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PERMITTEE

University of South Florida
4202 East Fowler Ave OPM 100
Tampa, FL 33620

Air Permit No. 0570480-015-AO
Effective Date: December 29, 2017
Renewal Application Due Date: July 16, 2022
Expiration Date: September 14, 2022

Authorized Representative:

William Land, Director, Environmental Health
& Safety

Air Operation Permit
Hillsborough County, Florida

PROJECT

This is the final air operation permit, which revises the operation of three boilers at the University of South Florida (Standard Industrial Classification No. 8221 – Colleges and Universities). This facility is located in Hillsborough County at 4202 East Fowler Ave OPM 100, Tampa, FL 33620. The UTM coordinates are Zone 17, 360.77 km East, and 3104.76 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); 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.

Permitting Authority: Applications for air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4 and 62-210 of the Florida Administrative Code (F.A.C.). The Permitting Authority responsible for making a permit determination for this project is the Environmental Protection Commission of Hillsborough County (EPC). The Permitting Authority's physical/mailling address is: 3629 Queen Palm Dr., Tampa, Florida 33619. The Permitting Authority's telephone number is 813/627-2600.

Petitions. A person whose substantial interests are affected by the proposed decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this notice. Petitions filed by any other person must be filed within 14 days of receipt of this proposed action. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. 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 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 Department'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, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the

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FINAL PERMIT

proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when each petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and, (g) A statement of the relief sought by the petitioner, stating precisely the action 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 Department's final action may be different from the position taken by it in this notice. 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.

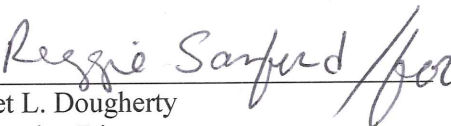
Mediation: Mediation is not available in this proceeding.

Effective Date: This permitting decision is final and effective on the date filed with the clerk of the Permitting Authority unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition pursuant to Rule 62-110.106, F.A.C., and the petition conforms to the content requirements of Rules 28-106.201 and 28-106.301, F.A.C. Upon timely filing of a petition or a request for extension of time, this action will not be effective until further order of the Permitting Authority.

Judicial Review: Any party to this permitting decision (order) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602, 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 EPC.

Executed in Tampa, Florida.

ENVIRONMENTAL PROTECTION
COMMISSION OF HILLSBOROUGH COUNTY


Janet L. Dougherty
Executive Director

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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.

Snigdha Webb 12/29/2017
Clerk Date

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

The University of South Florida operates three boilers, which provide steam for the University's hot water loop. The boilers are:

- English Boiler, Model No. 93-170, with a rated capacity of 57 MMBtu/hr (Boiler No. 5)
- English Boiler, Model No. 45-D-350, Serial No. 21-029, with a rated capacity of 54 MMBtu/hr, (Boiler No. 6)
- English and Tube, Inc. Boiler, Model No. 45-OS-250, Serial No. 31-029, with a rated capacity of 54 MMBtu/hr (Boiler No. 7).

Boiler Nos. 5, 6, and 7 are fired on natural gas as a primary fuel and on No. 2 fuel oil as a backup. However, in order to be exempted from 40 CFR 63, Subpart JJJJJ, the boilers are authorized to fire No. 2 fuel oil only for limited purposes. Emissions from each boiler are limited by the firing of natural gas as the primary fuel, limiting the fuel usage, and limiting the sulfur content of the fuel oil. The fuel limitations constitute Best Available Control Technology (BACT) for boilers.

This facility is an area source of HAP emissions. However, due to the fuel oil usage restrictions requested by the permittee, each boiler is exempt from 40 CFR 63 Subpart JJJJJ because each boiler meets the definition of a gas-fired boiler, as specified in specified in 40 CFR 63.11195(e) and 63.11237. Notwithstanding, each boiler remains subject to 40 CFR 60 Subpart Dc and Rule 62-296.406, F.A.C.

