TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

APPLICANT

Kingspan Insulated Panels, Inc.
725 Summerhill Drive
DeLand, FL 32724

Kingspan Insulated Panels Facility

Facility ID No. 1270174

PROJECT

Project No. 1270174-004-AC
Application for Minor Source Air Construction Permit
Project Name: Pyrolysis Oven Installation

COUNTY

Volusia 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 1, 2012

Prepared by Stephen Amirault

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. Marcos Garibay, Polymer Engineer
Kingspan Insulated Panels, Inc.
725 Summerhill Drive
DeLand, FL 32724

B. Professional Engineer:

James T. Show
Grove Scientific & Engineering Company
6140 Edgewater Drive, Suite F
Orlando, FL 32810

C. Application Contact:

Sara Greivell
Grove Scientific & Engineering Company
6140 Edgewater Drive, Suite F
Orlando, FL 32810

D. Project Location:

Kingspan Insulated Panels, Inc.
725 Summerhill Drive
DeLand, FL 32724

E. Project Summary:

As further described in the permit, this project authorizes the installation of a pyrolysis oven which will be used to clean metal hangers that are used in the production process at the facility.

F. Application Information:

Application Received on: 10/16/12
Additional Information Requested on: N/A
Application Complete: 10/29/2012

II. PSD Applicability for Project

As provided in the application, the total project emissions will not exceed the PSD significant emissions rates; therefore, 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. – Stationary Source General Requirements	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

Subject to:	Y/N	Comments
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	Polyurethane panel production operations could be a source of unconfined particulate matter emissions
Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor)		Polyurethane panel production operations are a source of VOC and odors
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	Volusia 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– 40 CFR 60)	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	Y	Facility is a synthetic non-Title V source
Rule 62-297.310, F.A.C. - General Compliance Test Requirements	N	There is no applicable source category

IV. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tons per year)	Allowable Emissions (tons per year)
PM	Pyrolysis oven	0.058	
VOC	Facility-wide Total		Less than 40.0
NOx	Pyrolysis oven	0.12	
SO2	Pyrolysis oven	0.008	
CO	Pyrolysis oven	0..22	
Total HAP	Facility-wide Total		Less than 25.0
Individual	Facility-wide		Less than 10.0

Pollutant	EU No. and brief description	Potential Emissions (tons per year)	Allowable Emissions (tons per year)
HAP	Total		
VE	Facility-wide		Less than 20% opacity

V. Federal NSPS and/or NESHAP Provisions

There are no NSPS or NESHAP Provisions. As described in the application, the pyrolysis oven does not meet the definition of an incinerator as defined in 40 CFR Subpart CCCC and therefore the unit is not subject to the requirements of Subpart CCCC.

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.

VII. 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, 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767.

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 to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).