Florida Department of Environmental Protection

Northeast District
7777 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

Sent by Electronic Mail – Received Receipt Requested

PERMITTEE:

Carlisle Interconnect Technologies
100 Tensolite Drive
St. Augustine, Florida 32092

Air Permit No.:	1090032-009-AO
Issuance Date:	September 18, 2012
Expiration Date:	September 18, 2017
Site Name:	Carlisle Interconnect Technologies Facility

Authorized Representative:

Mr. Michael Bush, Vice-President of North American Operations

This permit authorizes the operation of the existing Carlisle Interconnect Technologies facility which is a high-performance wire coating manufacturing facility (Standard Industrial Classification No. 3357). The facility is located in St. Johns County at 100 Tensolite Drive, St. Augustine, Florida. The UTM coordinates of the facility are Zone 17, 460.1 km East and 3309.08 km North. Latitude: 29° 54′ 49″ North and Longitude: 81° 24′ 48″ West.

This final permit is organized by the following sections.

Section 1. General Information
Section 2. Administrative Requirements
Section 3. Emissions Unit Specific Conditions
Section 4. Appendices

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal.

The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Jacksonville, Florida

Khalid AlNahdy September 18, 2012
Khalid AlNahdy, P. E. Date
District Air Program Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on September 18, 2012, to the persons listed below.

Mr. Michael Bush, Vice-President of North American Operations, Carlisle Interconnect Technologies (Email: Mike.Bush@carlisleit.com)
Mr. Curt Dyess, Maintenance/Facilities Manager, Carlisle Interconnect Technologies (Email: curt.Dyess@carlisleit.com)
Ms. Erin Hoffer, Carlisle Interconnect Technologies (Email: erin.hoffer@carlisleit.com)

Clerk Stamp
FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), F.S., with the designated agency clerk, receipt of which is hereby acknowledged.

Shane Maghen September 18, 2012
(Clerk) (Date)

FACILITY DESCRIPTION

Existing Facility

Carlisle Interconnect Technologies is a manufacturer of high-performance wire, cable, optical fiber that is used throughout the aerospace industry.

This is a non-ferrous wire coating facility that consists of several process operations. The types of processes and the number of unit equipment associated with each process are as described below.

Process	Number of Machines
Teflon Extrusion	16 units
Coating/Stripping	30 units (10 stripping, 15 dip coating and 5 thermo wraps)
Thermoplastic Extrusion	23 units
Horizontal Teflon Extrusion	3 units

Teflon Extrusion. Teflon - PTFE (polytetrafluoroethylene) is blended with solvent (Naphtha and Isopar) and pigments to facilitate extrusion as a paste. The uncoated wire is rolled through a hydraulic extruder (where the paste is applied to the wire) and then to an electric curing oven to obtain the desired coating property.

Strip/Dip Coating. In the dip coating process, a resin coating is applied over coated cable and then cured in an electric oven. Some of the coated wires require processing through a water bath, followed by curing in the electric ovens. According to the specifications, some of the wire requires stripping and marking with inks. The resin-coating bath is a mixture of N-Methyl Pyrodidone, I-302H, I201A, pigment and Pyralin. Solvents are periodically used for thinning and cleaning the machinery. Small quantity of Xylene will be used periodically for machinery cleaning.

Thermoplastic Extrusion. The uncoated wire enters an annealing furnace and is heated to the desired temperature for the extrusion application.

A molten thermoplastic bead is applied onto the heated wire using a screw extruder. The coated wire is then ink printed/marked before being cooled in a water bath. Periodically, solvents are used to clean the machinery.

The existing facility consists of the following emission units.

Facility ID No. 1090032	
ID No.	**Emission Unit Description**
001	Coated Wire Facility

Exempt Emissions Units/Activities

The following emissions units/activities are exempt from air permitting:

Emissions unit/Activity	Rule
Caterpillar, Inc. 125 HP Diesel Engine, Model 3208 *The engine is a four-stroke cycle, 8-cylinder, compression ignition, diesel engine with a total displacement of 10.4 liters. The date of Manufacture is July 1986.* *The engine is subject to 40 CFR 63 Subpart ZZZZ National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines. In accordance with the definitions of this subpart, the engine is an existing, stationary RICE.*	62-210.300(3)(a)35., F.A.C.

