M E M O R A N D U M

DATE: July 10, 2013

TO: Richard D. Garrity, Ph.D.

FROM: Lora Webb **THRU**: Diana M. Lee, P.E.

SUBJECT: Operating Permit Renewal – Yuengling Brewing Company

Attached is Renewal Permit No. 0570006-020-AO for the operation of a malt beverage brewing and packaging operation at a malt beverage brewery. The facility is located at 11111 North 30th Street, Tampa, FL 33612.

The brewing process begins by mixing grains and water in a mash tub to form a liquid referred to as wort. From the mash tub, the wort is filtered and pumped to two brew kettles where it is mixed with hops and then pumped to two whirlpool separators to separate the liquid from the hops. The wort is then pumped to one of eighty-four fermenting tanks where yeast is pumped into the top of the fermenting tank to start the fermentation process. Once the fermenting is finished, the mixture is sent to a centrifuge to separate the yeast from the liquid. After the beer is separated from the yeast, the beer is pumped to seventy-four storage tanks. Once the beer is ready to be packaged, the beer is pumped from the storage tanks to the can, bottle, and keg packaging lines. The cans, bottles, and kegs are injected with CO_2 to prevent the product from oxidizing and then sealed. The containers are coded, labeled, and stacked for shipment offsite.

VOC emissions from the brewing and packaging operation are controlled by limiting the brewery production and the finished product packaging throughput. The VOC PTE for the brewing operation is limited to 49.3 TPY. The facility emissions, as calculated in the construction permit application for Permit No. 0570006-002-AC, were based on a RACT evaluation performed at the Stroh Brewery in Fogelsville, PA on October 1993. The brewing process is subject to the general requirements under Rule 62-296.320, F.A.C.

On April 18, 2012, Warning Notice No. 2012-0097A was issued for construction of a new brewery without a permit. The facility submitted a construction permit application for the new brewery on April 20, 2012. The warning notice was sent to Enforcement and was closed in July 2012. There have not been any other complaints or violations at the facility in the past five years.

Based on our review, we recommend issuance of the operating permit renewal.

LAW: 0570006-020-AO

ENVIRONMENTAL PROTECTION COMMISSION OF
HILLSBOROUGH COUNTY, as Delegated by

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Santo Lazzara
Plant Engineering Manager
Yuengling Brewing Company of Tampa
11111 North 30th Street
Tampa, FL 33612
_____/

File No.: 0570006-020-AO
County: Hillsborough

Enclosed is Permit Number 0570006-020-AO to operate a malt beverage brewing and packaging operation at a malt beverage brewery issued pursuant to Section 403.087, Florida Statutes.

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 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 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

RDG/LAW/law

Attachment

cc: Florida Department of Environmental Protection, Southwest District (via email)
Tim O'Dell – Environmental Sciences Group (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:
Yuengling Brewing Company
11111 North 30th Street
Tampa, FL 33612

PERMIT/CERTIFICATION
Permit No.: 0570006-020-AO
County: Hillsborough
Expiration Date: July 10, 2018
Project: Malt Beverage Brewing

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 of hereof and specifically described as follows:

This permit authorizes operation of a malt beverage brewing and packaging operation at a malt beverage brewery. The brewing process begins at the mash tub. Grain from the grain mills is gravity fed into a mash tub, mixed with water, and heated. From this point on, the liquid is referred to as wort. From the mash tub, the wort is passed through a mash filter to separate the liquid from the spent grains and the grains are pumped to two storage silos where they are stored until shipped offsite. From the mash filter, the wort is pumped to one of two brew kettles where it is sterilized and mixed with hops. From there, the wort is pumped to one of two whirlpool separators where the liquid is separated from the hops. The wort is then sent to the wort cooler where it is cooled with air and then it is pumped to one of eighty-four, 500 barrel capacity fermenting tanks. Yeast from one of two yeast storage tanks is pumped into the top of the fermenting tank to start the fermentation process.

