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100 GREEN STREET
ATTN: ERIKA M. BRADLEY
MARCUS HOOK, PA 19061
Attention: Kevin Smith

STATE OF PENNSYLVANIA,

The undersigned Richard L. Crowe, being duly sworn the he/she is the principal clerk of Delaware County Daily Times, Daily & Sunday Times Digital, published in Delaware County for the dissemination of local or transmitted news and intelligence of a general character, which are duly qualified newspapers, and the annexed hereto is a copy of certain order, notice, publication or advertisement of:

Energy Transfer

Published in the following edition(s):

Delaware County Daily Times, Daily & Sunday Times Digital
08/07/23, 08/08/23, 08/09/23

Plan Approval 23-0119K
Page 1

Sworn to the subscribed before me this 8/9/23.

Maureen Schmid
Notary Public, State of Pennsylvania
Acting in County of Montgomery

Commonwealth of Pennsylvania - Notary Seal
MAUREEN SCHMID, Notary Public
Montgomery County
My Commission Expires March 31, 2025
Commission Number 1248132

Advertisement Information

Client Id: 889405

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PO: K. Smith

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Intent to Issue a Plan Approval and Intent to Issue or Amend an Operating Permit Plan Approval No. 23-0119K Marcus Hook Borough, Delaware County

The Department of Environmental Protection (DEP) intends to issue Air Quality Plan Approval No. 23-0119K to Energy Transfer Marketing & Terminals, L.P. (ETMT), to expand the ethane chilling capacity at its Marcus Hook Terminal (MHT), located at 100 Green Street, Marcus Hook, PA 19061-0426, from approximately 75,000 *bbl/day* to approximately 85,000 *bbl/day*.

ETMT has proposed the following to accommodate the expansion (collectively referred to as the "Ethane Chilling Expansion Project"):

- The installation of the following ethane chilling process equipment:
- A new (fourth) ethane chiller train, consisting of a mixed refrigerant liquid compressor and heat exchanger, ethane chiller, and related equipment, in parallel with the three existing ethane chiller trains at the MHT.
- A new boil-off gas (BOG) system, consisting of a compressor, chiller, and related equipment.
- New piping, fugitive emissions components, and process vents associated with the new ethane chiller train and BOG system.
- Updated piping and fugitive emissions components for certain existing ethane chilling process equipment (i.e., the feed metering, feed heating, amine treatment, and demethanizer off-gas systems).
- Operational, maintenance, and emergency connections from the new ethane chiller train to the West Cold Flare (Source ID C01) permitted under Title V Operating Permit (TVOP) No. 23-00119 and Plan Approval No. 23-0119E (revised).
- Operational, maintenance, and emergency connections from the new BOG system to the Project Phoenix Cold Flare (Source ID C04) authorized under Plan Approval No. 23-0119J.
- Additional steam demand on the three existing auxiliary boilers (1 and 3–4; Source IDs 031 and 033–034) permitted under TVOP No. 23-00119 and Plan Approval No. 23-0119E (revised) by certain existing ethane chilling process equipment (i.e., the dehydrators and water/ethylene glycol (WEG) system utility), as well as for maintenance purposes, to support the additional ethane throughput through new and existing ethane chilling process equipment.

In accordance with 40 CFR § 52.21(a)(2)(iv)(c)–(d), DEP has determined the following emissions increases for the proposed Ethane Chilling Expansion Project:

- Carbon Monoxide [CO]: 2.033 *tons/yr*
- Greenhouse Gases (GHGs) (expressed as carbon dioxide equivalents [CO₂e]): 17,454 *tons/yr*
- Lead [Pb]: 0.00117 *tons/yr*
- Nitrogen Oxides [NO_x] (all NO_x expressed as nitrogen dioxide [NO₂]): 4.132 *tons/yr*
- Particulate Matter [PM]: 0.165 *tons/yr*
- PM less than 10 μm in aerodynamic diameter [PM₁₀]: 0.165 *tons/yr*
- PM less than 2.5 μm in aerodynamic diameter [PM_{2.5}]: 0.165 *tons/yr*
- Sulfur dioxide [SO₂]: 0.455 *tons/yr*
- Sulfuric Acid Mist [H₂SO₄]: 0.00678 *tons/yr*
- Volatile organic compounds [VOCs]: 4.809 *tons/yr*

