KOOGLER & ASSOCIATES
ENVIRONMENTAL SERVICES
4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
352/377-5822 • FAX/377-7158

August 23, 2000

Ms. Mallika Muthiah, P.E.
Section Chief
Air Quality Management Division
Metropolitan Dade County
Environmental Resources Management
33 SW 2nd Avenue
Miami, Florida 33130-1540

SUBJECT: CSR Rinker Materials Corporation
Amendments to Title V Air Operation Permit Application
DERM File No. 0250014-003-AV

Dear Ms. Muthiah:

Please find enclosed two (2) copies of the amended permit application. These copies are fully executed by the Responsible Official (Application and Compliance Plan) and the Professional Engineer (Application).

Please note changes from the DRAFT of July 14, 2000. Specifically, changes were made on Pages 16, 19, 20, 29, 32, 33, 54, 57, 58, 67, 88, 98, 101, 102, 111, 114, and 115.

If you have any questions or require further information, please contact me.

Sincerely,

Steven C. Cullen, PE
Koogler & Associates

copies to: Michael Vardeman – CSR Rinker

Department of Environmental Protection

Division of Air Resources Management

RECEIVED
AUG 25 2000
Air Quality Management Division

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: **CSR Rinker Materials Corporation**	
2. Site Name: **Miami Cement Plant**	
3. Facility Identification Number: **0250014**	[ ] Unknown
4. Facility Location: Street Address or Other Locator: **1200 NW 137th Avenue** City: **Miami** County: **Dade** Zip Code: **33182**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Steve Cullen – Senior Project Engineer**
2. Application Contact Mailing Address: Organization/Firm: **Koogler & Associates** Street Address: **4014 NW 13th Street** City: **Gainesville** State: **Florida** Zip Code: **32609**
3. Application Contact Telephone Numbers: Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[X] Initial Title V air operation permit for an existing facility which is classified as a Title V source. **{Amended Application}**

[ ] Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number:_____

[ ] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number:_____

Operation permit number to be revised:_____

[ ] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected:_____

[ ] Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised:_____

Reason for revision:_____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Air construction permit to construct or modify one or more emissions units.

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
Sharon DeHays – Vice President of Cement Operations

2. Owner/Authorized Representative or Responsible Official Mailing Address:
Organization/Firm: **CSR Rinker Materials Corporation**
Street Address: **1200 NW 137th Avenue**
City: **Miami** State: **Florida** Zip Code: **33182**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
Telephone: **(305) 229-2951** Fax: **(305) 229-8015**

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative(check here [ ], if so) or the responsible official (check here [X], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

Sharon M DeHays — Aug 1, 2000

Signature Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **Steven C. Cullen, PE**
Registration Number: **45188**

2. Professional Engineer Mailing Address:
Organization/Firm: **Koogler & Associates**
Street Address: **4014 NW 13th Street**
City: **Gainesville** State: **Florida** Zip Code: **32609**

3. Professional Engineer Telephone Numbers:
Telephone: **(352) 377-5822** Fax: **(352) 377-7158**
e-mail: koogler@worldnet.att.net

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [X], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [ ], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [X], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature _____ Date 7/26/00

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
004	(32) Bulk Cement Silos	AV	NA
015	Cement Truck Loading		
016	Raw Material Handling (Fugitive)		
017	Raw Material Handling (Baghouses)		
018	In-Line Kiln/Raw Mill and Clinker Cooler		
019	Finish Mill System		
020	Coal Mill System		

Application Processing Fee

Check one: [ ] Attached - Amount: $_____ [X] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

The cement plant modernization project is being completed in accordance with the application and Air Construction Permit 0250014-002-AC. This Title V Permit Application will amend the Title V Permit Application submitted in June 1996.

This application will incorporate the new emissions units from Air Construction Permit 0250014-002-AC, and will remove the out-of-service emissions units from permitting. The emissions units to be removed are:

- **EU ID 007: Coal Handling System (replaced by EU ID 020)**
- **EU ID 008/009/010/011: Kilns and Clinker Coolers #1 & #2 (replaced by EU ID 018)**

The permittee suggests that the cement storage activities described in Emissions Unit 019 be incorporated with existing Emissions Unit 004, as new control devices have been added to the existing silos and new silos with control devices have been constructed.

The permittee suggests that the cement truck loading activities described in Emissions Unit 019 be incorporated with existing Emissions Unit 015, as new control devices have been added to the existing truck loading system.

2. Projected or Actual Date of Commencement of Construction: **September 11, 1997**

3. Projected Date of Completion of Construction: **September 11, 2000**

Application Comment

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **17** East (km): **558.2** North (km): **2851.2**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): **25/46/45** Longitude (DD/MM/SS): **80/25/10**			
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **32**	6. Facility SIC(s): **3241 4953 3271 1422 3273**
7. Facility Comment (limit to 500 characters):			

Facility Contact

1. Name and Title of Facility Contact: **Michael D. Vardeman – Cement Division Environmental Manager**
2. Facility Contact Mailing Address: Organization/Firm: **CSR Rinker Materials Corporation** Street Address: **1200 NW 137th Avenue** City: **Miami** State: **Florida** Zip Code: **33182**
3. Facility Contact Telephone Numbers: Telephone: **(305) 229-2955** Fax: **(305) 229-8015** **e-mail: Mvardeman@csra.com**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[ ] Unknown
2. [X] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [X] Major Source of Hazardous Air Pollutants (HAPs)?	
5. [ ] Synthetic Minor Source of HAPs?	
6. [X] One or More Emissions Units Subject to NSPS?	
7. [X] One or More Emission Units Subject to NESHAP?	
8. [ ] Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters):	
Certain emissions units will be subject to NESHAP Subpart LLL after June 10, 2002.	

List of Applicable Regulations

Title V Core List	

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
PM/PM10	**A**				
SO2	**A**				
NOx	**A**				
CO	**A**				
VOC	**A**				
DIOX AFTER 6/10/02	**B**				
PB	**B**				
H150: PCB	**B**				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [ ] Attached, Document ID:_____ [ ] Not Applicable [**X**] Waiver Requested
2. Facility Plot Plan: [ ] Attached, Document ID:_____ [ ] Not Applicable [**X**] Waiver Requested
3. Process Flow Diagram(s): [**X**] Attached, Document ID: **Process Flowsheets 1-21**
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID:_____ [ ] Not Applicable [**X**] Waiver Requested
5. Fugitive Emissions Identification: [ ] Attached, Document ID:_____ [ ] Not Applicable [**X**] Waiver Requested
6. Supplemental Information for Construction Permit Application: [ ] Attached, Document ID:_____ [**X**] Not Applicable
7. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
   [ ] Attached, Document ID:_____ [**X**] Not Applicable

9. List of Equipment/Activities Regulated under Title VI:
   [ ] Attached, Document ID:_____
   [ ] Equipment/Activities On site but Not Required to be Individually Listed
   [**X**] Not Applicable

10. Alternative Methods of Operation:
    [ ] Attached, Document ID:_____ [**X**] Not Applicable

11. Alternative Modes of Operation (Emissions Trading):
    [ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Identification of Additional Applicable Requirements:
    [ ] Attached, Document ID:_____ [**X**] Not Applicable

13. Risk Management Plan Verification:
    [ ] Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID:_____) or previously submitted to DEP (Date and DEP Office:_____)
    [ ] Plan to be submitted to CEPPO (Date required:_____)
    [**X**] Not Applicable

14. Compliance ~~Report and~~ Plan:
    [**X**] Attached, Document ID: **Compliance Plan** [ ] Not Applicable

15. Compliance Certification (Hard-copy Required):
    [ ] Attached, Document ID:_____ [**X**] Not Applicable

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

(32) Bulk Cement Storage Silos

4. Emissions Unit Identification Number: ID: **004**
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code: **C**	6. Initial Startup Date: **NA**	7. Emissions Unit Major Group SIC Code: **32**	8. Acid Rain Unit? [ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

These activities are regulated for opacity by NSPS Subpart F before June 10, 2002; and by NESHAP Subpart LLL after June 10, 2002. Permittee suggests that the two new cement storage silos be incorporated into this existing emissions unit. The plant modernization project added two new baghouses to the existing silos, and added a new baghouse for the new silos. The existing baghouses are still in use.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Fabric Filters – Low Temperature

2. Control Device or Method Code(s): **016, 017, 018**

Emissions Unit Details

1. Package Unit: **NA**		
Manufacturer:	Model Number:	
2. Generator Nameplate Rating: **NA**	MW	
3. Incinerator Information: **NA**		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **NA**		mmBtu/hr
2. Maximum Incineration Rate: **NA**	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **Not limited by air construction permit**		
4. Maximum Production Rate: **NA**		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	**8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

NSPS Subpart F **Until June 10, 2002**	
NESHAP Subpart LLL **After June 10, 2002**	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **Process Flowsheet 17**	2. Emission Point Type Code: **3**

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):

Existing: (2) Northern Blower Baghouses

New:
590-BF1 Baghouse for Cement Storage Silos (on #11): 9000 acfm
590-BF2 Baghouse for Cement Storage Silos (on #46): 8500 acfm
596-BF1 Baghouse for Cement Storage Silos (on new silos): 8000 acfm

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NA**

5. Discharge Type Code:	6. Stack Height: **NA** feet	7. Exit Diameter: **NA** feet
8. Exit Temperature: **° F**	9. Actual Volumetric Flow Rate: **NA** acfm	10. Water Vapor: **NA** %
11. Maximum Dry Standard Flow Rate: **NA** dscfm	12. Nonstack Emission Point Height: feet	

13. Emission Point UTM Coordinates:

Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters):

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Cement Manufacturing: Dry Process: Cement Silos**		
2. Source Classification Code (SCC): **3-05-006-18**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **204**	5. Maximum Annual Rate: **1,787,040**	6. Estimated Annual Activity Factor: **NA**
7. Maximum % Sulfur: **NA**	8. Maximum % Ash: **NA**	9. Million Btu per SCC Unit: **NA**
10. Segment Comment (limit to 200 characters): **Loading rate for cement silos =** **20 (FM1) + 20 (FM2) + 20 (FM3) + 17 (FM4) + 27 (FM5) + 100 (FM6) = 204 TPH**		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**016/017/018**		**EL**
PM10	**016/017/018**		**EL**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **2.19** lb/hour **9.6** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.01 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **25,500 acfm x 0.01 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 2.19 lb/hour at 8760 hours/year = 9.6 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): **Emissions are limited only for (3) new baghouses.**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.01 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **2.19** lb/hour **9.6** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 1 of 7 [004: 32 Cement Storage Silos]

Pollutant Detail Information Page 2 of 2

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM10**	2. Total Percent Efficiency of Control:

3. Potential Emissions: **1.86** lb/hour **8.1** tons/year	4. Synthetically Limited? [ ]

5. Range of Estimated Fugitive Emissions: **NA**
[ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: **0.0085 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**

8. Calculation of Emissions (limit to 600 characters):

25,500 acfm x 0.0085 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 1.86 lb/hour at 8760 hours/year = 8.1 tons/year

9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):

Emissions are limited only for (3) new baghouses.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.0085 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **1.86** lb/hour **8.1** tons/year

5. Method of Compliance (limit to 60 characters): **Method 9**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE05**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-297.620(4), FAC** **This opacity limitation is more stringent than NSPS/NESHAP**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **40 CFR 60.62(c) until June 10, 2002** **40 CFR 63.1348 after June 10, 2002**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NA**	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Process Flowsheet 17 of 21**
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report: **See Compliance Plan** [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [**X**] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [**X**] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [**X**] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[**X**] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Cement Truck Loading

4. Emissions Unit Identification Number: ID: **015** [ ] No ID [ ] ID Unknown

5. Emissions Unit Status Code: **C**	6. Initial Startup Date: **NA**	7. Emissions Unit Major Group SIC Code: **32**	8. Acid Rain Unit? [ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

These activities are regulated for opacity by NSPS Subpart F before June 10, 2002; and by NESHAP Subpart LLL after June 10, 2002. Permittee suggests that the cement truck loading activities of Emissions Unit 019 be incorporated with this existing Emissions Unit ID No. 015, as new baghouses have been added to the existing system.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Fabric Filters – Low Temperature
Fabric Filters – Medium Temperature
Fabric Filters – High Temperature

2. Control Device or Method Code(s): **016, 017, 018**

Emissions Unit Details

1. Package Unit: **NA**		
Manufacturer:	Model Number:	
2. Generator Nameplate Rating: **NA**	MW	
3. Incinerator Information: **NA**		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **NA**		mmBtu/hr
2. Maximum Incineration Rate: **NA**	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **Not limited by air construction permit**		
4. Maximum Production Rate: **NA**		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	**8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

NSPS Subpart F **Until June 10, 2002**	
NESHAP Subpart LLL **After June 10, 2002**	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **Cement Truck Loading** **Flowsheets 18, 20, and 21**	2. Emission Point Type Code: **3**

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):

Existing: (2) Mikro-Pulsair Baghouses

New:
611-BF1 Baghouse for Truck Loading Spouts: 3500 acfm
612-BF1 Baghouse for Truck Loading Spouts: 3500 acfm
613-BF1 Baghouse for Truck Loading Spouts: 3500 acfm
616-BF1 Baghouse for Truck Loading Airslides: 3500 acfm
616-BF2 Baghouse for Truck Loading Airslides: 3500 acfm

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NA**

5. Discharge Type Code:	6. Stack Height: **NA** feet	7. Exit Diameter: **NA** feet
8. Exit Temperature: **° F**	9. Actual Volumetric Flow Rate: **NA** acfm	10. Water Vapor: **NA** %
11. Maximum Dry Standard Flow Rate: **NA** dscfm	12. Nonstack Emission Point Height: feet	

13. Emission Point UTM Coordinates:

Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters):

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Cement Manufacturing: Dry Process: Cement Loadout**		
2. Source Classification Code (SCC): **3-05-006-19**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: **1,787,040**	6. Estimated Annual Activity Factor: **NA**
7. Maximum % Sulfur: **NA**	8. Maximum % Ash: **NA**	9. Million Btu per SCC Unit: **NA**
10. Segment Comment (limit to 200 characters): **Hourly loadout rate is not limited. Annual loadout rate is limited to the annual silo loading rate (see Emissions Unit 004).**		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**016/017/018**		**EL**
PM10	**016/017/018**		**EL**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **1.5** lb/hour **6.6** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.01 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **17,500 acfm x 0.01 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 1.5 lb/hour at 8760 hours/year = 6.6 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): **Emissions are only limited for (5) new baghouses.**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.01 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **1.5** lb/hour **6.6** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 2 of 7 [015: Cement Truck Loading]

Pollutant Detail Information Page 2 of 2

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM10**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **1.28** lb/hour **5.6** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.0085 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **17,500 acfm x 0.0085 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 1.28 lb/hour at 8760 hours/year = 5.6 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): **Emissions are only limited for (5) new baghouses.**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.0085 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **1.28** lb/hour **5.6** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE05**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-297.620(4), FAC** **This opacity limitation is more stringent than NSPS/NESHAP**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **40 CFR 60.62(c) until June 10, 2002** **40 CFR 63.1348 after June 10, 2002**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NA**	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Process Flowsheets 18, 20, and 21 of 21**
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report: **See Compliance Plan** [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Raw Material Handling (Fugitive)

4. Emissions Unit Identification Number: [ ] No ID
ID: **016** [ ] ID Unknown

5. Emissions Unit Status Code: **C**	6. Initial Startup Date: **NA**	7. Emissions Unit Major Group SIC Code: **14**	8. Acid Rain Unit? [ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

Permittee suggests that this emissions unit include the activities described in the Title V DRAFT Permit No. 0250014-003-AV (November 1, 1999) in Emissions Units 017 and 018. This is because the units are subject to the same regulation by NSPS Subpart OOO.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

NA

2. Control Device or Method Code(s): **NA**

Emissions Unit Details

1. Package Unit: **NA**		
Manufacturer:	Model Number:	
2. Generator Nameplate Rating: **NA**	MW	
3. Incinerator Information: **NA**		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **NA**			mmBtu/hr
2. Maximum Incineration Rate: **NA**	lb/hr		tons/day
3. Maximum Process or Throughput Rate: **Not limited by air construction permit**			
4. Maximum Production Rate: **NA**			
5. Requested Maximum Operating Schedule:			
	hours/day		days/week
	weeks/year		**8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):			
Estimated rate = 1300 tons per hour through primary crusher.			