The existing facility consists of the following emissions units (EU).

Facility ID No. 0570031	
ID No.	Emission Unit Description
001	Boiler No. 5
007	Boiler No. 6
009	Boiler No. 7

APPLICABLE REGULATIONS

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

Regulation	EU No(s).
<i>Federal Rule Citations</i>	
40 CFR 60, Subpart A – General Provisions	001, 007, 009
40 CFR 60, Subpart Dc - Standards Of Performance For Small Industrial-Commercial-Institutional Steam Generating Units	001, 007, 009
<i>State Rule Citations</i>	
Rule 62-296.320, F.A.C. - General Pollutant Emission Limiting Standards	001, 007, 009
Rule 62-296.406, F.A.C. – Fossil Fuel Steam Generators with Less Than 250 Million Btu Per Hour Heat Input, New and Existing Emissions Units	001, 007, 009
<i>Local Rule Citations</i>	
Rules of the EPCHC, Chapter 1-3 - Stationary Air Pollution and Ambient Air Quality Standards	001, 007, 009

SECTION 1. GENERAL INFORMATION

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, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Environmental Protection Commission of Hillsborough County. The mailing address is 3629 Queen Palm Dr., Tampa, Florida 33619. All documents related to applications for permits to operate an emissions unit shall be submitted to the Environmental Protection Commission of Hillsborough County.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Environmental Protection Commission of Hillsborough County at: 3629 Queen Palm Dr., Tampa, Florida 33619.
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); Appendix D (Common Testing Requirements); Appendix E (Insignificant Emission Sources).
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 EPCHC may require the permittee to conform to new or additional conditions. The EPCHC shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the EPCHC may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the EPCHC. 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. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]
8. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. [Rule 62-296.320(4)(c), F.A.C.]
9. The permittee shall provide timely notification to the Environmental Protection Commission of Hillsborough County prior to implementing any changes that may result in a modification to this permit pursuant to Rule 62-210.200, F.A.C., Modification. The changes do not include normal maintenance, but may include, and are not limited to, the following, and may also require prior authorization before implementation: [Rules 62-210.300 and 62-4.070(3), F.A.C.]
 - A) Alteration or replacement of any equipment or major component of such equipment.*
 - B) Installation or addition of any equipment* which is a source of air pollution.
 - C) The use of materials and fuels other than those authorized in this permit.

*Not applicable to routine maintenance, repair, or replacement of component parts of an emission unit. The cost of replacement of component parts in an emission unit such as a boiler shall count toward the fixed capital cost for reconstruction. [Rule 40 CFR 60.15 and Rule 62-210.200, F.A.C.]

10. When the Environmental Protection Commission of Hillsborough County (EPC) 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 Rules 62-204, 62-210, 62-212, 62-

SECTION 2. ADMINISTRATIVE REQUIREMENTS

- 296, or 62-297, F.A.C., or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of pollutant emissions from the source and to provide a report on the results of said tests to the EPC. [Rule 62-297.310(8)(c), F.A.C.]
11. As requested by the permittee, in order to establish the facility as a synthetic minor for both criteria and hazardous air pollutants (HAP), the HAP, as defined in rule 62-210.200, F.A.C., emissions shall be less than 0.5 tons in any 12 consecutive month period for any individual HAP, and less than 3.4 tons in any 12 consecutive month period for any combination of HAPS. [Rule 62-4.070(3), F.A.C.]
 12. The permittee must submit to the Environmental Protection Commission of Hillsborough County each calendar year, a completed DEP Form 62-210.900(5), "Annual Operating Report (AOR) for Air Pollutant Emitting Facility", for the preceding calendar year. The AOR shall be submitted by April 1 of the following year. [Rule 62-210.370(3), F.A.C.]
 13. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Permit" (DEP Form 62-210.900(7)) shall be submitted, in duplicate, to the Environmental Protection Commission of Hillsborough County within 30 days after the sale or legal transfer of the permitted facility. [Rule 62-4.120, F.A.C.]
 14. 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. [Rule 62-4.090, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 001, 007, and 009 – Boilers

This section of the permit addresses the following emissions units.

