



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

February 7, 2008

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

Chris Horner, Plant Manager  
Florida Rock Industries, Inc.  
4000 NW County Road 235  
P.O. Box 459  
Newberry, Florida 32669

Re: **Request for Additional Information**  
Thompson S. Baker Cement Plant – Kiln 2 System  
Project No. 0010087-031-AC (PSD-FL-350A)  
Revision of Permit No. PSD-FL-350 (Project No. 0010087-013-AC)

Dear Mr. Horner:

On January 18, 2008, the Department received your application and sufficient fee for an air construction permit revision to Air Permit PSD-FL-350 (Project No. 0010087-013-AC) for the Kiln 2 System at Thompson S. Baker Cement Plant. The application is incomplete. In order to continue processing your application, the Department will need the additional information requested below. Should your response to any of the items below require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form.

1. Emission Unit 009: You requested the following changes.

- Install a new belt conveyor, D52. To feed high limestone bin from the truck hopper.
- Install a new baghouse, C21, to control transfers from belt C13 to belts C14 and new belt D52.
- Rename baghouse D35 to D55.
- Eliminate baghouse 2E34 and double the flow rate to baghouse 2H08.

The application for original Permit No. 0010087-013-AC (PSD-FL-350) had the following emission point description table.

| ID   | TEMP, °F | ACFM  | H <sub>2</sub> O | DSCFM |
|------|----------|-------|------------------|-------|
| D33  | 77       | 3000  | 2                | 2893  |
| D35  | 77       | 3000  | 2                | 2893  |
| D37  | 77       | 5000  | 2                | 4821  |
| D49  | 77       | 5000  | 2                | 4821  |
| 2D37 | 77       | 5000  | 2                | 4821  |
| 2D49 | 77       | 5000  | 2                | 4821  |
| 2E28 | 300      | 3000  | 2                | 2043  |
| 2E34 | 300      | 2000  | 2                | 1362  |
| 2G07 | 200      | 15000 | 2                | 11766 |
| 2H08 | 200      | 2000  | 2                | 1569  |

**Total: 41809**

**REQUEST FOR ADDITIONAL INFORMATION**

On page 18 of the newly submitted application you provided a similar table as shown below.

| <b>ID</b> | <b>TEMP, F</b> | <b>ACFM</b> | <b>H2O</b> | <b>DSCFM</b> |
|-----------|----------------|-------------|------------|--------------|
| C21       | 77             | 4000        | 2          | 3854         |
| D33       | 77             | 3000        | 2          | 2891         |
| D55       | 77             | 3000        | 2          | 2891         |
| D37       | 77             | 5000        | 2          | 4818         |
| D49       | 77             | 5000        | 2          | 4818         |
| 2D37      | 77             | 5000        | 2          | 4818         |
| 2D49      | 77             | 5000        | 2          | 4818         |
| 2E28      | 300            | 3000        | 2          | 2043         |
| 2E34      | 0              | 0           | 0          | 0            |
| 2G07      | 200            | 15000       | 2          | 11760        |
| 2H08      | 200            | 4000        | 2          | 3136         |

**Total Flow: 45846**

Please verify that these are the changes being requested.

2. Emission Point 011: You requested the following changes:

- Change the description of Clinker 2L18 that goes into Silo #4 from a “quadrated” silo to “two double” clinker silos.
- Remove the existing Line 1 baghouse L08 from 2L15.
- Increase the flow rate of baghouse 2L15.
- Add baghouse 2L12. This was formerly Line 1 baghouse L08.

Is this correct? Please explain type of activity that each revised baghouse is conducting.

The application for original Permit No. 0010087-013-AC (PSD-FL-350) had the following emission point description table.

| <b>ID</b> | <b>TEMP, °F</b> | <b>ACFM</b> | <b>H<sub>2</sub>O</b> | <b>DSCFM</b> |
|-----------|-----------------|-------------|-----------------------|--------------|
| 2L03      | 300             | 3000        | 2                     | 2043         |
| 2L13      | 300             | 3000        | 2                     | 2043         |
| 2L15      | 300             | 6000        | 2                     | 4087         |
| 2L16      | 300             | 4000        | 2                     | 2725         |
| 2L18      | 212             | 4000        | 2                     | 3082         |

**Total Flow: 13980**

On page 33 of the newly submitted application you provided a similar table as shown below.

| <b>ID</b> | <b>TEMP, °F</b> | <b>ACFM</b> | <b>H<sub>2</sub>O</b> | <b>DSCFM</b> |
|-----------|-----------------|-------------|-----------------------|--------------|
| 2L03      | 300             | 3000        | 2                     | 2043         |
| 2L12      | 300             | 4000        | 2                     | 2723         |
| 2L13      | 300             | 3000        | 2                     | 2043         |
| 2L15      | 300             | 10000       | 2                     | 6808         |
| 2L16      | 300             | 4000        | 2                     | 2723         |
| 2L18      | 300             | 4000        | 2                     | 2723         |

**Total Flow 19064**

Please verify that these are the changes being requested.

## REQUEST FOR ADDITIONAL INFORMATION

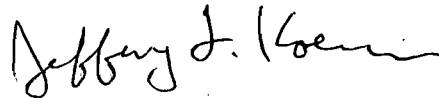
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3. Please identify any other changes being requested.

The Department will resume processing your application after receipt of the requested information. Rule 62-4.050(3), F.A.C. requires that all applications for a Department permit must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature. For any material changes to the application, please include a new certification statement by the authorized representative or responsible official. You are reminded that Rule 62-4.055(1), F.A.C. requires applicants to respond to requests for information within 90 days or to provide a written request for an additional period of time to submit the information.

