 1 S 0 2 T 0 4	
2	U 0 5 3	**	T	S 0 1 S 0 2 T 0 4	
25	U 0 5 5	**	T	S 0 1 S 0 2 T 0 4	
2	U 0 5 6	**	T	S 0 1 S 0 2 T 0 4	

E orm 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 7 9

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
H D 9 8 1 1 9 5 7 7 9 1	W DUP 2 DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. 1. PROCESS CODES (enter)	D. 2. Process Description (If a code is not entered in D(1))
	U057	81,000	T	S01 S02 T04	
	U058	**	T	S01 S02 T04	
	U063	**	T	S01 S02 T04	
	U069	**	T	S01 S02 T04	
	U070	**	T	S01 S02 T04	
	U071	**	T	S01 S02 T04	
	U072	**	T	S01 S02 T04	
	U073	**	T	S01 S02 T04	
	U074	**	T	S01 S02 T04	
	U075	**	T	S01 S02 T04	
	U076	**	T	S01 S02 T04	
	U077	**	T	S01 S02 T04	
13	U078	**	T	S01 S02 T04	
	U079	**	T	S01 S02 T04	
15	U080	**	T	S01 S02 T04	
	U081	**	T	S01 S02 T04	
17	U082	**	T	S01 S02 T04	
	U083	**	T	S01 S02 T04	
19	U084	**	T	S01 S02 T04	
	U088	**	T	S01 S02 T04	
	U101	**	T	S01 S02 T04	
	U102	**	T	S01 S02 T04	
	U107	**	T	S01 S02 T04	
	U108	**	T	S01 S02 T04	
	U112	**	T	S01 S02 T04	
	U113	**	T	S01 S02 T04	

Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 3 8 0

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S00004

EPA I.D. NUMBER (enter from page 1)		FOR OFFICIAL USE ONLY	
H D 9 8 1 1 9 5 7 7 9 1		W D U P	2 DUP

IV DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard 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))
	U 1 1 5	81,000	T	S 0 1 S 0 2 T 0 4	
2	U 1 1 7	**	T	S 0 1 S 0 2 T 0 4	
3	U 1 1 8	**	T	S 0 1 S 0 2 T 0 4	
4	U 1 2 1	**	T	S 0 1 S 0 2 T 0 4	
5	U 1 2 2	**	T	S 0 1 S 0 2 T 0 4	
6	U 1 2 3	**	T	S 0 1 S 0 2 T 0 4	
7	U 1 2 5	**	T	S 0 1 S 0 2 T 0 4	
	U 1 2 8	**	T	S 0 1 S 0 2 T 0 4	
9	U 1 3 0	**	T	S 0 1 S 0 2 T 0 4	
10	U 1 3 1	**	T	S 0 1 S 0 2 T 0 4	
11	U 1 3 2	**	T	S 0 1 S 0 2 T 0 4	
12	U 1 3 3	**	T	S 0 1 S 0 2 T 0 4	
13	U 1 4 0	**	T	S 0 1 S 0 2 T 0 4	
14	U 1 5 4	**	T	S 0 1 S 0 2 T 0 4	
15	U 1 5 9	**	T	S 0 1 S 0 2 T 0 4	
16	U 1 6 1	**	T	S 0 1 S 0 2 T 0 4	
17	U 1 6 2	**	T	S 0 1 S 0 2 T 0 4	
18	U 1 6 5	**	T	S 0 1 S 0 2 T 0 4	
19	U 1 6 9	**	T	S 0 1 S 0 2 T 0 4	
20	U 1 7 0	**	T	S 0 1 S 0 2 T 0 4	
21	U 1 7 1	**	T	S 0 1 S 0 2 T 0 4	
22	U 1 7 4	**	T	S 0 1 S 0 2 T 0 4	
23	U 1 8 3	**	T	S 0 1 S 0 2 T 0 4	
24	U 1 8 4	**	T	S 0 1 S 0 2 T 0 4	
25	U 1 8 6	**	T	S 0 1 S 0 2 T 0 4	
26	U 1 8 7		T	S 0 1 S 0 2 T 0 4	

Form 3510-3 (4-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD21F 003

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
U H D 9 8 1 1 9 5 7 7 9 1	W DUP 2 DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. 1. PROCESS CODES (enter)	D. 2. Process Description (If a code is not entered in D(1))
11	U188	81,000	T	S01 S02 T04	
12	U190	**	T	S01 S02 T04	
13	U191	**	T	S01 S02 T04	
14	U196	**	T	S01 S02 T04	
15	U197	**	T	S01 S02 T04	
16	U201	**	T	S01 S02 T04	
17	U202	**	T	S01 S02 T04	
	U203	**	T	S01 S02 T04	
19	U207	**	T	S01 S02 T04	
	U208	**	T	S01 S02 T04	
21	U209	**	T	S01 S02 T04	
	U210	**	T	S01 S02 T04	
23	U211	**	T	S01 S02 T04	
	U213	**	T	S01 S02 T04	
25	U218	**	T	S01 S02 T04	
	U219	**	T	S01 S02 T04	
27	U220	**	T	S01 S02 T04	
	U221	**	T	S01 S02 T04	
29	U226	**	T	S01 S02 T04	
	U227	**	T	S01 S02 T04	
31	U228	**	T	S01 S02 T04	
	U238	**	T	S01 S02 T04	
	U239	**	T	S01 S02 T04	
	U328	**	T	S01 S02 T04	
	U353	**	T	S01 S02 T04	
	U359	**	T	S01 S02 T04	

Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0382

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

CD2F 003

0383

A. **Facility Information**

1. Respondent Name and Title:
Leslie M. Cook, Permitting Analyst

Company:
Southdown Environmental Systems

Phone number:
(713) 653-3037

2. Name and address of company that owns the cement kilns at this facility:
Southdown, Inc., 1200 Smith Street, Suite 2400, Houston, Texas 77002

Facility name, location, and address:
Southdown, Inc., Dixie Facility, 6212 Cement Plant Road, P.O. Box 14009, Knoxville, Tennessee 37914

EPA ID of burner: TND 106203375

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: NONE

EPA ID of other on-site hazardous waste transporter: NONE
marketer: NONE
storer: NONE

3. Number of kilns currently burning hazardous wastes at this facility: 1
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): 1

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 Allworth, Mt. Pleasant, Tennessee, 615/379-3215
Processor 2 Spring Grove Resource Recovery, Cincinnati, Ohio, 513/681-5738
Processor 3 _____
Processor 4 _____

Pumpable Sludges
Percent received from off-site processors (excluding generators): N/A
Processor 1 _____
Processor 2 _____
Processor 3 _____
Processor 4 _____

Nonpumpable Sludges
Percent received from off-site processors (excluding generators): N/A
Processor 1 _____
Processor 2 _____
Processor 3 _____
Processor 4 _____

Containerized Solids
Percent received from off-site processors (excluding generators): 100%
Processor 1 Allworth, Mt. Pleasant, Tennessee, 615/379-3215
Processor 2 Spring Grove Resource Recovery, Cincinnati, Ohio, 513/681-5738
Processor 3 _____
Processor 4 _____

Bulk Solids
Percent received from off-site processors (excluding generators): N/A
Processor 1 _____
Processor 2 _____
Processor 3 _____
Processor 4 _____

Dry Solids
Percent received from off-site processors (excluding generators): N/A
Processor 1 _____
Processor 2 _____
Processor 3 _____
Processor 4 _____

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

CD2F 003

0384

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)
X Tanker Trucks (direct feed to kiln)
X Rail car
___ Carboy
___ Pallet
X Other, specify: 6 gallon pails — steel

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	50,000 gallons		
Liquid Tanks		Four tanks w/ 38,415 gallon capacity each	1992
Other (specify)	*		

The 50,000 gallons of waste which can be in containers may be stored in railroad tank cars and/or tanker trucks.

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

CD2F 003

0385

6b. What processing operations do you perform on-site for liquid wastes?[1]

The Dixie Facility does not engage in any processing activities.

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

The Dixie Facility does not engage in any processing activities.

[1] 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.

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

CD2F 003

0 3 8 6

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.

This section does not apply as the Dixie Facility does not engage in processing activities.

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				
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total				

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

CD2F 003

0 3 8 7

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: four stage, preheater, precalciner

Clinker capacity (tons/hr): 74.45 tons/hr

Thermal input (Btu/ton clinker): 3.5 million Btu/ton

Type of cement product(s) produced in this kiln: Type 1 and 2 low alkali

Total hours operating per year on average: 7,884 hours/year

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) ___

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

CD2F 003

0388

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	1,775 tons	12,000 tons/year	T
Pumpable Sludges	N/A	N/A	N/A
Nonpumpable Sludges	N/A	N/A	N/A
Containerized Solids	2,918 tons	26,000 tons/year	T
Bulk Solids	N/A	N/A	N/A
Dry Solids	N/A	N/A	N/A
Total	4,693 tons	38,000 tons/year	T

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: _____ (%)

This question cannot be answered with any degree of accuracy because the Dixie Facility does not do its own blending and the policies of its suppliers of hazardous waste fuel differ.

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

CD2F 003

0389

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)
Liquid:	3,600	12.19	166.81	12,700	4.95%
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	3,000	14.18	194.14	9,200	3.22%
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:

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

CD2F 003

0 3 9 0

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 or April

How long? two to three 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.

N/A

a) When (year and month or quarter):

b) Physical changes (include planned schedule):

c) Regulatory modifications (include planned schedule):

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

CD2F 003

0391

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	10,000 Btu/lb		P
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		0.5%	P
Sodium Content			
Potassium Content			
Other (Specify)			
Other (Specify)			
Total Halogen Content		< 5.0%	P
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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

CD2F 003

0392

"As Received" Liquid Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		non-detected	P
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify (PCB's)		< 50 ppm	
Total Specified Metals Content			
Antimony Content			
Arsenic Content		83 ppm	P
Barium Content			
Beryllium Content		7.0 ppm	P
Cadmium Content		500 ppm	P
Chromium Content		3,000 ppm	P
Copper Content			
Lead Content		4,000 ppm	P
Mercury Content		1.0 ppm	P
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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

CD2F 003

0393

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			

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

CD2F 003

0 3 9 4

"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			

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

CD2F 003

0 3 9 5

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: 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" 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			

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

CD2F 003

0396

"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			

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

CD2F 003

0391

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: 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" 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			

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

CD2F 003

0 3 9 8

"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			

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

CD2F 003

0399

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: 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" 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			

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

CD2F 003

0400

"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			

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

CD2F 003

0 4 0 1

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: 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" 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			

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

CD2F 003

0402

"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			

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

CD2F 003

0 4 0 3

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.