In accordance with a 2019 adjudication decision by the Environmental Hearing Board, DEP has evaluated the Ethane Chilling Expansion Project and all past authorizations for sources and equipment related to the natural gas liquids (NGLs) processing, storage, and distribution operations at the MHT as a single aggregated project to determine the applicability of Prevention of Significant Deterioration of Air Quality (PSD) and New Source Review (NSR) requirements. The authorizations comprising the single aggregated project are as follows (in reverse chronological order):

- The Ethane Chilling Expansion Project under Plan Approval No. 23-0119K (complete appli-

cation received on March 9, 2022).

- De Minimis Emissions Increase (written notice received January 4, 2022).
- Request for Determination of Changes of Minor Significance and Exemption from Plan Approval/Operating Permit (RFD) No. 9332 (approved September 3, 2021).
- De Minimis Emissions Increase (written notice received May 19, 2021).
- RFD No. 9156 (approved May 13, 2021).
- Plan Approval Nos. 23-0119E (revised) and 23-0119J (concurrently issued on February 12, 2021). [Note: DEP previously reevaluated all prior authorizations for sources and equipment related to the NGLs processing, storage, and distribution operations at the MHT under Plan Approval Nos. 23-0119E (revised) to determine the applicability of PSD and NSR requirements up to that point.]

In accordance with 40 CFR § 52.21(a)(2)(iv)(c)–(d), DEP has determined the following emissions increases for the single **aggregated project**:

- CO: 103.26 *tons/yr*
- GHGs: 260,756 *tons/yr*
- H₂SO₄: 0.0642 *tons/yr*
- NO_x: 63.04 *tons/yr*
- Pb: 0.00801 *tons/yr*
- PM: 4.039 *tons/yr*
- PM₁₀: 3.829 *tons/yr*
- PM_{2.5}: 1.983 *tons/yr*
- SO₂: 17.94 *tons/yr*
- VOCs: 182.41 *tons/yr*

Based on the definition of the term "significant emissions increase" in 40 CFR § 52.21(b)(40), DEP has determined that the single aggregated project results in significant emissions increases of CO, CO₂e, NO_x, and PM_{2.5} (the latter based on NO_x being a PM_{2.5} precursor). Therefore, in accordance with 40 CFR § 52.21(b)(3), DEP has performed a netting analysis summing these significant emissions increases with other contemporaneous increases in actual emissions at the MHT and determined the following net emissions increases for the single aggregated project:

- CO: 103.90 *tons/yr*
- GHGs: 260,855 *tons/yr*
- NO_x: 63.16 *tons/yr*

Based on the definition of the term "significant" in 40 CFR § 52.21(b)(23) and 25 Pa. Code § 121.1, the single aggregated project is a major modification subject to the PSD requirements of 40 CFR § 52.21; adopted in their entirety by DEP and incorporated by reference under 25 Pa. Code § 127.83; for CO, GHGs, NO_x, and PM_{2.5}.

In accordance with 40 CFR § 52.21(j)(1), the major modification is required to meet each applicable emissions limitation under the State Implementation Plan and each applicable emissions standard under 40 CFR Parts 60, 61, and 63. All applicable emissions limitations and standards for the sources and equipment of the single aggregated project have been previously included in TVOP No. 23-00119 and Plan Approval Nos. 23-0119E (revised) and 23-0119J, and/or are addressed under Plan Approval No. 23-0119K.

In accordance with 40 CFR § 52.21(j)(3), DEP has addressed best available control technology (BACT) requirements for the following sources and equipment of the single aggregated project:

- West Cold Flare (Source ID C01).
- East Cold Flare (Source ID C02).
- Project Phoenix Cold Flare (Source ID C04).
- Fugitive emissions components (Source IDs 103, 401, and 501).