If you have any questions regarding this matter, please contact the project engineer, Corrie Branum, at 850/921-8968.

Sincerely,



Jeffery F. Koerner, Administrator  
New Source Review Section

This letter was sent by electronic mail with received receipt requested to the following people:

Mr. Chris Horner, Florida Rock Industries, Inc. ([chrish@flarock.com](mailto:chrish@flarock.com))  
Mr. Henry Gotsch, Florida Rock Industries, Inc. ([hgotsch@flarock.com](mailto:hgotsch@flarock.com))  
Mr. Steven C. Cullen, P.E., Koogler & Associates, Inc. ([scullen@kooglerassociates.com](mailto:scullen@kooglerassociates.com))  
Mr. Chris Kirts, NED Office ([Christopher.Kirts@dep.state.fl.us](mailto:Christopher.Kirts@dep.state.fl.us))  
Ms. Rita Felton-Smith NED Office ([Rita.Felton@dep.state.fl.us](mailto:Rita.Felton@dep.state.fl.us))

JFK/clb

**Harvey, Mary**

---

**From:** Harvey, Mary  
**Sent:** Thursday, February 07, 2008 4:18 PM  
**To:** ✓ 'chris@flarock.com'; 'hgotsch@flarock.com'; 'scullen@kooglerassociates.com'; Kirts, Christopher; Felton-Smith, Rita  
**Cc:** ✓ Branum, Corrie; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** Request for Additional Information - Florida Rock Industries, Inc.  
**Attachments:** request for additional information.pdf

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site:  
<http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

## Harvey, Mary

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**From:** Horner, Chris [ChrisH@Flarock.com]  
**Sent:** Thursday, February 07, 2008 4:22 PM  
**To:** Harvey, Mary  
**Subject:** RE: Request for Additional Information - Florida Rock Industries, Inc.

CHRIS HORNER  
Plant Manager  
Vulcan Materials Company  
Florida Rock Division  
Thompson S. Baker Cement Plant  
4000 NW CR 235  
Newberry, FL 32669  
Ofc: (352) 472-4722 ext 130  
Cell: (352) 354-5090  
Fax: (352) 472-2449  
[HornerC@VMCMail.com](mailto:HornerC@VMCMail.com)

-----Original Message-----

**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Thursday, February 07, 2008 4:18 PM  
**To:** Horner, Chris; Gotsch, Henry; scullen@kooglerassociates.com; Kirts, Christopher; Felton-Smith, Rita  
**Cc:** Branum, Corrie; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** Request for Additional Information - Florida Rock Industries, Inc.

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

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<http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

**FLORIDA ROCK INDUSTRIES INC**

CEMENT GROUP / 4000 N.W. CR 235 / P.O. Box 459 / Newberry, FL 32669 / (352) 472-4722

February 8, 2008



FEB 12 2008

BUREAU OF AIR REGULATION

Mr. Jeff Koerner, Administrator  
Division of Air Resource Management—New Source Review Section  
Florida Dept. of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

RE: RAI dated February 7, 2008, for Project No. 0010087-031-AC (PSD-FL-350A)  
Facility ID 0010087

Dear Mr. Koerner:

Mr. Phil Lochbrunner and I called Ms. Corrie Branum today to discuss the RAI so that our response would be complete. We appreciate her assistance, and we are providing the following comments.

RAI Item No. 1: Please verify that these are the changes being requested.

*Response: Yes. The summary that you present for EU009 is exactly what we request.*

RAI Item No. 2: Are these changes correct? Please verify that these are the changes being requested. Please explain type of activity that each revised baghouse is conducting.

*Response: Yes. The summary that you present for EU011 is what request, except that, instead of "...two double clinker silos..." as your letter shows, we are requesting "...two separate clinker silos...". (This is shown on pages 3 and 30 of the application and is not a new request.)*

*We have prepared the following description of the baghouses and proposed changes. Please refer to flow sheet nos. 110.59.51-0007 and -0008, which were submitted with the application, as you read the description below:*

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*The Thompson S. Baker Cement Plant in Newberry, FL is undergoing an expansion with the addition of a second production line very similar to the existing line. This includes a second finish mill for the grinding of clinker, gypsum and other additives into cement, the finished product. Also included is the addition of two clinker storage silos (Silo 3 and Silo 4) to store clinker, the*

*intermediate product of the kiln. Along with the addition of the new clinker silos, conveyors have been added that will allow clinker produced by either the existing kiln or the new kiln to be transported to both the existing clinker silos (Silo 1 and Silo 2) and to the new clinker silos (Silo 3 and Silo 4).*

*Originally, the plan called for a single quadrated silo for the new line. After further study, this type of silo—which would have consisted of a cylinder with interior dividers that formed four storage compartments—was determined not to be suitable for cement clinker. (The clinker is a very abrasive material and the flow characteristics in a quadrated silo could result in abrasive wear of the wall partitions.) The capability to store two different types of clinker is needed so the decision to use two separate silos was made. This resulted in the rearrangement of some of the conveyors and dust collectors to accommodate the revised layout.*

*Clinker from the existing clinker cooler travels on conveyor L01 to a new diverter gate 2L02 which can divert the clinker to an existing diverter gate L04 which either diverts clinker directly to Silo 1 or to existing conveyor L05 which conveys clinker to Silo 2 or to a new conveyor 2L20. The 2L20 conveys clinker to a new conveyor 2L09. From 2L09, the clinker is discharged through a new diverter gate 2L10 which diverts clinker either to Silo 3 or Silo 4.*

