

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION
FOR

University of South Florida

Hillsborough County

Construction Permit

Application Number

0570480-012-AC

Environmental Protection Commission of

Hillsborough County

Tampa, FL

April 17, 2012

I. Project Description

A. Applicant:

Otis Singfield
Utilities Coordinator
University of South Florida
4202 East Fowler Avenue
Tampa, FL 33620

B. Engineer:

Gerald Kissel, P.E.
P.E. No.: 41958
P.O. Box 290535
Tampa, FL 33687

C. Project and Location:

This project is for the construction of a new 54 MMBtu/hr Natural Gas-fired English Boiler and Tube, Inc. Model No. 45-Os-250 Boiler (Boiler No. 7) as a replacement for Boiler No. 3 at the University of South Florida located at 4202 East Fowler Avenue, Tampa, FL 33620. The initial Draft was issued on March 14, 2012, with comments from the facility received on April 3 and 6, 2012 requesting that the name of the boiler be changed from a 55 MMBtu/hr Natural Gas/No. 2 Fuel Oil Cleaver Brooks to a 54 MMBtu/hr Natural Gas English Boiler and Tube Inc. The facility's operations are currently permitted under Operating Permit 0570480-011-AO, which includes the operation of two (2) English Boilers rated at 54 MMBtu/hr (Boiler No. 6 - EU No. 007) and 57 MMBtu/hr (Boiler No. 5 - EU No. 001), and a 56 MMBtu/hr Union Iron Boiler (Boiler No. 3 - EU No. 003).

The project has been assigned Source Classification Code No. 1-02-006-02 and No. 1-02-005-02, which is for External Combustion Boilers (Natural Gas and Distillate Oil). The Standard Industrial Code for the project is No. 8221. The project is located at 4202 East Fowler Avenue, Tampa, Hillsborough County, FL 33620. UTM Coordinates of the location are 17-360.8 E and 3104.8 N.

D. Process and Controls:

The University of South Florida is an Educational Institution that operates three (3) industrial boilers to supply steam and hot water to the various parts of the university. This permit (0570480-012-AC) is for the construction of a new 54 MMBtu/hr Natural Gas-fired English Boiler and Tube, Inc. Model No. 45-Os-250 Boiler (Boiler No. 7) as a replacement for Boiler No. 3 at the University of South Florida located at 4202 East Fowler Avenue, Tampa, FL 33620. The facility's operations are permitted under Operating Permit 0570480-011-AO, which includes the operation of two (2) English Boilers rated at 54 MMBtu/hr (Boiler No 6 - EU No. 007) and 57 MMBtu/hr (Boiler No. 5 - EU No. 001), and a 56 MMBtu/hr Union Iron Boiler (Boiler No. 3 - EU No. 003).

The new Boiler No. 7 is subject to the 20% opacity standard Rule 62-296.406(1), F.A.C. Although it is subject to NSPS 40 CFR, Subpart Dc, it is only subject to the recordkeeping requirements of

60.48c(a) and (c) because it only burns natural gas. On the other hand, pursuant to Rule 62-296.406(2) and (3), F.A.C., the facility is required to control PM and SO₂ emissions through the application of Best Available Control Technology (BACT), which is the firing of natural gas.. The combined maximum heat input for all three (3) boilers will be 165 MMBtu/hr. Based upon the maximum heat input rate, the maximum natural gas usage for all three boilers is 1,445 10⁶ ft³/yr, while the maximum No. 2 Fuel Oil usage is around 7,097,518 gal/yr. However, the facility has requested that the maximum permitted natural gas and fuel oil usage has been remains unchanged and is limited to 600 x 10⁶ ft³/yr for all three boilers, and 804,600 gal/yr. for Boiler Nos. 5 and 6. This establishes a combined NO_x, CO, SO₂, PM, and VOC PTE of 30 tpy, 25.2 tpy, 2.9 tpy, and 2.3 tpy, 1.7 tpy.