"As Received" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion	5,000 Btu/lb		P
Water Content			
Total Solids Content			
Total Inorganics Content			
Particle/Object Size			
Cyanide Content			
Sulfur Content		0.5%	P
Sodium Content			
Potassium Content			
Other: Specify			
Other: Specify			
Total Halogen Content		5.0%	P
Chlorine Content			
Fluorine Content			
Bromine Content			
Other: Specify			
Other: Specify			

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

CD2F 003

0 4 4 4

"As Received" Containerized Solids Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Pesticides		non-detected	P
Fungicides			
Herbicides			
Insecticides			
Rodenticides			
Other: Specify (PCB's)		50 ppm	P
Total Specified Metals Content			
Antimony Content			
Arsenic Content		40 ppm	P
Barium Content			
Beryllium Content		7.8 ppm	P
Cadmium Content		1,000 ppm	P
Chromium Content		4,000 ppm	P
Copper Content			
Lead Content		10,000 ppm	P
Mercury Content		1.4 ppm	P
Nickel Content			
Selenium Content			
Silver Content			
Thallium Content			
Vanadium Content			
Zinc Content			
Other: Specify			
Other: Specify			

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

CD2F 003

0405

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

CD2F 003

0 4 0 6

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: y

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			

"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			

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

CD2F 003

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			

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

CD2F 03

0 4 0 0

"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			

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

CD2F 003

0 4 0 9

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			

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

CD2F 03

0 4 1 0

"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			

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

CD2F 003

0 4 1 1

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

CD2F003

0412

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			

"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			

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

CD2F 003

0413

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			

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

CD2F 003

0414

"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			

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

CD2F 003

0 4 1 5

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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)	Accept Now (Y/N)	Acceptance Conditions (In addition to above)	Don't Know (✓)
	Allworth	Spring Grove		
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)	Y	Y		
Personal Protection Equipment (e.g., Tyvex suits)	Y	Y		
Paper or Cardboard Materials	Y	Y		
Filter Cartridges	Y	Y		
Wood Materials	Y	Y		
Rubber Objects (e.g., tires, hoses)	N	Y		
PVC Pipe	N	Y		
Other Plastic Debris	Y	Y		
Glass Debris	Y	Y		
Ceramic Debris (e.g., semiconductors)	Y	Y		
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)	N	Y		
Asbestos Materials (e.g., shingles, insulation)	N	Y		
Non-Soil Geologic Material (e.g., rocks)	N	Y		
Concrete Debris	N	Y		
Refractory Brick	N	Y		
Other Bricks	N	Y		
Slag	N	Y		
Intact Batteries	N	Y		
Battery Cases	N	Y		
Electronic Components (e.g., printed circuit boards)	N	Y		
Electrical Wires, Switches, etc.	N	Y		

* Spring Grove requires all of these substances to arrive containerized.

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

CD2F 003

0 4 1 6

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

Debris acceptance data is that of the two primary processors who who currently supply hazardous waste fuel to the Dixie Facility, i.e. Allworth, Inc. of Mt. Pleasant Tennessee, and Spring Grove Resource Recovery of Cincinnati, Ohio. Although the indicated materials are accepted by these processors, they cannot be accepted by the Dixie Facility unless they meet minimum Btu requirements and are found not to be contaminated with materials the facility does not accept or with acceptable materials in unacceptable amounts

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

Both Allworth and Spring Grove Resource Recovery accept contaminated soils. For shipment to cement kilns as hazardous waste fuel, these soils must supply 5,000 Btu/pound at a minimum.

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

CD2F 003

0 4 1 7

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.

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.

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?

The Dixie Facility is waiting for the Tennessee Division of Solid Waste Management to approve its Class II modification, adding these and other waste codes.

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

CD2F 003

0 4 1 0

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 4, 404/347-3016	OT *	8/20/91
RCRA Storage	USEPA Region 4, 4044 347-3016	MA	any day
RCRA Treatment	Not Applicable	NR	—
Clean Air Act (PSD)	Not Applicable	NR	—
Other (specify)			
State Hazardous Waste	Tennessee Dept of Health and Environment Division of Solid Waste, 615/741-3424	MA	
Air Emission	Not Applicable	NR	—
Land Use/Siting	Not Applicable	NR	—
Other (specify)			
Local Hazardous Waste	Not applicable	NR	—
Air Emission	Knox Co. Dept of Air Pollution Control, 615/521-2455	FP	—
Land Use/Siting	Not applicable	NR	—
Other (specify)			

* Submit Certification of Compliance

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

CD2F 003

0419

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.

All such permit changes for the Dixie Facility are being made or considered for purposes of improving the hazardous waste burning process or increasing its capacity. No changes are required merely to continue burning hazardous waste.

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

August 20, 1991

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

CD2F 003

0 4 2 0

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

X 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):

1992

b) Effect on hazardous waste capacity:

Allow for storage of liquid HWF on site in the amount of 153,660 gallons.

c) Modifications:

Addition of a 2,209 square foot tank farm containing four tanks, each being 18 feet in diameter with a straight wall depth of 21 feet and having a capacity of 38,415 gallons of liquid HWF.

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

CD2F 003

0 4 2 1

Permit type: currently authorized
Unit type: waiting for approval

Dixie Facility
Attachment

TABLE WP-1

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

Industry & EPA Hazardous Waste Number	Description
D001	Ignitable Waste
D002	Corrosive Waste
D003	Reactive Waste
D004	Arsenic
D005	Barium
D006	Cadmium
D007	Chromium
D008	Lead
D009	Mercury
D010	Selenium
D011	Silver
D012	Endrin
D013	Lindane
D014	Methoxychlor
D015	Toxaphene
D016	2,4-D
D017	2,4,5-TP Silvex
D018	Benzene
D019	Carbon Tetrachloride
D020	Chlordane
D021	Chlorobenzene
D022	Chloroform
D023	o-Cresol

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

CD2F 003

0422

10200019

TABLE WP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
D024	m-Cresol
D025	p-Cresol
D026	Cresol
D027	1,4-Dichlorobenzene
D028	1,2-Dichloroethane
D029	1,1-Dichloroethylene
D030	2,4-Dinitrotoluene
D031	Heptachlor (and its hydroxides)
D032	Hexachlorobenzene
D033	Hexachlorobutadiene
D034	Hexachloroethane
D035	Methyl Ethyl Ketone
D036	Nitrobenzene
D037	Pentachlorophenol
D038	Pyridine
D039	Tetrachloroethylene
D040	Trichloroethylene
D041	2,4,5-Trichlorophenol
D042	2,4,6-Trichlorophenol
D043	Vinyl Chloride

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

CD2F 003

0 4 7 7

10200019

TABLE VP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
F024	Wastes including, but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes from the production of chlorinated aliphatic hydrocarbons, having a carbon content from one to five, utilizing free radical catalyzed processes
F025	Condensed light ends, spent filters and filter aids, and spent dessicant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes
F032	Wastewater, process residuals, preservative drippage and discarded spent formulations from wood preserving processes at facilities that use or previously used chlorophenolic formulations
F033	Wastewater, process residuals, protective drippage and discarded spent formulations from wood surface protection processes at facilities that use or previously used chlorophenolic formulations
F034	Wastewater, process residuals, preservative drippage and discarded spent formulations from wood preserving processes at facilities that use or previously used cresotes
F035	Wastewater, process residuals, preservative drippage and discarded spent formulations from wood preserving processes at facilities that that currently use inorganic preservatives containing arsenic or chloroform
F037	Petroleum refinery primary oil/water/solids separation sludge

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

CD2F 003

0424

10200019

TABLE UP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
K001	Bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments
K003	Wastewater treatment sludge from the production of molybdate orange pigments
K004	Wastewater treatment sludge from the production of zinc yellow pigments
K005	Wastewater treatment sludge from the production of chrome green pigments
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated)
K007	Wastewater treatment sludge from the production of iron blue pigments
K008	Oven residue from the production of chrome oxide green pigments
K009	Distillation bottoms from the production of acetaldehyde from ethylene
K010	Distillation side cuts from the production of acetaldehyde from ethylene
K011	Bottom stream from the wastewater stripper in the production of acrylonitrile
K013	Bottom stream from the acetonitrile column in the production of acrylonitrile
K014	Bottoms from the acetonitrile purification column in the production of acrylonitrile

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

CD2F 003

0425

10200019

TABLE VP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane
K029	Waste from the product steam stripper in the production of 1,1,1-trichloroethane
K030	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene
K031	By-product salts generated in the production of MSMA and cacodylic acid
K032	Wastewater treatment sludge from the production of chlordane
K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane
K035	Wastewater treatment sludges generated in the production of creosote
K036	Still bottoms from toluene reclamation distillation in the production of disulfoton
K037	Wastewater treatment sludges from the production of disulfoton
K038	Wastewater from the washing and stripping of phorate production
K039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate
K040	Wastewater treatment sludge from the production of phorate

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

CD2F 003

0426

10200019

TABLE WP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
K064	Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production
K065	Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities
K066	Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production
K069	Emission control dust/sludge from secondary lead smelting
K071	Brine purification muds from the mercury cell process in chlorine production
K073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production
K083	Distillation bottoms from aniline production
K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds
K085	Distillation or fractionation column bottoms from the production of chlorobenzenes
K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead
K087	Decanter tank tar sludge from coking operations
K088	Spent potliners from primary aluminum reduction

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

CD2F 003

0427

10200019

TABLE WP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
K104	Combined wastewater streams generated from nitrobenzene/aniline production
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes
K106	Wastewater treatment sludge from the mercury cell process in chlorine production
K107	Column bottoms from product separation from the production of 1,1-dimethylhydrazine
K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine from carboxilic acid
K109	Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine from carboxilic acid hydrazides
K110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine from carboxilic acid hydrazides
K111	Product wastewaters from the production of dinitrotoluene via nitration of toluene
K112	Reaction byproduct water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene
K113	Condensed liquid light ends from purification of toluenediamine in production of toluenediamine via hydrogenation of dinitrotoluene
K114	Vicinals from the purification of toluenediamine in production of toluenediamine via hydrogenation of dinitrotoluene

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

CD2F 003

0428

10200019

TABLE VP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
K136	Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene
K137	Flush water from catalyst removal system from the produciton of 1,1-dimethylhydrazine from carboxilic acid hydrazides
K138	Spent catalyst and filter media from the production of 1,1-dimethylhydrazine from carboxilic acid hydrazides

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

CD2F 003

0429

10200019

TABLE WP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
P017	Bromoacetone
P018	Brucine
P020	Dinoseb
P021	Calcium cyanide
P022	Carbon disulfide
P023	Chloroacetaldehyde
P024	p-Chloroaniline
P026	1-(o-Chlorophenyl) Thiourea
P027	3-Chloropropionitrile
P028	Benzyl chloride
P029	Copper cyanides
P030	Cyanides (soluble cyanide salts), not elsewhere specified
P031	Cyanogen
P033	Cyanogen chloride
P034	2-Cyclohexyl-4,6-dinitrophenol
P036	Dichlorophenylarsine
P037	Dieldrin
P038	Diethylarsine
P039	Disulfoton
P040	O,O-Diethyl O-pyrazinyl phosphorothioate
P041	Diethyl-p-nitrophenyl phosphate
P042	Epinephrine
P043	Diisopropylfluorophosphate (DFP)

