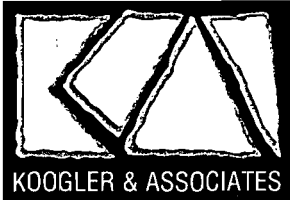


DARM BAR Copy
Attn: Cindy Mulkey



KOOGLER & ASSOCIATES

ENVIRONMENTAL SERVICES
4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
352/377-5822 ▪ FAX/377-7158

KA 521-06-24
October 19, 2006

Mr. David Zell
Air Permitting Engineer
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

**RE: Air Construction Permit Application to Replace No. 1 Cement Kiln Baghouse Dampers
CEMEX Cement, Inc.; Brooksville Facility**

0530010-028-AC

Dear Mr. Zell:

Enclosed please find four (4) copies of an air construction permit application to replace some of the Cement Kiln No. 1 Baghouse Dampers at CEMEX Cement, Inc.'s (CEMEX's) Brooksville Cement Plant. If you have any questions, please contact me at (352) 377-5822 or FBergen@kooglerassociates.com, or Mr. Charles Walz, CEMEX, at (352) 799-2011.

Dept. of Environmental
Protection

OCT 20 2006

Southwest District

Very truly yours,

KOOGLER & ASSOCIATES, INC.

Fawn W. Bergen, P.E.
Project Engineer

FB

Enclosure: 4 copies—AC Permit Application

cc: J. Bins, CEMEX Corporate
C. Walz, CEMEX Brooksville

DARM BAR copy
Attn. Cindy Mulkey



Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for any air construction permit at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes to establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial/revised/renewal Title V air operation permit.

Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option) – Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions

Dept. of Environment
Protection

Identification of Facility

1. Facility Owner/Company Name: CEMEX Cement Inc.	
2. Site Name: Brooksville Cement Plant	
3. Facility Identification Number: 0530010	
4. Facility Location... Street Address or Other Locator: 1630 Ponce de Leon Blvd. City: Brooksville County: Hernando Zip Code: 34601	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

OCT 20 2006

Southwest Dist

Application Contact

1. Application Contact Name: Fawn Bergen, PE, Project Engineer	
2. Application Contact Mailing Address... Organization/Firm: Koogler & Associates, Inc. Street Address: 4014 NW 13th Street City: Gainesville State: Florida Zip Code: 32609	
3. Application Contact Telephone Numbers... Telephone: (352) 377-5822 ext. 29 Fax: (352) 377-7158	
4. Application Contact Email Address: FBergen@kooglerassociates.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 10/20/06	3. PSD Number (if applicable):
2. Project Number(s): 0530010-028-AC	4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

This application for air permit is submitted to obtain: (Check one)

Air Construction Permit

- Air construction permit.
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

- Initial Title V air operation permit.
- Title V air operation permit revision.
- Title V air operation permit renewal.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit
(Concurrent Processing)**

- Air construction permit and Title V permit revision, incorporating the proposed project.
- Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

- I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

Refer to Attachment A for a description of the proposed project.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
003	No. 1 Kiln	AC1B	N/A

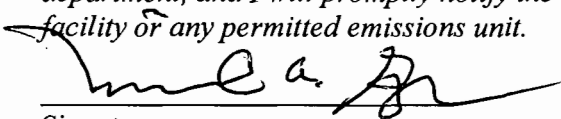
Application Processing Fee

Check one: Attached - Amount: \$ _____ Not Applicable

APPLICATION INFORMATION

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name : Michael A. Gonzales, Plant Manager
2. Owner/Authorized Representative Mailing Address... Organization/Firm: CEMEX Cement, Inc. Street Address: PO Box 6 City: Brooksville State: FL Zip Code: 34605-0006
3. Owner/Authorized Representative Telephone Numbers... Telephone: (352) 799 - 2057 ext. Fax: (352) 754 - 9836
4. Owner/Authorized Representative Email Address: Michaelanthony.gonzales@cemexusa.com
5. Owner/Authorized Representative Statement: <p><i>I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. 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 and all other requirements identified in this application to which the facility is subject. 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 the facility or any permitted emissions unit.</i></p> <p> Signature</p> <p><u>10/18/2006</u> Date</p>

APPLICATION INFORMATION

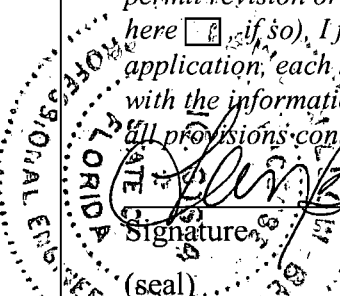
Application Responsible Official Certification

Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name:
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.
3. Application Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
4. Application Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -
5. Application Responsible Official Email Address:
6. Application Responsible Official Certification: <i>I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. 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 and all other applicable requirements identified in this application to which the Title V source is subject. 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 the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.</i> _____ Signature _____ Date