Total HAP emissions are less than 10 tpy, but the facility is not subject to the Area Source Boiler MACT of 40 CFR 63, Subpart JJJJJ, since Gas-fired boilers are exempt pursuant to 40 CFR 63.11195(e), and only burn solid or liquid fuels during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuels for less than 48 hours during any calendar year.

E. Application Information:

Received on: March 2, 2012

Information Requested: N/A

Application Complete: March 2, 2012

II. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes, Chapters, 62-204, 62-210, 62-212, 62-296, and 62-297, Florida Administrative Code (F.A.C.) and Chapter 1-3 of the Rules of the Environmental Protection Commission of Hillsborough County.

This project is not subject to the requirements of Rule 62-212.400, Prevention of Significant Deterioration, F.A.C. or Rule 62-212.500, New Source Review for Nonattainment Areas, F.A.C., since the facility is minor by state definition.

This project is subject to the requirements of Rule 62-212.300, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, F.A.C., since the project is a source of air pollution.

This project is subject to the requirements of Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards, since the operation is a source of particulate matter and volatile organic compounds emissions and a potential source of odors.

This project is subject to the requirements of Rule 62-296.401 through 62-296.417, Specific Emission Limiting and Performance Standards, F.A.C., since there is a defined category for fossil fuel steam generators with less than 250 MMBtu/hr heat input (Rule 62-296.406, F.A.C.).

This project is not subject to the requirements of Rule 62-296.500, Reasonably Available Control Technology (RACT) – VOC and NO_x Emitting Facilities, F.A.C., since there is not a specific category for this source.

This project is not subject to the requirements of Rule 62-296.600, Reasonably Available Control Technology (RACT) - Lead, F.A.C., since there is not a specific category for this source.

This project is not subject to the requirements of Rule 62-296.700, Reasonably Available Control Technology (RACT) – Particulate Matter, F.A.C., since the facility's allowable particulate matter emissions are less than 15 tons per year and 5 pounds per hour.

This project is subject to the requirements of Rule 62-204.800, Federal Regulations Adopted by Reference, F.A.C., since it is subject to 40 CFR60, Subpart Dc.

This project is subject to the requirements of Chapter 84-446, Laws of Florida and Chapter 1-3, Rules of the Environmental Protection Commission of Hillsborough County.

III. Summary of Emissions

All 3 Boilers (EU Nos. 001, 007, and 009)

Pollutant	Actual Emissions (tpy)	Potential Emissions (tpy)	Emissions Increase (tpy)
PM	1.7	2.3	0.6
SO₂	0.1	2.9	2.8
CO	18.3	25.2	6.9
NO_x	21.8	30	8.2
VOC	1.2	1.7	0.5

Actual Emissions based upon 2009 & 2010 AOR data.

IV. Conclusions:

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C., and Chapter 1-3, Rules of the Commission.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

V. Proposed Agency Action:

Pursuant to Section 403.087, Florida Statutes and Rule 62-4.070, Florida Administrative Code the Environmental Protection Commission of Hillsborough County hereby gives notice of its intent to issue a permit for construction of the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).

CERTIFIED MAIL

In the Matter of an
Application for Permit by:

Otis Singfield
Utilities Coordinator
University of South Florida
4202 East Fowler Avenue
Tampa, FL 33620