ETMT has performed air quality analyses for the proposed major modification at its MHT using air dispersion modeling that satisfy the requirements of the PSD regulations. Data

associated with ETMT's air quality analyses are available in electronic format upon request. In accordance with 40 CFR § 52.21(k) through (n), ETMT conducted air quality analyses of the net emissions increase of CO, NO_x, and PM_{2.5} for the proposed major modification of MHT. ETMT's source impact analyses demonstrate that the net emissions increase due to the major modification of MHT would not cause or contribute to air pollution in violation of the National Ambient Air Quality Standards for CO, NO₂, or PM_{2.5}. Additionally, ETMT's source impact analyses demonstrate that the net emissions increase due to the major modification of MHT would not cause or contribute to air pollution in violation of the Class II or Class I PSD increments for NO₂ or PM_{2.5}.

In accordance with 40 CFR § 52.21(o), ETMT provided additional impact analyses of the impairment to visibility, soils, and vegetation that would occur as a result of the major modification of MHT.

In accordance with 40 CFR § 52.21(p), written notice of ETMT's proposed major modification of MHT has been provided to the Federal Land Managers of nearby federal Class I areas. The notice included initial screening calculations which demonstrate that the net emissions increase due to the major modification of MHT would have negligible impacts on air quality related values and visibility in nearby federal Class I areas.

In accordance with the public notice requirements in 25 Pa. Code § 127.45(b)(4), the degree of Class II and Class I PSD increment consumption expected to result from ETMT's major modification of MHT is provided in the following tables:

Degree of Class II PSD Increment Consumption from ETMT's Major Modification of MHT

Pollutant	Averaging Time	Degree of Class II PSD Increment Consumption		Class II PSD Increment micrograms per cubic meter
		micrograms per cubic meter	Percent of Class II PSD Increment	
NO ₂	Annual	0.18437	0.74 %	25
	24-hour	0.17276	1.92 %	9
PM-2.5	Annual	0.02093	0.52 %	4

Degree of Class I PSD Increment Consumption from ETMT's Major Modification of MHT

Pollutant	Averaging Time	Degree of Class I PSD Increment Consumption		Class I PSD Increment micrograms per cubic meter
		micrograms per cubic meter	Percent of Class I PSD Increment	
NO ₂	Annual	0.00151	0.06 %	2.5
	24-hour	0.02098	1.05 %	2
PM-2.5	Annual	0.00123	0.12 %	1

In accordance with 25 Pa. Code §§ 127.203a and 127.203(b)(1)(i), DEP has performed an NSR analysis to determine whether the aggregated emissions increases of NO_x or VOCs (i.e., the sum of the emissions increases for the single aggregated project and the other increases in net emissions occurring over a consecutive 5 calendar-year period), exceed 25 tons/yr. The aggregated emissions increases of NO_x and VOCs are the following:

- NO_x: 63.15 tons/yr
- VOCs: 183.88 tons/yr

Therefore, the single aggregated project is subject to NSR requirements for both NO_x and VOCs, and ETMT is required to implement Lowest Achievable Emission Rate (LAER) in accordance with 25 Pa. Code §§ 127.203(b)(2) and 127.205(1), and offset the aggregated emissions increases of NO_x and VOCs in accordance with 25 Pa. Code §§ 127.201(d) and 127.210(a). Based on the required offset ratio of 1.3:1, ETMT is required to surrender 82.09 tons of NO_x Emission Reduction Credits (ERCs) and 239.04 tons of VOC ERCs for the single aggregated project. ETMT has previously surrendered, and DEP has previously retired, 79.15

tons of NO_x ERCs and 193.79 tons of VOC ERCs under previously-issued Plan Approvals for certain sources and equipment under the single aggregated project. Moreover, ETMT is still required to surrender 49.93 tons of VOC ERCs under Plan Approval No. 23-0119J prior to the commencement of operation of the sources and equipment under that Plan Approval. Therefore, to fully offset the aggregated emissions increases of NO_x, ETMT is required to surrender an additional 2.94 tons of NO_x ERCs for the single aggregated project (based on differences with the timeframes DEP used to determine the other increases in net emissions of VOCs between Plan Approval No. 23-0119E (revised) and Plan Approval No. 23-0119K, ETMT is not required to surrender any additional VOC ERCs).