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Fawn Bergen, PE Registration Number: 61614
2. Professional Engineer Mailing Address... Organization/Firm: Koogler & Associates, Inc. Street Address: 4014 NW 13th Street City: Gainesville State: Florida Zip Code: 32609
3. Professional Engineer Telephone Numbers... Telephone: (352) 377 - 5822 ext.29 Fax: (352) 377 - 7158
4. Professional Engineer Email Address: FBergen@kooglerassociates.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(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</i> <i>(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.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/>, 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 plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input checked="" type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, 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.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/>, 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.</i>  Signature: <u><i>Fawn Bergen</i></u> Date: <u>10/19/06</u> (seal)

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 356.9 North (km) 3169.0		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 28/38/34 Longitude (DD/MM/SS) 82/28/25	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 32	6. Facility SIC(s): 3241
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: Charles E. Walz, Environmental Manager
2. Facility Contact Mailing Address... Organization/Firm: CEMEX Cement, Inc. Street Address: Post Office Box 6 <div style="display: flex; justify-content: space-between; margin-top: 5px;"> City: Brooksville State: Florida Zip Code: 34605-0006 </div>
3. Facility Contact Telephone Numbers: Telephone: (352) 796 - 7241 ext. Fax: (352) 754 - 9836
4. Facility Contact Email Address: cwalz@cemexusa.com

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> City: State: Zip Code: </div>
3. Facility Primary Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -
4. Facility Primary Responsible Official Email Address:

FACILITY INFORMATION

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
PM	A	N
PM ₁₀	A	N
NO _x	A	N
SO ₂	A	N
CO	A	N
VOC	A	N
HCl	A	N
HAPs	A	N

FACILITY INFORMATION

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Unit ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>10/05</u>
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>10/05</u>
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>10/05</u>

Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment A</u>
3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment A</u>
4. List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

FACILITY INFORMATION

Additional Requirements for FESOP Applications

1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.):
 Attached, Document ID: _____ Not Applicable (no exempt units at facility)

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities (Required for initial/renewal applications only):
 Attached, Document ID: _____ Not Applicable (revision application)

2. Identification of Applicable Requirements (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought):
 Attached, Document ID: _____
 Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan (Required for all initial/revision/renewal applications):
 Attached, Document ID: _____
Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.

4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only):
 Attached, Document ID: _____
 Equipment/Activities On site but Not Required to be Individually Listed
 Not Applicable

5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only) :
 Attached, Document ID: _____ Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:
 Attached, Document ID: _____ Not Applicable

Additional Requirements Comment

[Empty box for additional requirements comment]

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

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.

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. Description of Emissions Unit Addressed in this Section: **No. 1 Cement Kiln**

3. Emissions Unit Identification Number: **003**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--------------------------------	--------------------------	--	--

9. Package Unit:
Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment: **There will not be any change in emissions or production rate as part of the proposed project. Refer to Attachment A for a description of the proposed project.**

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

016 – Baghouse – High Temperature (Fuller Draco Custom ID No. E-55)

205 – Low NO_x Burners

032 – Ammonia Injection (SNCR)

2. Control Device or Method Code(s): **016, 205, 032**

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 165 TPH; 1,300,000 TPY preheater feed (consecutive 12-month period)		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate: 300 million Btu/hr		
4. Maximum Incineration Rate: pounds/hr tons/day		
5. Requested Maximum Operating Schedule:		
24 hours/day		7 days/week
52 weeks/year		8,760 hours/year
6. Operating Capacity/Schedule Comment:		

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

C. EMISSION POINT (STACK/VENT) INFORMATION
 (Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: No. 1 Kiln Stack		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Kiln No. 1 Stack			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 150 feet	7. Exit Diameter: 13.0 feet	
8. Exit Temperature: 220°F	9. Actual Volumetric Flow Rate: 286,200 acfm	10. Water Vapor: 10 %	
11. Maximum Dry Standard Flow Rate: 200,000 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: Stack parameters based on recent stack test data.			

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 10

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater Kiln		
2. Source Classification Code (SCC): 3-05-006-22		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 165	5. Maximum Annual Rate: 1,300,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Segment represents preheater feed rate. Annual rate based on 150 TPH and 8,760 hr/yr and an operating factor of 99%. Based on Permit No. 0530010-002-AV.		

Segment Description and Rate: Segment 2 of 10

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater Kiln		
2. Source Classification Code (SCC): 3-05-006-22		3. SCC Units: Tons Clinker Produced
4. Maximum Hourly Rate: 99.0	5. Maximum Annual Rate: 780,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: The maximum rates are based on the maximum preheater rates times 0.60: Maximum hourly rate = 165 TPH x 0.60 = 99.0 TPH Maximum annual rate = 1,300,000 TPY x 0.60 = 780,000 TPY		

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)**Segment Description and Rate: Segment 3 of 10**

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Distillate Oil (No. 2); Cement Kiln		
2. Source Classification Code (SCC): 3-90-005-02		3. SCC Units: 1,000 Gallons Burned
4. Maximum Hourly Rate: 2.116	5. Maximum Annual Rate: 18,536.2	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 141.3
10. Segment Comment: Maximum rates based on Permit No. 0530010-002-AV. Maximum annual rate based on the hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment 4 of 10

