COMMONWEALTH OF PENNSYLVANIA Department of Environmental Protection Southeast Regional Office February 6, 2024

484.250.5920

- Subject: Technical Review Memo Extension of Plan Approval No. 23-0119J APS ID 998548, AUTH ID 1462394, PF ID 757998 Energy Transfer Marketing & Terminals, L.P.—Marcus Hook Terminal 100 Green Street Marcus Hook, PA 19061
- To: James D. Rebarchak 2/7/24 Environmental Program Manager Air Quality Program Southeast Region
- From: David S. Smith, E.I.T. Air Quality Engineering Specialist Facilities Permitting Section Air Quality Program
- Through: Janine Tulloch-Reid, P.E. JET 2/7/2024 Environmental Engineer Manager Facilities Permitting Section Air Quality Program

I. Introduction/Purpose of Authorization

Energy Transfer Marketing & Terminals, L.P. (ETMT), owns and operates the Marcus Hook Terminal (MHT), its petroleum terminal and natural gas liquids (NGLs) processing, storage, and distribution facility located in Marcus Hook Borough, Delaware County. The MHT is permitted under Title V Operating Permit (TVOP) No. 23-00119 and Plan Approval Nos. 23-0119E [revised] and 23-0119J. The purpose of this authorization is to extend Plan Approval No. 23-0119J (see *Justification for Plan Approval Extension* section, below, for further discussion).

Using the *Pennsylvania Environmental Justice Mapping and Screening Tool (PennEnviroScreen)*,¹ in accordance with Appendix B of the Department of Environmental Protection's (DEP's) Interim Final Environmental Justice Policy (Document No. 015-0501-002), effective September 16, 2023, the MHT is located in an Environmental Justice (EJ) area. In accordance with Appendix C of this policy, DEP does not consider the authorization to be a Public Participation Trigger or Opt-In Project. Therefore, DEP does not recommend any additional public participation actions at this time.

¹ *PennEnviroScreen* can be found on DEP's Public Participation EJ webpage at the following link: <u>https://gis.dep.pa.gov/PennEnviroScreen</u>.

II. Relevant Facility Permitting History

On February 12, 2021, DEP issued Plan Approval No. 23-0119J to Sunoco Partners Marketing & Terminals, L.P. (SPMT),² for the following sources, equipment, and operations to enable or accommodate the processing of approximately 140,000 barrels per day of ethane feedstock into, as well as the transient storage onsite and transfer offsite of, refrigerated (liquified) ethane product (hereinafter collectively referred to as "Project Phoenix"):

- The installation and temporary operation of the following sources and equipment to enable the processing of ethane feedstock into refrigerated ethane product:
 - One new amine treatment system to remove excess carbon dioxide [CO₂] from ethane feedstock prior to fractionation.
 - One new dehydration train system to remove water from ethane feedstock prior to fractionation.
 - Two new refrigeration systems, each consisting of a closed-loop propane system followed by an openloop ethane system, for the cooling of dry ethane.
 - Two new fractionation towers (demethanizers; Source ID 142³) and associated equipment for the removal of methane from dry ethane.
 - Two new wet surface air cooling (WSAC) systems (Source ID 141), one associated with each new refrigeration system, to process cooling water for the refrigeration systems.
 - All associated piping and components for the refrigerated ethane process.
- The installation and temporary operation or use of the following utilities to enable or accommodate the processing of ethane feedstock:
 - The installation and temporary operation of one new elevated, air-assisted Project Phoenix Cold Flare (Source ID C04), equipped with high- and low-pressure (HP and LP) cold flare tips, to enable the flaring of refrigerated streams that do not contain water.
 - The use of the existing West Warm Flare (Source ID C03 under the TVOP) to accommodate the flaring of streams from the amine treatment system and dehydration train system.
 - The use of three existing auxiliary boilers (1 and 3–4; Source IDs 031 and 033–034 under the TVOP) to accommodate the steam demand (36,300 *lbs/hr*) for the amine treatment system and dehydration train system.
- The installation and temporary operation of two new 600,000-*bbl* refrigerated ethane storage tanks (Source IDs 124–125) to enable the transient storage of refrigerated ethane product prior to its transfer off-site.
- The use of two existing marine vessel loading docks (1A and 2A; part of Source ID 104 under the TVOP) to accommodate the loading of refrigerated ethane product into marine vessels for transfer off-site.

