

MEMORANDUM

DATE: September 18, 2012

TO: Richard D. Garrity, Ph.D.

FROM: Jeff Sims **THRU:** Diana M. Lee, P.E.

SUBJECT: DRAFT Construction Permit – Florida Health Sciences Center, Inc. (Tampa General Hospital)

Attached is DRAFT Permit No. 0570041-013-AC being issued to Florida Health Sciences Center, Inc. (Tampa General Hospital) for the correction of boiler specifications of two existing steam boilers at the hospital located on Davis Island at 1 Tampa General Circle, Tampa, FL 33606.

The hospital currently operates 3 natural gas-fired boilers on the site permitted under Permit No. 0570041-011-AO in order to provide steam for energy needs within the complex. The boilers are fired primarily on natural gas, and also with No. 2 diesel oil as a backup fuel. The No. 2 diesel oil has a maximum sulfur content limit of 0.05% by weight. During the review of the renewal permit application received on July 9, 2012, including a site inspection of the facility on July 26, 2012, it was noted that the two York Shipley boilers (EU004 and EU005) had different model numbers and higher burner ratings than currently identified in the operating permit.

The permittee was issued a Warning Notice (WN #2012-0190A) on August 27, 2012 to address the model number and burner rating discrepancies, and was asked to provide details on the accurate boiler specifications and why they varied from the units identified in the original construction permits. On September 11, 2012, the permittee responded with the requested information. According to their response, both of the boilers that were installed were consistent with those that were referenced in the construction permit applications; however, the model numbers used in the application were more generic descriptions. The actual units installed had the same capacities and specifications, but the model numbers were more specific and included more details of the boilers. The burner sizes are actually the same as identified in the original applications. However, the initial applications erroneously referenced 16.74 MMBtu/hr as the maximum heat inputs, when in fact that value reflected the boilers ratings based on output. The maximum burner ratings based on heat input was 21.0 MMBtu/hr based on the appendices of the applications. The permittee did not

realize that the permit reflected different model boilers until informed during the permit renewal review.

Based on their response and on the actual nameplate data from the boilers and burners, this permit is being issued to correct the model numbers from “588-SPH-500-N2” to “588-SPH-500” for EU004 and from “588-SPH-500-N/G” to “588C-S3D-500-S150” for EU005. The maximum heat input rating for both EU004 and EU005 was also corrected from 16.74 MMBtu/hr to 21.0 MMBtu/hr.

Emissions are controlled by the use of Best Available Control Technology (BACT) fuels as required by Rule 62-296.406, F.A.C. Particulate matter and sulfur dioxide emissions are limited by the fuel consumption rate and by a sulfur content limit of 0.05% by weight in the diesel oil, and these requirements are included in the permit.

This permit is being issued concurrently with the renewal operating permit, Permit No. 0570041-012-AO. Since the boilers have already been installed and all initial and annual visible emission testing have been performed and demonstrated compliance, the renewed operating permit incorporates this construction permit, and no new testing is required in this construction permit. The facility is required to conduct annual VE tests, which they consistently have performed and have demonstrated compliance.

As in the previous construction permits for these boilers, the emissions are based on a maximum fuel consumption of 145 mmcf of natural gas and 60,000 gallons of diesel oil per year per boiler. However, during discussions with the permittee as part of the permit renewal review process, it was requested that the existing limitations on fuel usage per boiler be amended since they are all fed from a single fuel line and deriving the usage per boiler based on operation records is somewhat difficult and burdensome. Since the emission calculations for all boilers were calculated using the same emission factors based on the combustion of fuel, the limitations on fuel usage and related recordkeeping requirements in this permit are based on a combined limit for the boilers.

Based on our review, we recommend approval of the above referenced permit.

JDS: 0570041-013-AC

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION
FOR

Florida Health Sciences Center, Inc.