FACILITY REGULATORY CATEGORIES

- The facility is a not major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act.
- The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.
- This facility is classified as a natural minor air pollution source. It emits Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs).

RELEVANT DOCUMENTS

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department.

Application for Air Permit – Non-Title V Renewal received August 14, 2012

SECTION 2. ADMINSITRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Northeast District Air Program, Florida Department of Environmental Protection (Department). The Northeast District's mailing address is 7777 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256. All documents related to applications for permits to operate an emissions unit shall be submitted to the Northeast District.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Northeast District Office. The mailing address and phone number of the District Office is: 7777 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256. The Permitting Authority's telephone number is 904/256-1700.

3. Appendices: The following Appendices are attached as part of this permit:

   a. Appendix A. Citation Formats and Glossary of Common Terms;
   b. Appendix B. General Conditions;
   c. Appendix C. Common Conditions; and
   d. Appendix D. Common Testing Requirements.

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.

   [Rule 62-4.080, F.A.C.]

6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification.

   [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

7. Source Obligation:

(a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

(b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

[Rule 62-212.400(12), F.A.C.]

8. A completed **Application for Non Title V Air Permit Renewal** [DEP Form No. 62-210.900(4)] shall be submitted to the Department at least 60 days prior to the expiration date of this operation permit. To properly apply for an operation permit, the permittee shall submit the appropriate application form, processing fee, and compliance test reports as required by this permit.

[Rules 62-4.055 and 62-4.220, F.A.C.]

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
001	Coated Wire Facility

PERFORMANCE RESTRICTIONS

1. Hours of Operation: The hours of operation are not restricted: 24 hours/day; 7 days/week; 52 weeks/year (8760 hours/year).

   [Rules 62-4.160(2) & (14)(b), 62-210.200(PTE), F.A.C., Definitions- Potential to Emit (PTE)]

2. Material Usage Limitation: The maximum use of either Naphtha or Isopar shall not exceed 6,000 pounds per month, and the sum usage rate of the two solvents will also not exceed 6,000 pounds per month.

   [Rules 62-4.160(2), 62-210.200(PTE), F.A.C. and Air Construction Permit No. 1090032-004-AC]

EMISSIONS STANDARDS

3. Facility-Wide Emissions Cap: The facility is subject to an emissions cap for Volatile Organic Compounds (VOC) of 89.85 tons per any 12-consecutive month period.

   [Air Construction Permit No. 1090032-004-AC]

COMPLIANCE DEMONSTRATION

4. Compliance Demonstration: Compliance shall be determined by recording the following data:

   a. Amount of Naphtha and Isopar used (pounds/month)
   b. Amount of pigment used (pounds/hour).
   c. All the supporting documents from the manufacturer that are used for VOC emissions estimations.
   d. Monthly usage rate of all VOC containing materials.
   e. Total cumulative VOC emissions in tons per month
   f. Total cumulative VOC emissions in tons per any consecutive 12-month period.

   [Air Construction Permit No. 1090032-004-AC and Rule 62-4.160 (14), F.A.C.]

5. Recordkeeping: The owner or operator shall document, through purchase receipts, records and sales receipts, the beginning and ending VOC inventories, the amount of VOC purchased during the computational period, and the amount of VOC disposed of in the liquid phase during such period.

   [Rule 62-4.070 (1), F.A.C.]

6. Record Retention: All the measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least three (3) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request.

   [Rule 62-160(14) b, F.A.C.]

7. Reporting: Using the data required in Specific Condition No. 4, a report of the facility-wide VOC emissions shall be submitted to the Northeast District Office Air Compliance section on annual basis prior to March 1 of each year

   [Rule 62-4.070 (1), F.A.C.]