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

NSPS Subpart OOO **40 CFR 60.672(b), (c), (d), (h)**	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **Quarry and Crushing** **Flowsheet 2 of 21**	2. Emission Point Type Code: **4**

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):

Primary crusher, screening, secondary crusher and conveying systems

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NA**

5. Discharge Type Code: **F**	6. Stack Height: **NA** feet	7. Exit Diameter: **NA** feet
8. Exit Temperature: **77° F**	9. Actual Volumetric Flow Rate: **NA** acfm	10. Water Vapor: **NA** %
11. Maximum Dry Standard Flow Rate: **NA** dscfm	12. Nonstack Emission Point Height: **0** feet	

13. Emission Point UTM Coordinates:

Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters):

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Mineral Products: Stone Quarrying/Processing: Primary Crushing**		
2. Source Classification Code (SCC): **3-05-020-01**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **1300**	5. Maximum Annual Rate: **10,512,000**	6. Estimated Annual Activity Factor: **NA**
7. Maximum % Sulfur: **NA**	8. Maximum % Ash: **NA**	9. Million Btu per SCC Unit: **NA**
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Mineral Products: Stone Quarrying/Processing: Screen/Convey/Handling**		
2. Source Classification Code (SCC): **3-05-020-01**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **1300**	5. Maximum Annual Rate: **10,512,000**	6. Estimated Annual Activity Factor: **NA**
7. Maximum % Sulfur: **NA**	8. Maximum % Ash: **NA**	9. Million Btu per SCC Unit: **NA**
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM			**WP**
PM10			**NS**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **NA**	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters):	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **40 CFR 60.672(b)** **Screens, conveyor transfer points, and storage bins subject to NSPS Subpart OOO.**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE15**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **15%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **40 CFR 60.672(c)** **Crushers subject to NSPS Subpart OOO.**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NA**	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Process Flowsheet: 2 of 21**
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report: **See Compliance Plan** [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [**X**] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [**X**] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [**X**] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part – Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[**X**] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[**X**] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[**X**] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Raw Material Handling (Baghouses)

4. Emissions Unit Identification Number: ID: **017** [ ] No ID [ ] ID Unknown

5. Emissions Unit Status Code: **C**	6. Initial Startup Date: **NA**	7. Emissions Unit Major Group SIC Code: **32**	8. Acid Rain Unit? [ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

These activities are regulated for opacity by NSPS Subpart F before June 10, 2002; and by NESHAP Subpart LLL after June 10, 2002.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Fabric Filters – Low Temperature

2. Control Device or Method Code(s): **018**

Emissions Unit Details

1. Package Unit: **NA**		
Manufacturer:	Model Number:	
2. Generator Nameplate Rating: **NA**	MW	
3. Incinerator Information: **NA**		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **NA**		mmBtu/hr
2. Maximum Incineration Rate: **NA**	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **Not limited by air construction permit**		
4. Maximum Production Rate: **NA**		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	**8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

NSPS Subpart F **Until June 10, 2002**	
NESHAP Subpart LLL **After June 10, 2002**	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **Raw Material & Additives** **Flowsheets: 1, 3, 4, 5, 6, 9 of 21**	2. Emission Point Type Code: **3**

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):

K21-BF1: Baghouse for Additive Transfer: 3800 acfm
K21-BF2: Baghouse for Additive Transfer: 4500 acfm
K22-BF1: Baghouse for Soil/Ash Transfer: 4000 acfm
K22-BF2: Baghouse for Clean Soil Bin: 9000 acfm
K51-BF1: Baghouse for Slag/Soil Elevator: 5000 acfm
293-BF1: Baghouse for Soil/Ash Transfer: 4000 acfm
293-BF2: Baghouse for Soil/Ash Transfer: 4000 acfm
391-BF1: Baghouse for Raw Meal Transfer Elevator: 5500 acfm
391-BF2: Baghouse for Raw Meal Silo: 7000 acfm
391-BF3: Baghouse for Additive (Dust) Bin: 2000 acfm
431-BF1: Baghouse for Raw Mill (Kiln Feed) Transfer: 5500 acfm
431-BF2: Baghouse for Raw Mill Transfer (Return): 3000 acfm

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NA**

5. Discharge Type Code:	6. Stack Height: **NA** feet	7. Exit Diameter: **NA** feet
8. Exit Temperature: **° F**	9. Actual Volumetric Flow Rate: **NA** acfm	10. Water Vapor: **NA** %
11. Maximum Dry Standard Flow Rate: **NA** dscfm	12. Nonstack Emission Point Height: feet	

13. Emission Point UTM Coordinates:
Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters):

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Cement Manufacturing: Dry Process: Raw Material Transfer**		
2. Source Classification Code (SCC): **3-05-006-12**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **1200**	5. Maximum Annual Rate: **10,512,000**	6. Estimated Annual Activity Factor: **NA**
7. Maximum % Sulfur: **NA**	8. Maximum % Ash: **NA**	9. Million Btu per SCC Unit: **NA**
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **4.91** lb/hour **21.5** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.01 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **57,300 acfm x 0.01 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 4.91 lb/hour at 8760 hours/year = 21.5 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.01 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **4.91** lb/hour **21.5** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 4 of 7 [017: Raw Material Handling (Baghouses)]

Pollutant Detail Information Page 2 of 2

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM10**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **4.17** lb/hour **18.3** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.0085 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **57,300 acfm x 0.0085 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 4.17 lb/hour at 8760 hours/year = 18.3 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.0085 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **4.17** lb/hour **18.3** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE05**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-297.620(4), FAC** **This opacity limitation is more stringent than NSPS/NESHAP**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **40 CFR 60.62(c) until June 10, 2002** **40 CFR 63.1348 after June 10, 2002**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NA**	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Flowsheets: 1, 3, 4, 5, 6, 9 of 21**
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report: **See Compliance Plan** [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [**X**] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [**X**] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [**X**] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[**X**] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

In-Line Kiln/Raw Mill and Clinker Cooler

4. Emissions Unit Identification Number: ID: **018** [ ] No ID [ ] ID Unknown

5. Emissions Unit Status Code: **C**	6. Initial Startup Date: **NA**	7. Emissions Unit Major Group SIC Code: **32**	8. Acid Rain Unit? [ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

This emissions unit is regulated by NSPS Subpart F before June 10, 2002; and by NESHAP Subpart LLL after June 10, 2002.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Fabric Filter – High Temperature

2. Control Device or Method Code(s): **016**

Emissions Unit Details

1. Package Unit: **NA**		
Manufacturer:	Model Number:	
2. Generator Nameplate Rating: **NA**	MW	
3. Incinerator Information: **NA**		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		**437** mmBtu/hr
2. Maximum Incineration Rate: **NA**	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **220 tons per hour of dry feed to preheater**		
4. Maximum Production Rate: **137 tons per hour of clinker produced**		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	**8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		
Permit No. 0250014-002-AC: All limits based on a 24-hour averaging period		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

NSPS Subpart F **Until June 10, 2002**	
NESHAP Subpart LLL **After June 10, 2002**	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **421-BF1: Main Baghouse** **Process Flowsheets: 7, 8, 10, 11 of 21**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NA**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NA**		
5. Discharge Type Code: **V**	6. Stack Height: **359** feet	7. Exit Diameter: **8** feet
8. Exit Temperature: **464° F (Mill operating)**	9. Actual Volumetric Flow Rate: **485,168** acfm **(Mill operating)**	10. Water Vapor: **6%**
11. Maximum Dry Standard Flow Rate: **260,600** dscfm	12. Nonstack Emission Point Height: **NA** feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Common baghouse for raw mill, kiln, and clinker cooler.**		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 9

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): **Mineral Products: Cement Manufacturing: Dry Process: Preheater/Precalciner Kilns**	
2. Source Classification Code (SCC): **3-05-006-23**	
3. SCC Units: **Tons Produced (Clinker)**	
4. Maximum Hourly Rate: **137 Tons Produced**	5. Maximum Annual Rate: **1,200,000 Tons Produced**
6. Estimated Annual Activity Factor: **NA**	
7. Maximum Percent Sulfur: **NA**	8. Maximum Percent Ash: **NA**
9. Million Btu per SCC Unit: **NA**	
10. Segment Comment (limit to 200 characters):	

Segment Description and Rate: Segment 2 of 9

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): **Industrial Process: In-Process Fuel Use: Natural Gas: Cement Kiln**	
2. Source Classification Code (SCC): **3-90-006-02**	
3. SCC Units: **Million Cubic Feet Burned**	
4. Maximum Hourly Rate: **0.42 Million Cubic Feet Burned**	5. Maximum Annual Rate: **3,646 Million Cubic Feet Burned**
6. Estimated Annual Activity Factor: **NA**	
7. Maximum Percent Sulfur: **NA**	8. Maximum Percent Ash: **NA**
9. Million Btu per SCC Unit: **1050 MMBtu/MMcf**	
10. Segment Comment (limit to 200 characters): **437 MMBtu/hr x 1.0 MMcf/1050 MMBtu = 0.42 MMcf/hr** **@ 8760 hr/yr = 3,646 MMcf/yr**	

Segment Description and Rate: Segment 3 of 9

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): **Industrial Process: In-Process Fuel Use: Bituminous Coal : Cement Kiln**	
2. Source Classification Code (SCC): **3-90-002-01**	
3. SCC Units: **Tons Burned**	
4. Maximum Hourly Rate: **16.8 Tons Burned**	5. Maximum Annual Rate: **147,168 Tons Burned**
6. Estimated Annual Activity Factor: **NA**	
7. Maximum Percent Sulfur: **3.5**	8. Maximum Percent Ash: **28.0**
9. Million Btu per SCC Unit: **26 MMBtu/Ton**	
10. Segment Comment (limit to 200 characters): **437 MMBtu/hr x 1.0 tons/26 MMBtu = 16.8 tons/hr** **@ 8760 hr/yr = 147,168 tons/yr**	

Segment Description and Rate: Segment 4 of 9

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

Industrial Process: In-Process Fuel Use: Coke: Cement Kiln

Petroleum Coke as In-Process Fuel

2. Source Classification Code (SCC): **3-90-008-99**

3. SCC Units: **Tons Burned**

4. Maximum Hourly Rate:	5. Maximum Annual Rate:
14.6 Tons Burned	**127,896 Tons Burned**

6. Estimated Annual Activity Factor: **NA**

7. Maximum Percent Sulfur: **NA**	8. Maximum Percent Ash: **NA**

9. Million Btu per SCC Unit: **30 MMBtu/Ton**

10. Segment Comment (limit to 200 characters):

437 MMBtu/hr x 1.0 tons/30 MMBtu = 14.6 tons/hr
@ 8760 hr/yr = 127,896 tons/yr

Segment Description and Rate: Segment 5 of 9

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): **Industrial Process: In-Process Fuel Use: Liquefied Petroleum Gas (LPG) : General** **Use of Propane in Kiln**	
2. Source Classification Code (SCC): **3-90-010-99**	
3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **4.65 Thousand Gallons Burned**	5. Maximum Annual Rate: **40,734 Thousand Gallons Burned**
6. Estimated Annual Activity Factor: **NA**	
7. Maximum Percent Sulfur: **Negligible**	8. Maximum Percent Ash: **NA**
9. Million Btu per SCC Unit: **94 MMBtu/Thousand Gallons Burned**	
10. Segment Comment (limit to 200 characters): **437 MMBtu/hr x 1.0 Thousand Gallons Burned/94 MMBtu = 4.65 TGB/hr** **@ 8760 hr/yr = 40,734 TGB/yr**	

Segment Description and Rate: Segment 6 of 9

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): **Industrial Process: In-Process Fuel Use: Distillate Oil: Cement Kiln** **Use of No. 2 Fuel Oil in Kiln**	
2. Source Classification Code (SCC): **3-90-005-02**	
3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **3.1 Thousand Gallons Burned**	5. Maximum Annual Rate: **27,156 Thousand Gallons Burned**
6. Estimated Annual Activity Factor: **NA**	
7. Maximum Percent Sulfur: **0.5**	8. Maximum Percent Ash: **NA**
9. Million Btu per SCC Unit: **141 MMBtu/Thousand Gallons Burned**	
10. Segment Comment (limit to 200 characters): **437 MMBtu/hr x 1.0 Thousand Gallons Burned/141 MMBtu = 3.1 TGB/hr** **@ 8760 hr/yr = 27,156 TGB/yr**	

Segment Description and Rate: Segment 7 of 9

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): **Industrial Process: In-Process Fuel Use: Residual Oil : Cement Kiln**	
2. Source Classification Code (SCC): **3-90-004-02**	
3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **2.99 Thousand Gallons Burned**	5. Maximum Annual Rate: **26,192 Thousand Gallons Burned**
6. Estimated Annual Activity Factor: **NA**	
7. Maximum Percent Sulfur: **2.5**	8. Maximum Percent Ash: **NA**
9. Million Btu per SCC Unit: **146 MMBtu/Thousand Gallons Burned**	
10. Segment Comment (limit to 200 characters): **437 MMBtu/hr x 1.0 Thousand Gallons Burned/146 MMBtu = 2.99 TGB/hr** **@ 8760 hr/yr = 26,192 TGB/yr**	

Segment Description and Rate: Segment 8 of 9

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): **Industrial Process: In-Process Fuel Use: Liquid Waste: General** **Use of Used Oil in Kiln**
2. Source Classification Code (SCC): **3-90-013-99**
3. SCC Units: **Thousand Gallons Burned**

4. Maximum Hourly Rate: **3.64 Thousand Gallons Burned**	5. Maximum Annual Rate: **31,886 Thousand Gallons Burned**
6. Estimated Annual Activity Factor: **NA**	
7. Maximum Percent Sulfur: **0.4**	8. Maximum Percent Ash: **NA**
9. Million Btu per SCC Unit: **120 MMBtu/Thousand Gallons Burned**	

10. Segment Comment (limit to 200 characters): **437 MMBtu/hr x 1.0 Thousand Gallons Burned/120 MMBtu = 3.64 TGB/hr** **@ 8760 hr/yr = 31,886 TGB/yr**

Segment Description and Rate: Segment 9 of 9

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

Industrial Process: In-Process Fuel Use: Solid Waste : Cement Kiln

Combustion of nonhazardous solid waste. Materials include, but are not limited to:

- **Whole Tires and/or Tire-Derived Fuel (TDF)**
- **Oil Filters**
- **Booms and Rags from Spill Cleanup**
- **Unused Diapers**
- **Paper Products**
- **Plastics Waste from Non-chlorinated Plastics**

2. Source Classification Code (SCC): **3-90-012-99**

3. SCC Units: **Tons Burned**

4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6.7 Tons Burned	**58,692 Tons Burned**

6. Estimated Annual Activity Factor: **NA**

7. Maximum Percent Sulfur: **NA**	8. Maximum Percent Ash: **NA**

9. Million Btu per SCC Unit: **~26 MMBtu/Ton**

10. Segment Comment (limit to 200 characters):

6.7 tons/hr
@ 8760 hr/yr = 58,692 tons/yr

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**016**		**EL**
PM10	**016**		**EL**
SO2			**EL**
NOx			**EL**
CO			**EL**
VOC			**EL**
SAM			**EL**
H021 -- Beryllium			**EL**
H114 -- Mercury			**EL**
PB -- Lead			**EL**
DIOX			**EL**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **44.0** lb/hour **193** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.20 lb/ton of dry preheater feed** Reference: **Table 1-2 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **0.20 lb/ton x 220 tons/hour of dry preheater feed = 44.0 lb/hour at 8760 hours/year = 193 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.20 lb/ton of dry preheater feed**	4. Equivalent Allowable Emissions: **44.0** lb/hour **193** tons/year
5. Method of Compliance (limit to 60 characters): **Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM10**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **37.4** lb/hour **164** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.17 lb/ton of dry preheater feed** Reference: **Table 1-2 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **0.17 lb/ton x 220 tons/hour of dry preheater feed = 37.4 lb/hour at 8760 hours/year = 164 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.17 lb/ton of dry preheater feed**	4. Equivalent Allowable Emissions: **37.4** lb/hour **164** tons/year
5. Method of Compliance (limit to 60 characters): **Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 5 of 7 [018: In-Line Kiln/Raw Mill & Clinker Cooler]

Pollutant Detail Information Page 3 of 11

Potential/Fugitive Emissions

1. Pollutant Emitted: **SO2**	2. Total Percent Efficiency of Control:

3. Potential Emissions: **306** lb/hour **1340** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.7 lb/MMBtu** Reference: **Table 1-2 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**

8. Calculation of Emissions (limit to 600 characters):

0.7 lb/MMBtu x 437 MMBtu/Hour = 306 lb/hour
at 8760 hours/year = 1340 tons/year

9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.7 lb/MMBtu**	4. Equivalent Allowable Emissions: **306** lb/hour **1340** tons/year

5. Method of Compliance (limit to 60 characters): **CEM**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

Potential/Fugitive Emissions

1. Pollutant Emitted: **NOx**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **671** lb/hour **2940** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **1.53 lb/MMBtu** Reference: **Table 1-2 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **1.53 lb/MMBtu x 437 MMBtu/Hour = 671 lb/hour at 8760 hours/year = 2940 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **1.53 lb/MMBtu**	4. Equivalent Allowable Emissions: **671** lb/hour **2940** tons/year
5. Method of Compliance (limit to 60 characters): **CEM**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 5 of 7 [018: In-Line Kiln/Raw Mill & Clinker Cooler]

Pollutant Detail Information Page 5 of 11

Potential/Fugitive Emissions

1. Pollutant Emitted: **CO**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **412** lb/hour **1807** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **3.01 lb/ton of clinker** Reference: **Table 1-2 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **3.01 lb/ton of clinker x 137 tons/hour = 412 lb/hour at 8760 hours/year = 1807 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **3.01 lb/ton of clinker**	4. Equivalent Allowable Emissions: **412** lb/hour **1807** tons/year
5. Method of Compliance (limit to 60 characters): **Method 10**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 5 of 7 [018: In-Line Kiln/Raw Mill & Clinker Cooler]

Pollutant Detail Information Page 6 of 11

Potential/Fugitive Emissions

1. Pollutant Emitted: **VOC**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **13.7** lb/hour **60** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.1 lb/ton of clinker** Reference: **Table 1-2 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **0.1 lb/ton of clinker x 137 tons/hour = 13.7 lb/hour at 8760 hours/year = 60 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.1 lb/ton of clinker**	4. Equivalent Allowable Emissions: **13.7** lb/hour **60** tons/year
5. Method of Compliance (limit to 60 characters): **Method 25 or 25A (initial only)**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 5 of 7 [018: In-Line Kiln/Raw Mill & Clinker Cooler]

Pollutant Detail Information Page 7 of 11

Potential/Fugitive Emissions

1. Pollutant Emitted: **SAM**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **1.92** lb/hour **8.4** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.014 lb/ton of clinker** Reference: **Table 1-2 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **0.014 lb/ton of clinker x 137 tons/hour = 1.92 lb/hour at 8760 hours/year = 8.4 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.014 lb/ton of clinker**	4. Equivalent Allowable Emissions: **1.92** lb/hour **8.4** tons/year
5. Method of Compliance (limit to 60 characters): **Method 8 (initial only)**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Potential/Fugitive Emissions

1. Pollutant Emitted: **H021 – Beryllium**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **9.04E-05** lb/hour **0.000396** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **6.6 x 10^{-7} lb/ton of clinker** Reference: **Table 1-2 of Permit No. 0250014-002-AC**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **6.6 x 10^{-7} lb/ton of clinker x 137 tons/hour = 9.04E-05 lb/hour at 8760 hours/year = 0.000396 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **6.6 x 10^{-7} lb/ton of clinker**	4. Equivalent Allowable Emissions: **9.04E-05** lb/hour **0.000396** tons/year
5. Method of Compliance (limit to 60 characters): **Method 29 (initial only)**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Potential/Fugitive Emissions

1. Pollutant Emitted: **H114 – Mercury**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **3.30E-03** lb/hour **0.014** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **2.4 x 10^{-5} lb/ton of clinker** Reference: **Table 1-2 of Permit No. 0250014-002-AC**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **2.4 x 10^{-5} lb/ton of clinker x 137 tons/hour = 3.30E-03 lb/hour at 8760 hours/year = 0.014 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **2.4 x 10^{-5} lb/ton of clinker**	4. Equivalent Allowable Emissions: **3.30E-03** lb/hour **0.0014** tons/year
5. Method of Compliance (limit to 60 characters): **Method 29 (initial only)**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 5 of 7 [018: In-Line Kiln/Raw Mill & Clinker Cooler]

Pollutant Detail Information Page 10 of 11

Potential/Fugitive Emissions

Potential/Fugitive Emissions

1. Pollutant Emitted: **PB – Lead**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **0.01** lb/hour **0.045** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **7.5 x 10^{-5} lb/ton of clinker** Reference: **Table 1-2 of Permit No. 0250014-002-AC**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **7.5 x 10^{-5} lb/ton of clinker x 137 tons/hour = 0.01 lb/hour at 8760 hours/year = 0.045 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **7.5 x 10^{-5} lb/ton of clinker**	4. Equivalent Allowable Emissions: **0.01** lb/hour **0.045** tons/year
5. Method of Compliance (limit to 60 characters): **Method 29 (initial only)**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 5 of 7 [018: In-Line Kiln/Raw Mill & Clinker Cooler]

Pollutant Detail Information Page 11 of 11

Potential/Fugitive Emissions

1. Pollutant Emitted: **DIOX**	2. Total Percent Efficiency of Control: **Not Applicable**
3. Potential Emissions: **0.0000002** lb/hour **0.0000009** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **Not Applicable** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **8.7 x 10^{-11} grains/dscf TEQ** Reference: **MACT -- 40 CFR 63.1343(b)(3)(i)**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **8.7 x 10^{-11} gr/dscf x 260600 dscfm x 60 min/hour x 1.0 lb/7000 gr = 0.0000002 lb/hour @ 8760 hours/yr = 0.0000009 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): **NESHAP LLL After June 10, 2002**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **June 10, 2002**
3. Requested Allowable Emissions and Units: **8.7 x 10^{-11} gr/dscf TEQ**	4. Equivalent Allowable Emissions: **0.0000002** lb/hour **0.0000009** tons/year
5. Method of Compliance (limit to 60 characters): **Method 23 repeated every 30 months**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **NESHAP Subpart LLL after June 10, 2002**	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **This opacity limitation is NSPS/NESHAP for clinker coolers.** **40 CFR 60.62(b)(2) until June 10, 2002** **40 CFR 63.1345(a)(2) after June 10, 2002**	

I. CONTINUOUS MONITOR INFORMATION

(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 3

1. Parameter Code: **VE**	2. Pollutant(s): **Opacity**
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: **Will be submitted when available** Manufacturer: Model Number:	Serial Number:
5. Installation Date: **2000**	6. Performance Specification Test Date: **Expected September 2000**
7. Continuous Monitor Comment (limit to 200 characters): **NSPS Subpart F & NESHAP Subpart LLL**	

Continuous Monitoring System: Continuous Monitor 2 of 3

1. Parameter Code: **EM**	2. Pollutant(s): **SO2, NOx**
3. CMS Requirement:	[ ] Rule [X] Other
4. Monitor Information: **Will be submitted when available** Manufacturer: Model Number:	Serial Number:
5. Installation Date: **2000**	6. Performance Specification Test Date: **Expected September 2000**
7. Continuous Monitor Comment (limit to 200 characters): **Permit No. 0250014-002-AC**	

Continuous Monitoring System: Continuous Monitor 3 of 3

1. Parameter Code: **TEMP**	2. Pollutant(s): **Not Applicable**
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: **Will be submitted when available** Manufacturer: Model Number:	Serial Number:
5. Installation Date: **Expected June 2002**	6. Performance Specification Test Date: **Expected June 2002**
7. Continuous Monitor Comment (limit to 200 characters): **NESHAP Subpart LLL**	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Process Flowsheets: 7, 8, 10, 11 of 21**
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report: **See Compliance Plan** [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [**X**] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [**X**] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [**X**] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[**X**] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[**X**] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[**X**] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Finish Mill #6

4. Emissions Unit Identification Number: ID: **019**
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code: **C**	6. Initial Startup Date: **NA**	7. Emissions Unit Major Group SIC Code: **32**	8. Acid Rain Unit? [ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

These activities are regulated for opacity by NSPS Subpart F before June 10, 2002; and by NESHAP Subpart LLL after June 10, 2002. Permittee suggests that the cement handling activities of this emissions unit be incorporated with existing emissions unit ID Nos. 004 and 015, see previous Emissions Unit Information Sections.

Permittee suggests that existing Emission Unit 001: Finish Mill #1, Emission Unit 002: Finish Mill #2, Emission Unit 003: Finish Mill #3, Emission Unit 012: Finish Mill #4, and Emission Unit 013: Finish Mill #5, be grouped with this emissions unit as all are regulated similarly, and this emissions unit addresses clinker handling for all finish mills in addition to Finish Mill #6.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Fabric Filters – Low Temperature
Fabric Filters – Medium Temperature
Fabric Filters – High Temperature

2. Control Device or Method Code(s): **016, 017, 018**

Emissions Unit Details

1. Package Unit: **NA**		
Manufacturer:	Model Number:	
2. Generator Nameplate Rating: **NA**	MW	
3. Incinerator Information: **NA**		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **NA**		mmBtu/hr
2. Maximum Incineration Rate: **NA**	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **Not limited by air construction permit**		
4. Maximum Production Rate: **NA**		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	**8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

NSPS Subpart F **Until June 10, 2002**	
NESHAP Subpart LLL **After June 10, 2002**	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **Finish Mill #6 and System** **Process Flowsheets: 4, 11, 13, 14, 15, 16 of 21**	2. Emission Point Type Code: **3**

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):

491-BF1: Baghouse for Clinker Cooler Discharge Pan Conveyor: 5000 acfm
491-BF2: Baghouse for Clinker Silo: 8000 acfm
491-BF3: Baghouse for Reject Clinker Bin: 3000 acfm
510-BF1: Baghouse for Clinker Silo Discharge and Transfer: 12,500 acfm
510-BF2: Baghouse for Clinker Transfer to Finish Mill #1: 5000 acfm
510-BF3: Baghouse for Clinker Transfer to Finish Mill #2: 5000 acfm
510-BF4: Baghouse for Clinker Transfer to Finish Mill #3: 5000 acfm
K24-BF1: Baghouse for Clinker Transfer to Finish Mill #4: 5000 acfm
536-BF1: Baghouse for Clinker/Gypsum Transfer: 12,000 acfm
536-BF2: Baghouse for Finish Mill #6 Feed Bin: 5000 acfm
566-BF1: Baghouse for Finish Mill #6 Air Separator: 83,500 acfm
596-BF2: Baghouse for Cement Transfer: 4000 acfm

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NA**

5. Discharge Type Code:	6. Stack Height: **NA** feet	7. Exit Diameter: **NA** feet
8. Exit Temperature: **° F**	9. Actual Volumetric Flow Rate: **NA** acfm	10. Water Vapor: **NA** %
11. Maximum Dry Standard Flow Rate: **NA** dscfm	12. Nonstack Emission Point Height: feet	

13. Emission Point UTM Coordinates:

Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters):

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Cement Manufacturing: Dry Process: Clinker Grinding**		
2. Source Classification Code (SCC): **3-05-006-17**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **100**	5. Maximum Annual Rate: **876,000**	6. Estimated Annual Activity Factor: **NA**
7. Maximum % Sulfur: **NA**	8. Maximum % Ash: **NA**	9. Million Btu per SCC Unit: **NA**
10. Segment Comment (limit to 200 characters): **100 TPH of clinker and additives to Finish Mill No. 6**		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**016/017/018**		**EL**
PM10	**016/017/018**		**EL**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **13.11** lb/hour **57.4** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.01 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **153,000 acfm x 0.01 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 13.11 lb/hour at 8760 hours/year = 57.4 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.01 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **13.11** lb/hour **57.4** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 6 of 7 [019: Finish Mill #6]

Pollutant Detail Information Page 2 of 2

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM10**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **11.15** lb/hour **48.8** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.0085 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **153,000 acfm x 0.0085 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 11.15 lb/hour at 8760 hours/year = 48.8 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.0085 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **11.15** lb/hour **48.8** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE05**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-297.620(4), FAC** **This opacity limitation is more stringent than NSPS/NESHAP**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **40 CFR 60.62(c) until June 10, 2002** **40 CFR 63.1348 after June 10, 2002**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NA**	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Process Flowsheets: 4, 11, 13, 14, 15, 16 of 21**
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report: **See Compliance Plan** [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Coal Mill System

4. Emissions Unit Identification Number: ID: **020** [ ] No ID [ ] ID Unknown

5. Emissions Unit Status Code: **C**	6. Initial Startup Date: **NA**	7. Emissions Unit Major Group SIC Code: **32**	8. Acid Rain Unit? [ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

These activities are regulated by NSPS Subpart Y. The permittee suggests consolidating existing Emissions Unit ID No. 007 and this emissions unit.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Fabric Filters – Low Temperature

2. Control Device or Method Code(s): **018**

Emissions Unit Details

1. Package Unit: **NA**		
Manufacturer:	Model Number:	
2. Generator Nameplate Rating: **NA**	MW	
3. Incinerator Information: **NA**		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **NA**			mmBtu/hr
2. Maximum Incineration Rate: **NA**	lb/hr		tons/day
3. Maximum Process or Throughput Rate: **Not limited by air construction permit**			
4. Maximum Production Rate: **NA**			
5. Requested Maximum Operating Schedule:			
	hours/day		days/week
	weeks/year		**8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):			