File No.: 0570480-012-AC
County: Hillsborough

INTENT TO ISSUE

The Environmental Protection Commission of Hillsborough County (EPC), as delegated by the Florida Department of Environmental Protection (DEP) gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, the University of South Florida, applied on March 2, 2012 to the EPC for a construction permit to install of a new 54 MMBtu/hr Natural Gas-fired English Boiler and Tube, Inc. Model No. 45-Os-250 Boiler (Boiler No. 7) as a replacement for Boiler No. 3 at the University of South Florida located at 4202 East Fowler Avenue, Tampa, FL 33620. The initial Draft was issued on March 14, 2012, with comments from the facility received on April 3 and 6, 2012 requesting that the name of the boiler be changed from a 55 MMBtu/hr Natural Gas/No. 2 Fuel Oil Cleaver Brooks to a 54 MMBtu/hr Natural Gas English Boiler and Tube Inc. The facility's operations are currently permitted under Operating Permit 0570480-011-AO, which includes the operation of two (2) English Boilers rated at 54 MMBtu/hr (Boiler No. 6 - EU No. 007) and 57 MMBtu/hr (Boiler No. 5 - EU No. 001), and a 56 MMBtu/hr Union Iron Boiler (Boiler No. 3 - EU No. 003). The facility is a Synthetic Non-Title V air emissions source. PM and SO₂ emissions are controlled through limitations on fuel usage, and the application of Best Available Control Technology (BACT), which is the firing of natural gas as a primary fuel, and the burning of solid or liquid fuels only during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuels for less than 48 hours during any calendar year. The facility is located at 4202 East Fowler Avenue, Tampa, FL, Hillsborough County, FL, 33620.

The EPC has permitting jurisdiction under Chapter 403 Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4 and 62-210. The project is not exempt from permitting procedures. The EPC has determined that an air pollution construction permit is required to commence or continue operations at the described facility.

The EPC intends to issue this permit based on the belief that reasonable assurances have been provided to indicate that operation of the source will comply with the appropriate provisions of Florida Administrative Code (F.A.C.) Chapters 62-204 through 62-297 and 62-4. Pursuant to Section 403.815 and 403.0872, F.S. and Rules 62-103.150 and 62-210.350(3), F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time as soon as possible, in the legal advertisement section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the EPC at the address or telephone number listed below. **The applicant shall provide proof of publication to the EPC, Air Permitting Section, at 3629 Queen Palm Drive, Tampa, Florida 33619 (Phone 813-627-2600 - FAX 813-627-2660) within 7 (seven) days of publication.** Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit pursuant to Rule 62-103.150(6), F.A.C.

The EPC will issue the final permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Section 120.569 and 120.57 F.S. before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under 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 permit applicant or any of the parties listed below must be filed within 14 (fourteen) days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), however, any person who asked the EPC for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall 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 EPC'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 and the name, address, and telephone number of each petitioner's representative, if any, which shall be the address for service purposes during the course of the proceedings; and an explanation of how the petitioner's substantial interests will be affected by the EPC's determination;

- (c) A statement of how and when the petitioner received notice of the EPC 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, including the specific facts the petitioner contends warrant reversal or modification of the EPC's proposed action;
- (f) A statement of specific rules or statutes the petitioner contends requires reversal or modification of the EPC's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the EPC to take with respect to the EPC's proposed action.

A petition that does not dispute the material facts upon which the EPC'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 EPC's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the EPC on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573, F.S. is not available in this proceeding.

This action is final and effective on the date filed with the Clerk of the EPC unless a petition is filed in accordance with above. Upon the timely filing of a petition, this order will not be effective until further order of the EPC.

In addition to the above, a person subject to regulation has a right to apply to the Department of Environmental Protection for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542, F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, FL 32399-3000. The petition must specify the following information:

- (a) The name, address, and telephone number of the petitioner,
- (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any,
- (c) Each rule or portion of a rule from which a variance or waiver is requested,
- (d) The citation to the statute underlying (implemented by) the rule identified in (c) above,
- (e) The type of action requested,
- (f) The specific facts that would justify a variance or waiver for the petitioner,

(g) The reason by the variance or waiver would serve the purposes of the underlying statute (implemented by the rule), and

(h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of the those terms is defined in Section 120.542(2), F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of United States Environmental Protection Agency and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Any person listed below may request to obtain additional information, a copy of the application (except for information entitled to confidential treatment pursuant to Section 403.111, F.S.), all relevant supporting materials, and all other materials available to the EPC that are relevant to the permit decision. Interested persons may contact Sterlin K. Woodard, P.E., at the above address or call (813) 627-2600, for additional information.