Hillsborough County

Construction Permit

Application Number

0570041-013-AC

Environmental Protection Commission of

Hillsborough County

Tampa, FL

September 18, 2012

I. Project Description

A. Applicant:

Oslec Fernandez
Administrator of Facilities
Florida Health Sciences Center, Inc. (Tampa General Hospital)
P.O. Box 1289
Tampa, FL 33601

B. Engineer:

Cory A. Houchin, P.E.
P.E. No.: 58064
Environmental Sciences Group, Inc.
P.O. Box 7495
Tampa, FL 33673

C. Project and Location:

This project is being issued to Florida Health Sciences Center, Inc. (Tampa General Hospital) for the correction of boiler specifications of two existing steam boilers at the hospital. The project has been assigned the following NEDS Source Classification Codes (SCC):

SCC No.

1-02-006-02 – External Combustion, Industrial Boilers, Natural Gas Fuel

1-02-005-02 – External Combustion, Industrial Boilers, No. 2 Diesel Oil Fuel

The facility has been assigned SIC Industry No. 80 – Health Services. The project is located at 1 Tampa General Circle, Davis Island, Tampa, FL 33606. UTM Coordinates of the location are 17-356.40E 3091.00N.

D. Process and Controls:

The hospital currently operates 3 natural gas-fired boilers on the site permitted under Permit No. 0570041-011-AO in order to provide steam for energy needs within the complex. The boilers are fired primarily on natural gas, and also with No. 2 diesel oil as a backup fuel. The No. 2 diesel oil has a maximum sulfur content of 0.05% by weight.

During the review of the renewal permit application received on July 9, 2012, including a site inspection of the facility on July 26, 2012, it was noted that the two York Shipley boilers (EU004 and EU005) had different model numbers and higher burner ratings than currently identified in the operating permit. Based on correspondence provided by the permittee in response to this issue, it was stated that both of the boilers that were installed were consistent with those that were referenced in the original construction permit applications; however, the model numbers used in the application were more generic descriptions. The actual units

installed had the same capacities and specifications, but the model numbers were more specific and included more details of the boilers. The burner sizes are actually the same as identified in the original applications. However, the initial applications erroneously referenced 16.74 MMBtu/hr as the maximum heat inputs, when in fact that value reflected the boilers ratings based on output. The maximum burner ratings based on heat input was 21.0 MMBtu/hr based on the appendices of the applications. The permittee did not realize that the permit reflected different model boilers until informed during the permit renewal review.

Based on the response from the permittee and on the actual nameplate data from the boilers and burners, this construction permit is being issued to correct the model numbers from “588-SPH-500-N2” to “588-SPH-500” for EU004 and from “588-SPH-500-N/G” to “588C-S3D-500-S150” for EU005. The maximum heat input rating for both EU004 and EU005 has also been corrected from 16.74 MMBtu/hr to 21.0 MMBtu/hr.

Emissions are controlled by the use of Best Available Control Technology (BACT) fuels as required by Rule 62-296.406, F.A.C. Particulate matter and sulfur dioxide emissions are limited by the fuel consumption rate and by a sulfur content limit of 0.05% by weight in the diesel oil, and these requirements are included in the permit.

As in the previous construction permits for these boilers, the emissions are based on a maximum fuel consumption of 145 mmcf of natural gas and 60,000 gallons of diesel oil per year per boiler. However, at the request of the applicant, the limitations on fuel usage and related recordkeeping requirements in this permit are based on a combined limit for the boilers rather than individually, except for the recording of hours of operation per boiler while firing on diesel oil.

This permit is being issued concurrently with the renewal operating permit, Permit No. 0570041-012-AO. Since the boilers have already been installed and all initial and annual visible emission testing have been performed and demonstrated compliance, the renewed operating permit will incorporate this construction permit, and no new testing is required in this construction permit. The facility is required to conduct annual VE tests, which they consistently have performed and have demonstrated compliance.

E. Application Information:

Received on: September 11, 2012

Information Requested: N/A

Application Complete: September 11, 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 not exempt from the permit requirements in Rule 62-210.300, F.A.C.