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

NSPS Subpart Y	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **Coal Mill System** **Process Flowsheet 12 of 21**		2. Emission Point Type Code: **3**
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **L61-BF1: Baghouse for Coal/Coke Mill: 24,000 acfm** **L91-BF1: Baghouse for Coal/Coke Bin: 2500 acfm**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NA**		
5. Discharge Type Code:	6. Stack Height: **NA** feet	7. Exit Diameter: **NA** feet
8. Exit Temperature: **° F**	9. Actual Volumetric Flow Rate: **NA** acfm	10. Water Vapor: **NA** %
11. Maximum Dry Standard Flow Rate: **NA** dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters):		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Mineral Products: Coal Cleaning: Material Handling: Crushing**		
2. Source Classification Code (SCC): **3-05-010-10**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **20**	5. Maximum Annual Rate: **175,200**	6. Estimated Annual Activity Factor: **NA**
7. Maximum % Sulfur: **NA**	8. Maximum % Ash: **NA**	9. Million Btu per SCC Unit: **NA**
10. Segment Comment (limit to 200 characters): **Coal Mill**		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **2.27** lb/hour **9.9** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.01 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **26,500 acfm x 0.01 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 2.27 lb/hour at 8760 hours/year = 9.9 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.01 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **2.27** lb/hour **9.9** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 7 of 7 [020: Coal Mill System]

Pollutant Detail Information Page 2 of 2

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM10**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **1.93** lb/hour **8.5** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **NA** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.0085 grains per actual cubic foot** Reference: **Table 1-1 of Permit No. 0250014-002-AC.**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **26,500 acfm x 0.0085 gr/acf ÷ 7000 grains/pound x 60 minutes/hour = 1.93 lb/hour at 8760 hours/year = 8.5 tons/year**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.0085 grains per actual cubic foot**	4. Equivalent Allowable Emissions: **1.93** lb/hour **8.5** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE05**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-297.620(4), FAC** **This opacity limitation is more stringent than NSPS.**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **40 CFR 60.252(c) – Coal processing and conveying equipment, coal storage system, coal transfer and loading system.**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 1

1. Parameter Code: **TEMP**	2. Pollutant(s): **NA**
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: **Will be submitted when available** Manufacturer: Model Number: Serial Number:	
5. Installation Date: **2000**	6. Performance Specification Test Date: **Expected September 2000**
7. Continuous Monitor Comment (limit to 200 characters): **40 CFR 60.253(a)(1)**	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [**X**] Attached, Document ID: **Process Flowsheet 12 of 21**
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [**X**] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
5. Compliance Test Report: **See Compliance Plan** [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [**X**] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [**X**] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [**X**] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [**X**] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [**X**] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[**X**] Not Applicable

Compliance Plan – This plan is for the following Emissions Units:

016	**Raw Material Handling (Fugitive)**
017	**Raw Material Handling (Baghouses)**
018	**In-Line Kiln/Raw Mill and Clinker Cooler**
019	**Finish Mill System**
020	**Coal Mill System**

These emissions units are being constructed under the authority of Air Construction Permit No. 0250014-002-AC. This Compliance Plan is being provided to allow the incorporation of these emissions units (and the removal of obsolete emissions units) from the Title V Permit.

This plan provides a description of the actions that will be taken to demonstrate compliance, including a compliance schedule with milestones. The compliance plan provides for submission of quarterly certified progress reports.

An example compliance plan to include the new emissions units in the Title V Permit was provided by Scott M. Sheplak (P. E. Administrator, Title V Section, Department of Environmental Protection, 850/921-9532, scott.sheplak@dep.state.fl.us) on June 26, 2000.

All of the terms and conditions of permit number 0250014-002-AC, allowing construction of the referenced Emissions Units 016-020, are to be made a part of the Title V Permit (see DEP File No. 0250014-002-AC-AC), except for the following:

The Professional Engineer's certification that the construction of the emissions units was completed according to the permit application and associated documents will be submitted to the Department within 105 days after achieving the maximum production rate at which the emissions unit will be operated.

Operation of the emissions units beyond the time frames established by the AC permit is allowed (i.e., September 30, 2001 as requested for extension), provided the Department has received and verified a properly signed and sealed certification from the permittee's Professional Engineer stating that:

1) the modification of the emissions units was completed in accordance with the AC permit and

2) the emissions units have been tested and compliance with the terms and conditions contained within the AC permit has properly been demonstrated.

[Rules 62-212.400(7)(b) and 62-213.420(1)(a)5., F.A.C.]

Compliance Schedule:

Date	Milestone
July 28, 2000	Issuance of Revised DRAFT Title V Permit by DERM
July 30, 2000	Request for extension of permit expiration date for Permit No. 0250014-002-AC
October 25, 2000	EPA Permit Deadline
October 2000	Compliance testing expected
October 31, 2000	Submission of quarterly certified progress report July-September 2000
November 2000	Certification of completion of construction and compliance test report expected
January 31, 2001	Submission of quarterly certified progress report October-December 2000
April 30, 2001	Submission of quarterly certified progress report January-March 2001
July 31, 2001	Submission of quarterly certified progress report April-June 2001

Compliance Certification

I, the undersigned, am the responsible official as defined in Chapter 62-210.200, F.A.C., of the Title V source for which this Compliance Plan is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this Compliance Plan are true, accurate, and complete.

Sharon DeHays – Vice President of Cement Operations

8/24/00

Date

CSR Rinker Materials Corporation
1200 NW 137th Avenue
Miami, Florida 33182

Telephone: (305) 229-2951 Fax: (305) 229-8015

MAR. 05,99

Rinker

Rinker Materials Corporation
Miami, Florida, U.S.A.

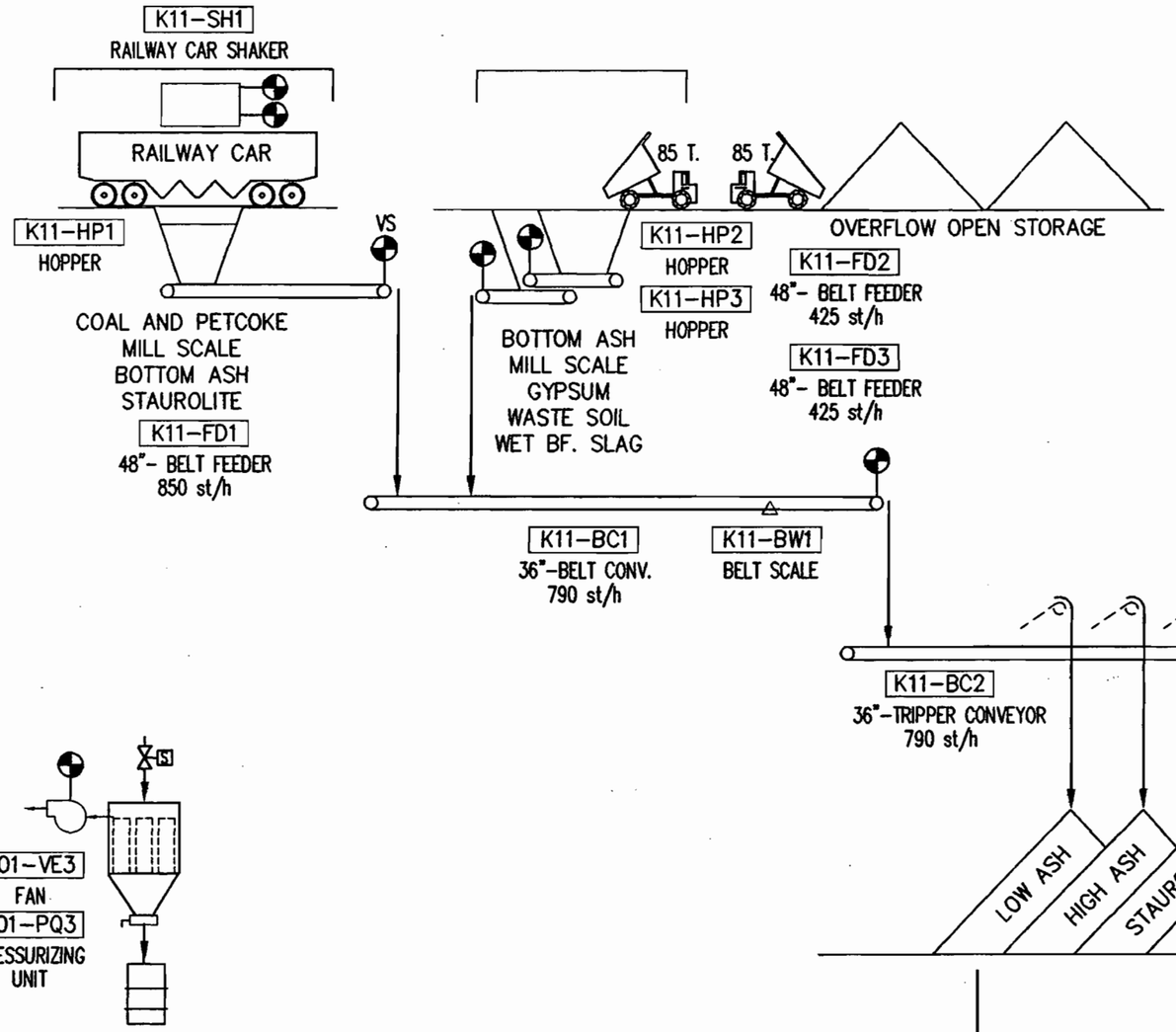
FLOWSHEETS

1997 CEMENT PLANT MODERNIZATION PROJECT

"HOLDERBANK"

Holderbank Engineering Canada, Ltd.
Mississauga, Ontario

Project 9453



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CEMENT PLANT
MODERNIZATION

TITLE
TRUCK AND RAILCAR
ADDITIVE RECEIVING
FLOWSHEET 1 OF 21

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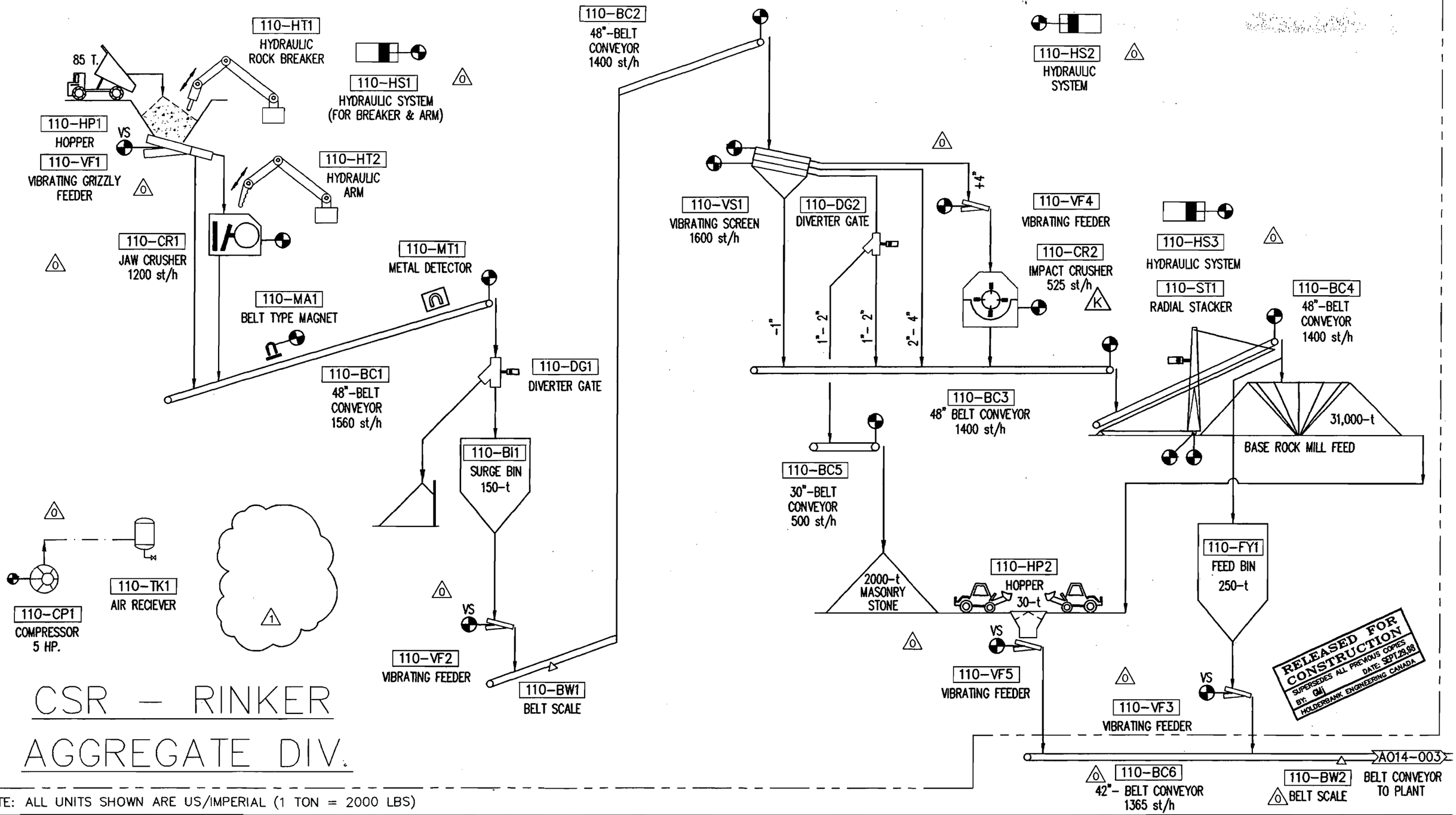