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 EPC's Legal Office at 3629 Queen Palm Dr., Tampa, Florida 33619 and 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 thirty days after this order is filed with the clerk of the Department.

Executed in Tampa, Florida

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

Richard D. Garrity, Ph.D.
Executive Director

cc: Gerald Kissel, P.E. (via email)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on _____ to the listed persons.

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

Clerk

Date

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY
NOTICE OF INTENT TO ISSUE PERMIT

The Environmental Protection Commission of Hillsborough County (EPC), as delegated by the Florida Department of Environmental Protection (DEP), gives notice of its intent to issue an air pollution permit (Permit No. 0570480-012-AC) to the University of South Florida. The applicant applied on March 2, 2012 to the EPC for a construction permit to install of a new 54 MMBtu/hr Natural Gas-fired English Boiler and Tube, Inc. Model No. 45-Os-250 Boiler (Boiler No. 7) as a replacement for Boiler No. 3 at the University of South Florida located at 4202 East Fowler Avenue, Tampa, FL 33620. The initial Draft was issued on March 14, 2012, with comments from the facility received on April 3 and 6, 2012 requesting that the name of the boiler be changed from a 55 MMBtu/hr Natural Gas/No. 2 Fuel Oil Cleaver Brooks to a 54 MMBtu/hr Natural Gas English Boiler and Tube Inc. The facility's operations are currently permitted under Operating Permit 0570480-011-AO, which includes the operation of two (2) English Boilers rated at 54 MMBtu/hr (Boiler No. 6 - EU No. 007) and 57 MMBtu/hr (Boiler No. 5 - EU No. 001), and a 56 MMBtu/hr Union Iron Boiler (Boiler No. 3 - EU No. 003). The facility is a Synthetic Non-Title V air emissions source. PM and SO₂ emissions are controlled through limitations on fuel usage, and the application of Best Available Control Technology (BACT), which is the firing of natural gas as a primary fuel, and the burning of solid or liquid fuels only during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuels for less than 48 hours during any calendar year. The facility is located at 4202 East Fowler Avenue, Tampa, FL, Hillsborough County, FL, 33620.

A Best Available Control Technology (BACT) determination was required.

The EPC will issue the Final permit with the conditions of the DRAFT permit unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57, F.S. before the deadline for filing a petition. The procedures for petitioning for hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under 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 permit applicant or any of the parties listed below must be filed within 14 (fourteen) days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), however, any person who asked the EPC for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall 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 of the F.A.C.

A petition that disputes the material facts on which the EPC'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, and the name, address, and telephone number of each petitioner's representative, if any, which shall be the address for service purposes during the course of the proceedings; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of how and when petitioner received notice of the EPC 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, including the specific facts the petitioner contends warrant reversal or modification of the EPC proposed action;

(f) A statement of specific rules or statutes the petitioner contends requires reversal or modification of the EPC's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the EPC to take with respect to the EPC's proposed action.

A petition that does not dispute the material facts upon which the EPC'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.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the EPC's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the EPC on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573, F.S. is not available in this proceeding.

This action is final and effective on the date filed with the Clerk of the EPC unless a petition is filed in accordance with above. Upon the timely filing of a petition this order will not be effective until further order of the EPC.

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 EPC's Legal Office at 3629 Queen Palm Drive, Tampa, Florida 33619 and 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 thirty days after this order is filed with the clerk of the Department.

The complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Environmental Protection Commission of Hillsborough County, 3629 Queen Palm Drive, Tampa, Florida 33619. The complete project file includes the proposed Permit, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Sterlin K.

Woodard, P.E., at the above address, or call 813-627-2600, for additional information. Any written comments filed shall be available for public inspection. If written comments received result in a significant change in the proposed agency action, the EPC shall revise the proposed permit and require, if applicable, another Public Notice.