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

CD2F 003

0 4 3 0

10200019

TABLE WP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
P071	Methyl parathion
P072	alpha-Naphthylthiourea
P073	Nickel carbonyl
P074	Nickel cyanide
P075	Nicotine and salts
P076	Nitric oxide
P077	p-Nitroaniline
P078	p-Nitroaniline
P081	Nitroglycerine
P082	N-Nitrosodimethylamine
P084	N-Nitrosomethylvinylamine
P085	Octamethyldiphosphoramide
P087	Osmium tetroxide
P088	Endothall
P089	Parathion
P092	Phenylmercury acetate
P093	N-Phenylthiourea
P094	Phorate
P095	Phosgene
P096	Hydrogen phosphide
P097	Famphur
P098	Potassium cyanide
P099	Potassium silver cyanide
P101	Ethyl cyanide

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

CD2F 003

0 4 3 1

10200019

TABLE VP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
U001	Ethanal
U002	2-Propanone
U003	Acetonitrile
U004	Ethanone, 1-phenyl-
U005	2-Acetylaminofluorene
U006	Acetyl chloride
U007	2-Propenamide
U008	2-Propenoic acid
U009	2-Propenenitrile
U010	Mitomycin C
U011	1H-1,2,4-Triazol-3-amine
U012	Benzenamine
U014	Auramine
U015	L-Serine, diazoacetate (ester)
U016	Benz[c]acridine
U017	Benzal chloride
U018	Benz[a]anthracene
U019	Benzene
U020	Benzenesulfonyl chloride
U021	Benzidine
U022	Benzo[a]pyrene
U023	Benzene (trichloromethyl)
U024	Dichloromethoxy ethane

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

CD2F 003

0432

10200019

TABLE VF-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
U047	Naphthalene, 2-chloro-
U048	Phenol,2-chloro-
U049	4-Chloro-o-toluidine, hydrochloride
U050	Chrysene
U051	Creosote
U052	Cresylic acid
U053	2-Butenal
U055	Cumene
U056	Cyclohexane
U057	Cyclohexanone
U058	2H-1,3,2-Oxazaphosphorin, 2-amine N,N-bis (2 chloroethyl) tetrahydro-, 2-oxide
U059	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)
U060	DDD
U061	DDT
U062	Diallate
U063	Dibenz[a,h]anthracene
U064	Dibenzo[a,i]pyrene
U066	1,2-Dibromo-3-chloropropane
U067	Ethylene dibromide
U068	Methane, dibromo-
U069	Dibutyl phthalate

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

CD2F 003

0433

10200019

TABLE VP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
U092	Methanamine, N-methyl-
U093	p-Dimethylaminoazobenzene
U094	7,12-Dimethylbenz[a]anthracene
U095	(1,1'-Biphenyl)-4,4'-diamine,3,3'-dimethyl-
U096	Hydroperoxide, 1-methyl-phenylethyl-(r)
U097	Dimethylcarbamoyl chloride
U098	Hydrazine,1,1-dimethyl-
U099	Hydrazine, 1,2-dimethyl-
U101	Phenol,2,4-dimethyl-
U102	Dimethyl phthalate
U103	Sulfuric acid, dimethyl ester
U105	2,4-Dinitrotoluene
U106	2,6-Dinitrotoluene
U107	Di-n-octyl phthalate
U108	1,4-Dioxane
U109	Hydrazine, 1,2-diphenyl-
U110	1-Propanamine,N-propyl-
U111	1-Propanamine,N-Nitroso-N-propyl-
U112	Ethyl acetate
U113	2-Propenoic acid, ethyl ester
U114	Ethylenebisdithiocarbamic acid, salts and esters
U115	Oxirane
U116	Ethylenethiourea

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

CD2F 003

0 4 3 4

10200019

TABLE WP-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
U117	Ethyl ether
U118	2-Propenoic acid, 2-methyl-, ethyl ester
U119	Ethyl methanesulfonate
U120	Fluoranthene
U121	Trichloromonofluoromethane
U122	Formaldehyde
U123	Formic acid
U124	Furan
U125	Furfural
U126	Oxiranecarboxyaldehyde
U127	Hexachlorobenzene
U128	Hexachlorobutadine
U129	Lindane
U130	Hexachlorocyclopentadiene
U131	Hexachloroethane
U132	Hexachlorophene
U133	Hydrazine
U134	Hydrogen fluoride
U135	Hydrogen sulfide
U136	Cacodylic acid
U137	Indeno [1,2,3-cd] pyrene
U138	Methane, iodo-
U139	Ferric dextran

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

CD2F 003

0 4 3 5

10200019

TABLE VF-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
U187	Phenacetin
U188	Phenol
U189	Phosphorus sulfide
U190	Phthalic anhydride
U191	2-Picoline
U192	Pronamide
U193	1,2-Oxathiolane, 2,2-dioxide
U194	1-Propanamine
U196	Pyridine
U197	p-Benzoquinone
U200	Reserpine
U201	Resorcinol
U202	Saccharin and salts
U203	Safrole
U204	Selenious acid
U205	Selinium sulfide
U206	Streptozotocin
U207	1,2,4,5-Tetrachlorobenzene
U208	1,1,1,2-Tetrachloroethane
U209	1,1,2,2-Tetrachloroethane
U210	Tetrachloroethylene
U211	Methane, tetrachloro-
U213	Tetrahydrofuran

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

CD2F 003

0436

10200019

TABLE WF-I

MATERIALS FOR USE AS ALTERNATE/HAZARDOUS WASTE FUELS

(Continued)

Industry & EPA Hazardous Waste Number	Description
U243	1-Propene,1,1,2,3,3,3-hexachloro-
U244	Thiram
U246	Bromine cyanide
U247	Methoxychlor
U248	Warfarin, when present at concentrations of 0.3% or le
U249	Zinc phosphide, when present at concentrations of 10% or less
U328	o-Toluidene
U353	p-Toluidene
U359	2-Ethoxyethanol

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

CD2F 003

0 4 3 7

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

A. **Facility Information**

1. Respondent Name and Title:
Leslie M. Cook, Permitting Analyst

Company:
Southdown Environmental Systems

Phone number:
(713) 653-8087

2. Name and address of company that owns the cement kilns at this facility:
Kosmos Cement Company, P.O. Box 72319 Louisville, KY 40272
(Southdown, Inc., 1200 Smith St. Ste. 2400, Houston, TX 77002 is the managing partner of Kosmos Cement Company)
Facility name, location, and address:
Kosmos Cement Company, Kosmosdale Facility, 15301 Dixie Highway, Louisville, Kentucky 40272

EPA ID of burner: KYD024111981

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

EPA ID of on-site processor: NONE

EPA ID of other on-site hazardous waste transporter: NONE
marketer: NONE
storer: NONE

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

CD2F 003

0438

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.

This section is not applicable to the Kosmosdale facility because it is not yet burning hazardous waste.

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 _____

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

CD2F 003

0439

B. Potential Capacity and Waste Acceptance Limitations

5. Please indicate the form(s) in which you receive hazardous wastes by checking all that apply: (Pending approval of the RCRA Part B Permit)

___ Roll-Off Bin
___ Steel Drum, specify sizes: _____
___ Poly Drum, specify sizes: _____
___ Fiber Drum, specify sizes: _____
___ Bag or other flexible container, specify sizes: _____
___ Rigid Tote
X Tanker Trucks (transferred to tank)
X Tanker Trucks (direct feed to kiln)
X Rail car
___ Carboy
___ Pallet
X Other, specify: 6-gallon pails - steel (pending approval of solids acceptance)

This section does not apply to the Kosmos Site Facility because it is not yet burning hazardous waste.

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	not permitted	90,000 gallons	August of 1992
Liquid Tanks	not permitted	160,000 gallons	August of 1992
Other (specify)			

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

CD2F-003

0440

6b. What processing operations do you perform on-site for liquid wastes?[1]

This section does not apply to the Kosmosdale Facility because it does not now accept hazardous waste. The RCRA Part B application for the facility does request permission for liquid fuels blending.

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

This section does not apply to the Kosmosdale Facility because it does not now, nor does it anticipate engaging in the processing of solids.

[1] 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.

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

CD2F 003

0 4 4 1

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.

This section does not apply to the Kosmosdale Facility because it does not now receive hazardous wastes.

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				
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total				

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

CD2F 003

0442

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: dry process, preheater

Clinker capacity (tons/hr): 95 tons/hour

Thermal input (Btu/ton clinker): 2.9 million BTU/ton

Type of cement product(s) produced in this kiln: see below *

Total hours operating per year on average: 8,060 hours/year

Type(s) of hazardous waste feed system(s) currently used with this kiln:
Hazardous waste is not currently being burned at the Kosmosdale Facility.

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

* Kosmosdale produces the following cements: Type 1/2, Type 1-P, masonry type N, masonry Type S, masonry Type M, Type 1-A (air entrained) and Type 2 (low alkali).

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

CD2F 003

0443

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.)

Hazardous waste is not currently being burned at the Kosmosdale Facility.

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: ____ (%)

Hazardous waste is not currently being burned at the Kosmosdale Facility.

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

CD2F 003

0444

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					
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:

Hazardous waste is not currently being burned at the Kosmosdale Facility.

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

CD2F 003

0445

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? four 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):
January 1992

b) Physical changes (include planned schedule):
All construction at the Kosmosdale Facility needed to allow it to burn liquid hazardous waste fuel is complete. It includes a truck unloading area, secondary containment and machinery needed to inject the fuel into the kiln. On site storage tanks will be added at a later date. Solids storage and feeding equipment will be added upon approval.

c) Regulatory modifications (include planned schedule):
RCRA Part B Permit
Jefferson County Air Permit to burn liquids and tires
Jefferson County Air Permit to burn solids
Jefferson County Ordinance 26 permit for storage of waste

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

CD2F 003

0446

X

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			

This section is not applicable because the Kennedale facility is not currently burning hazardous waste.

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

CD2F 003

0447

"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			

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

CD2F 003

0448

Liquid Waste Acceptance Limits As Burned

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			

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

CD2F 003

0 4 4 9

"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			

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

CD2F 003

0450

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: 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" 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			

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

CD2F 003

0451

"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			

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

CD2F 003

0452

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: 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" 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			

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

CD2F 003

0453

"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			

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

CD2F 003

0454

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: 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" 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			

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

CD2F 003

0455

"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			

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

CD2F 003

0 4 5 6

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: 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" 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			

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

CD2F 003

0457

"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			

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

CD2F 003

0458

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			

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

CD2F 003

0455

"As Received" 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			

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

CD2F-003

0460

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.