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Distillate Oil (No. 4); Cement Kiln		
2. Source Classification Code (SCC): 3-90-005-02		3. SCC Units: 1,000 Gallons Burned
4. Maximum Hourly Rate: 2.06	5. Maximum Annual Rate: 18,045.6	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 145.6
10. Segment Comment: Maximum rates based on Permit No. 0530010-002-AV. Maximum annual rate based on the hourly rate and 8,760 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)**Segment Description and Rate: Segment 5 of 10**

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Residual Oil (No. 5); Cement Kiln		
2. Source Classification Code (SCC): 3-90-004-02		3. SCC Units: 1,000 Gallons Burned
4. Maximum Hourly Rate: 2.016	5. Maximum Annual Rate: 17,660.16	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 148.8
10. Segment Comment: Maximum rates based on Permit No. 0530010-002-AV. Maximum annual rate based on the hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment 6 of 10

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Residual Oil (No. 6); Cement Kiln		
2. Source Classification Code (SCC): 3-90-004-02		3. SCC Units: 1,000 Gallons Burned
4. Maximum Hourly Rate: 1.982	5. Maximum Annual Rate: 17,362.32	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 151.3
10. Segment Comment: Maximum rates based on Permit No. 0530010-002-AV. Maximum annual rate based on the hourly rate and 8,760 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 7 of 10

1. Segment Description (Process/Fuel Type): Industrial Processes; 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: 0.293	5. Maximum Annual Rate: 2,563.9	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1,025
10. Segment Comment: Maximum rates based on Permit No. 0530010-002-AV. Maximum annual rate based on the hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment 8 of 10

1. Segment Description (Process/Fuel Type): Industrial Processes; 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: 12.0	5. Maximum Annual Rate: 105,120	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 25
10. Segment Comment: Maximum rates based on Permit No. 0530010-002-AV. Maximum annual rate based on the hourly rate and 8,760 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)**Segment Description and Rate: Segment 9 of 10**

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Solid Waste; Tires [Whole Tire-Derived Fuel (WTDF)]		
2. Source Classification Code (SCC): 3-90-012-99		3. SCC Units: Tons Burned
4. Maximum Hourly Rate: 2.14	5. Maximum Annual Rate: 18,746.4	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 28
10. Segment Comment: Maximum rates based on Permit No. 0530010-002-AV. Maximum annual rate based on the hourly rate and 8,760 hr/yr. The maximum utilization/firing rate of WTDF shall not exceed 20% of the total Btu heat input, or 2.14 TPH (daily average).		

Segment Description and Rate: Segment 10 of 10

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Liquid Waste – On-Site Generated Non-Hazardous Waste Used Oil and Grease		
2. Source Classification Code (SCC): 3-90-013-89		3. SCC Units: 1,000 Gallons Burned
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 5.0 (rolling-monthly basis)	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum rates based on Permit No. 0530010-002-AV.		

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		EL
PM ₁₀	018		EL
SO ₂			EL
NO _x	205/032		EL
VOC			EL
CO			EL
D/F			EL

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [1] of [1]

No. 1 Cement Kiln

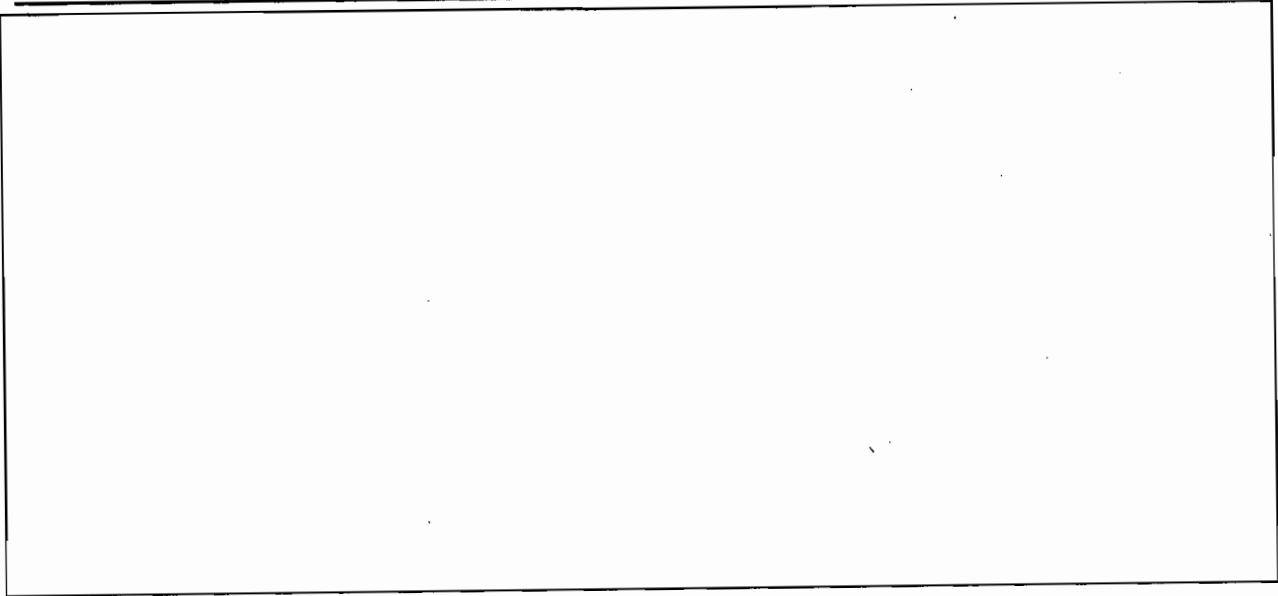
Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications N/A