ENVIRONMENTAL PROTECTION COMMISSION OF
HILLSBOROUGH COUNTY, as Delegated by

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF PERMIT

Otis Singfield
Utilities Coordinator
University of South Florida
4202 East Fowler Avenue
Tampa, Fl 33620

Dear Mr. Singfield:

Re: Hillsborough County - AP

Enclosed is Permit No. 0570480-012-AC to construct Natural Gas-fired English Boiler and Tube, Inc. Model No. 45-Os-250 Boiler (Boiler No. 7) as a replacement for Boiler No. 3 at the University of South Florida located at 4202 East Fowler Avenue, Tampa, FL 33620. This permit is issued pursuant to Section 403.087, Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the EPC in the Legal Department at 3629 Queen Palm Dr, Tampa, FL 33619; 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 of Appeal must be filed within 30 days from the date this Notice is filed with the clerk of the EPC.

Executed in Tampa, Florida.

Sincerely,

Richard D. Garrity, Ph.D.
Executive Director

RDG/KRZ/krz

cc: Gerald Kissel, P.E. (via email)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on _____ to the listed persons.

Clerk Stamp

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

Clerk

Date

PERMITTEE:
University of South Florida
4202 East Fowler Avenue
Tampa, FL 33620

PERMIT/CERTIFICATION
Permit No.: 0570480-012-AC
County: Hillsborough
Expiration Date: March 14, 2013
Project: Construction of a New 54 MMBtu/hr English
Boiler and Tube Inc. Boiler No. 7

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 62-204, 62-210, 62-212, 62-296, 62-297, and 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the EPC and made a part hereof and specifically described as follows:

This project authorizes the construction of a new 54 MMBtu/hr Natural Gas-fired English Boiler and Tube, Inc. Model No. 45-Os-250 Boiler (Boiler No. 7) as a replacement for Boiler No. 3 at the University of South Florida located at 4202 East Fowler Avenue, Tampa, FL 33620. The facility's operations are currently permitted under Operating Permit 0570480-011-AO, which includes the operation of two (2) English Boilers rated at 54 MMBtu/hr (Boiler No. 6 - EU No. 007) and 57 MMBtu/hr (Boiler No. 5 - EU No. 001), and a 56 MMBtu/hr Union Iron Boiler (Boiler No. 3 - EU No. 003).

The new Boiler No. 7 is subject to the 20% opacity standard Rule 62-296.406(1), F.A.C. Although it is subject to NSPS 40 CFR, Subpart Dc, it is only subject to the recordkeeping requirements of 60.48c(a) and (c) because it only burns natural gas. On the other hand, pursuant to Rule 62-296.406(2) and (3), F.A.C., the facility is required to control PM and SO₂ emissions through the application of Best Available Control Technology (BACT), which is the firing of natural gas.. The combined maximum heat input for all three (3) boilers will be 165 MMBtu/hr. Based upon the maximum heat input rate, the maximum natural gas usage for all three boilers is 1,445 10⁶ ft³/yr, while the maximum No. 2 Fuel Oil usage is around 7,097,518 gal/yr. However, the facility has requested that the maximum permitted natural gas and fuel oil usage has been remains unchanged and is limited to 600 x 10⁶ ft³/yr for all three boilers, and 804,600 gal/yr. for Boiler Nos. 5 and 6. This establishes a combined NO_x, CO, SO₂, PM, and VOC PTE of 30 tpy, 25.2 tpy, 2.9 tpy, and 2.3 tpy, 1.7 tpy.

Total HAP emissions are less than 10 tpy, but the facility is not subject to the Area Source Boiler MACT of 40 CFR 63, Subpart JJJJJ, since Gas-fired boilers are exempt pursuant to 40 CFR 63.11195(e), and only burn solid or liquid fuels during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuels for less than 48 hours during any calendar year.

