



Florida Department of Environmental Protection

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Governor

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

Jonathan P. Steverson
Secretary

PERMITTEE

Johnson Controls, Inc.
507 E. Michigan St
Milwaukee, WI 53202

Authorized Representative:
Jeff Werwie, Director of Environmental Compliance

Air Permit Nos. 1030577-001-AC
1030577-002-AO
Minor Air Construction and
Operation Permits

Johnson Controls – Largo Plant
Pinellas County, Florida

PROJECT

This is the final air construction and operation permits, in one document. The construction permit is for construction of four (4) fin presses that is used for manufacturing products for commercial heating, ventilating and air conditioning (HVAC) industry. The operation permit is issued concurrently to operate the facility, which is for refrigeration and heating equipment manufacturing (Standard Industrial Classification No. 3585). The facility is located in Pinellas County at 8575 Largo Lakes Blvd in Largo, Florida. The UTM coordinates are Zone 17, 327.00 km East and 3085.00 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 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.

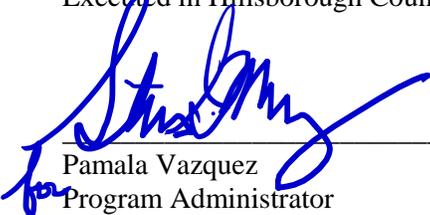
Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in 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

1030577-001-AC Effective Date: September 16, 2016
Expiration Date: 12/31/2017

1030577-002-AO Effective Date: September 16, 2016
Renewal Application Due Date: July 18, 2021
Expiration Date: September 16, 2021

Executed in Hillsborough County, Florida



Pamala Vazquez
Program Administrator
Permitting & Waste Cleanup Program
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.

Jeff Werwie, Johnson Controls, Inc., jeff.werwie@jci.com
Bob Herod, Johnson Controls, Inc., bob.herod@jci.com
Jennifer Misiewicz, Johnson Controls, Inc., Jennifer.misiewicz@jci.com
Robert Fox P.E., Environmental Resources Management, bob.fox@erm.com
Sherrill Culliver, PCAQD, sculliver@co.pinellas.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.



September 16, 2016
(Clerk) (Date)

SECTION 1. GENERAL INFORMATION (FINAL)

PROPOSED PROJECT

Johnson Controls, Inc. proposes to construct four (4) fin presses in their new facility located at 8575 Largo Lakes Blvd.

Johnson Control, Inc. manufactures products for the commercial heating, ventilating, and air conditioning (HVAC) industry. The products manufactured at the facility include variable air volume terminals and controls, fan coil units, and indoor air handlers.

{Permitting Note: The facility was located in an old address, 6750 Bryan Dairy Road, Largo, FL 33777-1603 and permitted under Air Permit No. 1030520-004-AO. This permit authorizes the facility to move to the new location, 8575 Largo Lakes Blvd, Largo, FL 33773-4909.}

This project will add the following emissions unit.

Facility ID No. 1030577	
ID No.	Emission Unit Description
001	4 Fin Presses (Nos. 1 – 4)

APPLICABLE REGULATIONS

A summary of applicable regulations is shown in the following table.

Regulation	EU No.
<i>State Rule Citations</i>	
Rule 62-210.300, F.A.C., Permits Required	001
Rule 62-296.320, F.A.C., General Pollutant Emissions Limiting Standard	001

EXEMPT EMISSION SOURCES/ACTIVITIES

- *Brazing pursuant to Rule 62-210.300(3)(a)13., F.A.C. (Categorical and Conditional Exemptions)*
- *Washing/Cure Oven pursuant to Rule 62-210.300(3)(a)33., F.A.C. (Categorical and Conditional Exemptions)*
- *Touch up painting pursuant to Rule 62-210.300(3)(b)1, F.A.C. (Generic Emissions Unit or Activity Exemption)*
- *Wave Solder Machining pursuant to Rule 62-210.300(3)(b)1, F.A.C. (Generic Emissions Unit or Activity Exemption)*
- *Tube Bending pursuant to Rule 62-210.300(3)(b)1, F.A.C. (Generic Emissions Unit or Activity Exemption)*
- *Powder Coat Paint Booth pursuant to Rule 62-210.300(3)(b)1, F.A.C. (Generic Emissions Unit or Activity Exemption)*
- *Miscellaneous Machining Operations (laser cutting, minimal drilling and grinding) pursuant to Rule 62-210.300(3)(b)1, F.A.C. (Generic Emissions Unit or Activity Exemption)*
- *Miscellaneous Floor Chemical Use pursuant to Rule 62-210.300(3)(b)1, F.A.C. (Generic Emissions Unit or Activity Exemption)*

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act (CAA).
- 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(PSD), F.A.C.
- This facility is a natural minor source of air pollution.

SECTION 1. GENERAL INFORMATION (FINAL)

PERMIT HISTORY/AFFECTED PERMITS

This permit is the initial air construction and operation permit for this facility (combined).

