PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection
Division of Air Resource Management, Office of Permitting and Compliance

Draft Air Permit No. 0310583-001-AC / PSD-FL-426
Jacksonville Lime, LLC, Jacksonville Lime Facility
Duval County, Florida

Applicant: The applicant for this project is Jacksonville Lime LLC (Carmeuse Lime & Stone and Keystone Properties Joint Venture). The applicant's authorized representative and mailing address is: Nick Caggiano, Responsible Official, Jacksonville Lime, LLC, Post Office Box 37, Saginaw, AL 35137.

Facility Location: Jacksonville Lime LLC will construct and operate a lime manufacturing facility, which will be located in Duval County at 1915 Wigmore Street in Jacksonville, Florida.

Project: Jacksonville Lime will receive limestone and solid fuels through the adjacent Keystone Properties bulk materials processing facility. The limestone will be converted to lime in two vertical parallel flow regenerative (PFR) lime kilns. Each kiln will have a maximum lime production rate of 396 tons per day and will be fueled with natural gas, coal (including lignite), petroleum coke and wood chips. The lime kilns will be equipped with fabric filters to reduce emissions of particulate matter (PM). Conveyors, live piles, storage bins, wet suppression points, and dust collectors will be associated with solid fuel and limestone handling.

Based on the air permit application, the project will emit: 412.5 tons per year of carbon monoxide (CO); 344.7 tons per year of nitrogen oxides (NO_X); 36.6 tons per year of PM; 61.5 tons per year of PM matter with a mean diameter of 10 microns or less (PM_{10}); 51.5 tons per year of PM with a mean diameter of 2.5 microns or less ($PM_{2.5}$); 1.6 tons per year of sulfuric acid mist (SAM); 180.1 tons per year of sulfur dioxide (SO_2); 19.3 tons per year of volatile organic compounds (VOC) and 3.2 pounds per year of mercury (Hg).

The project is subject to the preconstruction review requirements of Rule 62-212.400, Florida Administrative Code (F.A.C), the Prevention of Significant Deterioration (PSD) of Air Quality, for the following pollutants: carbon monoxide (CO), nitrogen oxides (NO_X), sulfur dioxide (SO_2), particulate matter (PM), PM with a mean particle diameter of 10 microns or less (PM_{10}) and PM with a mean particle diameter of 2.5 microns or less ($PM_{2.5}$). Determinations of best available control technology (BACT) were required for the same pollutants.

The project is subject to requirements of 40 Code of Federal Regulations, Part 63, (40 CFR 63) Subpart AAAAA - National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants (Lime NESHAP). The project is also subject to the requirements of 40 CFR 60, Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants (Materials Handling NSPS). The Lime NESHAP and the Materials Handling NSPS include very detailed requirements and emission standards applicable to the kiln, limestone handling and fuel handling operations at the proposed facility.

The cornerstone of the BACT determination is use of the PFR design that minimizes the energy required per ton of lime produced. Direct (filterable) emissions of PM, PM_{10} and $PM_{2.5}$ will be controlled by fabric filters. NO_X emissions will be controlled by employment of the PFR design that operates at temperatures less than the temperature at which thermal NO_X is formed. SO_2 emissions will be controlled by intimate contact of the exhaust gases with product lime, incoming limestone and the cake on the fabric filters. Condensable PM_{10} and $PM_{2.5}$ will be controlled by the BACT controls on the precursors, including SO_2 and NO_X. CO emissions will be controlled by efficient combustion practices. The kilns will be equipped with continuous emissions monitoring systems (CEMS) for SO_2 and NO_X as well as a continuous opacity monitoring system (COMS). Stone handling and other fugitive dust emissions will be controlled by wet suppression, enclosure and other reasonable precautions. Such operations will be subject to a visible emissions standard of 5 percent (%) opacity.

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Further details regarding the Department's BACT determination, including the numerical limitations, are available at the Technical Evaluation and Preliminary Determination available at the following web link:

www.dep.state.fl.us/air/emission/construction/jacksonville.htm

The applicant performed ambient air quality analyses as required. Based on the modeling results, the maximum predicted ambient air quality impacts are less than the respective significant impact levels (SILs) applicable at the nearest PSD Class I area; the Okefenokee National Wildlife Refuge. Therefore multisource modeling was not required. The maximum predicted ambient air quality impacts are greater than the respective SILs applicable to the PSD Class II areas in Jacksonville nearest the project for the following pollutants: PM, PM_{10}, $PM_{2.5}$, NO_2 and SO_2. Therefore modeling for increment consumption in terms of micrograms per cubic ($\mu g/m^3$) meter percent (%) was conducted for these pollutants and for the relevant averaging periods as detailed below:

Pollutant	Averaging Time	Allowable Increment ($\mu g/m^3$)	Increment Consumed ($\mu g/m^3$)	Increment Consumed Percent
NO_2	Annual	25	2.6	10
PM_{10}	Annual	17	1.5	8.8
	24-hour	30	10	33
$PM_{2.5}$	24-hour	9	3.5	39
SO_2	24-hour	91	63	69

Based on the analysis, emissions from the project will not cause, or significantly contribute to, a violation of any ambient air quality standards or applicable increments.

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, 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 Division of Air Resource Management's (DARM) Office of Permitting and Compliance is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 2600 Blair Stone Road, 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 850/717-9000.

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 at the web link provided above.

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 the proposed equipment will not adversely impact air quality and that the project will comply with all applicable 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.

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Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit and requests for a public meeting for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 30-day period. In addition, if a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received comments 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. 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 the Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. A petition for administrative hearing must contain the information set forth below and must be filed (received) with the Agency Clerk in the Office of General Counsel, 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000, Agency.Clerk@dep.state.fl.us, before the deadline. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

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, any email address, telephone number and any facsimile number of the petitioner; the name, address any email address, telephone number, and any facsimile 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 interests will be affected by the agency determination; (c) A statement of when and how each 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 in this proceeding.

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