ENVIRONMENTAL PROTECTION COMMISSION OF
HILLSBOROUGH COUNTY, as Delegated by

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Chris Fleischer
Manager Utilities Department
University of South Florida
4202 East Fowler Avenue – OPM 100
Tampa, FL 33620
_____/

File No.: 0570480-013-AO
County: Hillsborough

Enclosed is Renewal Operating Permit Number 0570480-013-AO for the operation of three (3) boilers at the University of South Florida (USF) located at 4202 East Fowler Avenue, Tampa, FL 33620. Please read this new permit thoroughly as there are changes from the previous permit.

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 receipt of this permit. 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 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; 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. 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 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 Diana M. Lee, 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 Statues, 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.

Executed in Tampa, Florida

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

_____
Richard D. Garrity, Ph.D.
Executive Director

RDG/KRZ/krz

cc: E. J. LeBoss - Air Observations, Inc. (via email)
Jerry 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

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

PERMIT/CERTIFICATION
Permit No.: 0570480-013-AO
County: Hillsborough
Expiration Date: September 12, 2017
Project: Operation of (3) Boilers

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 permit authorizes the operation of three (3) boilers; English Boiler No. 5 (Serial No. 93-170) with a rated capacity of 57 MMBtu/hr, English Boiler No. 6 (Model No. 45-D-350, Serial No. 21-029) with a rated capacity of 54 MMBtu/hr, and English and Tube, Inc. Boiler No. 7 (Model No. 45-OS-250, Serial No. 31-029) with a rated capacity of 54 MMBtu/hr.

Boiler Nos. 5 and 6 are fired on natural gas as a primary fuel, and on No. 2 fuel oil as a backup, which should contain less than 0.05% sulfur by weight. Boiler No. 7 is fired on natural gas exclusively. All three boilers are subject to the 20% opacity standard in accordance with Rule 62-296.406(1), F.A.C. Boiler No. 7 is only subject to the recordkeeping requirements of 60.48c(a) and (c) of 40 CFR 60, Subpart Dc. Emissions are controlled by limiting the fuel usage and the use of low sulfur content in the fuel, as well as the firing of natural gas through the application of Best Available Control Technology (BACT).

This facility is an area source of HAP emissions, and is subject to the requirements of 40 CFR 63, Subpart JJJJJJ (*Industrial, Commercial and Institutional Boilers and Process Heaters - Area Sources*), however, the State of Florida has not adopted this regulation.

Location: 4202 East Fowler Avenue, Tampa, FL 33620

UTM: 17-360.8 E 3104.8 N Facility ID No.: 0570480

Emission Unit (EU) 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
009	No. 7	Steam Boiler (East Most Stack)	54

References Permit No.: 0570480-012-AC
Replace Permit No.: 0570480-011-AO

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), Permit No. 0570480-012-AC, and BACT Determination dated March 13, 2012]

5. Visible emissions from the (3) 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. 0570480-012-AC and 0570480-011-AO]

A) Boiler Nos. 5, 6 and 7 (EU 001, 007 and 009) shall comply with the following limitations:

Fuel Type	**Maximum Heat Input Rate**	**Maximum Annual Fuel Usage**
Natural Gas	165 MMBtu/hr	600 MMCF
No. 2 Fuel Oil	165 MMBtu/hr	802,460 gallons

B) Hours of operation are not restricted.
C) All products of combustion must be vented through the stacks.

SPECIFIC CONDITIONS:

9. Test all three boilers for visible emissions annually during each federal fiscal year (October 1 through September 30), with a target date of August 17th. Since EU 001 and 009 both utilize the East Most Stack, the visible emissions test may be performed simultaneously provided Specific Condition No. 11 is met for Boiler Nos. 5 and 7. 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: [Rule 62-4.070(3) and 62-297.440, F.A.C.]

A) A Certificate of Fuel Oil Analysis* from a fuel oil vendor or a vendor shipment receipt (bill of lading) showing delivery or 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

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 either of the Boiler Nos. 5 and 7 have 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), 62-297.310(7)(a)3, F.A.C. and Permit No. 0570480-012AC]

13. In order to demonstrate compliance with Specific Condition Nos. 8.A) and 12, the permittee shall: [Rule 62-4.070(3), 62-4.160(14)(b), F.A.C. and Permit No. 0570480-012-AC]

A) Maintain the existing fuel flow meters in good operating condition.

SPECIFIC CONDITIONS:

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 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 EU 001, 007 and 009: [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 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

SPECIFIC CONDITIONS:

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 No. 8, the permittee shall maintain monthly records of operation. Records shall be kept onsite for three years and shall be made available to any local, state or federal air pollution agency upon request. At a minimum the records shall include, but not be limited to, the following: [Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.]