*Clinker from the new clinker cooler travels on new conveyor 2L01 which discharges clinker onto the 2L20 conveyor. The 2L20 conveyor can discharge clinker onto the 2L09 conveyor mentioned in the previous paragraph for discharge into Silo 3 or Silo 4 or 2L20 can convey clinker directly to Silo 1 or Silo 2.*

*In 1999—when Line 1 began operation—a single dust collector, L06, controlled the dust generated by the discharge of clinker into Silo 1 and Silo 2. The L06 dust collector was located on Silo 1 and vented both silos through a connecting vent duct. Dust collected by L06 was discharged directly into Silo 1. In 2002, a second collector, L08, was permitted through the District and was added to Silo 2 for purpose of increasing dust collection efficiency in Silo 2. Dust collected by L08 was discharged directly into Silo 2.*

*With the new conveyors, additional transfer points are being added in the area of Silo 2. Effective dust collection is being assured by the replacement of L08 with a collector, 2L15, with a greater capacity. The 2L15 collector will vent Silo 2, the discharge of clinker from conveyor 2L20 to Silo 2, and the transfer of clinker*

*from conveyor 2L20 to conveyor 2L09. Collected dust will discharge directly into Silo 2.*

*The collector L08 will be renamed 2L12 and relocated to Silo 3. It will vent Silo 3 and discharge collected dust directly into Silo 3.*

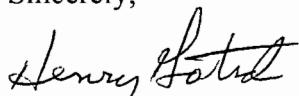
*In addition, new dust collector 2L13 will collect dust from the transfer of clinker from existing conveyor L01 through the new diverter gate 2L02 to conveyor 2L20. Dust collected will be discharged directly into Silo 1. New dust collector 2L16 will collect dust from the transfer of clinker from 2L01 to 2L20 and from the transfer of clinker from 2L20 to 2L09. Collected dust will be returned to conveyor 2L20. Finally, new dust collector 2L18 will vent Silo 4 and will collect dust from the discharge of conveyor 2L09 to diverter gate 2L10. Collected dust from 2L18 will be discharged directly into Silo 4.*

RAI Item No. 3: Please identify any other changes being requested.

*Response: We have no other changes to request.*

Please call Phil Lochbrunner, Project Manager, at 352-472-4722, ext. 103, or me at ext. 121, if you have any other questions or would like clarification on the project. Thank you.

Sincerely,



Henry Gotsch  
Environmental Manager



**FLORIDA ROCK INDUSTRIES INC**

CEMENT GROUP / 4000 N.W. CR 235 / P.O. Box 459 / Newberry, FL 32669 / (352) 472-4722



March 5, 2008

RECEIVED

MAR 10 2008

BUREAU OF AIR REGULATION

Mr. Jeff Koerner, Administrator  
Division of Air Resource Management—New Source Review Section  
Florida Dept. of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

RE: Request to modify permit no. <sup>5010087-031-AC</sup>~~0010087-013-AC~~ (PSD-FL-350) to extend expiration date; Florida Rock Industries, Inc.—Thompson S. Baker Cement Plant Facility ID 0010087

Dear Mr. Koerner:

Permit no. 0010097-013-AC, which allows construction of the Kiln-Line 2 system at the above-referenced cement plant, will expire July 18, 2008. Actual construction has continued since June, 2006, and is expected to be completed at the end of 2008. A revised, summarized schedule has been provided to FDEP's Northeast District Office.

We request that you modify the above-referenced permit to extend the expiration date until September 30, 2009, to allow time to complete construction and operational trials, conduct performance tests and obtain reports, and provide an application to incorporate the new emission units into the facility's Title V permit.

Please call me at ext. 130 if you have any questions or would like more information on the project. Thank you.

Sincerely,  
FLORIDA ROCK INDUSTRIES, INC.

Chris Horner  
Plant Manager

**Branum, Corrie**

---

**From:** Gotsch, Henry [HGotsch@Flarock.com]  
**Sent:** Thursday, March 13, 2008 8:39 AM  
**To:** Branum, Corrie  
**Subject:** RE: Line-2 startup schedule  
**Attachments:** Scan3357.pdf

Corrie:

Here is our most recent (March 2008) update of the completion and startup schedule for kiln Line2.

Henry

-----Original Message-----

**From:** Branum, Corrie [mailto:Corrie.Branum@dep.state.fl.us]  
**Sent:** Thursday, March 13, 2008 8:31 AM  
**To:** Gotsch, Henry  
**Subject:** RE: Line-2 startup schedule

A scanned copy would be great thanks.

Corrie Branum  
Bureau of Air Regulation  
850.921.8968  
850.921.9533 (fax)

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

**From:** Gotsch, Henry [mailto:HGotsch@Flarock.com]  
**Sent:** Thursday, March 13, 2008 7:59 AM  
**To:** Branum, Corrie  
**Subject:** Line-2 startup schedule

Corrie:

Chris Horner tells me that you want a copy of the startup schedule for Line 2. Is a scanned, electronic copy adequate?