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment



ATTACHMENT A
DESCRIPTION OF PROPOSED PROJECT

ATTACHMENT A

DESCRIPTION OF PROPOSED PROJECT

CEMEX Cement, Inc. operates a Portland cement manufacturing plant in Brooksville, Florida. Cement Kiln No. 1 utilizes a reverse-air cleaning baghouse to control particulate matter (PM/PM₁₀) emissions. The isolating dampers that control the reverse-air cleaning on 16 of the 20 compartments on this baghouse are a twin disk design that pivots back and forth in a 90-degree arc. Each disk is shaped so one side is convex and the two are mounted on a frame so that they oppose each other; convex side out. This allows the disk on one side to isolate the incoming reverse air when the compartment is on line or pivot 90 degrees to allow the second disk to isolate the compartment and allow reverse air to enter for cleaning. The two disks are tensioned with a coil spring to allow for a tight fit whenever they are engaged.

The problem that has been encountered with this system is that the coil springs occasionally break, preventing the disks from making a tight fit. If this occurs and the damper engages the reverse air side, the supply of reverse air to the rest of the baghouse is short circuited by this loose fitting disk seat. This eventually leads to cleaning problems with the entire baghouse that, in turn, can lead to opacity problems. Troubleshooting damper problems with this design can be difficult and repairing them on line can be problematic.

In 1998 four new compartments were added to this emission unit with the new design dual poppet damper arrangement. This arrangement employs two separate dampers. Each damper is a round flat disc that is mounted and welded to a shaft, perpendicular to one another. The end of the shaft is attached in line to the end of an air cylinder. The cylinder moves the shaft and the mounted disc up and down in a vertical plane. The two dampers work together to either have the compartment online filtering air or offline allowing reverse air to clean the bags. The No. 2 Cement Kiln baghouse has this dual poppet damper configuration.

CEMEX has experienced very few problems with the poppet damper configuration. This arrangement also allows for easier and faster identification and repair of problem dampers.