When finished fermenting, the mixture is sent to a centrifuge to separate the yeast from the liquid. From this point on, the liquid is referred to as beer. The yeast is returned to the yeast storage tank for use in the next fermentation cycle or pumped to two spent yeast storage silos where it is stored until shipped offsite. A byproduct of the fermentation process is CO_2. CO_2 is pumped to one Wittemann, Model No. 4163, scrubber to remove any impurities and the purified CO_2 gas is sent to a compressor which compresses the gas into a liquid. The scrubber scrubbing fluid is water. The liquid CO_2 is stored in three pressurized storage tanks for use during the bottling process.

After the beer is separated from the yeast, the beer is pumped to a chiller and then to one of seventy-four storage tanks. Depending on production needs, some of the storage tanks are used for storage until the beer is ready to be packaged (called Ruh storage tanks) and some of the

storage tanks are used as holding tanks that store the beer that is ready for final packaging (called Government Cellar Storage Tanks). The storage tanks each have a capacity of 1,160 barrels. Once the beer is ready to be packaged, the beer is pumped from the Ruh storage tanks through a series of three filters and finally into the Government Cellar storage tanks.

From the Government Cellar storage tanks, the beer is pumped to the packaging lines. There is one can packaging line, one bottle packaging line, and one keg packaging line. The bottles and cans are pasteurized using steam injection on one of two pasteurizing lines prior to being filled. One pasteurizing line is used exclusively for cans and one pasteurizing line is used exclusively for bottles. After being filled, CO_2 is injected into the kegs, bottles, and cans to prevent the product from oxidizing. After the CO_2 is injected, the kegs, bottles, and cans are sealed and the containers are coded and labeled. After the cans have been filled, any cans that are rejected for quality control reasons are crushed in the can crusher. The product inside the cans is discharged to the sewer, however, VOC emissions are emitted due to evaporation of the product. VOC emissions from the brewing and packaging operation are controlled by limiting the brewery production and the packaging throughput.

The facility also operates one 20.1 MMBtu/hr IBW Thermoflo Watertube, Model No. TF-600C-PF12, boiler and one 10.0 MMBtu/hr IBW Thermoflo Watertube, Model No. TF-300C-PF12, boiler, which are used to provide steam for the brewing process. Both boilers are fired on natural gas exclusively and are categorically exempt from air permitting pursuant to Rule 62-210.300(3)(a)34., F.A.C. In addition, the facility's grain handling operation at the brewery is permitted under a separate air permit.

The following is a description of the equipment associated with each emission unit:

<u>Emission Unit No. 006 - Brewing Processes</u>
The Brewhouse which consists of one mash tub, two brew kettles, two whirlpool separators, two spent grain tanks, one wort cooler
Eighty-four fermenting tanks with a total of 4 vents
Two autolyzed yeast storage tanks, each with one vent
Two scrubbers
Three CO_2 compressors and three CO_2 storage tanks
Ruh Storage* tanks with one main discharge vent and four backup vents
One chilled water tank

<u>007 - Finish Product Processes</u>
Government Cellar Storage* tanks with one discharge vent
One chilled water tank
One can packaging line
One bottle filling line
One keg filling line

<u>008 - Can Crusher</u>
Can crusher

011 - Pasteurizer
One pasteurizing line for cans
One pasteurizing line bottles

*- The total number of Ruh storage and Government Cellar storage tanks is seventy-four. The number of tanks used as Ruh storage and Government Cellar storage may vary due to process and brewing needs. Some Ruh storage tanks may be used for Government Cellar storage and some Government Cellar storage tanks may be used for Ruh storage.