Location: 4202 East Fowler Avenue, Tampa, FL 33620

UTM: 17-360.8 E 3104.8 N

Facility ID No.: 0570480

Point IDs:

EU No. ID	Boiler ID	Description	Capacity (MMBtu/hr)
001	No. 5	Steam Boiler- (East Most Stack)	57
007	No. 6	Steam Boiler- (West Most Stack)	54
003 (To be Replaced)	No. 3*	Steam Boiler- (East Most Stack)	56
009 (New Replacement Boiler)	No. 7*	Steam Boiler- (East Most Stack)	54

*Boiler No. 3 will vent to the East Most Stack until start-up of Boiler No. 7 when it will be shutdown.

References Permit No.: 0570480-011-AO

PERMITTEE:
University of South Florida

PERMIT/CERTIFICATION NO.: 0570480-012-AC
PROJECT: Construction of a New 54 MMBtu/hr English Boiler
and Tube Inc. Boiler No. 7

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions. [Rule 62-4.160, F.A.C.]
2. All applicable rules of the Environmental Protection Commission of Hillsborough County including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction. [Rule 62-4.070(7), F.A.C.]
3. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C., or any other requirements under federal, state, or local law. [Rule 62-210.300, F.A.C.]
4. The amount of particulate matter and sulfur dioxide emissions from the boilers shall be limited by the firing of natural gas or No. 2 Fuel Oil as a back-up. The No. 2 Fuel Oil shall have a maximum sulfur content not to exceed 0.05 percent by weight. [Rule 62-296.406, F.A.C., 40 CFR 60.42c(d), Construction Permit Application dated March 2, 2012, and BACT Determination dated March 13, 2012]
5. Visible emissions from the boilers shall not exceed a density of 20% opacity except for one six-minute period per hour which opacity shall not exceed 27%. [Rule 62-296.406(1), F.A.C.]
6. 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 10 tons in any 12 consecutive month period for any individual HAP, and less than 25 tons in any 12 consecutive month period for any combination of HAPs. [Rule 62-4.070(3), 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. To ensure compliance with Specific Condition Nos. 4 and 5, the following restrictions and limitations shall apply for any consecutive twelve month period:
[Rule 62-4.070(3), F.A.C. and Permit Nos. 0570480-009-AC and 0570480-010-AO]

A) Boilers (EU Nos. 001, 007, and 009) shall have the following maximum annual usage rates:

Natural Gas	165 MMBtu/hr	600 MMCF
No. 2 Fuel Oil	165 MMBtu/hr	802,460 gallons

The annual usage rate means the total fuel utilized by Emission Unit Nos. 001, 007, and 009 during the past twelve months.

B) Hours of operation are not restricted.

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C) All products of combustion must be vented through the stack

9. Test Boiler No. 5 and Boiler No. 6 for visible emissions annually between October 1 and September 30 (once per federal fiscal year) with a target date of March 15 of each year. After Boiler No. 3 has been shutdown, test Boiler No. 7 for visible emissions within 30 days after startup and annually thereafter. Since Boiler No. 5 and Boiler No. 7 both utilize the East Most Stack, the visible emissions test may be performed simultaneously provided Specific Condition No. 11 is met for EU No. 001 and EU No. 009. Submit two (2) copies of test data to the Air Compliance Section of the Environmental Protection Commission of Hillsborough County within 45 days of such testing. Testing procedures shall be consistent with the requirements of 40 CFR 60 and Rule 62-297, F.A.C.

10. Compliance with Specific Condition No. 4 shall be demonstrated by either of the following:

- A) 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 Method D 975 [Rule 62-297.440, F.A.C.]

11. 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 rated capacity. If it is impracticable to test at capacity, then the boiler may be tested at less than capacity; in this case subsequent operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. The permittee shall submit a statement of the operating mode as part of the compliance test. Failure to submit an operation mode statement or operating at conditions which do not reflect the normal operating conditions may invalidate the data. [Rules 62-4.070(3) and 62-297.310(2)(b), F.A.C.]

