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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Protecting Texas by Reducing and Preventing Pollution

June 30, 2010

MR CARL E EDLUND PE
DIRECTOR MULTIMEDIA PLANNING AND PERMITTING DIVISION
US ENVIRONMENTAL PROTECTION AGENCY REGION 6
1445 ROSS AVE STE 1200
DALLAS TX 75202-5766

Re: Executive Director's Response to EPA Objection
Initial Issuance
Permit Number: O3275
Motiva Enterprises LLC
Houston Terminal
Houston, Harris County
Regulated Entity Number: RN100226125
Customer Reference Number: CN600124051

Dear Mr. Edlund:

On December 11, 2009, the U.S. Environmental Protection Agency (EPA) Region 6 Office signed a letter identifying objections to the issuance of the proposed federal operating permit for the above-referenced site. In accordance with Title 30 Texas Administrative Code § 122.350 [30 TAC § 122.350], the Texas Commission on Environmental Quality (TCEQ) may not issue the permit until the objections are resolved. In addition, the letter identifies certain additional concerns. The TCEQ understands that the additional concerns are provided for information only, and do not need to be resolved in order to issue the permit.

The TCEQ has completed the technical review of your objections and offers the enclosed responses to facilitate resolution of the objections. In addition, the attached responses to the objections describe the changes, if applicable, that have been made to the revised proposed permit and supporting statement of basis (SOB). The revised proposed permit and SOB are attached for your review.

Mr. Carl E. Edlund, P.E.
Page 2
June 30, 2010

Consistent with 30 TAC § 122.350, please provide an indication of your acceptance or assessment of the responses and resolutions to the objections as soon as possible. After receipt of your acceptance to the responses and resolutions to the objections, TCEQ will issue the proposed permit. Thank you for your cooperation in this matter. Please contact Ms. Julie Guthrie at (512) 239-1517 if you have any questions concerning this matter.

Sincerely,



Steve Hagle, P.E., Director
Air Permits Division
Office of Permitting and Registration
Texas Commission on Environmental Quality

SH/JG/kw

cc: Mrs. Mary Burnett, Environmental Coordinator, Motiva Enterprises LLC, Houston
Bureau Chief of Air Quality Control, Health and Human Services Department, City of
Houston, Houston
Director, Environmental Public Health Division, Harris County Public Health and
Environmental Services, Pasadena
Air Section Manager, Region 12 - Houston

Enclosures: TCEQ Executive Director's Response to EPA Objection
Proposed Permit
Statement of Basis
Flexible Permit Number 26638
Technical Review for Flexible Permit Number 26638

Project Number: 13402

EXECUTIVE DIRECTOR'S RESPONSE TO EPA OBJECTION

Permit Number O3275

The Texas Commission on Environmental Quality (TCEQ) Executive Director (ED) provides this Response to EPA's Objection to the initial issuance of the Federal Operating Permit (FOP) for Motiva Enterprises LLC, Houston Terminal, Permit No. O3275, Houston, Harris County, Texas.

BACKGROUND

Procedural Background

The Texas Operating Permit Program requires that owners and operators of sites subject to 30 Tex. Admin. Code (TAC) Chapter 122 obtain a FOP that contains all applicable requirements to facilitate compliance and improve enforcement. The FOP does not authorize construction or modifications to facilities, and it does not authorize emission increases. To construct or modify a facility, the responsible party must have the appropriate new source review authorization. If the site is subject to 30 TAC Chapter 122, the owner or operator must submit a timely FOP application for the site and ultimately must obtain the FOP to operate. Motiva Enterprises LLC applied to the TCEQ for a initial issuance of the FOP for the Houston Terminal located in Houston, Harris County on March 3, 2009, and notice was published on October 15, 2009 date in *Houston Chronicle* and on November 1, 2009 in *La Voz*. The public comment period ended on December 1, 2009. During the concurrent EPA review period, TCEQ received an objection to the permit from EPA on December 14, 2009.