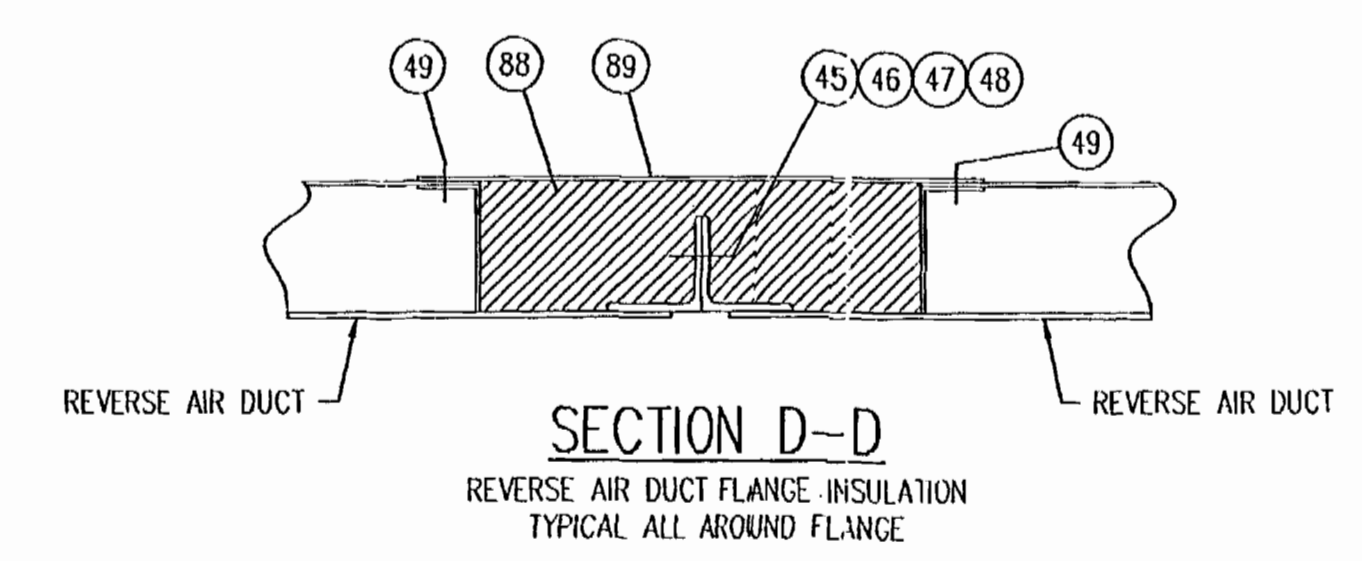
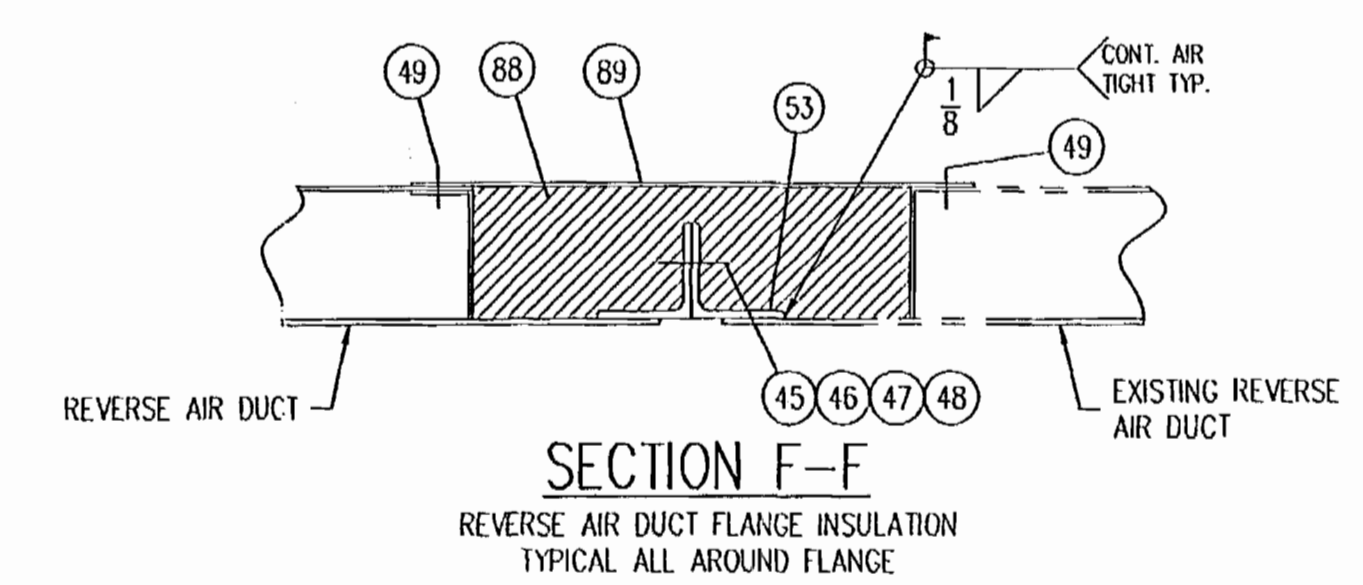
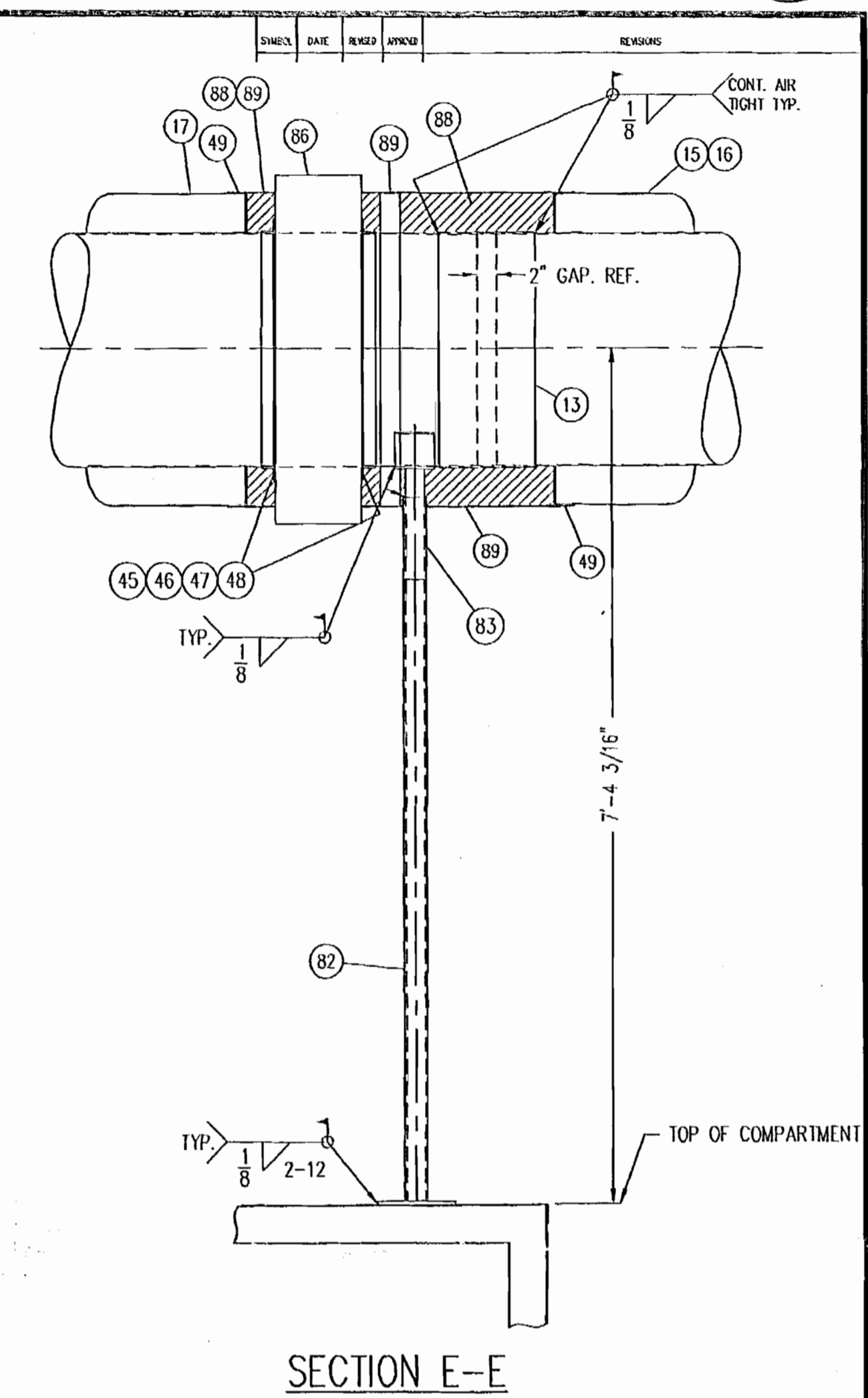
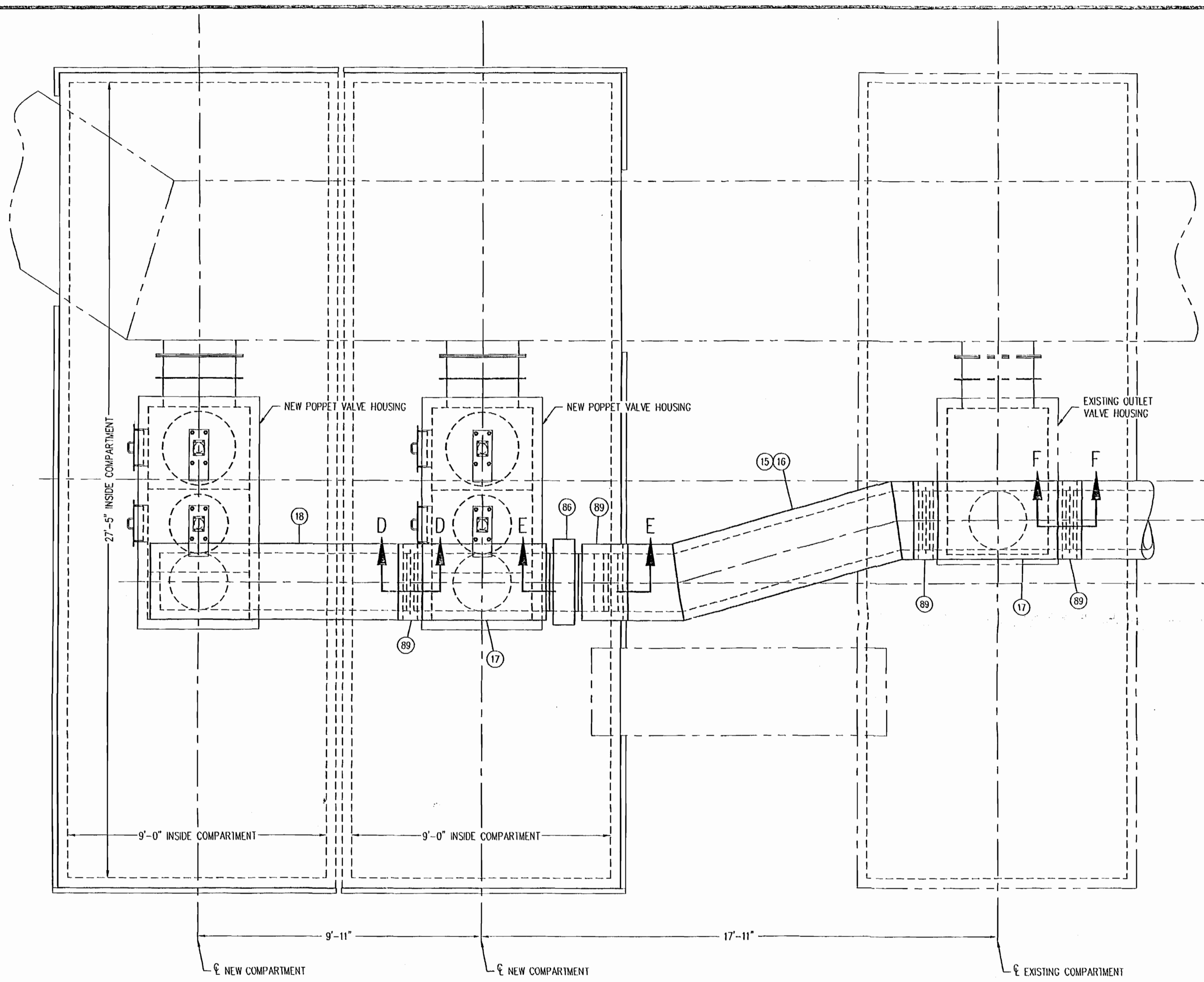
CEMEX proposes to replace the remaining 16 compartment dampers of the No. 1 Kiln baghouse and related ductwork with this newer design. This work will take place over a period of about two years due to the amount of time and manpower required to complete the changes. Most likely several compartments will be changed during each annual kiln outage in 2007 and 2008.