The following activities at the facility are considered insignificant:

A. Product Coding – twelve machines apply product tracking codes to bottles, cans, and cartons utilizing solvent-based and water based inks and dyes.
B. Adhesive Use - for affixing labels to bottles and for assembly of cartons and boxes
C. Parts Cleaning - three Safety-Kleen parts washing stations

Location: 11111 North 30th Street, Tampa, Fl 33612

UTM: 17-362.00E and 3103.20N NEDS No: 0006

Emission Unit Nos.: 006 - Brewing Processes
007 - Finished Product Processes
008 - Can Crusher
011 - Pasteurizer

References Permit Nos.: 0570006-002-AC and 0570006-003-AC

Replaces Permit No.: 0570006-015-AO

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 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 use of property, facilities, equipment, processes, products, or compounds, or the commission of paint overspraying or any other act, that causes or materially contributes to a public nuisance is prohibited, pursuant to the Hillsborough County Environmental Protection Act, Section 16, Chapter 84-446, Laws of Florida, as Amended.

5. In order to limit the potential to emit and establish the facility as a synthetic minor for both criteria and Hazardous Air Pollutants (HAP), the following emission limitations shall apply: [Rules 62-296.320, 62-212.300, 62-210.200, and 62-4.070(3), F.A.C., and Permit No.0570006-003-AC]

A) The maximum VOC emissions from the brewery operation shall not exceed 49.3 tons for any 12 consecutive month period.
B) 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.

6. In order to demonstrate compliance with Specific Condition No. 5, the following limitations shall apply during any twelve consecutive month period: [Rule 62-4.070(3), F.A.C. and Permit No. 0570006-003-AC]

A) Maximum brewed or fermented throughput shall not exceed 1,315 MBBL
B) Maximum combined finished product throughput shall not exceed 1,798 MBBL packaged into kegs, cans, and bottles

7. The hours of operation are not limited. [Rule 62-4.070(3), F.A.C.]

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(2), F.A.C.]

9. In order to demonstrate compliance with Specific Condition Nos. 5 and 6, the permittee shall maintain monthly records of operation for the most recent three year period. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal air

SPECIFIC CONDITIONS:

pollution agency upon request. The records shall include, but not be limited to, the following: [Rule 62-4.070(3) and 62-4.160(14)(b), F.A.C.]

A) Monthly total of the brewed or fermented throughput in MBBL
B) Monthly total of the packaged finish product throughput in MBBL
C) Rolling twelve month total for A) and B) above

10. The permittee shall not store, handle, process, or use in any process the volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems as follows and as deemed necessary and ordered by the Environmental Protection Commission of Hillsborough County: [Rules 62-296.320(1) and 62-4.070(3), F.A.C.]

A) Maintain tightly fitting cover, lids, etc. on all containers when they are not being handled, tapped, etc.
B) Where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, etc. of VOC so that it can be covered when not in use.
C) Immediately attend to all spills/waste as appropriate.

11. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. [Rule 62-296.320(4)(c)]

12. 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. [Rules 62-297.310(7)(b) and 62-4.070(3), F.A.C.]

13. The emission factors listed in the RACT evaluation of the Stroh Brewery in Fogelsville, PA, and the procedures used in the Construction Application of February 8, 1996, shall be used to demonstrate compliance with the emission limitations of Specific Condition No. 5. [Rule 62-4.070(3), F.A.C. and Permit No. 0570006-002-AC]

14. 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 listed in this permit.
B) Installation or addition of any equipment which is a source of air pollution.
C) The use of materials or fuels other than those authorized by this permit.
D) Increase in usage of inks or dyes, coding machine cleaner, or adhesive.

15. Submit to the Environmental Protection Commission of Hillsborough County each calendar year on or before April 1, 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)(a), F.A.C. and Permit No. 0570006-002-AC]

16. 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.]

17. Prior to sixty 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 along with the proper fee. A renewal application shall be timely and sufficient. 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 or, if there is court review of the final agency action, until a later date is required by Section 120.60, Florida Statutes. [Rule 62-4.090, F.A.C.]

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

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Richard D. Garrity, Ph.D.
Executive Director