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MODERNIZATION

TITLE
LIMESTONE QUARRY AND CRUSHING
FLOWSHEET 2 OF 21

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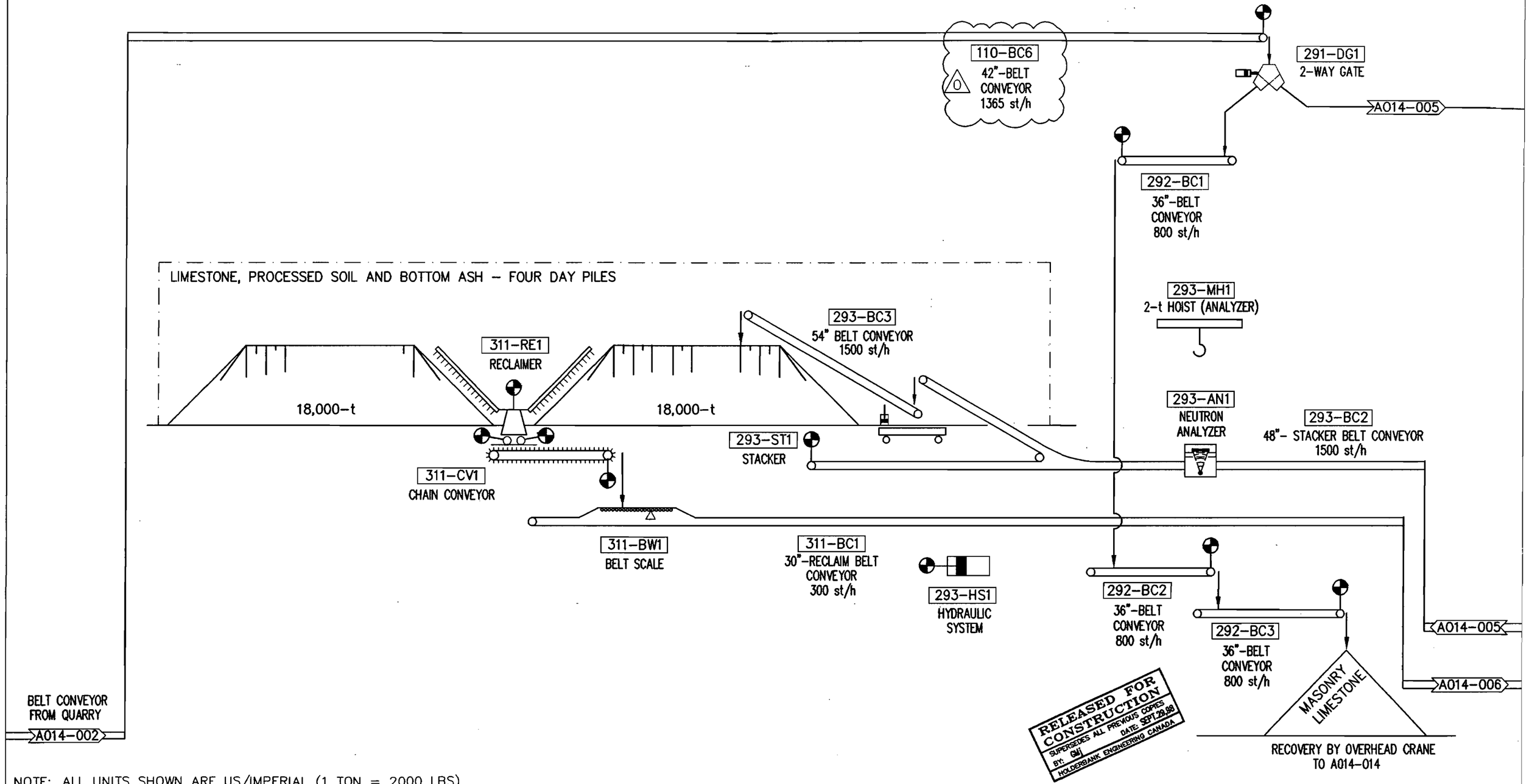

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FEB 16 1998	E	FULLER INFORMATION	GMJ
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Miami, Florida, U.S.A.

PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
PREBLENDING BED
STACKING AND RECLAIMING
FLOWSHEET 3 OF 21

DRAWING No 9453–A014–003 | REV. 0

OVERHEAD CRANE FROM A014-001

A014-004

K21-CA1

A014-004 | A014-001

A014-006

MILL SCALE
K21-FY1
FEED HOPPER
K21-SG1
SLIDE GATE
K21-FD1
48"-FEEDER
400 st/h

HIGH ASH
K21-FY2
FEED HOPPER
K21-SG2
SLIDE GATE
K21-FD2
48"-FEEDER
400 st/h

CLEAN SOIL
K21-FY3
FEED HOPPER
K21-SG3
SLIDE GATE
K21-FD3
48"-FEEDER
400 st/h

HIGH TEMPERATURE
K21-BF2
CARTRIDGE FILTER
K21-VE2
VENTILATOR
K21-RF1
ROTARY FEEDER

STAUROLITE
K21-FY4
FEED HOPPER
K21-SG4
SLIDE GATE
K21-FD4
48"-FEEDER
400 st/h

LOW ASH
K21-FY5
FEED HOPPER
K21-SG5
SLIDE GATE
K21-FD5
48"-FEEDER
400 st/h

K21-BC1
42"-CONVEYOR
400 st/h

K21-BF1
BAG FILTER
K21-VE1
VENTILATOR
K21-FV1
FLAP VALVE

K21-BC2
42"-BELT CONVEYOR
400 st/h

DRY SLAG
FEED HOPPER
SLIDE GATE
FEEDER

WET SLAG
FEED HOPPER
SLIDE GATE
FEEDER

BAG FILTER
VENTILATOR
FLAP VALVE

EXISTING

TO MILL No.5

OVERHEAD CRANE FROM A014-001

WASTE SOIL AND WET BF SLAG

EXISTING SLAG DRYING AND WASTE SOIL PROCESSING

K51-BF1
CARTRIDGE FILTER
HIGH TEMPERATURE CARTRIDGE FILTER

K51-VE1
VENTILATOR

K51-FV1
FLAP VALVE

K51-SC1
12"-REVERSIBLE SCREW CONVEYOR

40 st/h

20 st/h

DRY BF SLAG

CLEAN SOIL

RECOVERY BY OVERHEAD CRANE TO HOPPERS

K21-BW1
BELT SCALE

K21-BC3
30"-BELT CONVEYOR
400 st/h

OVERHEAD CRANE FROM A014-001

WET BF SLAG

OVERHEAD CRANE FROM A014-004

DRY BF SLAG

K24-BF1
BAG FILTER
K24-VE1
VENTILATOR
K24-FV1
FLAP VALVE

K24-FY2
FEED HOPPER
K24-SG2
SLIDE GATE
K24-WF2
40" WEIGH FEEDER
0.7-7 st/h

K24-FY1
FEED HOPPER
K24-SG1
SLIDE GATE
K24-WF1
32" WEIGH FEEDER
2-20 st/h

TO MILL No.4

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DATE	REV.	ISSUED FOR	BY
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CEMENT PLANT
MODERNIZATION

TITLE
SMART CRANE
ADDITIVE RECLAIMING
FLOWSHEET 4 OF 21

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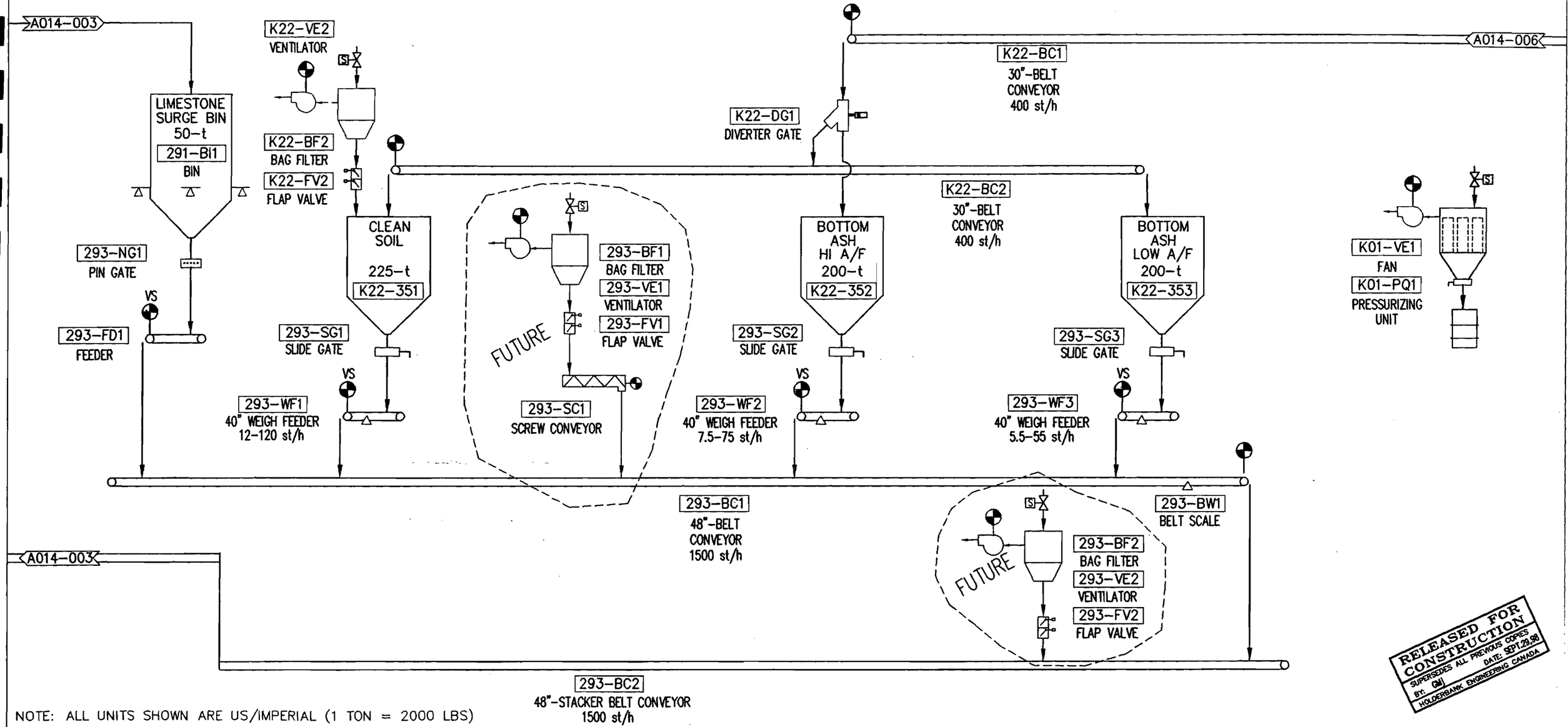
REV. 1



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CEMENT PLANT
MODERNIZATION

TITLE
PREBLENDING
ADDITIVE FEED BINS
FLOWSHEET 5 OF 21

DRAWING No 9453-A014-005
REV. 0

K21–BC3
30"–BELT CONVEYOR 400 st/h

K22–BF1
BAG FILTER
K22–VE1
VENTILATOR
K22–FV1
FLAP VALVE

K21–DG1
DIVERTER GATE

K21–DG2
DIVERTER GATE

K01–VE2
FAN
K01–PQ2
PRESSURIZING UNIT

A014–005

K22–BC1
30"–BELT CONVEYOR 400 st/h

K23–BC1
36"–BELT CONVEYOR 400 st/h

K23–DG1
DIVERTER GATE

K23–BC2
30"–BELT CONVEYOR 400 st/h

MILL SCALE
165–t
K23–351

BOTTOM ASH HI A/F
100–t
K23–352

STAUROLITE
147–t
K23–353

BOTTOM ASH LOW A/F
100–t
K23–354

PREBLENDING MIX
160–t
311–BI1

331–SG1
SLIDE GATE

331–SG2
SLIDE GATE

331–SG3
SLIDE GATE

331–SG4
SLIDE GATE

331–NG1
PIN GATE

331–WF1
40" WEIGH FEEDER
0.5–5 st/h

331–WF2
40" WEIGH FEEDER
1.3–13 st/h

331–WF3
40" WEIGH FEEDER
0.6–6 st/h

331–WF4
40" WEIGH FEEDER
1–10 st/h

331–WF5
48"–WEIGH FEEDER
30–300 st/h

331–MH1
2–t HOIST (ANALYZER)

A014–003

311–BC1
30"–RECLAIM BELT CONVEYOR 300 st/h

311–BC2
30"–BELT CONVEYOR 300 st/h

331–BC1
30"–MILL FEED CONVEYOR 300 st/h

A014–007

331–AN1
NEUTRON ANALYZER

331–MA1
BELT TYPE MAGNET

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TITLE
RAW GRINDING
ADDITIVE FEED BINS
FLOWSHEET 6 OF 21

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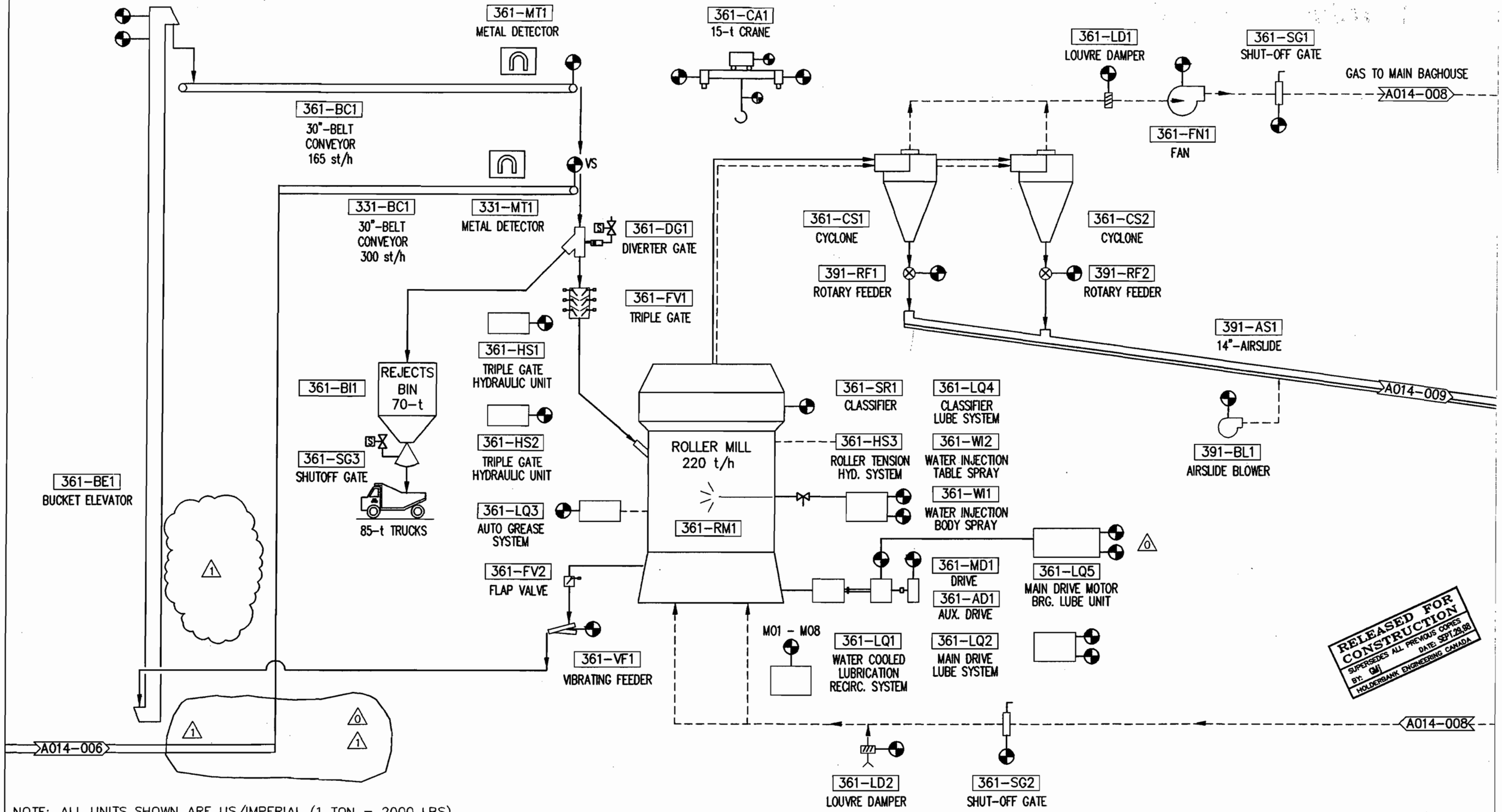

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JAN 30 1998	D	BID—CLARIFICATION I-21	GMJ
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RAW GRINDING
FLOWSHEET 7 OF 21