This project is subject to the requirements of Rule 62-296.320, General Pollutant Emission Limiting Standards, F.A.C., since the project emits particulate matter and has the potential to emit 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 an applicable source specific category in this rule, 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.

This project is not subject to the requirements of Rule 62-296.500, Volatile Organic Compounds and Nitrogen Oxide Reasonably Available Control Technology, F.A.C., since there is no applicable source specific category in this rule.

This project is not subject to the requirements of Rule 62-296.600, Lead Reasonably Available Control Technology, F.A.C., since there is no applicable source specific category in this rule.

This project is not subject to the requirements of Rule 62-296.700, Particulate Matter Reasonably Available Control Technology, F.A.C., since the emission levels from the facility are below the exempt level in Rule 62-296.700(2)(a), F.A.C. Pursuant to Rule 62-296.700(2)(a), F.A.C., this project is not subject to Rule 62-296.702, F.A.C. - Fossil Fuel Steam Generators.

This project is subject to the requirements of Rule 62-204.800 Standards of Performance for New Stationary Sources, Federal Regulations Adopted by Reference, F.A.C., since there is an applicable source specific category in this rule - 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

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

Summary for EU004 and EU005 Combined

<u>Regulated Pollutant</u>	<u>Potential Emissions</u>	<u>Actual Emissions</u>	<u>Allowable Emissions</u>
	(ton/yr)	(ton/yr)	
VOC	0.8	0.04	n/a
NOx	15.7	0.6	n/a
CO	12.5	0.4	n/a
SOx	0.5	0.004	0.05% sulfur in fuel oil
PM	1.2	0.05	n/a
VE			20% (40% up to 6 min/hr)

The current actual emissions were based on an average of totals submitted in the AORs from 2010 and 2011. The potential emissions were based on a combined maximum fuel usage of 290 mmcf for natural gas and 120,000 gallons for diesel oil per year for the 2 boilers. Inventory of Title III pollutants is estimated to be less than 10 TPY individually and less than 25 TPY collectively.

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 after-the-fact 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:

File No.: 0570041-013-AC
County: Hillsborough

Oslec Fernandez
Administrator of Facilities
Tampa General Hospital
P.O. Box 1289
Tampa, FL 33601

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, Florida Health Sciences Center, Inc. (Tampa General Hospital), applied on September 11, 2012, to the EPC for a construction permit to correct the boiler specifications of two existing steam boilers at the hospital located at 1 Tampa General Circle, Tampa, Hillsborough County.

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 Dr., 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 Dr, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2660. 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 that 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,
- (h) The citation to the statute underlying (implemented by) the rule identified in (c) above,
- (i) 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 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 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: Florida Department of Environmental Protection (via email)
Cory Houchin, P.E. – Environmental Sciences Group, Inc. (via email)

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 air pollution Permit No. 0570041-013-AC to Florida Health Sciences Center, Inc. (Tampa General Hospital) for the correction of boiler specifications of two existing steam boilers at the hospital. The boilers are fired primarily on natural gas, and also with No. 2 diesel oil as a backup fuel. The No. 2 diesel oil has a maximum sulfur content of 0.05% by weight. The maximum heat input rate is 21.0 MMBtu/hr for each boiler. The facility is located at 1 Tampa General Circle, Davis Island, Tampa, FL 33606.

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 Dr, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2660. 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; 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 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.

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 Dr., Tampa, FL 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 Diana M. Lee, 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

Oslec Fernandez
Administrator of Facilities
Florida Health Sciences Center, Inc. (Tampa General Hospital)
P.O. Box 1289
Tampa, FL 33601

Re: Hillsborough County - AP

Dear Mr. Fernandez:

Enclosed is Permit Number 0570041-013-AC for the correction of boiler specifications of two existing steam boilers at the hospital, 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/JDS/jds

cc: Florida Department of Environmental Protection (via email)
Cory Houchin, P.E. – Environmental Sciences Group (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:
Florida Health Sciences Center, Inc.
P.O. Box 1289
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No.: 0570041-013-AC
County: Hillsborough
Expiration Date: March 18, 2013
Project: Update Specifications of York Shipley 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 is being issued to update and correct the model numbers and burner ratings previously identified for two of the existing boilers at the hospital. This permit recognizes operation of the following two boilers:

Emission Unit	Manufacturer	Model	Power Rating (hp)	Maximum Heat Input (MMBtu/hr)	Facility Identification
004	York Shipley	588-SPH-500	500	21.0	Boiler No. 3
005	York Shipley	588C-S3D-500-S150	500	21.0	Boiler No. 2

The boilers are used to generate steam for the hospital. The boilers are fired primarily on natural gas, and also with No. 2 diesel oil as a backup fuel.

Emissions are controlled by the use of Best Available Control Technology (BACT) fuels as required by Rule 62-296.406, F.A.C. Particulate matter and sulfur dioxide emissions are limited by the fuel consumption rate and by a sulfur content limit of 0.05% by weight in the diesel oil.

The facility also has a 350 hp Kewanee boiler (Model No. NB-24916) that operates at the site and is not affected by this permit.

Location: 1 Tampa General Circle, Davis Island, Tampa, FL 33606

UTM: 17-356.40E 3091.00N

Facility ID No.: 0570041

Emission Unit Nos.:

004 - One 500 HP York Shipley Boiler, Model No. 588-SPH-500 (Boiler No. 3)

005 - One 500 HP York Shipley Boiler, Model No. 588C-S3D-500-S150 (Boiler No. 2)

Replaces Permit Nos.: 0570041-007-AC
0570041-009-AC

PERMITTEE:
Florida Health Sciences Center, Inc.

PERMIT/CERTIFICATION NO.: 0570041-013-AC
PROJECT: Update Specifications of York Shipley Boilers

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 maximum allowable particulate matter and sulfur dioxide emissions shall be limited by firing the boilers primarily on natural gas, and also No. 2 diesel oil as a backup fuel. The sulfur content of the No. 2 diesel oil may not exceed 0.05% by weight. [Rules 62-296.406 and 62-4.070(3), F.A.C.]
5. Visible emissions shall not exceed a density of 20% opacity except that a density of 40% opacity is allowed for not more than one two minute period per hour. [Rule 62-296.406(1), F.A.C.; Chapter 1-3.53.1.(d) of the Rules of the Environmental Protection Commission of Hillsborough County; and Permit Nos. 0570041-007-AC, and 009-AC]
6. The emission limitation in Specific Condition No. 5 shall apply at all times, except during periods of startup, shutdown, or malfunction. [40 CFR 60.43c(d)]
7. In order to maintain the facility as a synthetic minor source for Hazardous Air Pollutants (HAPs), the HAP emissions, as defined in Rule 62-210.200, F.A.C., shall be less than: [Rule 62-210.300, F.A.C.]
 - A) 10 tons of any individual HAP per 12 consecutive month period.
 - B) 25 tons for any combination of HAPs per 12 consecutive month period.
8. 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, F.A.C.]
9. In order to ensure compliance with the emission limitations in Specific Condition Nos. 4 and 5, the following restrictions and limitations shall apply for emission unit Nos. 004 and 005 for any consecutive twelve month period: [Rule 62-4.070(3), F.A.C.; and Permit Nos. 0570041-007-AC and 009-AC]
 - A) Fuel: Natural gas as the primary fuel, and No. 2 diesel oil with a sulfur content not to exceed 0.05% by weight as a backup fuel.
 - B) Maximum heat input per York Shipley boiler: 21.0 MMBtu/hr.
 - C) Hours of operation are not restricted.
 - D) The maximum fuel usage shall not exceed the limit specified in Specific Condition No.

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SPECIFIC CONDITIONS:

10.

- E) All products of combustion must be vented through the stack.
- F) The boiler shall be kept in good repair and all leaks shall be minimized.