EU No.	Emission Unit Description
001	Boiler No. 5
007	Boiler No. 6
009	Boiler No. 7

Boiler No. 5 is an English Boiler, Model No. No. 93-170, with a rated capacity of 57 MMBtu/hr. Boiler No. 6 is an English Boiler, Model No. 45-D-350, Serial No. 21-029, with a rated capacity of 54 MMBtu/hr. Boiler No. 7 is an English and Tube, Inc., Model No. 45-OS-250, Serial No. 31-029, with a rated capacity of 54 MMBtu/hr.

PERFORMANCE RESTRICTIONS

1. In order to be exempt from 40 CFR 63 Subpart JJJJJ, as requested by the permittee, the following restrictions and limitations shall apply per twelve consecutive month period: [Rule 62-296.406, F.A.C., 40 CFR 60.42c(d), 60.43c(e)(4), and 40 CFR 63.11195(e), Permit No. 0570480-012-AC, and BACT Determination dated March 13, 2012, and Application No. 0570480-015-AO]
 - A) The particulate matter and sulfur dioxide emissions from each boiler shall be limited by the firing of natural gas, except as specified in C) and D) below.
 - B) The maximum combined natural gas usage for all three boilers shall not exceed 600 million cubic feet (MMCF)
 - C) For each boiler, the periodic testing, maintenance, or operator training on liquid fuel shall not exceed a total of 48 hours during any calendar year.
 - D) Each boiler may be fired on liquid fuel during periods of gas curtailment, gas supply interruption, startups, or for periodic testing, maintenance, or operator training.
 - E) When firing No. 2 fuel oil as authorized by C) and D) above, the No. 2 Fuel Oil shall have a maximum sulfur content not to exceed 0.05 percent by weight.
2. In order to ensure compliance with Specific Condition No. 1, the following restrictions shall apply per twelve consecutive month period: [Rule 62-4.070(3), F.A.C. and Permit No. 0570480-012-AC]
 - A) The hours of operation are not restricted.
 - B) All products of combustion must be vented through the boiler stacks.
 - C) The flow meters shall be maintained in good operating condition.

EMISSIONS STANDARDS

3. The visible emissions from each boiler shall not exceed a density of 20% opacity except for one six-minute period per hour which opacity shall not exceed 27%. [40 CFR 60.43c(c) and Rule 62-296.406(1), F.A.C.]

TESTING

4. Annual Compliance Tests: During each calendar year (January 1st to December 31st), test each emission unit for opacity annually, at the point of highest opacity. Because EU Nos. 001 and 009 both utilize the East Most Stack, the visible emissions test may be performed simultaneously provided the capacities specified in Specific Condition No. 6 is met for EU Nos. 001 and 009. The visible emissions test shall be conducted by a certified observer and shall be a minimum of sixty (60) minutes in duration. The test observation period shall include the period during which the highest opacity can reasonably be expected to occur. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rules 62-297.310 and 62-4.070(3), F.A.C. and Ch. 1-3.52, Rules of the EPCHC]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 001, 007, and 009 – Boilers

5. Compliance testing of each boiler must be accomplished during a period when it is cycling up to a normal high firing rate, or is continuously operated at capacity. Capacity is defined as 90-100% of 57 MMBtu/hour for EU 001; 57 MMBtu/hour for EU 007; and 54 MMBtu/hour for EU 009. If it is impracticable to test at the testing capacity, an emissions unit may be tested at less than the testing capacity. If an emissions unit is tested at less than the testing capacity, another emissions test shall be conducted and completed no later than 60 days after the emissions unit operation exceeds 110% of the capacity at which its most recent emissions test was conducted. Operating at conditions which do not reflect the normal operating conditions may invalidate the data. [Rules 62-4.070(3) and 62-297.310, F.A.C.]
6. Compliance with Specific Condition No. 1.E) shall be demonstrated by either of the following: [Rules 62-4.070(3) and 62-297.440, F.A.C., 40 CFR 60.44(c)(h), 40 CFR 60.46c(e), 40 CFR 60.48c(f)]
 - A) Certificate of Fuel Oil Analysis* from a fuel oil vendor or a vendor shipment receipt (bill of lading) showing delivery of low sulfur oil containing a maximum of 0.05% sulfur by weight or equivalent.
 - B) Certificate of Fuel Oil Analysis* for a fuel oil sample taken during the visible emission compliance test shall be submitted in conjunction with the test results.