"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			

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

CD2F 003

0461

"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			

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

CD2F 003

0462

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			

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

CD2F 003

0 4 6 3

"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			

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

CD2F 003

0464

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			

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

CD2F 003

0465

"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			

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

CD2F 003

0466

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			

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

CD2F 003

0 4 6 7

"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			

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

CD2F 003

0 4 6 8

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			

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

CD2F 003

0469

"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			

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

CD2F 003

0 4 7 0

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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)	Plan to Accept By June 94 (Y/N)	Don't Know (✓)
Common Cloth Materials (e.g., rags, mop heads, blankets, or clothing)		Allworth Y	Spring Grove* Y	
Personal Protection Equipment (e.g., Tyvex suits)		Y	Y	
Paper or Cardboard Materials		Y	Y	
Filter Cartridges		Y	Y	
Wood Materials		Y	Y	
Rubber Objects (e.g., tires, hoses)		Y	Y	
PVC Pipe		N	Y	
Other Plastic Debris		Y	Y	
Glass Debris		Y	Y	
Ceramic Debris (e.g., semiconductors)		Y	Y	
Metal Objects (e.g., pipes, valves, pumps, nuts and bolts)		N	Y	
Asbestos Materials (e.g., shingles, insulation)		N	Y	
Non-Soil Geologic Material (e.g., rocks)		N	Y	
Concrete Debris		N	Y	
Refractory Brick		N	Y	
Other Bricks		N	Y	
Slag		N	Y	
Intact Batteries		N	Y	
Battery Cases		N	Y	
Electronic Components (e.g., printed circuit boards)		N	Y	
Electrical Wires, Switches, etc.		N	Y	

*Spring Grove requires all of these substances to arrive containerized.

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

CD2F 003

0 4 7 1

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

Debris acceptance data is that of the two primary processors who will supply hazardous waste fuel to the Kosmosdale Facility, i.e. Allworth, Inc., of Mt. Pleasant, Tennessee, and Spring Grove Resource Recovery of Cincinnati, Ohio. Although the indicated materials are accepted by these processors, they cannot be accepted by the Kosmosdale Facility unless they meet minimum BTU requirements and are found not to be contaminated with materials the facility does not accept or with acceptable materials in unacceptable amounts.

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

Both Allworth and Spring Grove Resource Recovery accept contaminated soils. For shipment to cement kilns as hazardous waste fuel, these soils must supply 5,000 BTU/pound at a minimum.

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

CD2F 003

0472

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.

The Kosmosdale facility does not yet have interim status.

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.

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?

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

CD2F 003

0 4 7 3

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 4, 404/347-3016	OT*	8/20/91
RCRA Storage	Same as above	SA	1/1/93
RCRA Treatment	Same as above	SA	1/1/93
Clean Air Act (PSD)	Not Applicable	NR	—
Other (specify)			
State Hazardous Waste	Kentucky Dept. of Environmental Protection Division of Waste Management. 502/564-6716	ND 6/28/91	1/1/93
Air Emission	Not Applicable	NR	—
Land Use/Siting	Not Applicable	NR	—
Other (specify)			
Local Hazardous Waste	Not Applicable	NR	—
Air Emission	Air Pollution Control District of Jefferson Co. 502/625-6000	PH	1/1/93 for liquids/Direct off-loading
Land Use/Siting	Jefferson Co. Kentucky Environmental + Community Development Department 502/625-6600	OT*2	—
~~Other (specify)~~			

*Submit Certification of Compliance
*2 The facility will not need to comply with Ordinance 86 for direct off-loading of liquid HWF, but it will need to comply for storage and burning of solids. It is not known when the facility will be ready to burn solids.

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

CD2F 003

0474

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.

Permit changes needed in order to burn HWF at the Kosmosdale Facility:

1. Acquire air permits for direct off-loading of liquid HWF from the Air Pollution Control District of Jefferson County, expected date: 1/1/92.
2. Receive interim status approval on RCRA Part B Permit, expected date: 1/1/93.

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

August 20, 1991

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

CD2F 003

0 4 7 5

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

X 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:
Add liquid HWF storage capacity and add solid HWF burning and storage capacity.

c) Modifications: All construction for the burning of HWF is in place. The Kosmosdale facility is now waiting only on permit authorization and interim status. In the future, construction will be necessary only for storage.

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

CD2F 003

0476

Kosmos Cement Co. (Southdown, Inc) Kosmosdale Facility - Attachment

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
KY D 0 2 4 1 1 1 9 8 1 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. PROCESS CODES (enter)				D. Process Description (If a code is not entered in D(1))
1	D001	81,000	T	S01	S02	T01	T04	
2	D002	**	T	S01	S02	T01	T04	
3	D004	**	T	S01	S02	T01	T04	
4	D005	**	T	S01	S02	T01	T04	
5	D006	**	T	S01	S02	T01	T04	
6	D007	**	T	S01	S02	T01	T04	
7	D008	**	T	S01	S02	T01	T04	
8	D009	**	T	S01	S02	T01	T04	
9	D010	**	T	S01	S02	T01	T04	
10	D011	**	T	S01	S02	T01	T04	
11	D018	**	T	S01	S02	T01	T04	
12	D019	**	T	S01	S02	T01	T04	
13	D021	**	T	S01	S02	T01	T04	
14	D022	**	T	S01	S02	T01	T04	
15	D023	**	T	S01	S02	T01	T04	
16	D024	**	T	S01	S02	T01	T04	
17	D025	**	T	S01	S02	T01	T04	
18	D026	**	T	S01	S02	T01	T04	
19	D027	**	T	S01	S02	T01	T04	
20	D028	**	T	S01	S02	T01	T04	
21	D029	**	T	S01	S02	T01	T04	
22	D030	**	T	S01	S02	T01	T04	
23	D032	**	T	S01	S02	T01	T04	
24	D033	**	T	S01	S02	T01	T04	
25	D034	**	T	S01	S02	T01	T04	
26	D035	**	T	S01	S02	T01	T04	

*A Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0477

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
K Y D 0 2 4 1 1 1 9 8 1 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	D036	81,000	T	S01 S02 T01 T04	
2	D037	**	T	S01 S02 T01 T04	
3	D038	**	T	S01 S02 T01 T04	
4	D039	**	T	S01 S02 T01 T04	
5	D040	**	T	S01 S02 T01 T04	
6	D043	**	T	S01 S02 T01 T04	
7	F001	**	T	S01 S02 T01 T04	
8	F002	**	T	S01 S02 T01 T04	
9	F003	**	T	S01 S02 T01 T04	
10	F004	**	T	S01 S02 T01 T04	
11	F005	**	T	S01 S02 T01 T04	
12	F006	**	T	S01 S02 T01 T04	
13	F019	**	T	S01 S02 T01 T04	
14	F024	**	T	S01 S02 T01 T04	
15	F025	**	T	S01 S02 T01 T04	
16	F032	**	T	S01 S02 T01 T04	
17	F034	**	T	S01 S02 T01 T04	
18	F035	**	T	S01 S02 T01 T04	
19	F037	**	T	S01 S02 T01 T04	
20	F038	**	T	S01 S02 T01 T04	
21	F039	**	T	S01 S02 T01 T04	
22	K001	**	T	S01 S02 T01 T04	
23	K002	**	T	S01 S02 T01 T04	
24	K003	**	T	S01 S02 T01 T04	
25	K004	**	T	S01 S02 T01 T04	
26	K005	**	T	S01 S02 T01 T04	

*PA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0478

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W K Y D 0 2 4 1 1 1 9 8 1 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	K 0 0 6	81,000	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	K 0 0 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
3	K 0 0 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
4	K 0 0 9	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
5	K 0 1 0	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
6	K 0 1 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
7	K 0 1 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
8	K 0 1 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
9	K 0 1 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
10	K 0 1 6	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	K 0 1 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
12	K 0 1 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
13	K 0 1 9	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
14	K 0 2 0	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
15	K 0 2 2	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
16	K 0 2 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
17	K 0 2 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
18	K 0 2 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
19	K 0 2 6	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
20	K 0 2 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
21	K 0 2 9	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
22	K 0 3 0	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
23	K 0 3 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
24	K 0 4 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
25	K 0 4 9	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
26		**			

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 4 1 9

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY	
7 K Y D 0 2 4 1 1 1 9 8 1 1	W DUP	2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	K050	81,000	T	S01 S02 T01 T04	
2	K051	**	T	S01 S02 T01 T04	
3	K052	**	T	S01 S02 T01 T04	
4	K061	**	T	S01 S02 T01 T04	
5	K062	**	T	S01 S02 T01 T04	
6	K083	**	T	S01 S02 T01 T04	
7	K085	**	T	S01 S02 T01 T04	
8	K086	**	T	S01 S02 T01 T04	
9	K087	**	T	S01 S02 T01 T04	
10	K088	**	T	S01 S02 T01 T04	
11	K093	**	T	S01 S02 T01 T04	
12	K094	**	T	S01 S02 T01 T04	
13	K095	**	T	S01 S02 T01 T04	
14	K096	**	T	S01 S02 T01 T04	
15	K103	**	T	S01 S02 T01 T04	
16	K104	**	T	S01 S02 T01 T04	
17	K105	**	T	S01 S02 T01 T04	
18	P005	**	T	S01 S02 T01 T04	
19	P022	**	T	S01 S02 T01 T04	
20	P028	**	T	S01 S02 T01 T04	
21	P077	**	T	S01 S02 T01 T04	
22	U001	**	T	S01 S02 T01 T04	
23	U002	**	T	S01 S02 T01 T04	
24	U003	**	T	S01 S02 T01 T04	
25	U004	**	T	S01 S02 T01 T04	
26	U009	**	T	S01 S02 T01 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0480

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY	
7 K Y D 0 2 4 1 1 1 9 8 1 1	W DUP	2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard 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 1 2	81,000	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	U 0 1 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
3	U 0 1 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
4	U 0 1 9	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
5	U 0 2 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
6	U 0 2 2	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
7	U 0 2 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
8	U 0 2 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
9	U 0 2 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
10	U 0 2 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
11	U 0 3 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
12	U 0 3 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
13	U 0 3 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
14	U 0 3 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
15	U 0 3 9	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
16	U 0 4 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
17	U 0 4 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
18	U 0 4 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
19	U 0 4 6	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
20	U 0 4 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
21	U 0 4 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
22	U 0 5 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
23	U 0 5 2	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
24	U 0 5 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
25	U 0 5 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
26	U 0 5 6	**	T	S 0 1 S 0 2 T 0 1 T 0 4	

PA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages).