To satisfy LAER requirements, DEP has added more stringent leak detection and repair (LDAR) requirements for the fugitive emissions components of the single aggregated project.

Pursuant to 25 Pa. Code §§ 127.44–127.46, a public comment period will begin on August 5, 2023, for the submission of written comments, suggestions, objections, or other information regarding the proposed Plan Approval. Submissions may be made in writing to Mr. James D. Rebarchak, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401, or electronically at ra-epseroagpubcom@pa.gov. Each submission must contain the name, address, and telephone number of the person(s) submitting the comments, identification of the proposed Plan Approval and condition number(s), and a concise statement regarding the relevancy of the information or objections to issuance of the proposed Plan Approval.

In addition, pursuant to 25 Pa. Code § 127.48, DEP will hold a combined public meeting and hearing on Tuesday, September 19, 2023, at The Ballrooms at Boothwyn, 1405 Meetinghouse Road, Boothwyn, PA 19061, from 6:00 PM–8:00 PM. The public meeting will provide a brief explanation of the project with an opportunity to ask questions and receive answers from the program. Following the meeting, the public hearing will be held to receive oral and written testimony regarding DEP's intent to issue Air Quality Plan Approval No. 23-0119K.

Persons wishing to present testimony at the hearing should contact Ms. Stephanie Berardi, Regional Communications Manager, at sberardi@pa.gov or 484.250.5808. Individuals should register in advance to present testimony the day of the hearing. Oral testimony will be limited to 3 minutes per individual. Each organization is requested to designate one witness to present testimony on its behalf and time may not be relinquished to others. A stenographer will be present to record the testimony. DEP requests that presenters bring two copies of written remarks to aid in the transcription of testimony.

Persons with a disability who wish to comment and require an auxiliary aid, service, or other accommodations may contact Ms. Stephanie Berardi through the Pennsylvania AT&T Relay Service at 800.654.5984 (TDD), to discuss how DEP may accommodate your needs.

Pursuant to 25 Pa. Code § 127.49, persons unable to attend the public hearing may submit written statements and exhibits to DEP, in the same manner as specified above, within 10 days after the public hearing. All comments, whether delivered orally at the hearing or submitted to DEP in writing, shall merit equal consideration. Therefore, the public comment period will open on August 5, 2023, and remain open through September 29, 2023.

Should inclement weather postpone the hearing date, this information will be posted at www.dep.pa.gov/southeast. Please contact Ms. Stephanie Berardi or monitor our website to determine if a hearing will be held.

Copies of the Plan Approval application, proposed Plan Approval, and other relevant information are available for public review online at the above web address; at the Mary M. Campbell Marcus Hook Public Library, 1015 Green Street; Suite B, Marcus Hook, PA 19061 (phone number: 610.485.6519); at the Marcus Hook Municipal Building, 1111 Market Street, Marcus Hook, PA 19061 (phone number: 610.485.1341); or at DEP's Southeast Regional Office, 2 East Main Street, Norristown, PA 19401. An appointment to review the documents at DEP's Southeast Regional Office may be scheduled by contacting the Records Management Section of DEP at 484.250.5910 between 8:00 AM–4:00 PM, Monday–Friday, except holidays.