In accordance with state and federal rules, the permit initial issuance may not be issued until TCEQ resolves EPA's objections.

Description of Site

Motiva Enterprises LLC owns and operates the Houston Terminal, located at 2661 Stevens Street in Houston, Harris County, Texas 77026.

The Houston Terminal handles gasoline, diesel and fuel additives. The fuel products are delivered to the terminal by pipeline, stored in tanks on-site and loaded onto trucks for shipment. Vapors that are generated during the truck loading are captured and fed to the vapor combustor unit. Emission sources at the site include loading and unloading operations, water separation, storage tanks, and a flare. Title V Permit No. O3275 contains applicable requirements for the emission sources.

The following responses follow the references used in EPA's objection letter.

EPA OBJECTION: Objection to the incorporation of Flexible Permit 26638 into the Title V permit. The *New Source Review (NSR) Authorization References* table in the Title V permit incorporates by reference Flexible Permit No. 26638, most recently amended on

EXECUTIVE DIRECTOR'S RESPONSE TO EPA OBJECTION

Permit Number O3275

Page 2

February 16, 2006. Flexible permits are issued pursuant to 30 TAC Chapter 116, Subchapter G; however, those provisions have not been approved, pursuant to Section 110 of the federal Clean Air Act (CAA), 42 U.S.C. § 7410, as part of the applicable implementation plan for the State of Texas (Texas SIP). Therefore, pursuant to 40 CFR § 70.8(c)(1), EPA must object to the issuance of this Title V permit because the terms and conditions of the incorporated flexible permits cannot be determined to be in compliance with the applicable requirements of the Texas SIP. The failure to have submitted information necessary to make this determination constitutes an additional basis for this objection, pursuant to 40 CFR §70.8(c)(3)(ii). In order to respond to this objection, additional information must be provided by the applicant showing how the emissions authorized by the flexible permits meet the air permitting requirements of the federally-approved provisions of the Texas SIP. Furthermore, the Title V permit must include an additional condition specifically requiring the source to prepare and submit to TCEQ a written analysis of any future change/modification to ensure that minor and/or major new source review requirements under the federally-approved Texas SIP have not been triggered. Finally, the terms and conditions of flexible permits based upon the requirements of 30 TAC Chapter 116, Subchapter G must be identified as State-only terms and conditions, pursuant to 40 CFR § 70.6(b)(2).

TCEQ RESPONSE: As a preliminary matter, the ED believes that resolution of EPA concerns regarding flexible permits is a common objective for both TCEQ and the EPA. The concerns discussed below regarding the use of the Title V permitting process to challenge independent flexible permits on a case-by-case basis does not diminish the importance of reaching an expeditious resolution to the NSR flexible permit issue. The ED recognizes the flexible permit rules, located in 30 TAC Chapter 116, Subchapter G, and submitted to EPA in 1994, have not been approved into the Texas SIP. However, the Texas federal operating permit (FOP) program is EPA-approved. TCEQ reviews applications and issues FOPs according to EPA-approved program rules found in 30 Texas Administrative Code (TAC), Chapter 122. The Texas Operating Permit Program was granted full approval on December 6, 2001 (66 FR 63318), and subsequent rule changes were approved on March 30, 2005 (70 FR 161634). The application procedures, found in 30 TAC § 122.132(a) require an applicant to provide any information required by the ED to determine applicability of, or to codify any "applicable requirement." In order for the ED to issue an FOP, the permit must contain all applicable requirements for each emission unit (30 TAC § 122.142). "Applicable requirement" is specifically defined in 30 TAC § 122.10(2)(h) to include all requirements of 30 TAC Chapter 116 and any term and condition of any preconstruction permit. As a Chapter 116 preconstruction authorization, flexible permits are applicable requirements, and shall be included in applications and Texas issued FOPs, in compliance with Texas's approved program. According to the EPA review procedures of Chapter 122, EPA may only object to issuance of any proposed permit which is not in compliance with the applicable requirements or requirements of this chapter. Therefore, this objection is not valid under the program EPA has approved in Texas because the applicant provided information as to the applicable Chapter 116 requirements, including flexible permits, and the ED has included these requirements in the draft FOP. EPA objections to individual permits issued under an EPA approved operating permit program are not appropriate for concerns that relate to programmatic elements.