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 4 8 1

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
7 K Y D 0 2 4 1 1 1 9 8 1 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	U057	81,000	T	S01 S02 T01 T04	
2	U058	**	T	S01 S02 T01 T04	
3	U063	**	T	S01 S02 T01 T04	
4	U066	**	T	S01 S02 T01 T04	
5	U069	**	T	S01 S02 T01 T04	
6	U070	**	T	S01 S02 T01 T04	
7	U071	**	T	S01 S02 T01 T04	
8	U072	**	T	S01 S02 T01 T04	
9	U073	**	T	S01 S02 T01 T04	
10	U074	**	T	S01 S02 T01 T04	
11	U075	**	T	S01 S02 T01 T04	
12	U076	**	T	S01 S02 T01 T04	
13	U077	**	T	S01 S02 T01 T04	
14	U078	**	T	S01 S02 T01 T04	
15	U079	**	T	S01 S02 T01 T04	
16	U080	**	T	S01 S02 T01 T04	
17	U081	**	T	S01 S02 T01 T04	
18	U082	**	T	S01 S02 T01 T04	
19	U083	**	T	S01 S02 T01 T04	
20	U084	**	T	S01 S02 T01 T04	
21	U088	**	T	S01 S02 T01 T04	
22	U101	**	T	S01 S02 T01 T04	
23	U102	**	T	S01 S02 T01 T04	
24	U107	**	T	S01 S02 T01 T04	
25	U108	**	T	S01 S02 T01 T04	
26	U112	**	T	S01 S02 T01 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 4 0 2

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W K Y D 0 2 4 1 1 1 9 8 1 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. PROCESS CODES (enter)				E. Process Description (If a code is not entered in D(1))
1	U 1 1 3	81,000	T	S 0 1	S 0 2	T 0 1	T 0 4	
2	U 1 1 5	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
3	U 1 1 7	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
4	U 1 1 8	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
5	U 1 2 1	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
6	U 1 2 2	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
7	U 1 2 3	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
8	U 1 2 4	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
9	U 1 2 5	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
10	U 1 2 8	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
11	U 1 2 9	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
12	U 1 3 0	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
13	U 1 3 1	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
14	U 1 3 2	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
15	U 1 3 3	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
16	U 1 4 0	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
17	U 1 5 4	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
18	U 1 5 9	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
19	U 1 6 1	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
20	U 1 6 2	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
21	U 1 6 5	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
22	U 1 6 9	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
23	U 1 7 0	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
24	U 1 7 1	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
25	U 1 7 4	**	T	S 0 1	S 0 2	T 0 1	T 0 4	
26	U 1 8 3	**	T	S 0 1	S 0 2	T 0 1	T 0 4	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 4 0 3

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY	
J K Y D 0 2 4 1 1 1 9 8 1 1	W DUP	2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. 1. PROCESS CODES (enter)	D. 2. Process Description (If a code is not entered in D(1))
1	U184	81,000	T	S01 S02 T01 T04	
2	U186	**	T	S01 S02 T01 T04	
3	U187	**	T	S01 S02 T01 T04	
4	U188	**	T	S01 S02 T01 T04	
5	U190	**	T	S01 S02 T01 T04	
6	U191	**	T	S01 S02 T01 T04	
7	U196	**	T	S01 S02 T01 T04	
8	U197	**	T	S01 S02 T01 T04	
9	U201	**	T	S01 S02 T01 T04	
10	U202	**	T	S01 S02 T01 T04	
11	U203	**	T	S01 S02 T01 T04	
12	U207	**	T	S01 S02 T01 T04	
13	U208	**	T	S01 S02 T01 T04	
14	U209	**	T	S01 S02 T01 T04	
15	U210	**	T	S01 S02 T01 T04	
16	U211	**	T	S01 S02 T01 T04	
17	U213	**	T	S01 S02 T01 T04	
18	U218	**	T	S01 S02 T01 T04	
19	U219	**	T	S01 S02 T01 T04	
20	U220	**	T	S01 S02 T01 T04	
21	U221	**	T	S01 S02 T01 T04	
22	U226	**	T	S01 S02 T01 T04	
23	U227	**	T	S01 S02 T01 T04	
24	U228	**	T	S01 S02 T01 T04	
25	U238	**	T	S01 S02 T01 T04	
26	U239	**	T	S01 S02 T01 T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0484

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)		FOR OFFICIAL USE ONLY	
K Y D 0 2 4 1 1 1 9 8 1		DUP	DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. PROCESS CODES (enter)	E. Process Description (If a code is not entered in D(1))
1.	U 3 2 8	[illegible]	T	S 0 1 S 0 2 [illegible]	
2.	U 3 5 3	[illegible]	T	S 0 1 S 0 2 [illegible]	
3.	U 3 5 9	[illegible]	T	S 0 1 S 0 2 [illegible]	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					

EPA Form 3510-3 (8-80)

(Enter "A", "B", "C", or "D" [illegible])

*Estimate quantities only for waste [illegible]

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

CD21 003

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

CD2F 003

0486

A. Facility Information

1. Respondent Name and Title:
Leslie M. Cook, Permitting Analyst

Company:
Southdown Environmental Systems

Phone number:
(713) 653-8987

2. Name and address of company that owns the cement kilns at this facility:
Southdown, Inc., 1200 Smith Street, Suite 2400, Houston, Texas 77002

Facility name, location, and address:
Southdown, Inc., Odessa Facility, P.O. Box 1574, Odessa, Texas 79760 (13 miles west of Odessa on Interstate 20 (Exit 104)
EPA ID of burner: TXD 982293151

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: NONE

EPA ID of other on-site hazardous waste transporter: NONE
marketer: NONE
storer: NONE

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

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.

This section is not applicable to the Odessa facility because it is not burning hazardous waste.

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 _____

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

CD2F 003

0487

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: _____

This section does not apply to the Odessa Facility because it is not yet burning hazardous waste.

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	90,000 gallons	unknown
Liquid Tanks	N/A	160,000 gallons	unknown
Other (specify)	N/A	N/A	N/A

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

CD2F 003

0488

6b. What processing operations do you perform on-site for liquid wastes?[1]

This section does not apply to the Odessa Facility because it does not now, nor does it anticipate, engaging in processing activities.

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

This section does not apply to the Odessa Facility because it does not now, nor does it anticipate, engaging in processing activities.

[1] 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.

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

CD2F 003

0489

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.

This section does not apply to the Odessa Facility because it does not own, nor does it anticipate, engaging in processing activities.

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				
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total				

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

CD2F 003

0490

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 process, rotary

Clinker capacity (tons/hr): 31 tons/hour

Thermal input (Btu/ton clinker): 5.49 million Btu/ton

Type of cement product(s) produced in this kiln: Type I, Type II and Class C

Total hours operating per year on average: 6,857 hours

Type(s) of hazardous waste feed system(s) currently used with this kiln:
Hazardous waste is not currently being burned at the Odessa Facility.

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

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

CD2F 003

0491

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.)

Hazardous waste is not currently being burned at the Odessa Facility.

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: ____ (%)

Hazardous waste is not currently being burned at the Odessa Facility.

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

CD2F 003

0492

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					
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:
Hazardous waste is not currently being burned at the Cassa Facility.

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

CD2F 003

0493

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? Three times per year (average) as needed.

How long? One week each shut down.

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):
1994

b) Physical changes (include planned schedule):
Because the Odessa Facility is in the earliest stages of planning for the introduction of HWF to its cement making process, there is not yet a set schedule for physical changes to the plant.

c) Regulatory modifications (include planned schedule):
Because the Odessa Facility is in the earliest stages of planning for the introduction of HWF to its cement making process there is not a set schedule for regulatory modification. It is evident, however, that a RCRA Part B permit must be acquired and that air permits must be modified.

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

CD2F 003

0494

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			

This section is not applicable because the Odessa Facility is not currently burning hazardous waste.

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

CD2F 003

0495

"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			

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

CD2F 003

0496

Liquid Waste Acceptance Limits As Burned

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			

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

CD2F 003

0 4 9 7

"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			

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

CD2F 003

0498

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: 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" 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			

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

CD2F 003

0459

"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			

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

CD2F 003

0500

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: 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" 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			

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

CD2F 003

0 5 0 1

"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			

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

CD2F 003

0502

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: 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" 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			

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

CD2F 003

0503

"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			

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

CD2F 003

0504

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: 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" Nonpumpable Sludges Waste Limitations			
Property	Minimum Allowable (specify units)	Maximum Allowable (specify units)	Limiting Factor
Heat of Combustion			
Water Content			
Total Solids Content			
Total Incrganics 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
If the filmed image is less clear than this Notice it is due to the quality of the document being filmed.

CD2F 003

0505

"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			

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

CD2F 003

0506

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			

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

CD2F 003

0 5 0 7

"As Received" 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			

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

CD2F 003

0508

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

CD2F 003

0509

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.

"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			

"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			

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

CD2F 003

0 5 1 0

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			

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

CD2F 003

0 5 1 1

"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			

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

CD2F 003

0 5 1 2

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: NA

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			

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

CD2F 003

0513

"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			

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

CD2F 003

0 5 1 4

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			

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

CD2F003

0515

"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			

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

CD2F 003

0 5 1 6

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			

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

CD2F 003

0 5 1 7

"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			

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

CD2F 003

0 5 1 8

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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)				
Personal Protection Equipment (e.g., Tyvex 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.				

This section is not applicable as the Odessa Facility is not yet burning hazardous waste and, in fact, is not far enough into the permitting process to anticipate what debris would be accepted.

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

CD2F 003

0519

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

This section is not applicable because the Odessa Facility is not currently burning hazardous waste.

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

This section is not applicable because the Odessa Facility is not currently burning hazardous waste.

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

CD2F 003

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.

The Odessa Facility does not yet have interim status.

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.

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?

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

CD2F003

0521

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 6, 214/767-2600	OT*	8/20/91
RCRA Storage	USEPA, Region 6, 214/767-2600	OT**	—
RCRA Treatment	not applicable	NR	—
Clean Air Act (PSD)	USEPA, Region 6 214/767-2600	OT**	—
Other (specify)			
State Hazardous Waste	Texas Water Commission, 512/463-7830	OT**	—
Air Emission	Texas Air Control Board, 512/451-5711	OT**	—
Land Use/Siting	not applicable	NR	—
Other (specify)			
Local Hazardous Waste	not applicable	NR	—
Air Emission	TACB - Ector County 409/744-0418	OT**	
Land Use/Siting	not applicable	NR	—
Other (specify)			

* Submit Certification of Compliance
** Planning to submit application
*** Planning to modify

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

CD2F 003

0522

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.

Because the Odessa Facility is in the earliest stages of planning for the addition of HWF to its cement making process, there is not yet a set timeline for application submission for new permits or for modification submission for existing permits. At some point, however, modifications will be made to the PSD permit and TACB permits. As well, an application will be submitted for a RCRA Part B permit.

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

August 26, 1991

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

CD2I 03

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

X 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):

1994

b) Effect on hazardous waste capacity:

HWF burning capacity will be added to the cement making process at the Odessa Facility. Exact quantities have not yet been determined.

c) Modifications:

All modifications are in the beginning planning stages.

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

CD2F 003

0524

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

CD2F 003

0 5 2 5

SUPPLEMENTAL QUESTION SET FOR ADDITIONAL KILNS

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: Dry process rotary with preheater

Clinker capacity (tons/hr): 35 tons/hour

Thermal input (Btu/ton clinker): 4.09 million Btu/ton

Type of cement product(s) produced in this kiln: Type 1, Type 2 and Class G

Total hours operating per year on average: 6,853 hours

Type(s) of hazardous waste feed system(s) currently used with this kiln:
Hazardous waste is not currently being burned at the Colessa Facility.

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

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

CD2F 003

0526

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.) This section does not apply to the Odessa Facility because it does not now, nor does it anticipate engaging in processing activities

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 solids originally generated as solids: _____ (%)

Hazardous waste is not currently being burned at the Odessa Facility.

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

CD2F 003

0527

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:
Hazardous waste is not currently being burned at the Odessa Facility.

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

CD2F 003

0528

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? Three times per year (average) as needed.

How long? One week for each shut-down.

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):
1994

b) Physical changes (include planned schedule):
HWF burning capacity will be added to the cement making process at the Odessa Facility. Exact quantities have not yet been determined.

c) Regulatory modifications (include planned schedule):
All modifications are in the beginning planning stages.