Henry

Emission Control Units – Line 2  
 Projected Completion and Start-up Periods

2<sup>nd</sup> Quarter 2008

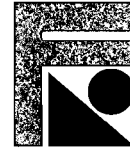
| EU No. | Equipment Number | Type of Control Device | Associated System                         |
|--------|------------------|------------------------|---|
| 09     | C21              | Baghouse               | Flyash Unloading                          |
| 09     | D33              | Baghouse               | Additive Reclaim System                   |
| 09     | D37              | Baghouse               | Millscale and Feldspar Transport – Line 1 |
| 09     | D49              | Baghouse               | Raw Mill Feed Transport – Line 1          |
| 09     | D55              | Baghouse               | Flyash Transport                          |

4<sup>th</sup> Quarter 2008

| EU No. | Equipment Number | Type of Control Device | Associated System                         |
|--------|------------------|------------------------|---|
| 09     | 2D37             | Baghouse               | Millscale and Feldspar Transport – Line 2 |
| 09     | 2D49             | Baghouse               | Raw Mill Feed Transport – Line 2          |
| 10     | 2E19             | ESP                    | Main ESP - Raw Mill and Preheater         |
| 09     | 2E28             | Baghouse               | Raw Meal Transport                        |
| 09     | 2G07             | Baghouse               | Blend Silo                                |
| 09     | 2H08             | Baghouse               | Kiln Feed System                          |
| 11     | 2K13             | ESP                    | Clinker Cooler                            |
| 11     | 2L03             | Baghouse               | 2L01 Clinker Transport                    |
| 11     | 2L13             | Baghouse               | 2L20 Clinker Transport                    |
| 12     | 2L12             | Baghouse               | No. 3 Clinker Silo                        |
| 11     | 2L15             | Baghouse               | 2L09 Clinker Transport                    |
| 11     | 2L16             | Baghouse               | 2L01 and 2L20 Clinker Transport           |
| 11     | 2L18             | Baghouse               | No. 4 Clinker Silo                        |
| 12     | 2M07             | Baghouse               | Finish Mill Feed Conveyor                 |
| 12     | 2N09             | Baghouse               | Finish Mill Separator                     |
| 12     | 2N12             | Baghouse               | Finish Mill                               |
| 12     | 2N36             | Baghouse               | Fringe Bin                                |
| 12     | 2N91             | Baghouse               | Finish Mill Elevator and Air Slides       |
| 13     | 2Q14             | Baghouse               | Cement Load-Out                           |
| 12     | 2Q25             | Baghouse               | No. 6 Cement Silo                         |
| 12     | 2Q26             | Baghouse               | No. 7 Cement Silo                         |
| 14     | 2S17             | Baghouse               | Coal Grinding                             |
| 14     | 2S21             | Baghouse               | Fine Coal Bin                             |

**FLORIDA ROCK INDUSTRIES INC**

CEMENT GROUP / 4000 N.W. CR 235 / P.O. Box 459 / Newberry, FL 32669 / (352) 472-4722



March 19, 2008

Mr. Jeff Koerner, Administrator  
Division of Air Resource Management—New Source Review Section  
Florida Dept. of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

RE: Response to RAI regarding request to modify permit no. 0010087-013-AC (PSD-FL-350) to extend expiration date; Florida Rock Industries, Inc.—Thompson S. Baker Cement Plant; Facility ID 0010087

Dear Mr. Koerner:

Last week, Ms. Corrie Branum requested by phone some additional information regarding the above-referenced request. The attached "Line 2 Project Status" summarizes the progress on each emission unit.

Please call me at ext. 121 if you have any questions or would like more information on the project. Thank you.

Sincerely,  
FLORIDA ROCK INDUSTRIES, INC.

  
Henry Gotsch  
Environmental Manager

RECEIVED

MAR 21 2008

BUREAU OF AIR REGULATION

Thompson S. Baker Cement Plant  
Line 2 Project Status

Raw Material Handling – This system is approximately 85% complete. The part of the system that will feed No. 1 Raw Mill is 95% complete including the baghouses needed for that portion of the system including C21, D33, D37, D49 and D55. This part of the system will be placed into service in late April or early May with the exception of the flyash reclaimers which will be placed into service in July. The remainder of the system will be commissioned with the No. 2 Raw Mill starting late fourth quarter of 2008. Included with second phase will be baghouses 2D37 and 2D49.

The Raw Meal Storage and Blending System is approximately 75% complete. The concrete silo has been erected and the access structures and the equipment are currently being erected. Included in this area is the kiln feed system. The baghouses on this system, 2E28, 2G07 and 2H08 have not been erected yet. The erection of these baghouses should start in July 2008.

The erection of the Raw Mill is approximately 25% complete and the erection of the rest of the raw grinding system is only about 10% completed. The Main ESP (2E19) for the Raw Mill and Preheater has not commenced yet. The erection of this unit and the associated ID fans should begin in April 2008.

The Pyroprocessing System consisting of the preheater/precalciner, rotary kiln and clinker cooler is approximately 75% complete. The erection of the Clinker Cooler ESP (2K13) associated with this system is about 50% complete. The clinker storage system is approximately 95% complete while the clinker transport system to the storage from the clinker cooler is approximately 25% complete. The support structures for the transport conveyors are complete but erection of the conveyors themselves including conveyors 2L01, 2L20, 2L09 and their associated baghouses 2L03, 2L13, 2L12, 2L15, 2L16 and 2L18 has not commenced at this time. Erection of this equipment is expected to start in July 2008.

The erection of the Finish Mill is approximately 50% complete and the remainder of the finish mill system is approximately 15% complete. The baghouse for the Finish Mill Feed Conveyor will be erected sometime in the fall and erection of the other baghouses, 2N09, 2N12, 2N36 and 2N91 should begin in May 2008.

Erection of the Cement Silos is approximately 95% complete while installation of the cement transport from the Finish Mill to the Cement Silos has not commenced. The transport system installation is expected to start August 2008. This will include the installation of the 2Q25 baghouse on Cement Silo No. 6 and the installation of the 2Q26

baghouse on Cement Silo No. 7. The 2Q14 baghouse for the cement load-out system should be installed in the same time frame.

