TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

APPLICANT

HOWCO Environmental Services
3701 Central Avenue
St. Petersburg, FL 33713

Facility ID No. 1030153

PROJECT

Project No. 1030153-013-AC
Application for Minor Air Construction Permit
Project Name: Add natural gas as a fuel for the oil heater

COUNTY

Pinellas County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Air Resource Management
Southwest District Office
Temple Terrace, Florida 33637-7600

April 6, 2012

Prepared by Nancy E. Knight

GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

I. Project Description:

A. Applicant:
Mr. Richard Dillen, Quality Assurance Officer
HOWCO Environmental Services
3701 Central Avenue
St. Petersburg, FL 33713

B. Professional Engineer:
Mr. Kenneth E. Given, P.E.
Air Testing & Consulting, Inc.
333 N. Falkenburg Rd., Unit B-214
Tampa, FL 33619

C. Project Location:
843 43rd Street South
St. Petersburg, FL 33719

Figure 1. Aerial view and map location of HOWCO Environmental Services

D. Project Summary:

This project authorizes the addition of natural gas as a fuel for the oil heater, as further described in the permit.

Figure 2. Oil recovery tanks

E. Application Information:

Application Received on: March 19, 2012
Additional Information Received on: April 3, 2012
Application Complete: April 3, 2012

II. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

Subject to:	Y/N	Comments
Rule 62-210.300, F.A.C. – Permits Required	Y	Subject to general permitting requirements
Rule 62-212.400, F.A.C. - Prevention of Significant Deterioration	N	facility is not a PSD major source
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	oil recycling activities could be a source of unconfined particulate matter emissions
Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor)	Y	oil recycling activities are a source of VOC and odors
Rule 62-296.401-470, F.A.C. - Stationary Source Emission Standards	N	there is no applicable source category
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	there is no applicable source category
Rule 62-296.700, F.A.C. - Reasonably Available Control Technology (PM)	N	facility exempt from PM RACT due to emissions <15 TPY and 5 lb/hr
Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS)	N	there is no applicable source category
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS – 40 CFR 61)	N	there is no applicable source category
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS –40 CFR 63)	N	there is no applicable source category
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution	N	facility is a synthetic non-Title V source
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C.	Y	VE testing is required for EU No. 003

III. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions Tons per Year[1]			Highest Potential Emissions of the Three Fuel Types Tons per Year	Allowable Emissions
		Natural Gas	No. 2 fuel oil	Reclaimed fuel oil		
PM	003 – Oil Recycling Operation	0.21	0.50	0.14	0.50	N/A
PM10	003 – Oil Recycling Operation	0.21	0.50	0.14	0.50	N/A
VOC	003 – Oil Recycling Operation	0.15	0.04	0.15	0.15	N/A
NOx	003 – Oil Recycling Operation	2.71	3.02	2.42	3.02	N/A
SO2	003 – Oil Recycling Operation	0.02	10.73	16.70	16.70	N/A
CO	003 – Oil Recycling Operation	2.28	0.76	0.32	2.28	N/A
VE	003 – Oil Recycling Operation					20%

[1] Emission calculations based on operating the oil heater 8,760 hours per year on each fuel. Emission factors are from AP-42.

IV. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

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

V. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Additional details

of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection Air Resource Management, Southwest District 13051 North Telecom Parkway, Temple Terrace, Florida 33637-7600.

Pursuant to Section 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to issue a permit to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).