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

CD2F 003

0529

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

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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)				
Paper or Cardboard Materials				
Filter Cartridges				
~~Wood Materials~~				
Rubber Objects (e.g., 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)				
Concrete Debris				
Refractory Brick				
Other Bricks				
Batteries				
Battery ~~Parts~~ Cases				
Printed Circuit Boards				
Electrical Wires ~~or~~ Switches ~~etc~~				
~~Other Electrical Components~~				

This section is not applicable because the Odessa Facility is not currently burning hazardous waste.

CD2F 003

0530

Attachment for Southdown, Inc., Odessa Facility

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)														FOR OFFICIAL USE ONLY				
W	X	D	9	8	2	2	9	3	1	5	1		1	W	DUP		2	DUP

V. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)				2. Process Description (If a code is not entered in D(1))
1	D001	100,000	T	S01	S02	T01	T04	
	D002	**	T	S01	S02	T01	T04	
3	D004	**	T	S01	S02	T01	T04	
	D005	**	T	S01	S02	T01	T04	
5	D006	**	T	S01	S02	T01	T04	
	D007	**	T	S01	S02	T01	T04	
7	D008	**	T	S01	S02	T01	T04	
	D009	**	T	S01	S02	T01	T04	
9	D010	**	T	S01	S02	T01	T04	
1	D011	**	T	S01	S02	T01	T04	
1	D018	**	T	S01	S02	T01	T04	
1	D019	**	T	S01	S02	T01	T04	
1	D021	**	T	S01	S02	T01	T04	
14	D022	**	T	S01	S02	T01	T04	
1	D023	**	T	S01	S02	T01	T04	
16	D024	**	T	S01	S02	T01	T04	
1	D025	**	T	S01	S02	T01	T04	
18	D026	**	T	S01	S02	T01	T04	
1	D027	**	T	S01	S02	T01	T04	
20	D028	**	T	S01	S02	T01	T04	
2	D029	**	T	S01	S02	T01	T04	
22	D030	**	T	S01	S02	T01	T04	
2	D032	**	T	S01	S02	T01	T04	
24	D033	**	T	S01	S02	T01	T04	
2	D034	**	T	S01	S02	T01	T04	
26	D035	**	T	S01	S02	T01	T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0531

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1): K D 9 8 2 2 9 3 1 5 1 1

FOR OFFICIAL USE ONLY: W DUP 2 DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. PROCESS CODES (enter)				E. Process Description (if a code is not entered in D(1))
1	D036	100,000	T	S01	S02	T01	T04	
2	D037	**	T	S01	S02	T01	T04	
3	D038	**	T	S01	S02	T01	T04	
4	D039	**	T	S01	S02	T01	T04	
5	D040	**	T	S01	S02	T01	T04	
6	D043	**	T	S01	S02	T01	T04	
7	F001	**	T	S01	S02	T01	T04	
8	F002	**	T	S01	S02	T01	T04	
9	F003	**	T	S01	S02	T01	T04	
10	F004	**	T	S01	S02	T01	T04	
11	F005	**	T	S01	S02	T01	T04	
12	F006	**	T	S01	S02	T01	T04	
13	F019	**	T	S01	S02	T01	T04	
14	F024	**	T	S01	S02	T01	T04	
15	F025	**	T	S01	S02	T01	T04	
16	F032	**	T	S01	S02	T01	T04	
17	F034	**	T	S01	S02	T01	T04	
18	F035	**	T	S01	S02	T01	T04	
19	F037	**	T	S01	S02	T01	T04	
20	F038	**	T	S01	S02	T01	T04	
21	F039	**	T	S01	S02	T01	T04	
22	K001	**	T	S01	S02	T01	T04	
23	K002	**	T	S01	S02	T01	T04	
24	K003	**	T	S01	S02	T01	T04	
25	K004	**	T	S01	S02	T01	T04	
26	K005	**	T	S01	S02	T01	T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0552

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W X D 9 8 2 2 9 3 1 5 1 1	W DUP 2 DUP

V DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	D. PROCESS CODES (enter)				E. Process Description (If a code is not entered in D(1))
	K006	100,000	T	S01	S02	T01	T04	
2	K007	--	T	S01	S02	T01	T04	
	K008	--	T	S01	S02	T01	T04	
4	K009	--	T	S01	S02	T01	T04	
	K010	--	T	S01	S02	T01	T04	
	K011	--	T	S01	S02	T01	T04	
	K013	--	T	S01	S02	T01	T04	
	K014	--	T	S01	S02	T01	T04	
9	K015	--	T	S01	S02	T01	T04	
1	K016	--	T	S01	S02	T01	T04	
11	K017	--	T	S01	S02	T01	T04	
1	K018	--	T	S01	S02	T01	T04	
13	K019	--	T	S01	S02	T01	T04	
1	K020	--	T	S01	S02	T01	T04	
15	K022	--	T	S01	S02	T01	T04	
	K023	--	T	S01	S02	T01	T04	
17	K024	--	T	S01	S02	T01	T04	
	K025	--	T	S01	S02	T01	T04	
19	K026	--	T	S01	S02	T01	T04	
	K028	--	T	S01	S02	T01	T04	
21	K029	--	T	S01	S02	T01	T04	
	K030	--	T	S01	S02	T01	T04	
23	K035	--	T	S01	S02	T01	T04	
	K048	--	T	S01	S02	T01	T04	
25	K049	--	T	S01	S02	T01	T04	
		--						

E orm 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0533

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY	
X D 9 8 2 2 9 3 1 5 1 1	W DUP	2 DUP

D. DESCRIPTION OF HAZARDOUS WASTES (continued)

No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	K 0 5 0	100,000	T	S 0 1 S 0 2 T 0 1 T 0 4	
	K 0 5 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
3	K 0 5 2	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
	K 0 6 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
5	K 0 6 2	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
	K 0 8 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
	K 0 8 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
	K 0 8 6	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
	K 0 8 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	K 0 8 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1.	K 0 9 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	K 0 9 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1.	K 0 9 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	K 0 9 6	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	K 1 0 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
14	K 1 0 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	K 1 0 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
18	P 0 0 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	P 0 2 2	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
20	P 0 2 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	P 0 7 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
22	U 0 0 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	U 0 0 2	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
24	U 0 0 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	U 0 0 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
26	U 0 0 9	**	T	S 0 1 S 0 2 T 0 1 T 0 4	

EF Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0534

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)		FOR OFFICIAL USE ONLY	
A	X D 9 8 2 2 9 3 1 5 1 1	W DUP	2 DUP

V. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (if a code is not entered in D(1))
1	U 0 1 2	100,000	T	S 0 1 S 0 2 T 0 1 T 0 4	
	U 0 1 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
3	U 0 1 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
	U 0 1 9	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
5	U 0 2 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
	U 0 2 2	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
7	U 0 2 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
	U 0 2 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
9	U 0 2 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	U 0 2 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
11	U 0 3 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	U 0 3 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
13	U 0 3 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	U 0 3 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
15	U 0 3 9	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	U 0 4 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	U 0 4 4	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	U 0 4 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
1	U 0 4 6	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	U 0 4 7	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	U 0 4 8	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	U 0 5 1	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	U 0 5 2	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
24	U 0 5 3	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
2	U 0 5 5	**	T	S 0 1 S 0 2 T 0 1 T 0 4	
26	U 0 5 6	**	T	S 0 1 S 0 2 T 0 1 T 0 4	

EI Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line I.

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

CD2F 003

0535

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
X D 9 8 2 2 9 3 1 5 1 1	W DUP 2 DUP

V. DESCRIPTION OF HAZARDOUS WASTES (continued)

L. No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)				2. Process Description (If a code is not entered in D(1))
1	U057	100,000	T	S01	S02	T01	T04	
2	U058	**	T	S01	S02	T01	T04	
3	U063	**	T	S01	S02	T01	T04	
4	U069	**	T	S01	S02	T01	T04	
5	U070	**	T	S01	S02	T01	T04	
6	U071	**	T	S01	S02	T01	T04	
7	U072	**	T	S01	S02	T01	T04	
8	U073	**	T	S01	S02	T01	T04	
9	U074	**	T	S01	S02	T01	T04	
10	U075	**	T	S01	S02	T01	T04	
11	U076	**	T	S01	S02	T01	T04	
12	U077	**	T	S01	S02	T01	T04	
13	U078	**	T	S01	S02	T01	T04	
14	U079	**	T	S01	S02	T01	T04	
15	U080	**	T	S01	S02	T01	T04	
16	U081	**	T	S01	S02	T01	T04	
17	U082	**	T	S01	S02	T01	T04	
18	U083	**	T	S01	S02	T01	T04	
19	U084	**	T	S01	S02	T01	T04	
20	U085	**	T	S01	S02	T01	T04	
21	U101	**	T	S01	S02	T01	T04	
22	U102	**	T	S01	S02	T01	T04	
23	U107	**	T	S01	S02	T01	T04	
24	U108	**	T	S01	S02	T01	T04	
25	U112	**	T	S01	S02	T01	T04	
26	U113	**	T	S01	S02	T01	T04	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0536

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)														FOR OFFICIAL USE ONLY				
V.	X	D	9	8	2	2	9	3	1	5	1		1	W	DUP		2	DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)				2. Process Description (If a code is not entered in D(1))
1	U115	100,000	T	S01	S02	T01	T04	
2	U117	**	T	S01	S02	T01	T04	
3	U118	**	T	S01	S02	T01	T04	
4	U121	**	T	S01	S02	T01	T04	
5	U122	**	T	S01	S02	T01	T04	
6	U123	**	T	S01	S02	T01	T04	
7	U125	**	T	S01	S02	T01	T04	
8	U129	**	T	S01	S02	T01	T04	
9	U130	**	T	S01	S02	T01	T04	
10	U131	**	T	S01	S02	T01	T04	
	U132	**	T	S01	S02	T01	T04	
12	U133	**	T	S01	S02	T01	T04	
13	U140	**	T	S01	S02	T01	T04	
14	U154	**	T	S01	S02	T01	T04	
15	U159	**	T	S01	S02	T01	T04	
16	U161	**	T	S01	S02	T01	T04	
17	U162	**	T	S01	S02	T01	T04	
18	U165	**	T	S01	S02	T01	T04	
19	U169	**	T	S01	S02	T01	T04	
20	U170	**	T	S01	S02	T01	T04	
21	U171	**	T	S01	S02	T01	T04	
	U174	**	T	S01	S02	T01	T04	
23	U183	**	T	S01	S02	T01	T04	
24	U184	**	T	S01	S02	T01	T04	
25	U186	**	T	S01	S02	T01	T04	
26	U187	**	T	S01	S02	T01	T04	

 Continue on Reverse

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0577

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

CD2F 003

0538

A. **Facility Information**

1. Respondent Name and Title:
Leslie M. Cook, Permitting Analyst

Company:
Southdown Environmental Systems

Phone number:
(713) 653-8087

2. Name and address of company that owns the cement kilns at this facility:
Kosmos Cement Company, P.O. Box 72319, Louisville, KY 40272
(Southdown, Inc. 1200 Smith St, Ste. 2400, Houston, TX 77002 is the managing partner of Kosmos Cement Company).
Facility name, location, and address:
Kosmos Cement Company, Pittsburgh Facility, 200 Neville Road, Neville Island, Pittsburgh, Pennsylvania 15225

EPA ID of burner: PAD 084 365 956

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

EPA ID of on-site processor: NONE

EPA ID of other on-site hazardous waste transporter: NONE
marketer: NONE
storer: NONE

3. Number of kilns currently burning hazardous wastes at this facility: 2
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

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.