The erection of the coal handling, storage and grinding system is approximately 60% complete. The coal storage building and the coal mill have been erected. Installation of the conveying, transport and dust collection systems including the 2S17 and the 2S21 baghouses should commence in April.

PL  
2008/03/19

**FLORIDA ROCK INDUSTRIES INC**

CEMENT GROUP / 4000 N.W. CR 235 / P.O. Box 459 / Newberry, FL 32669 / (352) 472-4722



March 19, 2008

Mr. Jeff Koerner, Administrator  
Division of Air Resource Management—New Source Review Section  
Florida Dept. of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

RE: Response to RAI regarding request to modify permit no. 0010087-013-AC (PSD-FL-350) to extend expiration date; Florida Rock Industries, Inc.—Thompson S. Baker Cement Plant; Facility ID 0010087

Dear Mr. Koerner:

Last week, Ms. Corrie Branum requested by phone some additional information regarding the above-referenced request. The attached "Line 2 Project Status" summarizes the progress on each emission unit.

Please call me at ext. 121 if you have any questions or would like more information on the project. Thank you.

Sincerely,  
FLORIDA ROCK INDUSTRIES, INC.

Handwritten signature of Henry Gotsch in cursive script.  
Henry Gotsch  
Environmental Manager

Thompson S. Baker Cement Plant  
Line 2 Project Status

Raw Material Handling – This system is approximately 85% complete. The part of the system that will feed No. 1 Raw Mill is 95% complete including the baghouses needed for that portion of the system including C21, D33, D37, D49 and D55. This part of the system will be placed into service in late April or early May with the exception of the flyash reclaimers which will be placed into service in July. The remainder of the system will be commissioned with the No. 2 Raw Mill starting late fourth quarter of 2008. Included with second phase will be baghouses 2D37 and 2D49.

The Raw Meal Storage and Blending System is approximately 75% complete. The concrete silo has been erected and the access structures and the equipment are currently being erected. Included in this area is the kiln feed system. The baghouses on this system, 2E28, 2G07 and 2H08 have not been erected yet. The erection of these baghouses should start in July 2008.

The erection of the Raw Mill is approximately 25% complete and the erection of the rest of the raw grinding system is only about 10% completed. The Main ESP (2E19) for the Raw Mill and Preheater has not commenced yet. The erection of this unit and the associated ID fans should begin in April 2008.

The Pyroprocessing System consisting of the preheater/precalciner, rotary kiln and clinker cooler is approximately 75% complete. The erection of the Clinker Cooler ESP (2K13) associated with this system is about 50% complete. The clinker storage system is approximately 95% complete while the clinker transport system to the storage from the clinker cooler is approximately 25% complete. The support structures for the transport conveyors are complete but erection of the conveyors themselves including conveyors 2L01, 2L20, 2L09 and their associated baghouses 2L03, 2L13, 2L12, 2L15, 2L16 and 2L18 has not commenced at this time. Erection of this equipment is expected to start in July 2008.

The erection of the Finish Mill is approximately 50% complete and the remainder of the finish mill system is approximately 15% complete. The baghouse for the Finish Mill Feed Conveyor will be erected sometime in the fall and erection of the other baghouses, 2N09, 2N12, 2N36 and 2N91 should begin in May 2008.

Erection of the Cement Silos is approximately 95% complete while installation of the cement transport from the Finish Mill to the Cement Silos has not commenced. The transport system installation is expected to start August 2008. This will include the installation of the 2Q25 baghouse on Cement Silo No. 6 and the installation of the 2Q26



baghouse on Cement Silo No. 7. The 2Q14 baghouse for the cement load-out system should be installed in the same time frame.

The erection of the coal handling, storage and grinding system is approximately 60% complete. The coal storage building and the coal mill have been erected. Installation of the conveying, transport and dust collection systems including the 2S17 and the 2S21 baghouses should commence in April.

PL  
2008/03/19

**FLORIDA ROCK INDUSTRIES INC**

CEMENT GROUP / 4000 N.W. CR 235 / P.O. Box 459 / Newberry, FL 32669 / (352) 472-4722



April 22, 2008

Mr. Jeff Koerner, Administrator

Division of Air Resource Management—New Source Review Section  
Florida Dept. of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**RECEIVED**

**APR 23 2008**

**BUREAU OF AIR REGULATION**

RE: Proof of publication—0010087-031-AC;  
Florida Rock Industries, Inc.—Thompson S. Baker Cement Plant  
Facility ID 0010087

Dear Mr. Koerner:

Enclosed is the affidavit from The Gainesville Sun to provide proof of publication for the above-referenced permit.

Please call me at ext. 121 if you have any questions or would like more information on the project. Thank you.

Sincerely,  
FLORIDA ROCK INDUSTRIES, INC.

A handwritten signature in cursive script that reads "Henry Gotsch".

Henry Gotsch  
Environmental Manager

G 148300  
NO \_\_\_\_\_

THE GAINESVILLE SUN

Published Daily and Sunday  
GAINESVILLE, FLORIDA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

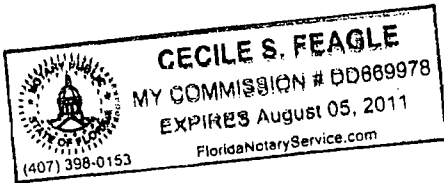
Before the undersigned authority appeared..... A  
Classified Legals Coordr,  
Who on oath says that he is.....  
published at Gainesville in Alachua County, Florida  
LEGAL ADVERTISEMEN

PUBLIC NOTICE, Draft Permit No. P  
In the matter of .....  
in the.....  
APRIL 2

