



# Florida Department of Environmental Protection

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

Jonathan P. Steverson  
Secretary

## PERMITTEE

Petersen Industries, Inc.  
4000 SR 60 West  
Lake Wales, FL 33859

Authorized Representative:  
Mr. John Czerepka, Engineer

Air Permit Nos. 1050385-004-AO  
1050385-005-AC

Permit Expires: AO 01/04/2021  
AC 07/01/2016

Air Operation Permit/  
Minor Air Construction Permit

Project: Knuckleboom Loader  
Mfg. and Surface Coating

## PROJECT

This is the final air construction and operation permit (one document), which authorizes construction of a plasma arc cutting table and continued operation of a knuckleboom loader manufacturing and surface coating facility. The proposed construction and operation will be conducted at the existing Petersen Industries, Inc. facility, which is categorized under Standard Industrial Classification No. 3523. The existing facility is located in Polk County at 4000 SR 60 West in Lake Wales, Florida. The UTM coordinates are Zone 17, 435.35 km East and 3086.74 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements and Facility-wide Specific Conditions); Section 3 (Emissions Unit Specific Conditions); and 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. As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the draft permit.

## STATEMENT OF BASIS

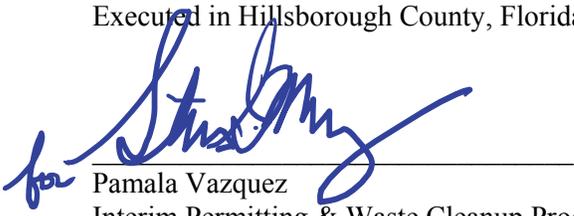
This air pollution construction/operation permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

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.

**FINAL PERMIT**

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Executed in Hillsborough County, Florida



Pamala Vazquez  
Interim Permitting & Waste Cleanup Program Administrator  
Southwest District

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package 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 the date indicated below to the following persons.

John Czerepka, Petersen Industries, Inc., [jczerepka@petersenind.com](mailto:jczerepka@petersenind.com)  
Rob Wallace, P.E., EEC, [rwallace@eec-tampabay.com](mailto:rwallace@eec-tampabay.com)  
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Steven Tafuni, Florida DEP Southwest District, [Steven.Tafuni@dep.state.fl.us](mailto:Steven.Tafuni@dep.state.fl.us)  
Danielle Henry, Florida DEP Southwest District, [Daniel.D.Henry@dep.state.fl.us](mailto:Daniel.D.Henry@dep.state.fl.us)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.



(Clerk)

January 4, 2016  
(Date)

## SECTION 1. GENERAL INFORMATION

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### FACILITY DESCRIPTION

The existing facility consists of the following emissions units.

| Facility ID No. 1050385 |   |
|-------------------------|---|
| ID No.                  | Emission Unit Description                                       |
| 001                     | Knuckleboom Loader Manufacturing and Surface Coating Operations |

### PROPOSED PROJECT

This project is an after the fact construction permit to add the new plasma cutting table and the associated baghouse. The new plasma cutting table is a Messer Titan III and the associated baghouse is a Farr Gold Series Dust Collector GS 16; the dust collector contains 16 Camfil filters. The dust collector is 99.995% efficient for particles 5 micron and larger.

This project will add the following emissions units.

| Facility ID No. 1050385 |                           |
|-------------------------|---------------------------|
| ID No.                  | Emission Unit Description |
| 002                     | Plasma Arc Cutting Table  |

### EXEMPT EMISSION SOURCES/ACTIVITIES

One Industrial Combustion natural gas fired stress-relieving furnace with a heat input rating of 1.0 MMBtu/hour. [Rule 62-210.300(3)(a)33, F.A.C.]

One ~20' x 48' blast bay that is enclosed on all but the south side. There is a Pneumatic Recovery System in the bay that separates the reusable blast media from dust and fines which are carried to a high-vacuum dust collector and exhausted inside the bay. All blasting operations take place in this bay. [Rule 62-210.300(3)(b)1, F.A.C.]

### FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, 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 a synthetic non-Title V source for volatile organic compounds (VOCs) and hazardous air pollutants (HAPs)
- This facility is a natural minor source of particulate matter (PM).

### PERMIT HISTORY/AFFECTED PERMITS

This permit replaces Operation Permit No. 1050385-003-AO.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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### ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Southwest District of the Department of Environmental Protection (Department). The mailing address, phone number and e-mail address is:

Florida Department of Environmental Protection  
Southwest District Office  
Air and Solid Waste Permitting Program  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-470-5700  
E-mail: [SWD\\_Air\\_Permitting@dep.state.fl.us](mailto:SWD_Air_Permitting@dep.state.fl.us)

All documents related to applications for permits shall be submitted to the above e-mail address and/or address.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Florida Department of Environmental Protection (Department), Southwest District Office's Compliance Assurance Program. The mailing address, phone number and e-mail address is:

Florida Department of Environmental Protection  
Southwest District Office  
Compliance Assurance Program  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-470-5700  
E-mail: [SWD\\_Air@dep.state.fl.us](mailto:SWD_Air@dep.state.fl.us)

All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the above e-mail address and/or address.