On May 27, 2022, DEP received an electronic letter from ETMT stating that "construction has not yet commenced on the sources authorized under this Plan Approval [No. 23-0119J] because of various complications due to COVID-19. Due to these complications, ETMT respectfully requests [DEP] to authorize an 18-month commence construction extension to February 12, 2024."

On June 13, 2022, DEP received an e-mail with anticipated construction schedule from ETMT, which included a listing of various project milestones ranging from "March 2023 – Begin detailed engineering design" to

² On March 1, 2022, SPMT changed its name to ETMT.

³ In the original Plan Approval No. 23-0119J, DEP had intended to indicate the demethanizers as sources with this Source ID. DEP has done this in the extended Plan Approval.

"February 2026 – Complete all construction activities and begin system commissioning and startup" (see *Attachment* #1).

On August 4, 2022, ETMT confirmed that it had not entered into any binding agreements or contractual obligations for any of the sources or equipment authorized under Plan Approval No. 23-0119J, which may qualify as commencing construction pursuant to the definition of the term "commence" in 25 Pa. Code § 121.1.

On August 8, 2022, DEP extended the timeframe for ETMT to commence construction on the sources and equipment authorized under Plan Approval No. 23-0119J to February 12, 2024.

On November 20, 2023, DEP received a Plan Approval extension package for Plan Approval No. 23-0119J from ETMT. The Plan Approval extension package included the Plan Approval extension form, the compliance review form [25 Pa. Code §§ 127.12(a)(11) and 127.12a(b)–(c)], and monies for the application fee of \$750 [25 Pa. Code § 127.702(i)(2)(ii)].

III. Justification for Plan Approval Extension

ETMT indicated in the cover letter accompanying the Plan Approval extension package that "construction has not yet commenced on the sources authorized under this Plan Approval [No. 23-0119J] and ETMT anticipates commencement of construction could be delayed beyond February 12, 2024 because of changes in the ethane market, which has been impacted by COVID-19, natural gas production forecasts in the Northeast, and regulatory hurdles faced by customers for expansion projects. Construction of the project will commence once the customer off-take agreements have been completed." To this end, ETMT included in the Plan Approval extension package an anticipated construction schedule with the exact same project milestones as previously submitted, except that all the milestone dates were extended out 18 months (i.e., "September 2024 – Begin detailed engineering design" to "August 2027 – Complete all construction activities and begin system commissioning and startup").

On December 7, 2023, DEP met with ETMT to discuss ETMT's plans for Project Phoenix. Based on the facts that construction on the sources and equipment authorized under Plan Approval No. 23-0119J had yet not commenced (over a period of almost 3 years) and DEP no longer considers COVID-19 or any associated impacts to constitute a force majeure, DEP advised ETMT that it was unwilling to extend the Plan Approval if ETMT did not commence construction prior to February 12, 2024, the expiration date of Plan Approval No. 23-0119J.

On January 8, 2024, DEP confirmed in a telephone conversation with ETMT that ETMT intended to commence construction under Plan Approval No. 23-0119J prior to the expiration date and, correspondingly, submit a revised Plan Approval extension package with updated anticipated construction schedule.

To this end, on January 10, 2024, DEP received the revised Plan Approval extension package with updated anticipated construction schedule. ETMT indicated in its cover letter accompanying the revised Plan Approval extension package that it was "planning to begin foundation work for the sources authorized by Plan Approval 23-0119J during the week of January 29, 2024." The rest of the project milestones in the updated anticipated construction schedule ranged from "February 2024 – Finalize detailed engineering design" to "January 2027 – Complete all construction activities and begin system commissioning and startup." In addition, ETMT requested that DEP extend the term of the Plan Approval by 18 months (i.e., until August 12, 2025).

On February 5, 2024, Heather Henry, Air Quality Specialist, DEP, and I met with Kevin Smith, Supervisor– Environmental Compliance, ETMT, at the MHT to verify whether ETMT commenced foundation work and, hence, construction under Plan Approval No. 23-0119J (see *Attachment #2*). Mr. Kevin Smith drove Ms. Henry and I out to the section of the MHT designated for the new sources and equipment of Project Phoenix. There, Ms. Henry and I observed construction equipment, including a pile driver, on-site and twelve piles sticking out of the ground roughly 12 feet above grade. Mr. Kevin Smith stated that the piles were installed between January 30– February 2, 2024, and are for the foundation of one of the two refrigerated ethane storage tanks authorized under Plan Approval No. 23-0119J (Source IDs 124–125). Moreover, Mr. Kevin Smith stated that:

- The piles were driven down until they reached bedrock.
- The excess length of the piles above grade is not needed for the foundation and will be cut off as waste.
- The remaining piles required for the foundation will be ordered at the appropriate length(s) (i.e., the minimum length(s) required to reach bedrock and minimize the wasting of material) and driven at some point after they are delivered to the MHT.