This section is not applicable to the Pittsburgh Facility because it is not yet burning hazardous waste.

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 _____

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

CD2F 003

0539

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: _____

This section does not apply to the Pittsburgh Facility because it is not yet burning hazardous waste.

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	90,000 gallons	1992
Liquid Tanks	N/A	—	—
Other (specify)	N/A	—	—

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

CD2F 003

0540

6b. What processing operations do you perform on-site for liquid wastes?[1]

This section does not apply to the Pittsburgh Facility because it does not now, nor does it anticipate, engaging in processing activities.

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

This section does not apply to the Pittsburgh Facility because it does not now, nor does it anticipate engaging in processing activities.

[1] 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.

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

CD2F 003

0541

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.

This section does not apply to the Pittsburgh Facility because it does not now, nor does it anticipate engaging in processing activity

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				
Pumpable Sludges				
Nonpumpable Sludges				
Containerized Solids				
Bulk Solids				
Dry Solids				
Total				

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

CD2F 003

0542

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: Wet process rotary

Clinker capacity (tons/hr): 50 tons/hour

Thermal input (Btu/ton clinker): 4.9 million Btu/hour

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

Total hours operating per year on average: 8,200 hours/year

Type(s) of hazardous waste feed system(s) currently used with this kiln:
Hazardous waste is not currently being burned at the Pittsburgh Facility.

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

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

CD2F 003

0543

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.)

Hazardous waste is not currently being burned at the Pittsburgh Facility.

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: _____ (%)

Hazardous waste is not currently being burned at the Pittsburgh Facility.

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

CD2F 003

0 5 4 4

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					
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:
Hazardous waste is not currently being burned at the Pittsburg Facility.

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

CD2F 003

0545

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-April

How long? 21 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):
Unknown

b) Physical changes (include planned schedule):
Installation of an injection port through which the solid HWF may be introduced to the kiln.

c) Regulatory modifications (include planned schedule):
A permit from the Allegheny County Bureau of Air Pollution Control must be approved before the port may be installed and a test burn conducted. After this, RCRA interim status will also be required; and, finally, the issuance of a RCRA Part B permit will be pursued.

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

CD2F 003

0546

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			

This section is not applicable because the Pittsburg Facility is not currently burning hazardous waste.

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

CD2F 003

0547

"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			

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

CD2F 003

0548

Liquid Waste Acceptance Limits As Burned

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			

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

CD2F 003

0549

"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			

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

CD2F 003

0 5 5 0

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: 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" 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			

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

CD2F 003

0551

"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			

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

CD2F 003

0552

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:* 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" 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			

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

CD2F 003

0553

"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			

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

CD2F 003

0554

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: 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" 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			

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

CD2F 003

0 5 5 5

"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			

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

CD2F 003

0556

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

CD2F 003

0557

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: 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" 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			

"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			

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

CD2F 003

0558

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			

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

CD2F 003

0559

"As Received" 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			

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

CD2F 003

0 5 6 0

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.

"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			

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

CD2F 003

0 5 5 1

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			

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

CD2F 003

0 5 6 2

"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			

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

CD2F 003

0563

"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			

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

CD2F 003

0 5 6 4

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			

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

CD2F 003

0 5 6 5

"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			

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

CD2F 003

0566

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			

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

CD2F 003

0 5 6 1

"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			

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

CD2F 003

0 5 6 8

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

CD2F 003

0 5 6 9

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			

"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			

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

CD2F 003

0570

19. EPA has identified several types of debris that may be contaminated with hazardous wastes. Please indicate the 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)				
Personal Protection Equipment (e.g., Tyvex 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.				

This section does not apply to the Pittsburg Facility because it is not far enough along in its permitting process to have determined which of these substances will be accepted.

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

CD2F 003

0571

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

This section is not applicable because the Pittsburgh Facility is not currently burning hazardous waste.

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

This section is not applicable because the Pittsburgh Facility is not currently burning hazardous waste.

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

CD2F 003

0572

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.

The Pittsburg Facility does not yet have interim status.

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.

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?

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

CD2F 003

0 5 7 3

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 3 215/597-9336	OT*	8/20/91
RCRA Storage	same as above	OT*2	unknown
RCRA Treatment	Not Applicable	NR	—
Clean Air Act (PSD)	Not Applicable	NR	—
Other (specify)			
State Hazardous Waste	Pennsylvania DER	OT3	unknown
Air Emission	Same as above	OT3	unknown
Land Use/Siting	Not Applicable	NR	—
Other (specify)			
Local Hazardous Waste	Not Applicable	NR	—
Air Emission	Allegheny County BAC, 412/578-5107	MA	unknown
Land Use/Siting	Not Applicable	NR	—
Other (specify)			

*Submit Certification of Compliance
*2 Preparing Application
*3 Preparing modification

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

CD2F 003

0 5 7 4

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.

A permit from the Allegheny County Bureau of Air Pollution Control is needed before a test burn can be conducted at the Pittsburgh Facility. This permit is on hold for an indefinite period of time. After this permit is secured, work will resume on the RCRA Part B permit with the goal of attaining interim status, and then a final permit.

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

August 20, 1991

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

CD2F 003

0575

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

X 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):

Upon approval by the Allegany County BAC

b) Effect on hazardous waste capacity:

Allow the burning of solid HWF.

c) Modifications:

Construction of an injection port to introduce solid HWF to the kiln.

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

CD2F 003

0 5 7 6

Cosmos Cement Company (Southdown Inc.) Pittsburg Facility - Attachment

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
A D 0 8 4 3 6 5 9 5 6 1	W DUP 2 DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. 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))
	D001	50,000	T	S01 T04	
3	D002	--	T	S01 T04	
	D004	--	T	S01 T04	
	D005	--	T	S01 T04	
	D006	--	T	S01 T04	
	D007	--	T	S01 T04	
7	D008	--	T	S01 T04	
	D009	--	T	S01 T04	
9	D010	--	T	S01 T04	
	D011	--	T	S01 T04	
	D018	--	T	S01 T04	
	D019	--	T	S01 T04	
13	D021	--	T	S01 T04	
	D022	--	T	S01 T04	
15	D023	--	T	S01 T04	
	D024	--	T	S01 T04	
17	D025	--	T	S01 T04	
	D026	--	T	S01 T04	
19	D027	--	T	S01 T04	
	D028	--	T	S01 T04	
21	D029	--	T	S01 T04	
	D030	--	T	S01 T04	
23	D032	--	T	S01 T04	
	D033	--	T	S01 T04	
25	D034	--	T	S01 T04	
	D035	--	T	S01 T04	

Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0577

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
A D 0 8 4 3 6 5 9 5 6 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. Waste No. (enter code)	B. Estimated Annual Quantity of Waste*	C. Unit of measure (enter code)	I. PROCESS CODES (enter)	2. Process Description (If a code is not entered in D(1))
1	D036	50,000	T	S01 T04	
2	D037	**	T	S01 T04	
3	D038	**	T	S01 T04	
4	D039	**	T	S01 T04	
5	D040	**	T	S01 T04	
6	D043	**	T	S01 T04	
7	F001	**	T	S01 T04	
8	F002	**	T	S01 T04	
9	F003	**	T	S01 T04	
0	F004	**	T	S01 T04	
11	F005	**	T	S01 T04	
	F006	**	T	S01 T04	
13	F019	**	T	S01 T04	
4	F024	**	T	S01 T04	
15	F025	**	T	S01 T04	
6	F032	**	T	S01 T04	
17	F034	**	T	S01 T04	
8	F035	**	T	S01 T04	
19.	F037	**	T	S01 T04	
0	F038	**	T	S01 T04	
21	F039	**	T	S01 T04	
2	K001	**	T	S01 T04	
23	K002	**	T	S01 T04	
4	K003	**	T	S01 T04	
5	K004	**	T	S01 T04	
26	K005	**	T	S01 T04	

Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 5 7 8

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W P A D 0 8 4 3 6 5 9 5 6 1	W D U P 2 DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard 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	K 0 0 6	50,000	T	S 0 1 T 0 4	
2	K 0 0 7	**	T	S 0 1 T 0 4	
3	K 0 0 8	**	T	S 0 1 T 0 4	
4	K 0 0 9	**	T	S 0 1 T 0 4	
5	K 0 1 0	**	T	S 0 1 T 0 4	
6	K 0 1 1	**	T	S 0 1 T 0 4	
7	K 0 1 3	**	T	S 0 1 T 0 4	
8	K 0 1 4	**	T	S 0 1 T 0 4	
9	K 0 1 5	**	T	S 0 1 T 0 4	
10	K 0 1 6	**	T	S 0 1 T 0 4	
11	K 0 1 7	**	T	S 0 1 T 0 4	
12	K 0 1 8	**	T	S 0 1 T 0 4	
13	K 0 1 9	**	T	S 0 1 T 0 4	
14	K 0 2 0	**	T	S 0 1 T 0 4	
15	K 0 2 2	**	T	S 0 1 T 0 4	
16	K 0 2 3	**	T	S 0 1 T 0 4	
17	K 0 2 4	**	T	S 0 1 T 0 4	
18	K 0 2 5	**	T	S 0 1 T 0 4	
19	K 0 2 6	**	T	S 0 1 T 0 4	
20	K 0 2 8	**	T	S 0 1 T 0 4	
21	K 0 2 9	**	T	S 0 1 T 0 4	
22	K 0 3 0	**	T	S 0 1 T 0 4	
23	K 0 3 5	**	T	S 0 1 T 0 4	
24	K 0 4 8	**	T	S 0 1 T 0 4	
25	K 0 4 9	**	T	S 0 1 T 0 4	
		**			

E... form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 5 7 9

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
P A D 0 8 4 3 6 5 9 5 6 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. 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	K 0 5 0	50,000	T	S 0 1 T 0 4	
2	K 0 5 1	**	T	S 0 1 T 0 4	
3	K 0 5 2	**	T	S 0 1 T 0 4	
4	K 0 6 1	**	T	S 0 1 T 0 4	
5	K 0 6 2	**	T	S 0 1 T 0 4	
6	K 0 8 3	**	T	S 0 1 T 0 4	
7	K 0 8 5	**	T	S 0 1 T 0 4	
8	K 0 8 6	**	T	S 0 1 T 0 4	
9	K 0 8 7	**	T	S 0 1 T 0 4	
10	K 0 8 8	**	T	S 0 1 T 0 4	
11	K 0 9 3	**	T	S 0 1 T 0 4	
12	K 0 9 4	**	T	S 0 1 T 0 4	
13	K 0 9 5	**	T	S 0 1 T 0 4	
14	K 0 9 6	**	T	S 0 1 T 0 4	
15	K 1 0 3	**	T	S 0 1 T 0 4	
16	K 1 0 4	**	T	S 0 1 T 0 4	
17	K 1 0 5	**	T	S 0 1 T 0 4	
18	P 0 0 5	**	T	S 0 1 T 0 4	
19	P 0 2 2	**	T	S 0 1 T 0 4	
20	P 0 2 8	**	T	S 0 1 T 0 4	
21	P 0 7 7	**	T	S 0 1 T 0 4	
22	U 0 0 1	**	T	S 0 1 T 0 4	
23	U 0 0 2	**	T	S 0 1 T 0 4	
24	U 0 0 3	**	T	S 0 1 T 0 4	
25	U 0 0 4	**	T	S 0 1 T 0 4	
26	U 0 0 9	**	T	S 0 1 T 0 4	

Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 5 8 0

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-580004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
VA P A D 0 8 4 3 6 5 9 5 6 1	W DUP 2 DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. 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 1 2	50,000	T	S 0 1 T 0 4	
2	U 0 1 7	**	T	S 0 1 S 0 4	
3	U 0 1 8	**	T	S 0 1 S 0 4	
4	U 0 1 9	**	T	S 0 1 S 0 4	
5	U 0 2 1	**	T	S 0 1 S 0 4	
6	U 0 2 2	**	T	S 0 1 S 0 4	
7	U 0 2 3	**	T	S 0 1 S 0 4	
8	U 0 2 4	**	T	S 0 1 S 0 4	
9	U 0 2 5	**	T	S 0 1 S 0 4	
10	U 0 2 8	**	T	S 0 1 S 0 4	
11	U 0 3 1	**	T	S 0 1 S 0 4	
12	U 0 3 4	**	T	S 0 1 S 0 4	
13	U 0 3 7	**	T	S 0 1 S 0 4	
14	U 0 3 8	**	T	S 0 1 S 0 4	
15	U 0 3 9	**	T	S 0 1 S 0 4	
16	U 0 4 1	**	T	S 0 1 S 0 4	
17	U 0 4 4	**	T	S 0 1 S 0 4	
18	U 0 4 5	**	T	S 0 1 S 0 4	
19	U 0 4 6	**	T	S 0 1 S 0 4	
20	U 0 4 7	**	T	S 0 1 S 0 4	
21	U 0 4 8	**	T	S 0 1 S 0 4	
22	U 0 5 1	**	T	S 0 1 S 0 4	
23	U 0 5 2	**	T	S 0 1 S 0 4	
24	U 0 5 3	**	T	S 0 1 S 0 4	
25	U 0 5 5	**	T	S 0 1 S 0 4	
26	U 0 5 6	**	T	S 0 1 S 0 4	

Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 5 8 1

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
A D 0 8 4 3 6 5 9 5 6 1	W DUP 2 DUP

D. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. 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	U057	50,000	T	S01 S04	
2	U058	**	T	S01 S04	
3	U063	**	T	S01 S04	
4	U069	**	T	S01 S04	
5	U070	**	T	S01 S04	
6	U071	**	T	S01 S04	
7	U072	**	T	S01 S04	
8	U073	**	T	S01 S04	
9	U074	**	T	S01 S04	
10	U075	**	T	S01 S04	
11	U076	**	T	S01 S04	
12	U077	**	T	S01 S04	
13	U078	**	T	S01 S04	
14	U079	**	T	S01 S04	
15	U080	**	T	S01 S04	
16	U081	**	T	S01 S04	
17	U082	**	T	S01 S04	
18	U083	**	T	S01 S04	
19	U084	**	T	S01 S04	
20	U088	**	T	S01 S04	
21	U101	**	T	S01 S04	
22	U102	**	T	S01 S04	
23	U107	**	T	S01 S04	
24	U108	**	T	S01 S04	
25	U112	**	T	S01 S04	
26	U113	**	T	S01 S04	

F Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 5 8 2

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W P A D 0 8 4 3 6 5 9 5 6 1	W DUP 2 DUP

DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard 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 1 1 5	50,000	T	S 0 1 S 0 4	
2	U 1 1 7	**	T	S 0 1 S 0 4	
3	U 1 1 8	**	T	S 0 1 S 0 4	
4	U 1 2 1	**	T	S 0 1 S 0 4	
5	U 1 2 2	**	T	S 0 1 S 0 4	
6	U 1 2 3	**	T	S 0 1 S 0 4	
7	U 1 2 5	**	T	S 0 1 S 0 4	
8	U 1 2 9	**	T	S 0 1 S 0 4	
9	U 1 3 0	**	T	S 0 1 S 0 4	
10	U 1 3 1	**	T	S 0 1 S 0 4	
	U 1 3 2	**	T	S 0 1 S 0 4	
12	U 1 3 3	**	T	S 0 1 S 0 4	
13	U 1 4 0	**	T	S 0 1 S 0 4	
14	U 1 5 4	**	T	S 0 1 S 0 4	
15	U 1 5 9	**	T	S 0 1 S 0 4	
	U 1 6 1	**	T	S 0 1 S 0 4	
17	U 1 6 2	**	T	S 0 1 S 0 4	
	U 1 6 5	**	T	S 0 1 S 0 4	
19	U 1 6 9	**	T	S 0 1 S 0 4	
	U 1 7 0	**	T	S 0 1 S 0 4	
21	U 1 7 1	**	T	S 0 1 S 0 4	
	U 1 7 4	**	T	S 0 1 S 0 4	
23	U 1 8 3	**	T	S 0 1 S 0 4	
24	U 1 8 4	**	T	S 0 1 S 0 4	
25	U 1 8 6	**	T	S 0 1 S 0 4	
	U 1 8 7	**	T	S 0 1 S	

EPA Form 3510-3 (4-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0 5 8 3

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
1 A D 0 8 4 3 6 5 9 5 6 1	W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

Line No.	A. EPA Hazard. 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 1 8 8	50,000	T	S 0 1 S 0 4	
2	U 1 9 0	**	T	S 0 1 S 0 4	
3	U 1 9 1	**	T	S 0 1 S 0 4	
	U 1 9 6	**	T	S 0 1 S 0 4	
5	U 1 9 7	**	T	S 0 1 S 0 4	
	U 2 0 1	**	T	S 0 1 S 0 4	
7	U 2 0 2	**	T	S 0 1 S 0 4	
	U 2 0 3	**	T	S 0 1 S 0 4	
9	U 2 0 7	**	T	S 0 1 S 0 4	
	U 2 0 8	**	T	S 0 1 S 0 4	
11	U 2 0 9	**	T	S 0 1 S 0 4	
	U 2 1 0	**	T	S 0 1 S 0 4	
13	U 2 1 1	**	T	S 0 1 S 0 4	
14	U 2 1 3	**	T	S 0 1 S 0 4	
15	U 2 1 8	**	T	S 0 1 S 0 4	
16	U 2 1 9	**	T	S 0 1 S 0 4	
17	U 2 2 0	**	T	S 0 1 S 0 4	
18	U 2 2 1	**	T	S 0 1 S 0 4	
19	U 2 2 6	**	T	S 0 1 S 0 4	
20	U 2 2 7	**	T	S 0 1 S 0 4	
21	U 2 2 8	**	T	S 0 1 S 0 4	
22	U 2 3 8	**	T	S 0 1 S 0 4	
23	U 2 3 9	**	T	S 0 1 S 0 4	
24	U 3 2 8	**	T	S 0 1 S 0 4	
25	U 3 5 3	**	T	S 0 1 S 0 4	
26	U 3 5 9	**	T	S 0 1 S 0 4	

EPA Form 3510-3 (6-80)

(enter "A", "B", "C", etc. behind the "6" to identify photocopied pages)

*Estimated quantities only. Subject to change. **Quantity included in total listed on line 1.

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

CD2F 003

0584

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

CD2F 003

0 5 8 5

PHONE LOG

Contact: Eric Hansen

Company: Ash Grove Cement

Phone: (913) 451-8900

Date: 9 September 1991

Caller: Lisette Lambregts

Subject: Btu limit changes for containerized solids

Report of Discussion:

The current limit of 6,000 Btu/lb will decrease to 4,000 Btu/lb, when they certify BIF compliance. The decrease to 4,000 Btu/lb is specifically to accommodate K-wastes, that have a high water content. 4,000 Btu/lb is the general Ash Grove minimum. It is a technical, or practical limit and they will not use feed with less heat content than that.

The current 6,000 Btu/lb is a state-mandated lower limit, both in Kansas and Nebraska. With BIF compliance, states are relaxing their own rules and guidelines and adopting BIF.

Contact: Hans Steuch

Company: Ash Grove West Cement Company

Phone: (503) 293-2333

Date: 10 September 1991

Caller: Lisette Lambregts

Subject: Anticipated hazardous waste burning capacity

Report of Discussion:

The capacity for Clancy, MT plant was in the Leamington, Utah survey, and vice versa.

They are planning to burn containerized solids only.

Hans Steuch puts the chances of Utah moratorium lifting at 10-20%. They are remaining optimistic that they will be able to convince state legislators in Salt Lake City, but it does not look good for beginning hazardous waste burning in June, 1992 as planned.

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

CD2F 003

0586

Contact: Hafed Belhadj, Permitting

Company: Tennessee Division of Solid Waste

Phone: (615) 741-3424

Date: 19 September, 1991

Caller: Lisette Lambregts

Subject: Southdown Dixie's Class II modification for F037 and F038 wastes

Report of Discussion:

Southdown Dixie (Knoxville, TN)'s survey reports that they are waiting for the Tennessee Division of Solid Waste to approve their Class II modification adding these, and other waste codes. Mr. Belhadj reported that everything has been done, this decision is in hands of the EPA, call Rick Gillam, 404 347 3433.

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

CD2F 003

0 5 8 7

Contact: Rick Gillam

Company: EPA region 4 office

Phone: (404) 347-3433

Date: 23 September, 1991

Caller: Lisette Lambregts

Subject: Southdown Dixie's Class II modification status

Report of Discussion:

Mr. Gillam could not say when this modification would be permitted, but indicated that adding several waste codes to their current permit would very likely be completed by May, 1992. He named Glenn Raynor at Southdown, as the facility-level person to discuss permit issues with.

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

CD2F 003

0 5 8 8

Contact: Leslie Cook, Permitting Analyst

Company: Southdown, Inc.

Phone: (713) 653-8087

Date: 10 September, 1991

Caller: Lisette Lambregts

Subject: Future capacity at facilities not burning HW now, Btu limit changes

Report of Discussion:

Southdown, Odessa, TX, Kosmos, Pittsburgh, PA, and Kosmos, Kosmosdale, KY are not currently burning hazardous waste. The Kosmosdale facility is intending to begin in 1992, the others closer to 1994. Ms. Cook did not want to give capacity estimates for these facilities, because they could be wildly inaccurate. The Kosmosdale facility is in the middle of its test burn, the others are still in construction and planning stages. She is reluctant to put anything in the public record that they may be held to later.

Ms. Cook did not believe their minimum Btu limit (10,000 Btu/lb for liquids, 6,000 Btu/lb for containerized solids) would decrease significantly once they certify compliance with the BIF rule. She has been working with Dan Heinz, facility manager, and the issue has not been raised.

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

CD2F 003

0 5 8 9