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

Appendix A (Citation Formats and Glossary of Common Terms);  
Appendix B (General Conditions);  
Appendix C (Common Conditions); and  
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.]

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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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. Construction and Expiration. The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires.  
[Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]
8. Annual Operating Report (AOR): The information required by the Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be submitted **by April 1 of each year**, for the previous calendar year, to the Department of Environmental Protection's (DEP) District Office. All synthetic non-Title V sources shall submit a completed DEP Form 62-210.900(5) unless the annual operating report is submitted using the DEP's electronic annual operating report software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C.  
[Rule 62-210.370(3), F.A.C.]
- {Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: <http://www.dep.state.fl.us/air/emission/eaor>. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at [eaor@dep.state.fl.us](mailto:eaor@dep.state.fl.us).}*
9. Operation Permit Renewal Application - A completed application for renewal of the operation permit shall be submitted to the Permitting Authority no later than 60 days prior to the expiration date of the operation permit. To properly apply for an operation permit, the applicant shall submit the following:
- a. the appropriate permit application form (*see current version of Rule 62-210.900, F.A.C. (Forms and Instructions)*), and/or FDEP Division of Air Resource Management website at: <http://www.dep.state.fl.us/air/>;
  - b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.; and
  - c. copies of the most recent two months of records/logs specified in Specific Condition No(s). A.6. and A.7.
- [Rules 62-4.030, 62-4.050, 62-4.070(3), 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**A. EU No. 001 Knuckleboom Loader Manufacturing and Surface Coating Operations**

This section of the permit addresses the following emissions unit.

| <b>EU No.</b> | <b>Emission Unit Description</b>   |
|---------------|--|
| 001           | Knuckleboom loader manufacturing and surface coating operations take place in several buildings at this facility. All major surface coating activities are conducted in the paint shop which has four painting bays and one priming bay. Fugitive emission are captured and exhausted in each painting bay by a 42” horizontal exhaust fan with a flow rate of 26,387 cfm (one per bay). The priming bay is open on three sides. Metal cleaning, welding, assembly, etc. are generally conducted within the body shop, machine/fabrication shop and the installation shop. Unconfined particulate matter (PM) emissions are vented inside the buildings. |

**PERFORMANCE RESTRICTIONS**

A.1. Hours of Operation - The hours of operation are not limited (8760 hours per year).  
[Rule 62-210.200 (“Potential to Emit”), F.A.C.; Application No. 1050385-001-AC]

**EMISSIONS STANDARDS**

A.2. Volatile Organic Compound (VOC) and Hazardous Air Pollutant (HAP) Emissions – Emissions of VOCs, total HAPs, and individual HAPs from this facility shall not exceed the following:

| Pollutant          | Tons per any 12 consecutive month period |
|--------------------|--|
| VOC                | 21.0                                     |
| Any Individual HAP | 6.0                                      |
| Total HAPs         | 15.0                                     |

[Rule 62-210.200 (“Potential to Emit”), F.A.C.; Application No 1050385-001-AC]

A.3. Fugitive VOC/Organic Solvents (OS) - The permittee shall not store, pump, handle, process, load, unload, or use in any process or installation, volatile organic compounds (VOC), Hazardous Air Pollutants (HAPs), or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. The following procedures shall be utilized to minimize pollutant emissions:

- a. Maintain tightly fitting cover, lids, etc. on all containers of OS/VOC/HAPs when they are not being handled, tapped, etc.;
- b. all VOC/HAPs fittings, valve lines, etc. shall be properly maintained;
- c. all VOC/HAPs spills shall be attended to immediately and the waste properly disposed of, recycled, etc.; and
- d. all solvent from solvent washings (equipment clean-up) shall be directed into containers that prevent evaporation to the atmosphere.

[Rule 62-296.320(1), F.A.C.; Application No. 1050385-001-AC]

A.4. Unconfined Particulate Matter - No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading,

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

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#### A. EU No. 001 Knuckleboom Loader Manufacturing and Surface Coating Operations

storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions include the following:

- a. Particulate matter emissions associated with surface coating, welding, assembly, metal cleaning, etc. are to be controlled by good work practices and housekeeping procedures.
- b. All major surface-coating activities shall be conducted inside the Paint Shop (within the four designated painting and one designated priming bays).

[Rule 62-296.320(4)(c), F.A.C. ; Application No 1050385-001-AC]

- A.5. Fugitive Emissions Opacity Standard – As an indicator that the precautions to control unconfined particulate matter emissions as required by Specific Condition No. A.4. are adequate, emissions of unconfined particulate matter from the Paint Shop (painting, priming and blast bays) and Building Nos. 2, 3 and 4 should not exceed 5%. If this value is exceeded, it shall not be a violation in and of itself, but an indication that additional control precautions and/or work practices beyond those of Specific Condition No. A.4. may be necessary.