EXECUTIVE DIRECTOR'S RESPONSE TO EPA OBJECTION

Permit Number O3275

Page 3

The ED disagrees with the allegation that the failure of the applicant to have submitted information necessary to make a determination of whether they were in compliance with the SIP constitutes an additional basis for this objection, pursuant to 40 CFR §70.8(c)(3)(ii). Section 70.8(c)(3)(ii) is premised on the *permitting authority* not "submitting any information necessary [for EPA] to review adequately the proposed permit." The ED has provided all information requested by EPA, when asked, including NSR permits and other supporting information. The flexible permit applications, technical reviews, and flexible permits clearly do not allow sources to utilize the flexible permit authorization mechanism to circumvent major NSR permitting requirements. Specifically, 30 TAC Chapter 116 requires that all new major sources or major modifications be authorized through nonattainment or PSD permitting under Subchapter B, Divisions 5 and 6.

The ED also disagrees that additional information must be provided by the applicant showing how the emissions authorized by the flexible permit meet the air permitting requirements of the federally-approved provisions of the Texas SIP. The flexible permit application, technical review, and flexible permit documentation demonstrates that the emissions authorized by the flexible permits meet the air permitting requirements of the federally approved provisions of the SIP regarding requirements for impacts review, emission measurement, BACT, NSPS, NESHAP, MACT, performance demonstration, modeling or ambient monitoring if required, MECT applicability, and nonattainment or PSD permitting if applicable. Texas submitted the initial flexible permit rule for EPA review and action in 1994. EPA's delay in acting on the flexible permit rules, the approval of the state's federal operating permit program and confusion regarding whether the approved federal operating permit program provided federal enforceability for flexible permits, resulted in a very long period of detrimental reliance on this permit mechanism by regulated entities and TCEQ.

Notwithstanding the pending final disapproval of the flexible permit rules in 30 TAC Chapter 116, Subchapter G, the flexible permit review requirements are parallel to the SIP-approved 30 TAC Chapter 116, Subchapter B permit review and no substantive differences in significant permit elements exist. Indeed, the technical review of the flexible permit No. 26638 application provides information regarding how Subchapter B requirements in § 116.111 are met, including: compliance with the SIP approved Subchapter B rules and review requirements, unit-specific limits based on BACT review at the time of the permit issuance, demonstrations that each emission unit and the facility covered by NSR Permit No. 26638 meets all applicable NSPS, NESHAP requirements, and air dispersion modeling conducted by applicant. The flexible permit and technical review are enclosed with this response. Motiva Enterprises LLC may separately submit to EPA additional information showing compliance with the Subchapter B requirements. Additionally, the ED does not agree that it is appropriate, necessary or legally required under either 40 CFR Part 70 or the EPA approved federal operating permit program in Texas to require a condition in the operating permit to require a source to prepare and submit a written analysis of any future change/modification to

EXECUTIVE DIRECTOR'S RESPONSE TO EPA OBJECTION

Permit Number O3275

Page 4

ensure that minor and/or major NSR requirements under the SIP have not been triggered. The federally approved SIP already requires this analysis as part of any future NSR review. See 30 TAC Chapter 116, Subchapter B, Divisions 5 and 6. Minor NSR applicability requirements are adequately specified in the permit and commission rules governing NSR permits; thus, the applicant is currently subject to the requirements to demonstrate, upon any future change, when minor or major NSR requirements will apply.