Detailed drawings of the existing configuration and the proposed new damper configuration are included in this attachment.

There will be no change in emissions and no changes in production rate as a result of this project. The proposed changes will result in a more reliable baghouse damper design and will allow for easier and faster identification and repair of problem dampers.

The CEMEX Brooksville facility is a major source, subject to prevention of significant deterioration (PSD) review under Rule 62-212.400, F.A.C. Therefore, a modification to this facility is subject to a determination of PSD applicability. However, this project will not result in an increase in the permitted production rates or emission rates. Consequently, this project is not subject to PSD review. This source is subject to 40 CFR Subpart LLL: National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

1

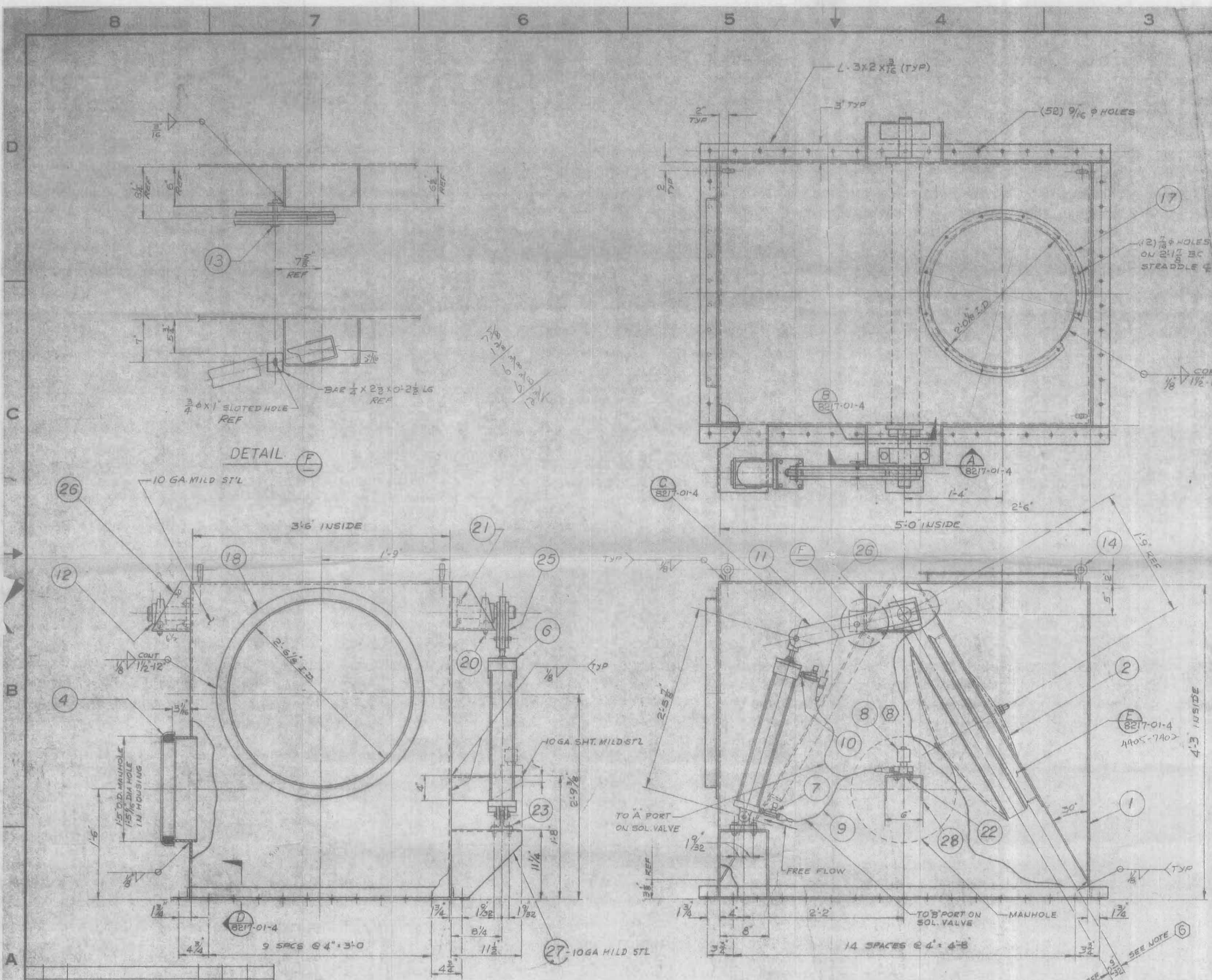


0530010-028

FOR: SOUTHDOWN, INC. LOCATION: BROOKSVILLE, FL. CUSTOMER EQUIPMENT ID: 23281 CUSTOMER P.O. NO.: C579296 BIA PROJECT NO.: SOUFL-B001	8800 East 63rd Street Kansas City, MO, USA 64133 PHONE: 816-356-8400 FAX: 816-353-1873 SALES: 800-821-2222	REVERSE AIR DUCT INSTALLATION SHEET NO: 505-3941 OF 9	DRAWN BY: BVV CHECKED BY: [Signature] APPROVED BY: [Signature] DATE: 8-11-98 SCALE: N.T.S.
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THIS DRAWING WAS CREATED USING AUTOCAD RELEASE 14 PLOT SCALE: 24