Intent to Issue a Plan Approval and Intent to Issue or Amend an Operating Permit Plan Approval No. 23-0119K Marcus Hook Borough, Delaware County

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- A new boil-off gas (BOG) system, consisting of a compressor, chiller, and related equipment.
- New piping, fugitive emissions components, and process vents associated with the new ethane chiller train and BOG system.
- Updated piping and fugitive emissions components for certain existing ethane chilling process equipment (i.e., the feed metering, feed heating, amine treatment, and demethanizer off-gas systems).
- Operational, maintenance, and emergency connections from the new ethane chiller train to the West Cold Flare (Source ID C01) permitted under Title V Operating Permit (TVOP) No. 23-00119 and Plan Approval No. 23-0119E (revised).
- Operational, maintenance, and emergency connections from the new BOG system to the Project Phoenix Cold Flare (Source ID C04) authorized under Plan Approval No. 23-0119J.
- Additional steam demand on the three existing auxiliary boilers (1 and 3–4; Source IDs 031 and 033–034) permitted under TVOP No. 23-00119 and Plan Approval No. 23-0119E (revised) by certain existing ethane chilling process equipment (i.e., the dehydrators and water/ethylene glycol (WEG) system utility), as well as for maintenance purposes, to support the additional ethane throughput through new and existing ethane chilling process equipment.

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In accordance with 40 CFR § 52.21(a)(2)(iv)(c)–(d), DEP has determined the following emissions increases for the single **aggregated project**:

- CO: 103.26 *tons/yr*
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- VOCs: 182.41 *tons/yr*

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- CO: 103.90 *tons/yr*
- GHGs: 260,855 *tons/yr*
- NO_x: 63.16 *tons/yr*

Based on the definition of the term "significant" in 40 CFR § 52.21(b)(23) and 25 Pa. Code § 121.1, the single aggregated project is a major modification subject to the PSD requirements of 40 CFR § 52.21; adopted in their entirety by DEP and incorporated by reference under 25 Pa. Code § 127.83; for CO, GHGs, NO_x, and PM_{2.5}.

In accordance with 40 CFR § 52.21(j)(1), the major modification is required to meet each applicable emissions limitation under the State Implementation Plan and each applicable emissions standard under 40 CFR Parts 60, 61, and 63. All applicable emissions limitations and standards for the sources and equipment of the single aggregated project have been previously included in TVOP No. 23-00119 and Plan Approval Nos. 23-0119E (revised) and 23-0119J, and/or are addressed under Plan Approval No. 23-0119K.

In accordance with 40 CFR § 52.21(j)(3), DEP has addressed best available control technology (BACT) requirements for the following sources and equipment of the single aggregated project:

- West Cold Flare (Source ID C01).
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- Project Phoenix Cold Flare (Source ID C04).
- Fugitive emissions components (Source IDs 103, 401, and 501).

ETMT has performed air quality analyses for the proposed major modification at its MHT using air dispersion modeling that satisfy the requirements of the PSD regulations. Data

associated with ETMT's air quality analyses are available in electronic format upon request. In accordance with 40 CFR § 52.21(k) through (n), ETMT conducted air quality analyses of the net emissions increase of CO, NO_x, and PM_{2.5} for the proposed major modification of MHT. ETMT's source impact analyses demonstrate that the net emissions increase due to the major modification of MHT would not cause or contribute to air pollution in violation of the National Ambient Air Quality Standards for CO, NO₂, or PM_{2.5}. Additionally, ETMT's source impact analyses demonstrate that the net emissions increase due to the major modification of MHT would not cause or contribute to air pollution in violation of the Class II or Class I PSD increments for NO₂ or PM_{2.5}.

In accordance with 40 CFR § 52.21(o), ETMT provided additional impact analyses of the impairment to visibility, soils, and vegetation that would occur as a result of the major modification of MHT.

In accordance with 40 CFR § 52.21(p), written notice of ETMT's proposed major modification of MHT has been provided to the Federal Land Managers of nearby federal Class I areas. The notice included initial screening calculations which demonstrate that the net emissions increase due to the major modification of MHT would have negligible impacts on air quality related values and visibility in nearby federal Class I areas.