However, the ED recognizes that some companies are in negotiations with EPA to include a special term and condition in the draft FOP requiring that they submit an application to reissue a permit, through the SIP-approved amendment, alteration, or renewal process, with a deadline for application submittal, and specific information to EPA and TCEQ for review prior to public notice. If Motiva Enterprises LLC agrees to such a process, the TCEQ will work with Motiva Enterprises LLC to change the draft permit appropriately.

Finally, the flexible permit terms and conditions are not appropriate to be identified as state-only in the FOP. The EPA approved definition of a "state-only requirement" in 30 TAC § 122.10(28) is "any requirement governing the emission of air pollutants from stationary sources that may be codified in the permit at the discretion of the ED. State-only requirements shall not include any requirement required under the Federal Clean Air Act or under any applicable requirement." Therefore, the EPA approved program provides the ED with discretion to determine which requirements must be identified as "state-only" and explicitly prohibits anything defined as an "applicable requirement" from being "state-only." Since flexible permits issued in 30 TAC Chapter 116 are "applicable requirements," they may not be included as "state-only" requirements. Instead, they are applicable requirements which are subject to public notice, affected state review, notice and comment hearings, EPA review, public petition, recordkeeping requirements, compliance demonstration and certification requirements, and appropriate periodic or compliance assurance monitoring requirements. "State-only" requirements are specifically not required to meet requirements that are specific to 40 CFR Part 70. See 122.143(18). As stated previously, the flexible permit terms and conditions comply with SIP approved permit rules and assure compliance with future applicable NSR requirements. Again, with regard to flexible permits, the TCEQ will continue its dialogue with EPA to achieve the mutual goal of NSR permits issued under SIP approved rules.

EPA OBJECTION: Objection to General Recordkeeping Provision. Under the *General Terms and Conditions* provision of the draft Title V permit, reference is made to 30 TAC § 122.144 of the Texas Title V permit program which requires records be kept for 5 years; however, Special Condition 12 of Flexible Permit No. 26638 only requires records be kept for one year. This condition is inconsistent with the 5 year recordkeeping requirements of 40 CFR § 70.6(a)(3)(ii)(B) and cannot be carried forward into the Title V permit. Pursuant to 40 CFR § 70.8(c)(1), EPA objects to the issuance of the Title V permit since the recordkeeping requirements of Flexible Permit No. 26638 are not in compliance with the requirements of 40 CFR § 70.6(a)(3)(ii)(B). In response to this objection, TCEQ must revise the Title V permit to include a condition that states that records of

EXECUTIVE DIRECTOR'S RESPONSE TO EPA OBJECTION

Permit Number O3275

Page 5

monitoring data and supporting information must be maintained for a minimum of five years from the date of monitoring, notwithstanding the requirements of any other permit conditions or applicable requirements

TCEQ RESPONSE: The TCEQ requires five year recordkeeping for all FOPs. Pursuant to 30 TAC §122.144(1), all records of required monitoring data and other permit support information must be kept for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. This is consistent with the recordkeeping requirements of 40 CFR §70.6(a)(3)(ii)(B). The requirements of 30 TAC § 122.144(1) have been and will continue to be incorporated for all FOPs through the general terms and conditions of the FOP, which specifically require "The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), and 30 TAC § 122.146(Compliance Certification Terms and Conditions)." These requirements were and will continue to be reiterated on the cover page of the FOP.

As all terms and conditions of preconstruction authorizations issued under 30 TAC Chapter 106, Permits by Rule (PBR) and 30 TAC Chapter 116, New Source Review (NSR) are applicable requirements and enforceable under the FOP, the five year record retention requirement of 30 TAC § 122.144(1) supersedes any less stringent data retention schedule that may be specified in a particular PBR or NSR permit. To further clarify the five year recordkeeping retention schedule for the FOP, the following text will be added to the General Terms and Conditions of the FOP.

"In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment."