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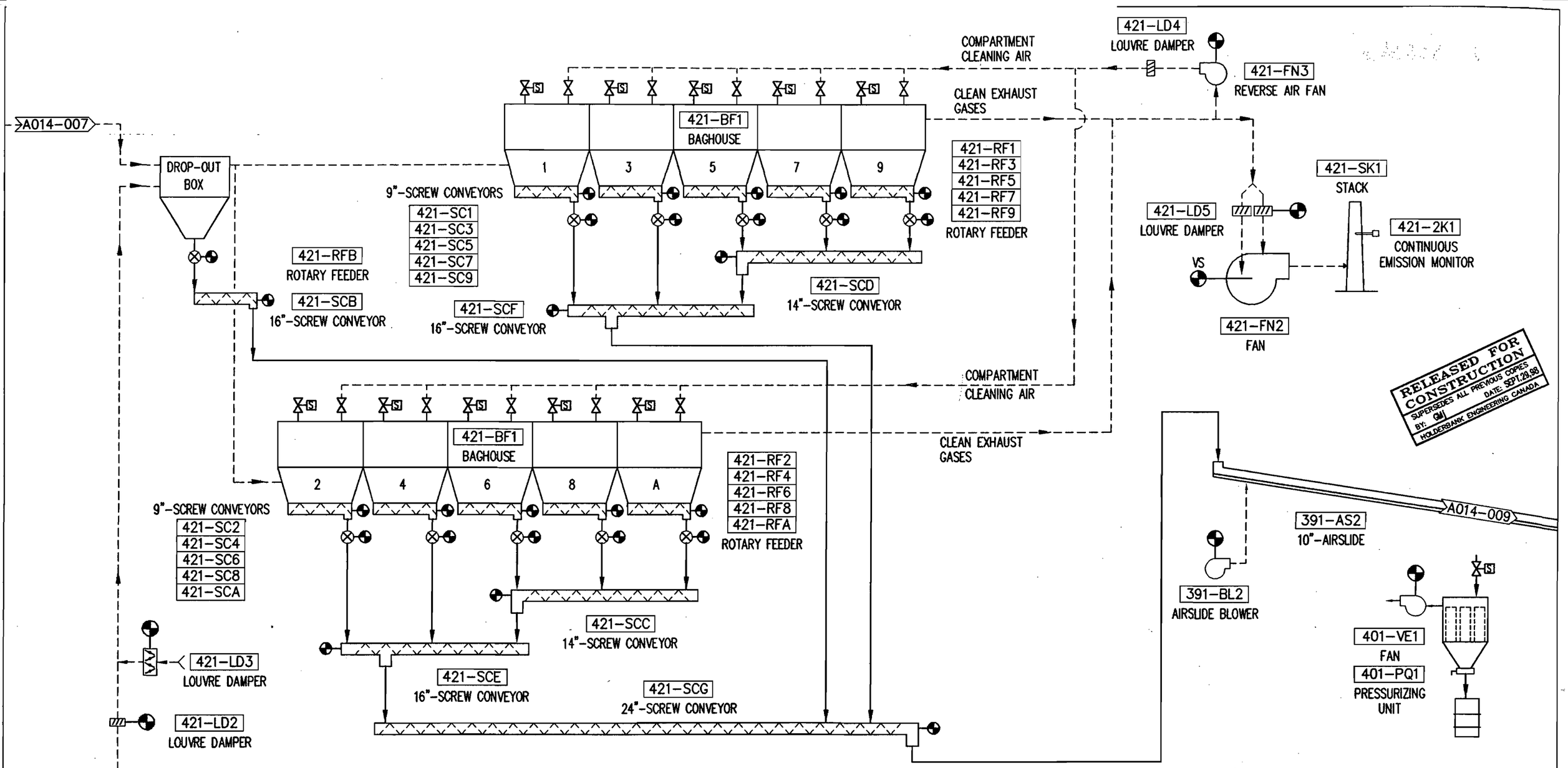

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PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
MAIN BAGHOUSE
FLOWSHEET 8 OF 21

DRAWING No 9453-A014-008 REV. 0

391-GA1
DIVERTER GATE

391-AS3
14"-AIRSLIDE

391-BF2
BAG FILTER
391-VE2
VENTILATOR
391-FV2
FLAP VALVE

431-BF2
BAG FILTER
431-VE2
VENTILATOR
431-FV2
FLAP VALVE

431-SG2
SHUT-OFF GATE

431-SG5
SHUT-OFF GATE

431-SG3
SHUT-OFF GATE

431-SG4
SHUT-OFF GATE

431-AS2
14"-AIRSLIDE

431-RF1
ROTARY FEEDER

431-FV3
TIPPING VALVE

391-BF3
BAG FILTER
391-VE3
VENTILATOR

391-BI1
DUST BIN
200-t

391-BL3
AIRSLIDE BLOWER

391-VA1
PRESSURE
RELIEF VALVE

391-VA2
PRESSURE
RELIEF VALVE

RAW MEAL
4400-t
391-351
411-AE1
AERATION SYSTEM

411-BI1
KILN FEED
BIN
55-t

431-AE1
AERATION SYSTEM

431-BL3
AERATION BLOWER

431-BL2
AIRSLIDE BLOWER

431-RF2
ROTARY FEEDER

431-FV4
TIPPING
VALVE

391-SG1
SLIDE GATE
391-RF3
ROTARY FEEDER

391-BF1
BAG FILTER
391-VE1
VENTILATOR
391-FV1
FLAP VALVE

411-SG1
SHUT-OFF GATE

411-SG2
SHUT-OFF GATE

411-VA1
SHUT-OFF GATE
(AUTOMATIC)

411-VM1
CONTROL VALVE
(AUTOMATIC)

FUTURE

431-SG1
SHUT-OFF GATE

431-VA1
SHUT-OFF GATE
(AUTOMATIC)

BLIND FLANGE

431-VM1
CONTROL VALVE
(AUTOMATIC)

431-BF1
BAG FILTER
431-VE1
VENTILATOR
431-FV1
FLAP VALVE

431-RW1
ROTOR
WEIGHFEEDER

A014-007

391-AS1
14"-AIRSLIDE

A014-008

391-AS2
10"-AIRSLIDE

391-SM1
SAMPLER

411-VA3
SHUT-OFF GATE

411-AS1
14"-AIRSLIDE

411-GA1
DIVERTER GATE

411-BL1
AIRSLIDE BLOWER

431-AS1
14"-AIRSLIDE

431-SM1
SAMPLER

391-BE1
BUCKET ELEVATOR

431-BE1
BUCKET ELEVATOR

411-BL2
BLOWER

411-BL3
BLOWER

411-BL4
BLOWER

411-BL5
BLOWER

431-BL1
AIRSLIDE BLOWER

A014-010

A014-010

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Holderbank Engineering Canada, Ltd.
Mississauga, Ontario
H.E.C. PROJECT 9453

Rinker
Rinker Materials Corporation
Miami, Florida, U.S.A.

PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
RAW MEAL
BLENDING & STORAGE
FLOWSHEET 9 OF 21

DRAWING No
9453-A014-009

REV.
1

441-TK1
WATER TANK

WATER SPRAY SYSTEM
441-WI1

441-PU1
PUMP

441-PU2
PUMP

A014-009

A014-009

COMPRESSED AIR FROM PLANT AIR

441-PH1
5 STAGE PREHEATER

441-CN1
CYCLONE

441-CN2
CYCLONE

441-CN3
CYCLONE

441-CN4
CYCLONE

441-CN5
CYCLONE

451-DG1
DIVERT GATE

441-EL1
"ALIMAK" ELEVATOR

441-2K1
GAS ANALYZER

441-TK2
AIR RECIEVER

COMPRESSED AIR FROM MAIN HEADER

441-CP1
CYCLONE CLEANING COMPRESSOR 150 PSI

401-VE2
FAN

401-PQ2
PRESSURIZING UNIT

451-PR1
PRECALCINER

451-DU1
TERTIARY AIR DUCT

A014-011

C A014-012

TIRE INJECTION SYSTEM (FUTURE)

FUTURE BYPASS

461-2K1
GAS ANALYZER

461-KL1
ROTARY KILN
2750 t/d

FOR BURNER/COOLER SEE DWG. A014-011

A014-011

461-KT1
KILN THRUST SYSTEM

461-LQ1
KILN GEAR LUBE SPRAY SYSTEM

461-PU1
PUMP

461-MD1
MAIN DRIVE

461-AD1
AUX. DRIVE

461-HS1
BACKSTOP HYD. SYSTEM

461-FND
COOLING FAN

461-KS1
KILN SHELL TEMP. SCANNER

461-FN1
TO
461-FN7
FAN
(SLIDING FANS)

461-FN8
FAN

461-FN9
FAN
(STATIONARY FANS)

421-BV1
BUTTERFLY DAMPER

421-LD1
LOUVRE DAMPER

A014-008

VS

AUX.

421-FN1
KILN I.D. FAN

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Rinker Materials Corporation
Miami, Florida, U.S.A.

PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
PREHEATER AND KILN FLOWSHEET 10 OF 21

DRAWING No 9453–A014–010 | REV. 1

TERTIARY AIR DUCT

451-SG1 SHUT-OFF GATE

A014-010

481-PU3 TRANSFER PUMP (2)

TO WASTE DRYER

EXISTING RELOCATED

481-PU1 PUMP

481-PU2 PUMP

OIL 35000 GAL. DAY TANK

481-TK1

451-FN1 GATE COOLING FAN

481-LD1 VANE DAMPER

481-FN1 BURNER PRIMARY AIR FAN

481-LD2 LOUVER DAMPER

481-FN2 BURNER EMERG. FAN

481-BU1 BURNER

A014-012

481-CA1 BURNER CARRIAGE

471-BV1 BUTTERFLY DAMPER

WATER SPRAY SYSTEM

471-WI1

PLANT AIR

471-PU1 PUMP

WATER TANK

471-TK1

471-CS1 CYCLONE

471-CS2 CYCLONE

471-CS3 CYCLONE

471-CS4 CYCLONE

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471-EH2 10-t HOIST (REFRACTORY)

A014-010

461-FNC NOSE RING FAN

471-CC1 GRATE COOLER

471-EH1 5-t HOIST (CRUSHER)

471-HC1 HAMMER CRUSHER

471-LD9 LOUVRE DAMPER

471-FV1 TO 471-FVE FLAP VALVE

491-BF1 BAG FILTER

491-VE1 VENTILATOR

491-FV1 FLAP VALVE

471-FVF FLAP VALVE

401-VE3 FAN

401-PQ3 PRESSURIZING UNIT

471-LDA DAMPER

471-LDB DAMPER

471-CV1 DRAG CHAIN CONVEYOR

471-SC1 12"-SCREW CONVEYOR

471-FN1 TO 471-FN8 FAN

471-LD1 TO 471-LD8 DAMPER

491-AC1 PAN CONVEYOR

A014-013

471-LQ1 LUBE OIL UNIT

HYD. DRIVE UNIT

471-HD1

A014-008

VS

471-FNA FAN

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Miami, Florida, U.S.A.

PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
CLINKER COOLER
FLOWSHEET 11 OF 21

DRAWING No 9453-A014-011

REV. 2

A014-001
OVERHEAD CRANE
A014-001
PETCOKE
COAL
L21-FY1
FEED HOPPER
L21-FY2
FEED HOPPER
L21-NG1
PIN GATE
L21-NG2
PIN GATE
L21-FD1
48"- BELT FEEDER
L21-FD2
48"- BELT FEEDER
L21-BC1
24"-BELT
CONVEYOR
90 st/h
L21-BC2
24"-BELT
CONVEYOR
90 st/h
L21-DG1
2-WAY GATE
L21-BC3
24"-BELT
CONVEYOR
90 st/h
L21-VA1
PRESSURE
RELIEF VALVE
PET
COKE
L21-BI1
50-t
COAL
L21-BI2
120-t
L21-VA2
PRESSURE
RELIEF VALVE
LP CO_2
INERTING SYSTEM
FOR FIRE
PROTECTION
L61-FI1
L31-NG1
PIN GATE
L31-WF1
40" WEIGH FEEDER
0.7-7 st/h
VS
VS
L31-NG2
PIN GATE
L31-WF2
40" WEIGH FEEDER
2-20 st/h
L31-MT1
METAL DETECTOR
VS
L31-BC1
24"-BELT
CONVEYOR
20 st/h
L31-MA1
BELT TYPE
MAGNET
L31-GA1
DIVERTER GATE
L31-RF1
ROTARY FEEDER
L61-2K1
GAS ANALYZER
L61-TK1
CO_2 TANK
L61-LQ2
GRINDING ROLLER
LUBE SYSTEM
L51-LD1
LOUVRE DAMPER
L61-RM1
COAL MILL
14 t/h
L51-SG1
EMERGENCY
SHUT-OFF GATE
L51-FN1
BOOSTER FAN
L61-FV1
FLAP VALVE
REJECTS
BIN
L61-EX2
EXPLOSION GATE
L61-EH1
5-t HOIST
L61-SG1
SHUT-OFF
GATE
LIQUID
VAPOUR
L61-EX1
EXPLOSION GATE
L61-SR1
CLASSIFIER
VS
L61-LQ3
GREASE SYSTEM
L61-HS1
ROLLER TENSION
HYD. SYSTEM
L61-WI1
WATER INJECTION
L61-LQ1
LUBE OIL
UNIT
L61-MD1
DRIVE
L61-BF1
BAGHOUSE
L61-SG2
SHUT-OFF GATE
L61-FN1
FAN
L61-LD1
LOUVRE DAMPER
L91-SC1
16" SCREW
CONVEYOR
L91-RF1
ROTARY FEEDER
L91-SC2
18" SCREW CONVEYOR
L91-BF1
BAG FILTER
L91-VE1
VENTILATOR
L91-BI1
PULV. COAL BIN
L91-AG1
AGITATOR
481-SG1
SHUT-OFF GATE
451-SG2
SHUT-OFF GATE
L91-BL1
BLOWER
L91-SG1
L91-BL3
BLOWER
L91-SG3
L91-SG4
L91-BL2
BLOWER
L91-SG2
451-RW1
ROTOR WEIGHFEEDER
481-RW1
ROTOR WEIGHFEEDER
L61-SK1
STACK
L61-2K2
CONTINUOUS
EMISSION MONITOR
(FUTURE)
L61-LD2
LOUVRE DAMPER
A014-010 C
TO
PRECALCINER
BURNER
A014-011 D
TO
KILN BURNER
EQUIPMENT AND DUCTING TO BE FIRE PROTECTED BY CO_2 SYSTEM
EQUIPMENT TO BE CO_2 INERTED DURING SHUT-DOWN
NOTE: ALL UNITS SHOWN ARE US/IMPERIAL
(1 TON = 2000 LBS)
A014-008
FROM
KILN ID FAN
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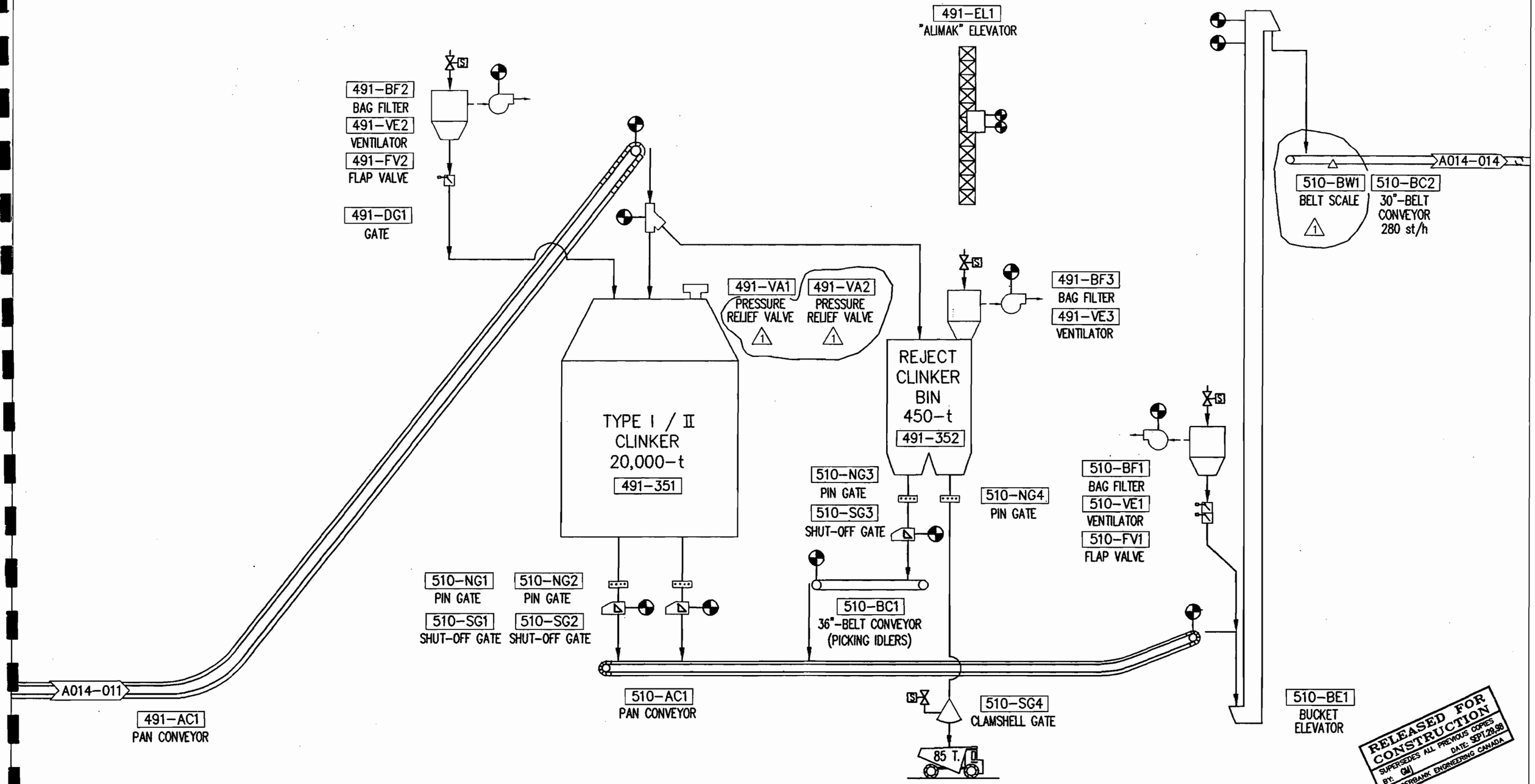
H.E.C. PROJECT 9453