{Note: The facility moved to the new location and was previously permitted under Permit No. 1030520-004-AO (See above for details)}

**SECTION 2. ADMINISTRATIVE REQUIREMENTS AND FACILITY-WIDE SPECIFIC CONDITIONS
(FINAL)**

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

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 Pinellas County Air Quality Division. The mailing address, phone number and e-mail address of the Local Air Program is:

Pinellas County Air Quality Division
509 East Avenue South, Suite 138
Clearwater, Florida 33756
Telephone: 727-464-4422
E-mail: Airquality@pinellascounty.org

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.]
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

**SECTION 2. ADMINISTRATIVE REQUIREMENTS AND FACILITY-WIDE SPECIFIC CONDITIONS
(FINAL)**

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. **Renewal.** Prior to 60 days before the expiration date of this permit, the permittee shall apply for a renewal of the permit. A renewal application shall be timely and sufficient. If the application is submitted prior to 60 days before expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by the Department. To properly apply for an operation permit, the applicant shall submit the following:
- 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/>*);
 - the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.;
 - copies of the most recent month of records/logs specified in Specific Condition No. A.6.

[Rules 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

FACILITY-WIDE REQUIREMENTS

8. **Objectionable Odor** - The permittee shall not cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An objectionable odor is any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.
9. **Fugitive VOC/Organic Solvents (OS)** - The permittee shall not store, pump, handle, process, load, unload, or use in any process or installation, VOC/OS or HAP 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:
- All equipment, pipes, hoses, lids, fittings, etc., shall be operated and maintained in such a manner as to minimize leaks, fugitive emission, and spills of paints and solvent materials that contain VOC/OS.
 - All solvents from solvent washings that contain VOC's and/or OS's shall be directed into containers that prevent evaporation into the atmosphere.

[Rule 62-296.320(1), F.A.C.; Construction Permit No. 1030577-001-AC]

{Permitting Note – This condition implements Item 6 in Section 4, Appendix C (Common Conditions).}

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001 – 4 Fin Presses (Nos. 1 – 4)

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
001	4 Fin Presses (Nos. 1 – 4). This emission unit consists of four fin presses (Burr Oak Tool, Inc.) designated as No. 1 (Model 360), No. 2 (Model 892), No. 3 (Model 984), and No. 4 (Model 369) at a non-Title V facility. Each press has an immersion pan where metal feedstock is coated with the stamping fluid Finworks 614C-5A (or equivalent) for lubrication prior to stamping. The stamping fluid contains no HAPs and has a maximum VOC content of 90 percent (%), by weight.

EQUIPMENT

- A.1. Fin Presses: The permittee is authorized to install four (4) fin presses.
[Construction Permit No. 1030577-001-AC]

PERFORMANCE RESTRICTIONS

- A.2. Operation Limitation: The stamping liquid used in the presses to lubricate the metal feedstock prior to stamping shall contain no HAP and have a maximum VOC content of 90% by weight.
[Rule 62-210.200(PTE), F.A.C.; Construction Permit No. 1030577-001-AC]
- A.3. 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.]

EMISSIONS STANDARDS

- A.4. VOC Emissions Standards: Emissions of VOC shall not exceed 20.6 tons per any consecutive 12-month period.
[Construction Permit No. 1030577-001-AC and Requested by the permittee in the permit application received 7/20/2016.]

NOTIFICATION REQUIREMENTS

- A.5. Notification of Operation Commencement: The permittee shall notify the Compliance Authority in writing of the date of commencing operation of the EU No. 001 after completing the construction authorized by this permit, no later than fifteen (15) days after that date. Commencing operation means setting into operation of any emissions unit for any purpose.
[Rules 62-4.070, and 62-210.200, F.A.C., (definition of Commence Operation)]

RECORDS AND REPORTS

- A.6. Monthly Log for VOC: In order to demonstrate compliance with the emission limitations of Specific Condition Nos. A.2. and A.4., the permittee shall record and maintain a monthly log containing the following:
- (a) Facility Name, Facility ID No. (1030577), Emission Unit ID No. (001)
 - (b) Month/Year

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001 – 4 Fin Presses (Nos. 1 – 4)

- (c) For each VOC containing stamping fluid used in all four (4) presses:
1. the name of the stamping fluid;
 2. the total quantity of stamping fluid used (gallons); and
 3. the VOC content (pounds of VOC/gallon of stamping fluid and % by weight).
- {Permitting Note: 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.}*
- (d) The calculated monthly total VOC emissions, in pounds or tons per month (based upon material VOC content).
- (e) A cumulative total of the VOC emissions for the most recent consecutive 12-month period (tons per consecutive 12-month period).

Supporting documentation (e.g., Material Safety Data Sheets (MSDS) sheets, "As Supplied" sheets, "As Applied" sheets, purchase orders, inventory records, production records, etc.) for the records required by Specific Condition No. A.4., which shall include sufficient information to determine VOC and HAP emissions shall also be kept. The monthly records shall be completed by the end of the following month. [Rule 62-4.070(3), F.A.C.; Construction Permit No. 1030577-001-AC]