Affidavit further says that the said THE GAINESVILLE  
in said Alachua County, Florida, and that the said n  
in said Alachua County, each day, and has been ent  
Gainesville, in Said Alachua County, Florida, for a  
of the attached copy Of advertisement; and affiant i  
person, firm or corporation any discount for public

Sworn to and subscribed before me this

day of Apr, A.D., 2008  
*Cecile Feagle*  
(seal) Notary Public



# PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection  
Division of Air Resource Management, Bureau of Air Regulation  
Draft Permit No. PSD-FL-350A  
Project No. 0010087-031-AC  
Florida Rock Industries, Inc.  
Thompson S. Baker Cement Plant  
Alachua County, Florida

**Applicant:** The applicant for this project is Florida Rock Industries, Inc. The applicant's authorized representative and mailing address is: Chris Horner, Plant Manager, Florida Rock Industries, Inc. Thompson S. Baker Cement Plant, 4000 NW CR 235, P.O. Box 459, Newberry, FL 32669.

**Facility Location:** Florida Rock operates the existing Thompson S. Baker Cement Plant, which is located in Alachua County at the 4000 NW County Road 235 in Newberry, Florida. The UTM coordinates are Zone 17, 346.4 km east and 3285.7 km north.

**Project:** Florida Rock is requesting to revise air Permit No. PSD-FL-350 for the Thompson S. Baker Cement Plant. Issued July 25, 2005, this permit authorized Florida Rock to construct a dry process, preheater/precalciner Kiln No. 2 system. Currently the Kiln 2 System is being constructed. Florida Rock requests to extend the expiration date to September 30, 2009 and make minor edits to the inline kiln/raw mill system and clinker cooler system. For the inline kiln/raw mill system (EU-009), Florida Rock requests the name of baghouse D35 be changed to D55. Florida Rock will also install a new belt conveyor and rearrange some baghouses in the inline kiln/raw mill system. Specifically, one baghouse (2E34) will be removed from one of the raw materials bins. These emissions will now be controlled by a new baghouse (C21) which will be located on the transfer belts and also by a baghouse on the homogenizing silo/preheater feed (2H08).

Florida Rock is also making changes to the clinker cooler handling system (EU-011). Florida Rock requests the description of the clinker silos from quadrated silos to 2 silos. One of the baghouses will be removed from the clinker transport. Emissions instead will be controlled by a new baghouse (2L12) which will be located on the transfer belts and also by a baghouse on the homogenizing silo/preheater feed (2L15). These changes will not result in any significant emission increases.

**Permitting Authority:** Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

**Project File:** A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site: <http://www.dep.state.fl.us/air/eproducts/apds/default.asp>.

**Notice of Intent to Issue Air Permit:** The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

**Comments:** The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be postmarked by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

**Petitions:** A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under

public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

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A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available for this proceeding.

**FLORIDA ROCK INDUSTRIES INC**

CEMENT GROUP / 4000 N.W. CR 235 / P.O. Box 459 / Newberry, FL 32669 / (352) 472-4722

April 29, 2008



Ms. Carrie Branum, Permit Engineer

Division of Air Resource Management—New Source Review Section  
Florida Dept. of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

RECEIVED

MAY 01 2008

RE: Correction to Draft Permit No. 0010087-031-AC (PSD-FL-350A)  
Florida Rock Industries, Inc.—Thompson S. Baker Cement Plant  
Facility ID 0010087

BUREAU OF AIR REGULATION

Dear Ms. Branum:

Our project engineer, Mr. Phil Lochbrunner, has pointed out two discrepancies in the above-referenced draft permit. (I think these discrepancies existed in the original construction permit and were not previously recognized.) We request that they be corrected before the final permit is issued. If they cannot be corrected in the final permit, then consider this a request for administrative-permit correction of the anticipated, final permit.

The first correction is to the description of baghouse 2H08 at the bottom of the table under condition 13. Specifically, we request that the description be made to read "Homogenizing silo to the preheater feed *and bin 2E30*". Drawing no. 110.59.51-0005, which you have on file as part of our earlier applications, is highlighted to show this relationship.