Rinker
Rinker Materials Corporation
Miami, Florida, U.S.A.

PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
COAL AND PETCOKE
GRINDING
FLOWSHEET 12 OF 21

DRAWING No
9453-A014-012
REV.
1



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Miami, Florida, U.S.A.

PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
CLINKER
TRANSPORT & STORAGE
FLOWSHEET 13 OF 21

DRAWING No 9453-A014-013 | REV. 1

510-BF2
CARTRIDGE FILTER
510-VE2
VENTILATOR
510-FV2
FLAP VALVE

510-SG5
SHUTOFF GATE
510-SG6
SHUTOFF GATE

510-BF3
CARTRIDGE FILTER
510-VE3
VENTILATOR
510-FV3
FLAP VALVE

510-BF4
CARTRIDGE FILTER
510-VE4
VENTILATOR
510-FV4
FLAP VALVE

A014-013

A014-015

510-BC2
30"-BELT CONVEYOR
280 st/h

GYPSUM 511-351 | CLINKER 511-352 | CLINKER or STONE 510-351 — TO MILL #2

CLINKER or STONE 510-351 | CLINKER 512-351 | GYPSUM 510-352 — TO MILL #1 | TO MILL #3

GYPSUM 510-352 | CLINKER 513-351 | CLINKER or STONE 513-352 — TO MILL #2

NOTE:
EXISTING STORAGE HALL BUCKET CRANE TO ALSO SERVE FEED BINS OF FINISH MILLS 1, 2, & 3. MAINLY FOR TYPE II AND OVERFLOW CLINKER.

EXISTING FINISH MILL #1 1250 HP

591-SG1
SHUT-OFF GATE

591-CP1
EXISTING COMPRESSOR

591-PP1
PNEUMATIC PUMP

EXISTING FINISH MILL #2 1250 HP

FLY ASH
TO MILL No.1
TO MILL No.2
TO MILL No.3

EXISTING FINISH MILL #3 1250 HP

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1 — A014-021 TO CEMENT STORAGE

2 — A014-017 TO CEMENT STORAGE

3 — A014-017 TO CEMENT STORAGE

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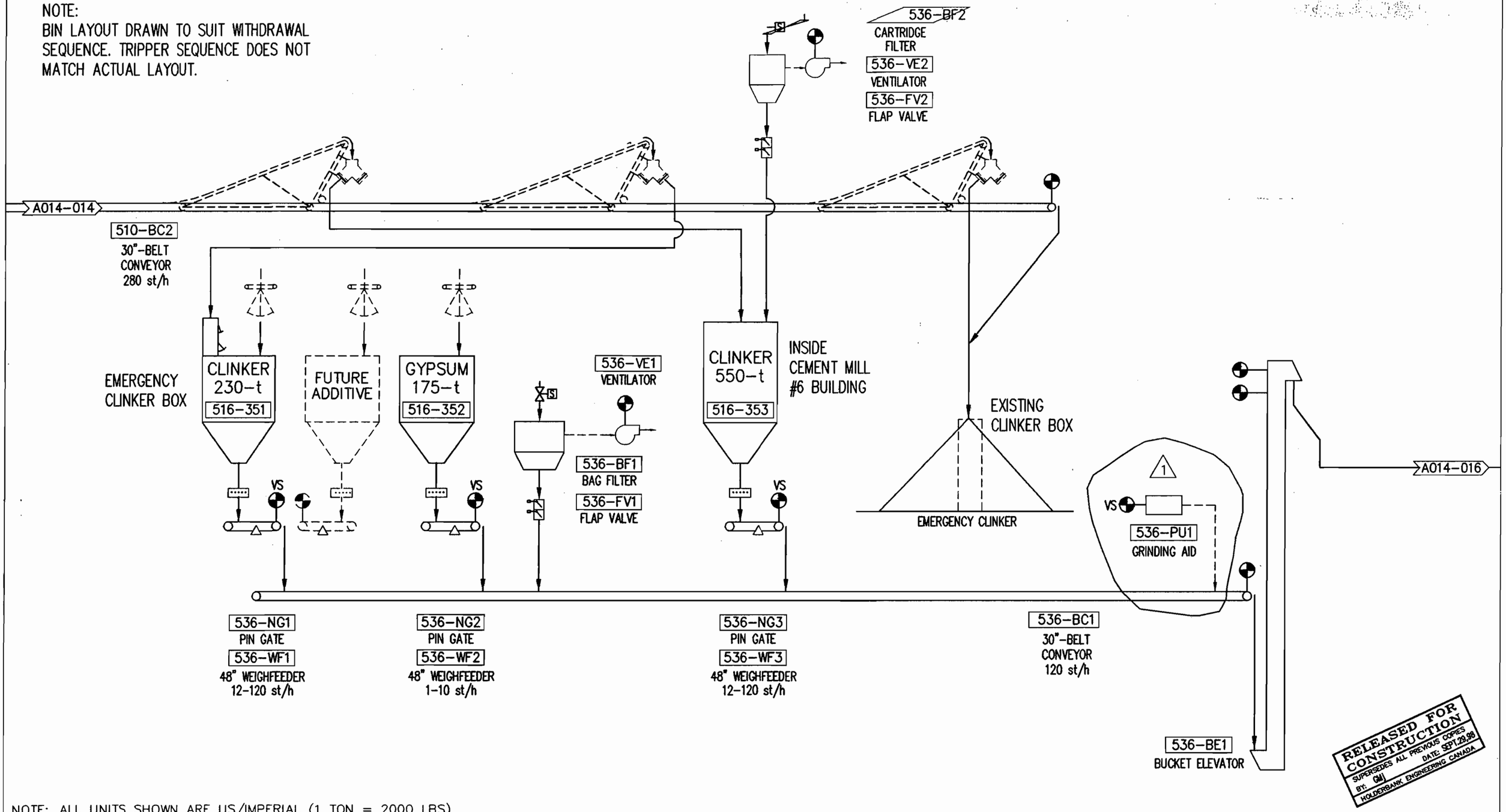
Rinker Materials Corporation
Miami, Florida, U.S.A.

PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
FINISH GRINDING
EXISTING CEMENT MILLS
FLOWSHEET 14 OF 21

DRAWING No 9453-A014-014
REV. 1

NOTE:
BIN LAYOUT DRAWN TO SUIT WITHDRAWAL SEQUENCE. TRIPPER SEQUENCE DOES NOT MATCH ACTUAL LAYOUT.



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PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
NEW CEMENT MILL
FEED BINS
FLOWSHEET 15 OF 21

DRAWING No 9453-A014-015 | REV. 1

566-EH1
5-t HOIST
(SEPARATOR)

566-EH2
12-t HOIST
(FINISH MILL)

566-BF1
BAGHOUSE

566-LD2
LOUVRE DAMPER

566-2K1
CONTINUOUS
EMISSION MONITOR
(FUTURE)

566-FN1
FAN

566-SK1
STACK

501-VE1
FAN

501-PQ1
PRESSURIZING
UNIT

596-AS1
10"-AIRSLIDE

596-AS2
10"-AIRSLIDE

596-RF1
ROTARY FEEDER

596-RF2
ROTARY FEEDER

566-AS2
12"/14"-AIRSLIDE

12"

12"

14"

566-BL2
AIRSLIDE BLOWER

566-FV1
DOUBLE FLAP VALVE

566-SN1
SCREEN

596-BL1
AIRSLIDE BLOWER

REDUCER
SEPARATOR
LUBE UNIT

566-LQ1

SHAFT
SEPARATOR
LUBE UNIT

566-LQ2

566-LD1
DAMPER

566-AS3
12"-AIRSLIDE

VS

566-SR1
H.E. SEPARATOR

566-LD3
DAMPER

566-BL3
AIRSLIDE
BLOWER

566-AS4
14"-AIRSLIDE

566-FM1
FLOWMETER

566-BL5
AIRSLIDE BLOWER

WATER SPRAY SYSTEM

566-WI1

566-PU1
PUMP

PLANT AIR

WATER
TANK

596-DG1
DIVERTER GATE

596-VE2
VENTILATOR

596-BF2
BAG FILTER

596-FV1
FLAP VALVE

A014-017

A014-015

566-AS5
14"-AIRSLIDE

566-BL6
AIRSLIDE BLOWER

566-TV1
AIR INLET
THROTTLE VALVE

566-BM1
BALL MILL #6
4500 HP
95 st/h

MOTOR
BEARING
LUBE UNIT

566-LQ9

COUPLING

HYDRAULIC
UNIT

566-LQ5

REDUCER
LUBE UNIT

566-LQ6

566-MD1
MAIN DRIVE

566-AD1
AUX. DRIVE

596-AS3
12"-AIRSLIDE

596-CQ1
CEMENT COOLER

596-SM1
SAMPLER

596-BL3
AIRSLIDE BLOWER

LUBE
UNIT

566-LQ3

566-LQ4

566-LQ7

566-LQ8

WATER
COOLING

566-AS1
14"-AIRSLIDE

566-BL1
AIRSLIDE BLOWER

566-BE1
BUCKET ELEVATOR

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CEMENT PLANT
MODERNIZATION

TITLE
FINISH GRINDING
NEW CEMENT MILLS
FLOWSHEET 16 OF 21

DRAWING No
9453-A014-016

REV.
1

596-DGE DIVERTER GATE
596-DGF DIVERTER GATE
596-DGG DIVERTER GATE
596-DGH DIVERTER GATE
SILO 21 TRUCK
SILO 31 TRUCK
SILO 41 TRUCK
SILO 52 TRUCK
SILO 51 TRUCK
LUBE UNIT
△0 596-LQ1 (FOR BOTH COMPRESSORS)
596-CP1 COMPRESSOR
596-CP2 COMPRESSOR
596-DG3 DIVERTER GATE
596-DGB DIVERTER GATE
596-DGC DIVERTER GATE
596-DGD DIVERTER GATE
FROM MILL 2 (TYP.) A014-014
FROM MILL 3 (TYP.) A014-014
SILO 23 TRUCK
SILO 33 TRUCK
SILO 43 TRUCK
SILO 53 TRUCK
590-BF1 BAG FILTER
590-VE1 VENTILATOR
590-FV1 FLAP VALVE
590-BF2 BAG FILTER
590-VE2 VENTILATOR
590-FV2 FLAP VALVE
SILO 11 XXXX
SILO 46 TRUCK
△1 A014-016
△1 A014-016
596-PP1 F.K. PUMP (MILL No.6)
596-DG2 DIVERTER GATE
596-DG4 DIVERTER GATE
596-DG5 DIVERTER GATE
596-DG6 DIVERTER GATE
596-DG7 DIVERTER GATE
596-DG8 DIVERTER GATE
596-DG9 DIVERTER GATE
SILO 25 PACKING
SILO 35 PACKING
SILO 44 TRUCK
SILO 45 TRUCK
SILO 54 TRUCK
SILO 56 TRUCK
596-DGA DIVERTER GATE
596-BF1 BAG FILTER
596-VE1 VENTILATOR
596-VA1 PRESSURE RELIEF VALVE
△1 596-VA2 PRESSURE RELIEF VALVE
596-VA3 PRESSURE RELIEF VALVE △1
596-VA4 PRESSURE RELIEF VALVE
CEMENT SILO 7,500-t 596-351
CEMENT SILO 7,500-t 596-352

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DRAWN	DL	OCT. 3 1997	MAR.05,99	2	CONSTRUCTION	GMJ
CHKD.	GMJ	SEPT.26,98	JAN.20,99	1	CONSTRUCTION	GMJ
APPR.	DFS		SEPT.29,98	0	CONSTRUCTION	GMJ
	WZ		APR 23 1998	J	FULLER INFORMATION	GMJ
SCALE	NONE		APR 17 1998	H	CONTRACT	GMJ
			DATE	REV.	ISSUED FOR	BY

MAR 16 1998	G	TENDER	GMJ
MAR 11 1998	F	CLIENT INFORMATION	GMJ
FEB 16 1998	E	FULLER INFORMATION	GMJ
JAN 30 1998	D	BID-CLARIFICATION I-21	GMJ
DEC 03 1997	C	FULLER INFORMATION	GMJ
NOV 04 1997	B	INFORMATION	GMJ
DATE	REV.	ISSUED FOR	BY