[Rule 62-4.070(3), F.A.C.; Construction Permit 1050385-001-AC]

#### RECORDS AND REPORTS

- A.6. VOC Monthly Records – In order to demonstrate compliance with the VOC limitation of Specific Condition No. A.2., the permittee shall maintain monthly VOC records which shall contain, at a minimum, the following:

- a. Facility Name, Facility ID No. (1050385), Emission Unit No., and Month/Year;
- b. total quantity (gallons) and VOC content (lbs/gallon) of each VOC containing material used for the month;
- c. calculated monthly total VOC emissions, in pounds or tons per month (based upon material VOC content), for the entire facility (excluding exempt activities); and
- d. cumulative total of the VOC emissions for the most recent 12 consecutive month period (tons per 12 consecutive month period) for the entire facility (excluding exempt activities).

[Rule 62-4.070(3), F.A.C.; Application No 1050385-001-AC]

- A.7. HAPs Monthly Records – In order to demonstrate compliance with the HAP limitations of Specific Condition No. A.2., the permittee shall maintain monthly HAP records which shall contain, at a minimum, the following:

- a. Facility Name, Facility ID No. (1050385), Emission Unit No., and Month/Year;
- b. total quantity (gallons) and HAP content (lbs/gallon) of each HAP containing material used for the entire facility for the month;
- c. calculated monthly HAP emissions for each individual HAP and for total HAPs, in pounds or tons per month (based upon material HAP content), for the entire facility (excluding exempt activities); and
- d. cumulative total of the HAP emissions for each individual HAP and for total HAPs for the most recent consecutive 12-month period (tons per consecutive 12-month period) for the entire facility (excluding exempt activities).

[Rule 62-4.070(3), F.A.C.; Application No 1050385-001-AC]

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

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#### A. EU No. 001 Knuckleboom Loader Manufacturing and Surface Coating Operations

- A.8. Documentation – Supporting documentation (e.g., MSDS sheets, “As Supplied” sheets, “As Applied” sheets, purchase orders, inventory records, production records, etc.) for the records required by Specific Condition Nos. A.6 and A.7., which shall include sufficient information to determine VOC and HAP emissions, shall also be kept. At the permittee’s option, “quantity purchased” may be reported to satisfy the requirement of “quantity used”, provided no materials are used which are not purchased.  
[Rule 62-4.070(3), F.A.C.]
- A.9. Records Retention – The records required by Specific Condition Nos. A.6 - A.7. shall be recorded in a permanent form suitable for inspection by the Department upon request, and shall be retained for a minimum of the most recent three (3) year period. Monthly records required by Specific Condition Nos. A.6. and A.7. shall be completed by the 10<sup>th</sup> of the following month. Daily records shall be completed within three (3) business days.  
[Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**B. Plasma Arc Cutting Table**

This section of the permit addresses the following emissions unit.

| <b>EU No.</b> | <b>Emission Unit Description</b>  |
|---------------|---|
| 002           | The plasma arc cutting table is used in the machine shop for cutting a Messer Titan III and the associated baghouse is a Farr Gold Series Dust Collector GS 16; the dust collector contains 16 Camfil filters. The dust collector is 99.995% efficient for particles 5 micron and larger. The filters are designed for a maximum temperature of 160 °F. |

**EQUIPMENT**

- B.1. Equipment: The permittee is authorized to install a plasma arc cutting table (Messer Titan III) and associated dust collector/bag house (Farr Gold Series Dust Collector GS16.) [Application No. 1050385-005-AC]

**PERFORMANCE RESTRICTIONS**

- B.2. Restricted Operation: The hours of operation are not limited (8760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]
- B.3. Proper Operation of Control Equipment - No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable device (dust collector) operating properly. Visible emissions from the dust collector is limited to 20% opacity, in accordance facility wide VE limitations in Rule 62-296.320(4)(b)1 F.A.C. However, in order to provide reasonable assurance that the dust collector functions properly, visible emissions from the dust collector exhaust should not exceed 5% opacity. Exceedance of the 5% limit shall not be considered a violation in and of itself, but an indication that maintenance on the dust collector and additional practices may be necessary. [Rules 62-210.650 (“Circumvention”) and 62-296.320(4)(b)1., F.A.C.; Application No. 1050385-005-AC]

**TESTING REQUIREMENTS**

- B.4. Special Compliance Tests – When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit, unless the Department obtains other information sufficient to demonstrate compliance. The owner or operator of the emissions unit shall provide a report on the results of said tests to the Department in accordance with the provisions of Subsection 62-297.310(10), F.A.C. [Rule 62-297.310(8)(c), F.A.C.]
- B.5. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

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**B. Plasma Arc Cutting Table**

B.6. Test Methods: Required tests shall be performed in accordance with the following reference methods.

| Method | Description of Method and Comments                                       |
|--------|--|
| 9      | Visual Determination of the Opacity of Emissions from Stationary Sources |

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rules 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

**RECORDS AND REPORTS**

B.7. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit.  
[Rule 62-297.310(10), F.A.C.]

B.8. Log of Maintenance of Pollution Control Equipment: The permittee shall implement a schedule for the maintenance and inspection of the dust collector/baghouse in accordance with the manufacturer's specifications. Records of inspections, maintenance, and performance data of control devices shall be retained for a minimum of three (3) years and shall be made available to the Compliance Authority upon request.  
[Rule 62-4.070(3), F.A.C.]