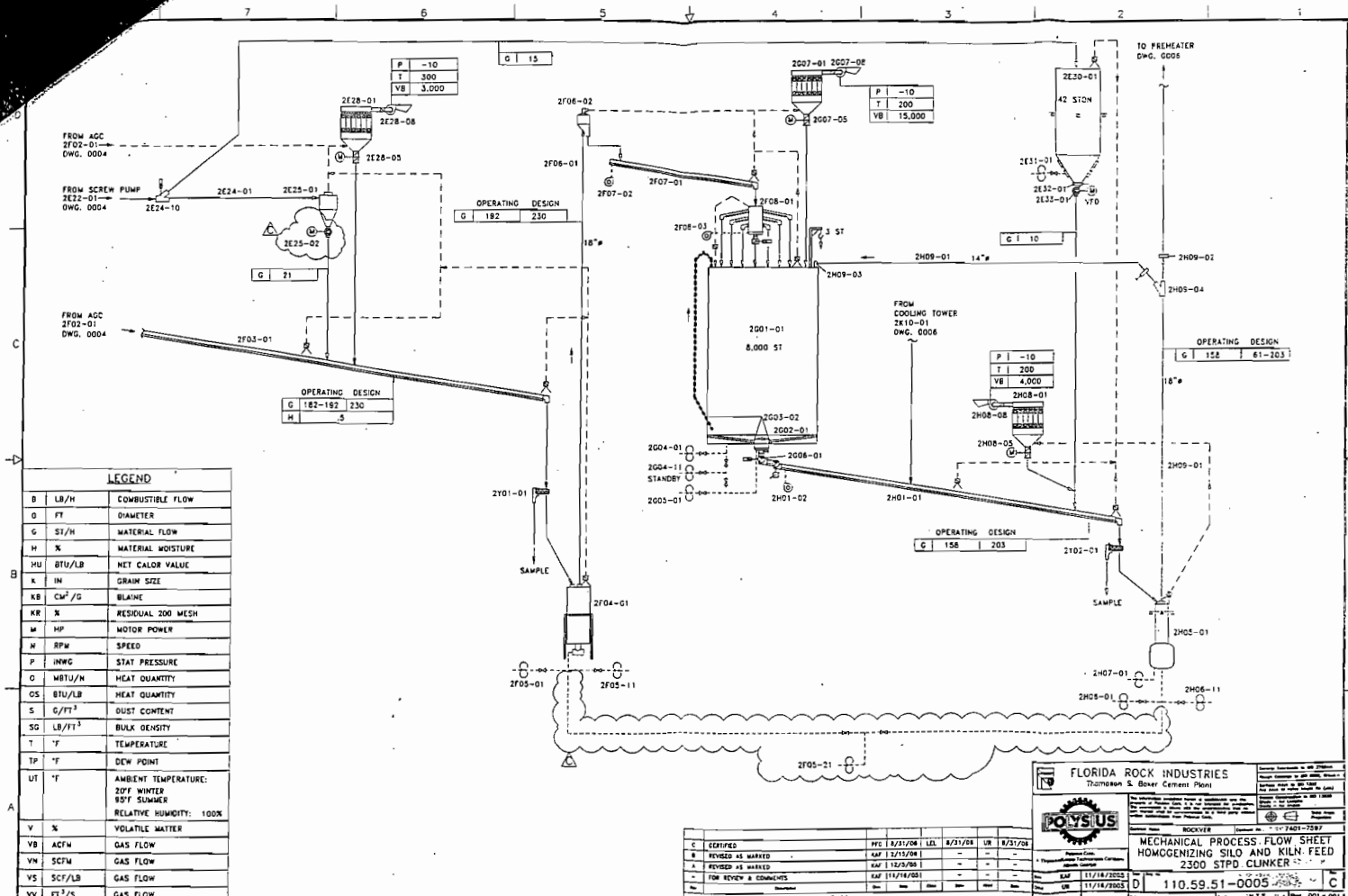
The second correction is to the description of emission point 2L15 under condition 16. Specifically, we request that the description be made to read "Clinker Transport (2L20, *silo L07-02*, and 2L09)". Drawing no. 110.59.51-0007, which you have on file as part of our earlier applications, is highlighted to show this relationship.

Please call Phil Lochbrunner, Project Manager, at 352-472-4722, ext. 103, or Henry Gotsch, at ext. 121, if you have any other questions or would like clarification on the project. Thank you.

Sincerely,

Chris Horner  
Plant Manager

# BEST AVAILABLE COPY



### LEGEND

|    |                    |   |
|----|--------------------|---|
| B  | LB/H               | COMBUSTIBLE FLOW  |
| D  | FT                 | DIAMETER  |
| G  | ST/H               | MATERIAL FLOW   |
| H  | %                  | MATERIAL MOISTURE   |
| HU | BTU/LB             | NET CALOR VALUE   |
| K  | IN                 | DRAIN SIZE  |
| KB | CM <sup>2</sup> /G | BLAINE  |
| KR | %                  | RESIDUAL 200 MESH   |
| M  | HP                 | MOTOR POWER   |
| N  | RPM                | SPEED   |
| P  | INWG               | STAT PRESSURE   |
| O  | MBTU/H             | HEAT QUANTITY   |
| OS | BTU/LB             | HEAT QUANTITY   |
| S  | G/FT <sup>3</sup>  | DUST CONTENT  |
| SG | LB/FT <sup>3</sup> | BULK DENSITY  |
| T  | °F                 | TEMPERATURE   |
| TP | °F                 | DEW POINT   |
| UT | °F                 | AMBIENT TEMPERATURE:<br>20°F WINTER<br>95°F SUMMER<br>RELATIVE HUMIDITY: 100% |
| V  | %                  | VOLATILE MATTER   |
| VB | ACFM               | GAS FLOW  |
| VN | SCFM               | GAS FLOW  |
| VS | SCF/LB             | GAS FLOW  |
| VV | FT <sup>3</sup> /S | GAS FLOW  |

**FLORIDA ROCK INDUSTRIES**  
Tammerson S. Baker Cement Plant

**POLYSUS**

ROCKVER

**MECHANICAL PROCESS FLOW SHEET  
HOMOGENIZING SILO AND KILN FEED  
2300 STPD CLUNKER**

110.59.51-0005

| REV | DESCRIPTION           | DATE     | BY  | CHKD    |
|-----|-----------------------|----------|-----|---------|
| C   | DESIGNED              | 8/31/08  | LAL | 8/31/08 |
| B   | REVISED AS SHIPPED    | 8/12/08  | --- | ---     |
| A   | REVISED AS SHIPPED    | 12/2/08  | --- | ---     |
| -   | FOR REVIEW & COMMENTS | 11/18/08 | --- | ---     |