EPA OBJECTION: Objection to Special Permit Condition 3. Under the *Special Terms and Conditions* provisions of the draft Title V permit, Condition 3 requires stationary vents with certain flow rates comply with identified provisions of 30 TAC Chapter 111 of the Texas SIP. However, there is no identification of the specific stationary vents that are subject to those requirements. As such, this condition fails to meet the requirement of 40 CFR § 70.6(a)(1), in that the condition lacks the specificity to ensure the compliance with the applicable requirements associated with those unidentified emission units. In addition, the Statement of Basis document for the draft Title V permit does not provide the legal and factual basis for Condition 3, as required by 40 CFR § 70.7(a)(5). Pursuant to 40 CFR § 70.8(c)(1), EPA objects to the issuance of the Title V permit since Condition 3 is not in compliance with the requirements of 40 CFR § 70.6(a)(1) and 70.7(a)(5). In response to this objection, TCEQ must revise Condition 3 of the draft Title V permit to list the specific stationary

EXECUTIVE DIRECTOR'S RESPONSE TO EPA OBJECTION

Permit Number O3275

Page 6

vents that are subject to the specified requirements of 30 TAC Chapter 111 and provide an explanation in the Statement of Basis for the legal and factual basis for Condition 3.

TCEQ RESPONSE: The EPA has supported the practice of not listing emission units in the permit that only have site-wide or "generic" requirements. See *White Paper for Streamlined Development of Part 70 Permit Applications*, July 10, 1995. The ED documented in the draft FOP that the Chapter 111 visible emission requirements for stationary vents were site-wide requirements - applying uniformly to the units or activities at the site. Because the applicant indicated in its application that only the Chapter 111 site-wide requirements apply to these stationary vents and other sources, the applicant is not required to list these smaller units individually in the unit summary, and therefore, these emission units did not appear in the applicable requirements summary table in the draft FOP.

With regard to stationary vents, there are three basic opacity requirements in 30 TAC § 111.111 that may apply, depending upon specific applicability criteria. Stationary vents constructed on or before January 31, 1972 must meet the requirements of 30 TAC § 111.111(a)(1)(A), which states that opacity shall not exceed 30% averaged over a six-minute period. Stationary vents constructed after January 31, 1972 must meet the requirements of 30 TAC § 111.111(a)(1)(B), which states that opacity shall not exceed 20% averaged over a six-minute period. Lastly, stationary vents where a total flow rate is greater than or equal to 100,000 actual cubic feet per minute (acfm) may not exceed 15% opacity averaged over a six minute period, unless that source has an installed optical instrument capable of measuring opacity that meets specified requirements, specified in 30 TAC § 111.111(a)(1)(C). Subsection 111.111(b) merely states that any of the emission units subject to section 111.111 (for this permit area, this would include all stationary vents and gas flares) shall not include contributions from uncombined water in determining compliance with this section.

However, the ED does agree that the FOP could be revised to more clearly group stationary vents according to which opacity limit applies. The site does not have any vents constructed prior to January 31, 1972, therefore, no vents are subject to the 30% opacity requirement of 30 TAC § 111.111(a)(1)(A). The Special Condition that references vents subject to the 30% opacity requirement of 30 TAC § 111.111(a)(1)(A) has been deleted from the Title V draft permit O3275. Vents with a flow rate greater than or equal to 100,000 acfm are subject to 15% opacity and are identified in the Applicable Requirements Summary. All other vents at the site are subject to 20% opacity, as noted in the revised Special Condition 3, which is a site-wide term and condition, as allowed in the *White Paper for Streamlined Development of Part 70 Permit Applications*, July 10, 1995.

A determination of the legal and factual basis for Condition 3 was added to the Statement of Basis document for the draft Title V permit and is enclosed.

EXECUTIVE DIRECTOR'S RESPONSE TO EPA OBJECTION
Permit Number O3275
Page 7

ADDITIONAL CONCERNS: TCEQ acknowledges the additional concerns EPA has with the Houston Terminal FOP and will address these issues as appropriate.