Therefore, DEP considers ETMT to have commenced construction under Plan Approval No. 23-0119J.

IV. Recommendation

Based on a review of Plan Approval No. 23-0119J and the associated extension package, as well as DEP's verification that ETMT commenced construction under Plan Approval No. 23-0119J, I recommend that DEP extend Plan Approval No. 23-0119J for a period of 18 months.

Smith, David S

From:	Garcia, Lisa M <lisa.garcia@energytransfer.com></lisa.garcia@energytransfer.com>					
Sent:	Monday, June 13, 2022 7:28 AM					
То:	Smith, David S					
Cc:	Rebarchak, James; Tulloch-Reid, Janine; Gallagher, Jillian; Mclemore, Kevin; Henry, Heather; Smith, Kevin W					
Subject:	RE: [External] Marcus Hook Terminal Plan Approval J Construction Extension Request					

Dave,

I apologize for the delayed response to this request. Please see the information below provided by our engineering team and let me know if you need anything else. Thank you.

- March 2023 Begin detailed engineering design
- June 2023 Develop packages and start procuring critical equipment
- July 2023 Begin utility upgrades
- January 2024 Begin tank construction
- February 2024 Begin chiller construction
- July 2025 Energize PDC
- November 2025 Tank mechanically complete
- February 2026 Complete all construction activities and begin system commissioning and startup



Lisa M. Garcia, P.E. Sr. Manager – Engineering E&C Environmental Energy Transfer

0: 713.989.7762 **C:** 210.540.8853



From: Smith, David S <dssmith@pa.gov>
Sent: Friday, May 27, 2022 1:26 PM
To: Garcia, Lisa M <Lisa.Garcia@energytransfer.com>
Cc: Rebarchak, James <jrebarchak@pa.gov>; Tulloch-Reid, Janine <jtullochre@pa.gov>; Gallagher, Jillian <jigallaghe@pa.gov>; Mclemore, Kevin <kmclemore@pa.gov>; Henry, Heather <hehenry@pa.gov>
Subject: RE: [External] Marcus Hook Terminal Plan Approval J Construction Extension Request

Hi Lisa, are you able to provide an updated timeline/schedule for when ETMT anticipates that construction will commence and, if known, be completed for the various sources under Plan Approval No. 23-0119J?

Thanks, **David S. Smith, E.I.T.** (he/him/his) | Air Quality Engineering Specialist Pennsylvania Department of Environmental Protection Southeast Regional Office 2 East Main Street | Norristown, PA 19401 Phone: 484.250.5064 | Fax: 484.250.5921

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From: Garcia, Lisa M <Lisa.Garcia@energytransfer.com>
Sent: Friday, May 27, 2022 11:12 AM
To: Smith, David S <<u>dssmith@pa.gov</u>>
Cc: Rebarchak, James <<u>jrebarchak@pa.gov</u>>; Mclemore, Kevin <<u>kmclemore@pa.gov</u>>; Gallagher, Jillian
<<u>jigallaghe@pa.gov</u>>; Henry, Heather <<u>hehenry@pa.gov</u>>; Tulloch-Reid, Janine <<u>jtullochre@pa.gov</u>>
Subject: [External] Marcus Hook Terminal Plan Approval J Construction Extension Request

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Dave,

Please see the attached Commence Construction Extension Request for Plan Approval 23-0119J for the Marcus Hook Terminal. Please let me know if you have any questions. Thank you.



Lisa M. Garcia, P.E. Sr. Manager – Engineering E&C Environmental Energy Transfer O: 713.989.7762



C: 210.540.8853

Private and confidential as detailed <u>here</u>. If you cannot access hyperlink, please e-mail sender. Private and confidential as detailed <u>here</u>. If you cannot access hyperlink, please e-mail sender.

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VAIN SWITT									
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610-859-1912									
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	White – Regional Office		– Yellow Attachment #			🗌 Pink	- District Office		