10. In order to ensure compliance with the emission limitations in Specific Condition Nos. 4 and 7, the maximum fuel usage for the two boilers combined (EU004 and EU005) shall not exceed 290 million cubic feet of natural gas and 120,000 gallons of No. 2 diesel oil in any consecutive twelve month period. [Rules 62-4.070(3) and 62-210.200 – Potential to Emit, F.A.C.; and Permit Nos. 0570041-007-AC and 009-AC]

11. The permittee shall comply with the following requirements: [Rule 62-204.800, F.A.C.]

- A) The permittee 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 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 additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]
- B) 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)]
- C) 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]
- D) In order to demonstrate compliance with the fuel oil sulfur content limits in this permit, the permittee shall keep the following records: [40 CFR 60.48c(f) and (i); and Rule 62-4.070(3), F.A.C.]

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- i) For each shipment of diesel oil delivered, record and maintain the name of the diesel oil supplier, a statement from the diesel oil supplier that the diesel oil contains less than 0.05 percent sulfur by weight, and the sulfur content or maximum sulfur content of the oil. An MSDS from the diesel oil supplier is not sufficient to show compliance with this requirement.
- ii) Maintain records required by i) above on-site for a period of two years. All records shall be made available for review by any local, state, or federal air pollution agency upon request.

12. Compliance with Specific Condition Nos. 4, 9, and 10 shall be demonstrated through the use of a monthly recordkeeping system. The records shall be retained onsite for the most recent three year period and shall be made available for inspection by any local, state, or federal air pollution agency upon request. The recordkeeping system shall include, but is not limited to, the following: [Rules 62-4.160(14)(b) and 62-4.070(3), F.A.C.; and 40 CFR 60.48c(g) and (i)]

- A) Record and maintain records of the amount of natural gas and No. 2 diesel oil combusted each month for the boilers combined.
- B) Record and maintain a rolling 12 month total of the amount of natural gas and No. 2 diesel oil combusted for the boilers combined.
- C) Record and maintain records for the number of hours each boiler is run on No. 2 diesel oil.
- D) Records as required by Specific Condition No. 10.D).

13. Each boiler shall be tested annually for visible emissions once per federal fiscal year (October 1 through September 30), and submit two copies of the test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [40 CFR 60.44c(b) and Rule 62-297.310, F.A.C.]

14. If the specific boiler to be tested has burned diesel oil for more than 400 hours in the previous 12 months, then the annual visible emissions test shall be conducted while the boiler is operating on No. 2 diesel oil; 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 with the emission limitations of Specific Condition Nos. 7 and 9. Test results must include the sulfur content of the fuel if No. 2 diesel oil is burned. The 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.]

15. Compliance testing of the boilers 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 of 21.0 MMBtu/hr for each York Shipley Boiler (EU Nos. 004 and 005). If it is impracticable to

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test at capacity, then the source may be tested at less than capacity; in this case subsequent source 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. Failure to submit the input rates and actual operating conditions may invalidate the test. [Rules 62-4.070(3) and 62-297.310(2)(b), F.A.C.]

16. Compliance with Specific Condition No. 4 shall be demonstrated by the following: [Rule 62-297.440, F.A.C.]

- A) A 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, if the testing was performed while operating on diesel oil. An MSDS from the fuel oil vendor is not sufficient to show compliance with this requirement.

*According to the most current version of ASTM Method D-396 or D-4294.

17. 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 62-297.310(7)(a)9., F.A.C.]

18. 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, 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(169), 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.]

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SPECIFIC CONDITIONS:

- 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.

21. 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.]

22. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Air 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.]

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

Richard D. Garrity, Ph.D.
Executive Director

P.E. Certification Statement

Permittee:

**Florida Health Sciences Center, Inc.
Tampa, Florida 33606**

**DRAFT Permit No.: 0570041-013-AC
Facility ID No.: 0570041**

Project Type: Air Construction

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)

Diana M. Lee, P.E.

Date

Registration No.: 56082

Permitting Authority:

Environmental Protection Commission
of Hillsborough County
Air Management Division
3629 Queen Palm Dr
Tampa, FL 33619
Telephone: (813) 2627-2600
Fax: (813) 627-2660