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.

18. Submit to the Environmental Protection Commission of Hillsborough County each calendar year on or before April 1 for EU 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.]

SPECIFIC CONDITIONS:

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

24. Prior to 60 days before the expiration of this operating permit, the permittee shall apply for a renewal of the permit using the current version of the permit renewal application form and submit the most recent 3 months of records required by this permit. If the application is submitted prior to sixty days before the 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 EPC. [Rules 62-4.090, F.A.C. and 62-4.070(3), F.A.C.]

SPECIFIC CONDITIONS:

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

_____

Richard D. Garrity, Ph.D.
Executive Director

APPENDIX A – Sources Exempted from Permitting
Attachment to Permit No. 0570480-013-AO

ID	Site	Type	Make	Model/S.N.	MMBtu/hr	Installed	Fuel Type
07	CPH	Steam Boiler	Kewanee	Nav	1.67	1991	NG
11	CPH	Hot Water Heater	Lochinvar	GF8799205	0.20	1991	NG
12	CPH	Hot Water Heater	Lochinvar	GF8757668	0.20	1991	NG
13	ENF	Hot Water Heater	National	209-6	0.40	1993	NG
14	BSF	Hot Water Heater	AO Smith	BTP-140-720	0.72	2000	NG
15	BSF	Hot Water Heater	AO Smith	BTP-140-720	0.72	2000	NG
31	MDC	Steam Boiler	NA	NA	1.80	1996	NG
32	MDC	Steam Boiler	NA	Nav	1.80	1996	NG
33	RAR	Steam Boiler	Lattner	20HRT	0.84	2002	NG
34	MDT	Hot Water Heater	NA	140V250	1.4	2002	NG
35	MDT	Hot Water Heater	NA	140G125AG	0.4	1985	NG
36	RAN	Hot Water Heater	Raypack	W-403	0.4	2001	NG
37	Psych	Steam Boiler	Hurst	4VT-6-40-150	1.67	2001	NG
39	Psych	Hot Water Heater	Lochinvar	EPN300-100	0.3	2001	NG
40	ATH	Hot Water Boiler	Lochinvar	1261PM-M9	1.26	2004	NG
41	CMS	Hot Water Boiler	Raypack	H3-0902	0.9	2005	NG
42	MDU	Hot Water Boiler	Lochinvar	AWN500PM-M9	0.5	2007	NG
43	MDU	Hot Water Boiler	Lochinvar	AWN500PM-M9	0.5	2007	NG
44	MDU	Hot Water Boiler	Lochinvar	AWN500PM-M9	0.5	2007	NG
45	MDU	Hot Water Boiler	Rheem	HE-119-199	0.199	2008	NG
46	MDU	Hot Water Boiler	Rheem	HE-119-199	0.199	2008	NG
47	MDU	Hot Water Boiler	Rheem	HE-119-199	0.199	2008	NG
48	MDU	Hot Water Boiler	Rheem	HE-119-199	0.199	2008	NG
49	MAG	Hot Water Heater	Lochinvar	KBN210-M9	0.21	2009	NG
50	MAG	Hot Water Heater	Lochinvar	KBN210-M9	0.21	2009	NG
51	MAG	Hot Water Heater	Lochinvar	PBN2001-M9	2.0	2009	NG
52	MAG	Hot Water Heater	Lochinvar	PBN2001-M9	2.0	2009	NG
53	MAG	Hot Water Heater	Lochinvar	PBN2001-M9	2.0	2009	NG
54	MAG	Hot Water Heater	Lochinvar	PBN2001-M9	2.0	2009	NG
55	MAG	Hot Water Heater	Lochinvar	CFN1441PM-M9	1.44	2009	NG
56	MAG	Hot Water Heater	Lochinvar	CFN1441PM-M9	1.44	2009	NG
57	MAG	Hot Water Heater	Lochinvar	TNR200-100	0.2	2009	NG
58	MAG	Hot Water Heater	Lochinvar	TNR200-100	0.2	2009	NG
59	DIN	Hot Water Boiler		GHE100-200	0.19	2011	NG
60	DIN	Hot Water Boiler		GHE100-200	0.19	2011	NG
61	SUN	Hot Water Boiler		PHW-2000	2.0	2011	NG
62	SUN	Hot Water Boiler		PHW-2000	2.0	2011	NG
63		Hot Water Boiler	Unilux		9.3	2011	NG

Revision August 2011 (Permit Determination 8/24/11)