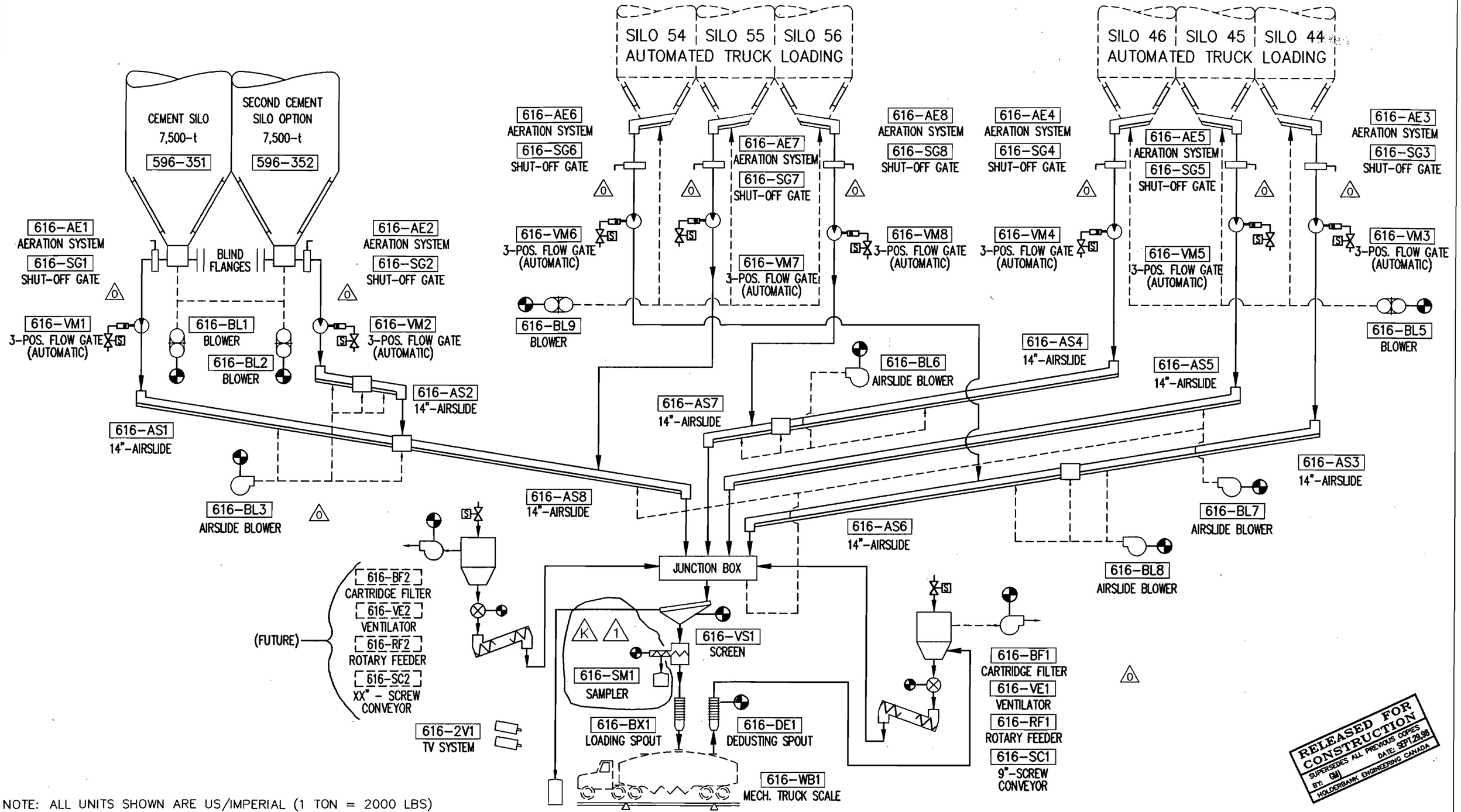
"HOLDERBANK"
Holderbank Engineering Canada, Ltd.
Mississauga, Ontario
H.E.C. PROJECT 9453

Rinker
Rinker Materials Corporation
Miami, Florida, U.S.A.

PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
CEMENT TRANSPORT
F.K PUMP PIPING MILL NO. 6
FLOWSHEET 17 OF 21

DRAWING No 9453-A014-017 REV. 2



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CHKD.	GMJ	SEPT.26,98	JAN.20,99	1	CONSTRUCTION	GMJ
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APPR.	DFS		APR 23 1998	J	FULLER INFORMATION	GMJ
	WZ		APR 17 1998	H	CONTRACT	GMJ
SCALE	NONE		DATE	REV.	ISSUED FOR	BY

DATE	REV.	ISSUED FOR	BY
MAR 16 1998	G	TENDER	GMJ
MAR 11 1998	F	CLIENT INFORMATION	GMJ
FEB 16 1998	E	FULLER INFORMATION	GMJ
JAN 30 1998	D	BID-CLARIFICATION 1-21	GMJ
DEC 03 1997	C	FULLER INFORMATION	GMJ
NOV 04 1997	B	INFORMATION	GMJ

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Rinker Materials Corporation
Miami, Florida, U.S.A.

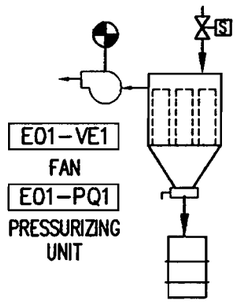
PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
BULK CEMENT
DISPATCH
FLOWSHEET 18 OF 21

DRAWING No 9453-A014-018 | REV. 1

PLANT AIR
(SEE DWG. EC26-002)

PLANT WATER
(SEE DWG. EC26-003)



FOR SWITCH GEAR ELECTRICAL ROOM

E10-EG1
EMERGENCY GENERATOR

M51-PU1
NEW DIESEL FIRE PUMP
1

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CHKD.	GMJ	SEPT.26,98	MAR.05,99	1	CONSTRUCTION	GMJ
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APPR.	DFS		APR 23 1998	J	FULLER INFORMATION	GMJ
	WZ		APR 17 1998	H	CONTRACT	GMJ
SCALE	NONE		DATE	REV.	ISSUED FOR	BY

DATE	REV.	ISSUED FOR	BY
MAR 16 1998	G	TENDER	GMJ
MAR 11 1998	F	CLIENT INFORMATION	GMJ
FEB 16 1998	E	FULLER INFORMATION	GMJ
JAN 30 1998	D	BID-CLARIFICATION 1-21	GMJ
DEC 03 1997	C	FULLER INFORMATION	GMJ
NOV 04 1997	B	INFORMATION	GMJ

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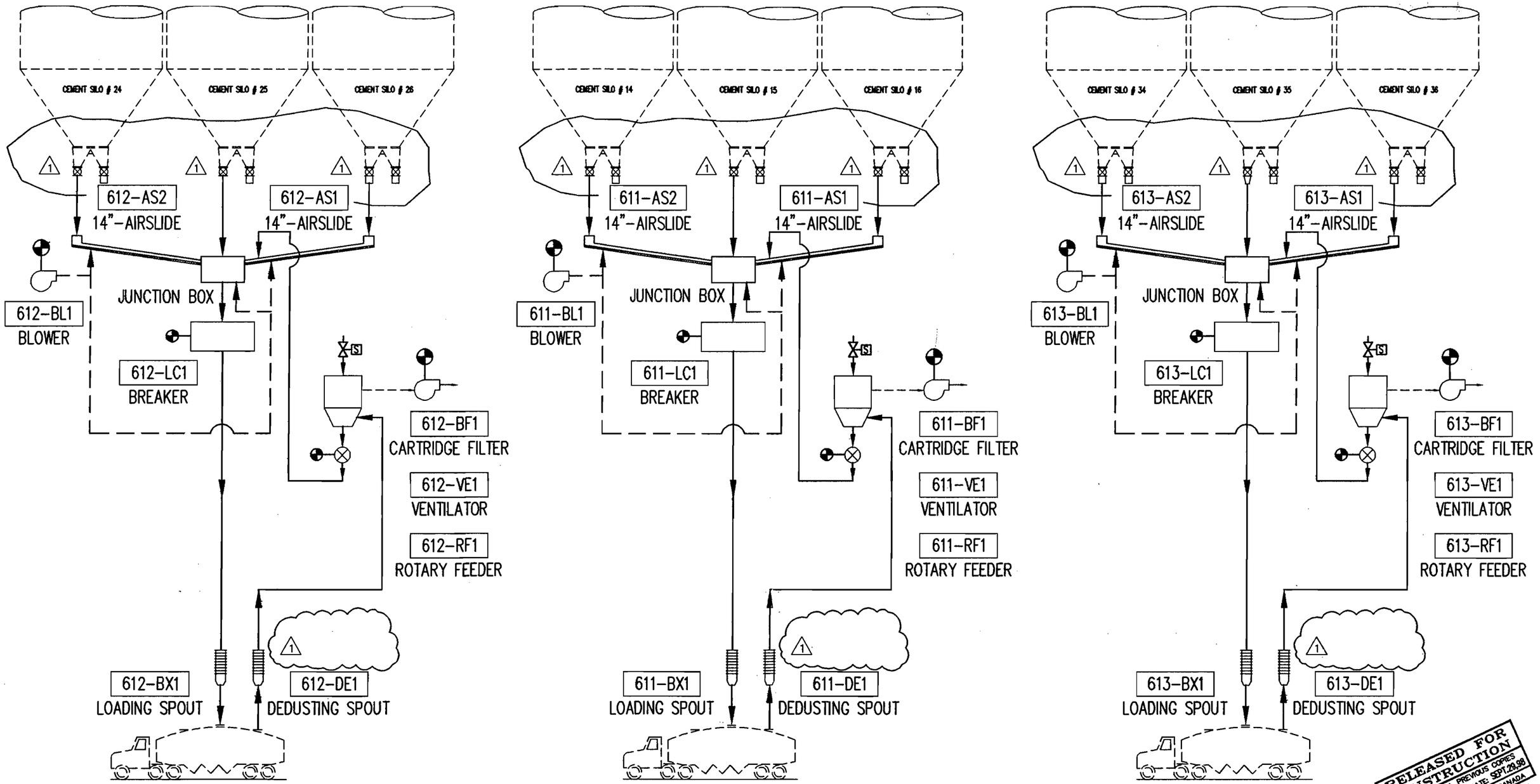
PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE
GENERAL
PLANT SERVICES
FLOWSHEET 19 OF 21

DRAWING No 9453-A014-019 | REV. 1



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DRAWN	JPT	MAY 22 1998											
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APPR.	DFS							JAN.20,99	1	CONSTRUCTION	GMJ		
	WZ							SEPT.29,98	0	CONSTRUCTION	GMJ		
SCALE	NONE		DATE	REV.	ISSUED FOR	BY		DATE	REV.	ISSUED FOR	BY		

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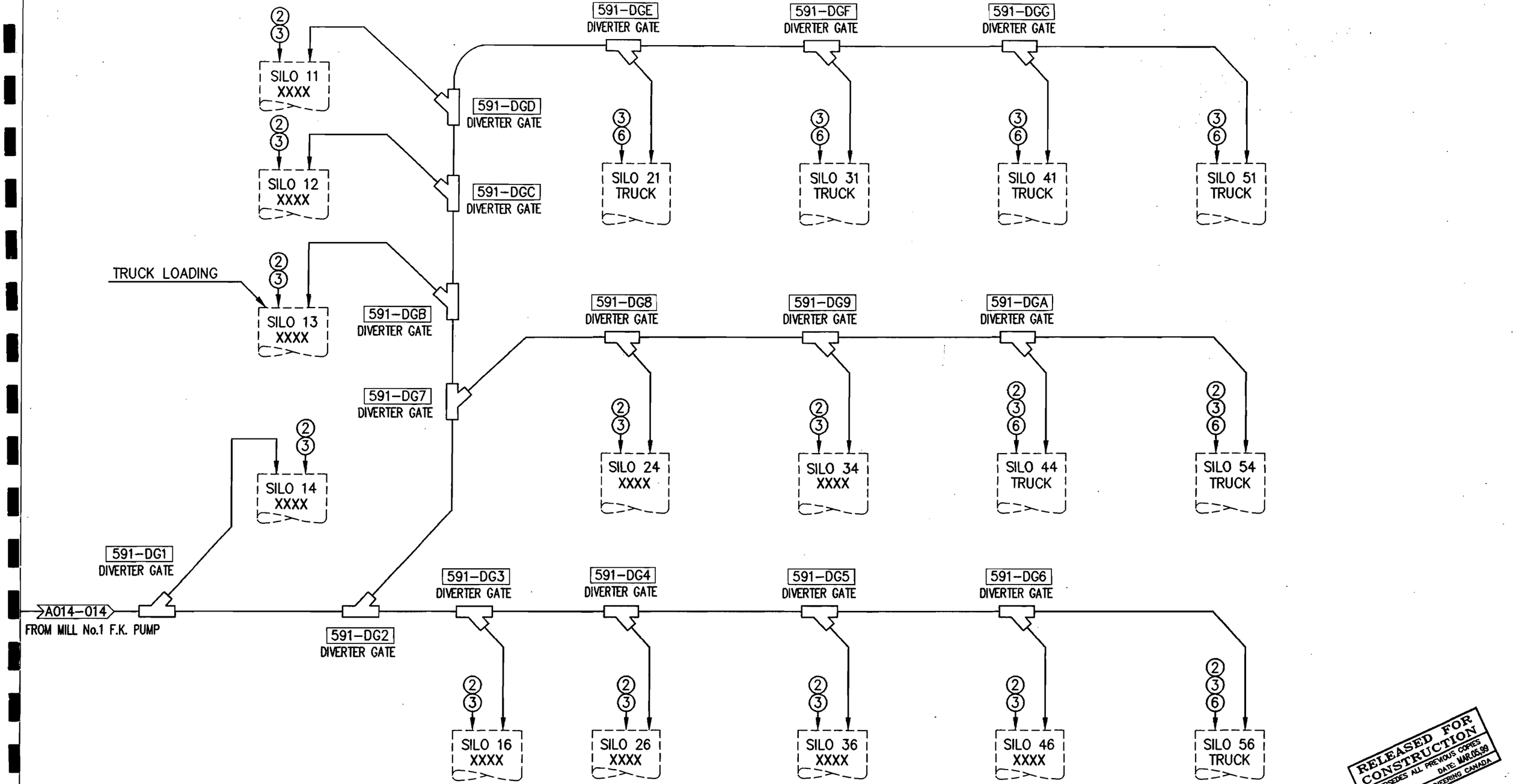
CEMENT PLANT
MODERNIZATION

TITLE
GENERAL
PLANT SERVICES
FLOWSHEET 20 OF 21

DRAWING No 9453-A014-020 REV. 1



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DRAWN	J.C.	MAR. 04,99									
CHKD.	GMJ	MAR. 04,99									
APPR.	DFS							MAR.05,99	0	CONSTRUCTION	GMj
	WZ							MAR.04,99	A	CLIENT APPROVAL	GMj
SCALE	NONE	DATE	REV.	ISSUED FOR	BY	DATE	REV.	ISSUED FOR	BY		

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Rinker Materials Corporation
Miami, Florida, U.S.A.

PROJECT 9453
CEMENT PLANT
MODERNIZATION

TITLE: CEMENT TRANSPORT
F.K. PUMP PIPING MILL No 1
FLOWSHEET 21 OF 21

DRAWING No: 9453-A014-021
REV.: 0