Dept. of Environmental Protection
 Southwest District
 OCT 20 2008



NO. REV.	CHG. NO.	DESCRIPTION	DATE
1	8213-01-1	GAS OUTLET AND REVERSE AIR VALVE ASSEMBLY	1-17-51
1	8217-01-4	DISC ASSEMBLY (MATERIAL & ASS'Y PER DWG.) ALSO	6-1-51
1	8213-01-2	WARRANTY	6-1-51
1		FOR THREE VALVELESS SCOTT'S FILTER UNDER OIL PRESSURE WITH 1/2\"/>	
2		VALVE CHAMBER VALVE (STANDARD) WITH 1/2\"/>	
1		STANDARD VALVE, 2500 PSI, 4-WAY MODEL NO. 4000-400, 1/2\"/>	
2		VALVE BODY 2 1/2\"/>	
2		1/2\"/>	
1		1-3/4\"/>	
2		2 1/2\"/>	
1	8217-01-3	SAFETY LOCK	6-1-51
4		LEFT-EYE PROTECTOR RE-MASTER-CARR OR EQUAL	6-1-51
10		WASHER 1/2\"/>	
2		SPRING WASHER CORP. POSITION TYPICAL UNPRESSED ASBESTOS WIRE 3/8\"/>	
1		1-1/2\"/>	
3		1-1/2\"/>	
4		3/8\"/>	
8		1/2\"/>	
4		1/4\"/>	
4		1/2\"/>	
10		1/2\"/>	
1		LEVER ARM ASSY	6-1-51
2		PILLOW BLOCK BRACKET	6-1-51
1		AIR CYLINDER BRACKET	6-1-51
1		SOLENOID VALVE BRACKET	6-1-51

DUPLICATE

- NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL MATERIALS, FABRICATION & PAINTING SHALL BE IN ACCORDANCE WITH M.F.S. SPECIFICATION INDICATED OR DATA SHEET 2800-3.
 2. ALL BOLTS, NUTS & RIVETS REQUIRED FOR FIELD INSTALLATION TO BE SUPPLIED BY FABRICATOR.
 3. SHOP TEST KNEE FOR PROPER OPERATION PRIOR TO SHIPMENT.
 4. GAS TIGHT WELD CONSTRUCTION SHALL BE MAINTAINED FOR 20" VNU.
 5. INLET AND REVERSE AIR VALVE HOUSING ASSY. MUST BE FABRICATED PLUMB AND SQUARE WITHIN A TOL. OF ± 1/32" ACROSS ALL CORNERS.
 6. VALVE SEAT RING TO BE STRAIGHT, ROUND AND POSITIONED SQUARE TO VALVE AXIS. GRIND EDGE SMOOTH. GAP BETWEEN VALVE DISC HEAD AND SEAT RING TO BE HELD TO A MAX. OF .0020" WHEN AIR CYLINDER IS PRESSURIZED.
 7. VALVE TO BE SECURED FOR SHIPMENT.
 8. SOLENOID TO BE DE-ENERGIZED WHEN CYLINDER RETRACTS.
 9. WORK THIS DWG. WITH DWG 8217-01-4.

REV.	DATE	PRELIMINARY ISSUE	APP.	APP.	APP.

NO.	M.	MADE	CKD.	DATE	DESCRIPTION
1	F.B.	62	6/1/51	CHANGED ITEM 13	

DRAWN BY **F.B.** 5-23-51
 ENGINEER
 CHECKED BY **D.J.** 6-1-51
 CHIEF ENG.
 PROJ. ENG.
 CUST. APP.

JOY
 WESTERN PRECIPITATION DIVISION
 JOY MANUFACTURING COMPANY
 LOS ANGELES, CALIF., U.S.A.
 MONTREAL LONDON SYDNEY JOHANNESBURG

THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF JOY MANUFACTURING COMPANY AND MUST NOT BE MADE PUBLIC OR COPIED OR USED IN ANY WAY DETRIMENTAL TO OUR INTERESTS, UNLESS FURNISHED UNDER CONTRACT PROVISIONS, IT IS LOANED SUBJECT TO RETURN ON DEMAND.

BM-8213-01-1 SCALE: NONE CONTRACT NO.: STANDARD DRAWING NO.: 8213-01-4	
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2-1/2" x 7/8" 2-1/2" x 1-1/8" 2-1/2" x 1-1/8" TO H.