4

3

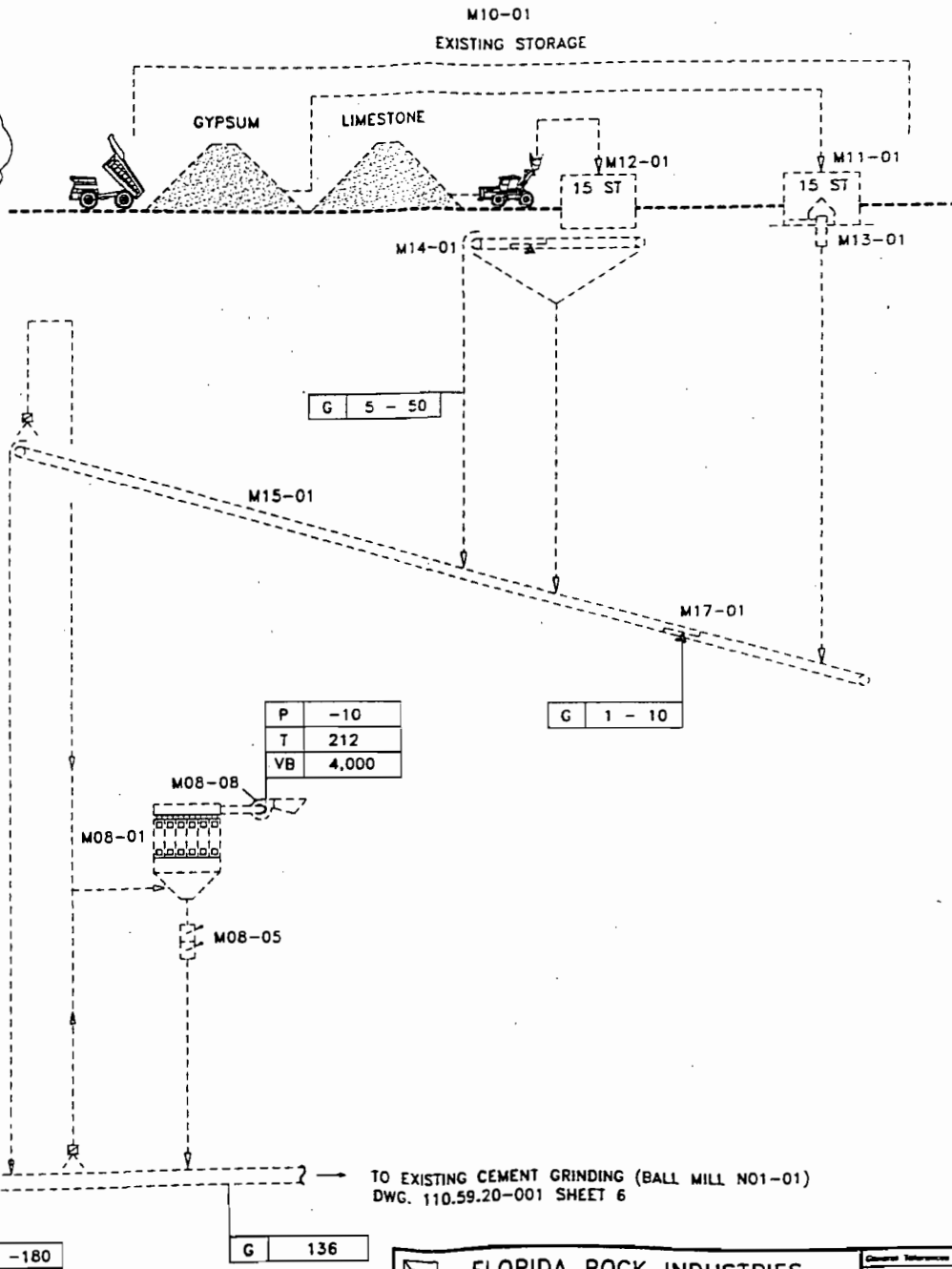
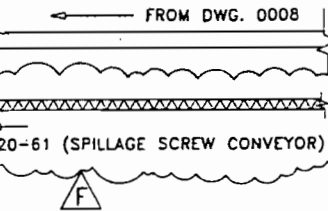
2

1

|    |        |
|----|--------|
| P  | -10    |
| T  | 300    |
| VB | 10,000 |

2L15-08

-05



| Description                                 | Des  | Date     | Draw | Date     | App'd | Date     |
|---|------|----------|------|----------|-------|----------|
| REVISED SPILLAGE CONVEYOR TO SCREW CONVEYOR | H.S. | 10/26/07 | LEL  | 10/26/07 | U.R.  | 10/26/97 |
| CERTIFIED                                   | PTC  | 8/31/08  | LEL  | 8/31/08  | UR    | 8/31/08  |
| REVISED AS MARKED                           | KAF  | 3/22/08  |      |          |       |          |
| REVISED AS MARKED                           | KAF  | 2/15/06  |      |          |       |          |
| REVISED AS MARKED                           | KAF  | 1/30/05  |      |          |       |          |

**FLORIDA ROCK INDUSTRIES**  
Thompson S. Baker Cement Plant

Polysius Corp.  
A ThyssenKrupp Technologies Company  
Atlanta, Georgia

General Reference to ISO 2768:mt  
Storage Containers to ISO 8062, Class -  
Surface Finish to ISO 1320  
Any given to verify height (m) (mm)

General Construction to ISO 15820  
Class - See Lengths  
Class - See Areas  
Third Angle Projection

Contract Name: **ROCKVER**      Contract No: **7401-7597**

**MECHANICAL PROCESS FLOW SHEET  
CLINKER SILOS AND ADDITIVES; LINE 1  
2300 STPD CLINKER**

|       |     |            |      |                |                  |
|-------|-----|------------|------|----------------|------------------|
| Des   | KAF | 11/16/2005 | Size | Draw No        | Rev              |
| Draw  | UR  | 11/16/2005 | D    | 110.59.51-0007 | F                |
| App'd |     |            | Draw | N.T.S.         | Sheet 001 of 001 |