12. The annual visible emissions test shall be conducted while the boiler is running on No. 2 Fuel Oil, if the specific boiler has burned diesel oil for more than 400 hours in the previous 12 months, otherwise it shall be conducted while burning natural gas. EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. shall be used to test for compliance. Test results must include the sulfur content of the fuel if No. 2 Fuel Oil is burned. The EPA Method 9 test shall be at least 60 minutes in duration. 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 62-4.070(3) and 62-297.310(7)(a)3, F.A.C.]

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13. In order to demonstrate compliance with Specific Condition Nos. 8.A) and 12, the permittee shall:
[Rule 62-4.070(3), F.A.C. and Permit No. 0570480-009-AC]
 - A) Maintain the existing fuel flow meters in good operating condition.
 - B) Maintain No. 2 Fuel Oil usage records on-site for the most recent 24 months. At a minimum the records shall contain the following:
 - a. The date and duration of all periods where No. 2 Fuel Oil is combusted by EU Nos. 001, 007, or 009.
 - b. Based upon Specific Condition No. 13.B).a. above, maintain a monthly summary and rolling twelve month totals for the hours of operation in which No. 2 Fuel Oil is burned.

14. The permittee shall comply with the following requirements for Boiler Nos. 5, 6, and 7:
[Rule 62-204.800, F.A.C.]
 - A) University of South Florida shall 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 §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 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

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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)]
- 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]

15. The permittee shall notify the Air Compliance Section of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the contact person who will be responsible for coordinating and having such test conducted. [Rule 62-4.070(3) and 62-297.310(7)(a)9., F.A.C]

16. Compliance with the emission limitations of Specific Condition No. 5 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. 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.

17. In order to demonstrate compliance with Specific Condition Nos. 8 and 10, the permittee shall maintain fuel usage records for the emission units specified in Specific Condition 8A) and copies of certificates of fuel oil analysis. The records shall be maintained on-site for the most recent 24 months. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state, or federal air pollution agency upon request. The records shall include, but are not limited to, the following:

- A) Month & Year
- B) Monthly summary of the natural gas* and fuel oil usage
- C) Rolling (12) month total of the natural gas and fuel oil usage

*The Permittee must describe the necessary assumptions made to estimate the natural gas usage. [Rule 62-4.070(3), F.A.C.]

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18. Submit to the Environmental Protection Commission of Hillsborough County each calendar year on or before April 1 for EU Nos. 001, 007, and 009, completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", for the preceding calendar year. [Rule 62-210.370(3), F.A.C.]

19. 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, 62-296, 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(7)(b), F.A.C.]

20. 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.]

21. 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.

22. Appendix A is part of this permit. It lists miscellaneous emission points such as small steam generators, hot water heaters, burners used in laboratories and other places. All of these emission points are fired on natural gas, and considered insignificant emission units and exempt from permitting. These points are not required to have individual gas meters or monthly recordkeeping.

23. 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.

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[Rule 62-4.120, F.A.C.]

24. A minimum of two copies of an application for an Air Permit – Non-Title V Source, DEP Form No. 62-210.900(3), to incorporate this construction permit into Operating Permit No. 0570480-011-AO, along with completion of compliance testing shall be submitted to the Environmental Protection Commission of Hillsborough County after completion of the construction, or at least 60 days prior to the expiration date of this permit, whichever occurs first. [Rules 62-4.050(2) and 62-4.220, F.A.C.]

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

Richard D. Garrity, Ph.D.
Executive Director

P.E. Certification Statement

Permittee:

University of South Florida

Project Type: Air Construction

DRAFT Permit No.: 0570480-012-AC

Facility ID No.: 0570480

I HEREBY CERTIFY that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).

(Seal)

Sterlin K. Woodard, P.E.
Registration No.: 52809

Date

Permitting Authority:
Environmental Protection Commission
of Hillsborough County
Air Management Division
3629 Queen Palm Dr
Tampa, FL 33619
Telephone: (813) 627-2600
Fax: (813) 627-2660