*According to ASTM Methods D396 or D975

7. Test Methods: Required tests shall be performed in accordance with the following reference method.

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

The above method is described in Appendix A of 40 CFR 60 and is 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 EPCHC. [Rules 62-4.070(3) and 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

8. At least 15 days prior to the date on which each required emissions test is to begin, the owner or operator shall notify the EPCHC, unless shorter notice is agreed to by the EPCHC. The notification shall include the date, time, place of each such test, Facility ID Number, Emission Unit ID Number(s) and description(s), Emission Point Number(s) and description(s), test method(s), pollutant(s) to be tested, along with the name and telephone number of the person who will be responsible for conducting such test(s) for the owner or operator. If a scheduled emissions test needs to be re-scheduled, the owner or operator shall submit to the appropriate air compliance program a revised notification at least seven days prior to the re-scheduled emissions test date or arrange a re-scheduled test date with the appropriate air compliance program by mutual agreement. In addition, 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.]

MONITORING REQUIREMENTS

9. The permittee shall comply with the following requirements for EU Nos. 001, 007, and 009: [Rule 62-204.800, F.A.C., 40 CFR 60.7, 40 CFR 60.11, and 40 CFR 60.43c(d)]
 - A) Furnish the EPC written notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The EPC may request

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 001, 007, and 009 – Boilers

additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]

- B) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]
- C) The permittee shall maintain a file of all measurements, including performance testing measurements and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records. [40 CFR 60.7(f)]
- D) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the EPC which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]
- E) The opacity standards set forth in this permit shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. [40 CFR 60.11(c) and 40 CFR 60.43c(d)]
- F) No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12]

RECORDS AND REPORTS

- 10. 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. The test results shall be submitted to the Air Compliance Section of the EPC within forty-five (45) days of testing. For each test run, the report shall also indicate the following: [Rule 62-297.310(10), F.A.C.]
 - A) The heat input rate of the boiler during the test
 - B) The type of fuel burned during the test
 - C) The sulfur content of the fuel if No. 2 Fuel Oil is burned during the test
- 11. In order to demonstrate compliance with Specific Condition Nos. 1.C) and D) and 5, the permittee shall maintain No. 2 Fuel Oil usage records for each emission unit on-site for the most recent 24 month period. At a minimum, the records shall include the following. The records shall be made available for inspection by the Environmental Protection Commission of Hillsborough County, state, or federal agency upon request. [40 CFR 60.48c(g)(2), Rule 62-4.070(3), 62-4.160(14)(b), F.A.C. and Permit No. 0570480-012-AC]
 - A) Emission Unit Number
 - B) The date and hours of all periods where No. 2 Fuel Oil is combusted by the emission unit
 - C) A monthly summary of the hours of operation in which No. 2 Fuel Oil is burned.
 - D) Rolling twelve month total of B) and C) above.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 001, 007, and 009 – Boilers

12. The permittee shall maintain records in order to ensure compliance with Specific Condition No. 1.B). The records shall include, as a minimum, the following information and shall be made available for inspection by the Environmental Protection Commission of Hillsborough County, state, or federal agency upon request for at least three years: [Rules 62-4.070(3) and 62-4.160(14), F.A.C.]

- A) Month and Year
- B) Monthly summary of the natural gas usage
- C) Rolling twelve month total of B) above

