



**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

APPLICANT

Gate Precast Company
810 Sawdust Trail
Kissimmee, FL 34744

Gate Precast-Kissimmee facility

Facility ID No. 0970074

PROJECT

Project No. 0970074-007-AO
Application for Air Operation Permit
Project Name: Initial Air Operation Permit

COUNTY

Osceola County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Air Resource Management
Central District Office
3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767

November 4, 2012

Prepared by: Jeffrey Rustin, P.E.

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GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations which are defined in Appendix A of this permit.

I. Project Description:

A. Applicant:

Mr. Bryant Luke, VP Operations
Gate Precast
810 Sawdust Trail
Kissimmee, FL 34744

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B. Professional Engineer:

Mr. Stephen Alexander, P.E.
Whitmer Environmental Services
11516-3 San Jose Blvd.
Jacksonville, FL 32223

C. Project Location:

Gate Precast - Kissimmee
810 Sawdust Trail
Kissimmee, FL 34744

D. Project Summary:

The purpose of this project is to issue the initial air operation permit for the facility.

E. Application Information:

Application Received and Complete on: 09/24/12

II. PSD Applicability for Project

The project is not subject to PSD preconstruction review.

III. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

Subject to:	Y/N	Comments
Rule 62-210.300, F.A.C. - Project Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, F.A.C.	Y	Not exempt from general permitting requirements.
Rule 62-212.400, F.A.C. - Prevention of Significant Deterioration	N	Facility is not a PSD major source.
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	Facility could be a source of unconfined particulate matter emissions.

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Subject to:	Y/N	Comments
Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor)	Y	Facility is subject to standards, but the facility is a primarily a particulate source and do not anticipate significant VOC emissions. Do not anticipate significant odors from the facility.
Rule 62-296.400, F.A.C. - Stationary Source Emission Standards	N	There is no applicable source category.
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Osceola County is an attainment area for ozone.
Rule 62-296.700, F.A.C. - Reasonably Available Control Technology (PM)	N	There is no applicable source category.
Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS)	N	There is no applicable source category.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS – 40 CFR 61)	N	There is no applicable source category.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS –40 CFR 63)	N	There is no applicable source category.
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution	N	Facility is a minor source.
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C.	Y	Emission Unit (EU) No. 001 and No. 002 requires annual VE testing.

IV. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tpy)	Allowable Emissions (tpy, opacity)
PM	001- Concrete Batch Plant *	0.0863*	
	002- Blasting Operation	40.5	
	Facility Total	40.50863	
VE	001- Concrete Batch Plants (2)		less than 5 percent opacity
	002- Blasting Operation		less than 20 percent opacity

*Note: Emissions for cement are controlled with baghouse.

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V. Federal NSPS and/or NESHAP Provisions

Not Applicable.

VI. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

VI. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Additional details of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection Air Resource Management, Central District Office, 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767, 407-893-3334.

Pursuant to Section 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to issue a permit for the aforementioned air pollution sources in accordance with the draft permit and its conditions as stipulated (see attached).