In accordance with the public notice requirements in 25 Pa. Code § 127.45(b)(4), the degree of Class II and Class I PSD increment consumption expected to result from ETMT's major modification of MHT is provided in the following tables:

Degree of Class II PSD Increment Consumption from ETMT's Major Modification of MHT

Pollutant	Averaging Time	Degree of Class II PSD Increment Consumption		Class II PSD Increment micrograms per cubic meter
		micrograms per cubic meter	Percent of Class II PSD Increment	
NO ₂	Annual	0.18437	0.74 %	25
	24-hour	0.17276	1.92 %	9
PM-2.5	Annual	0.02093	0.52 %	4

Degree of Class I PSD Increment Consumption from ETMT's Major Modification of MHT

Pollutant	Averaging Time	Degree of Class I PSD Increment Consumption		Class I PSD Increment micrograms per cubic meter
		micrograms per cubic meter	Percent of Class I PSD Increment	
NO ₂	Annual	0.00151	0.06 %	2.5
	24-hour	0.02098	1.05 %	2
PM-2.5	Annual	0.00123	0.12 %	1

In accordance with 25 Pa. Code §§ 127.203a and 127.203(b)(1)(i), DEP has performed an NSR analysis to determine whether the aggregated emissions increases of NO_x or VOCs (i.e., the sum of the emissions increases for the single aggregated project and the other increases in net emissions occurring over a consecutive 5 calendar-year period), exceed 25 tons/yr. The aggregated emissions increases of NO_x and VOCs are the following:

- NO_x: 63.15 tons/yr
- VOCs: 183.88 tons/yr

Therefore, the single aggregated project is subject to NSR requirements for both NO_x and VOCs, and ETMT is required to implement Lowest Achievable Emission Rate (LAER) in accordance with 25 Pa. Code §§ 127.203(b)(2) and 127.205(1), and offset the aggregated emissions increases of NO_x and VOCs in accordance with 25 Pa. Code §§ 127.201(d) and 127.210(a). Based on the required offset ratio of 1.3:1, ETMT is required to surrender 82.09 tons of NO_x Emission Reduction Credits (ERCs) and 239.04 tons of VOC ERCs for the single aggregated project. ETMT has previously surrendered, and DEP has previously retired, 79.15

tons of NO_x ERCs and 193.79 tons of VOC ERCs under previously-issued Plan Approvals for certain sources and equipment under the single aggregated project. Moreover, ETMT is still required to surrender 49.93 tons of VOC ERCs under Plan Approval No. 23-0119J prior to the commencement of operation of the sources and equipment under that Plan Approval. Therefore, to fully offset the aggregated emissions increases of NO_x, ETMT is required to surrender an additional 2.94 tons of NO_x ERCs for the single aggregated project (based on differences with the timeframes DEP used to determine the other increases in net emissions of VOCs between Plan Approval No. 23-0119E (revised) and Plan Approval No. 23-0119K, ETMT is not required to surrender any additional VOC ERCs).

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Intent to Issue a Plan Approval and Intent to Issue or Amend an Operating Permit Plan Approval No. 23-0119K Marcus Hook Borough, Delaware County

The Department of Environmental Protection (DEP) intends to issue Air Quality Plan Approval No. 23-0119K to Energy Transfer Marketing & Terminals, L.P. (ETMT), to expand the ethane chilling capacity at its Marcus Hook Terminal (MHT), located at 100 Green Street, Marcus Hook, PA 19061-0426, from approximately 75,000 *bbl/day* to approximately 85,000 *bbl/day*.

ETMT has proposed the following to accommodate the expansion (collectively referred to as the "Ethane Chilling Expansion Project"):

- The installation of the following ethane chilling process equipment:
- A new (fourth) ethane chiller train, consisting of a mixed refrigerant liquid compressor and heat exchanger, ethane chiller, and related equipment, in parallel with the three existing ethane chiller trains at the MHT.
- A new boil-off gas (BOG) system, consisting of a compressor, chiller, and related equipment.
- New piping, fugitive emissions components, and process vents associated with the new ethane chiller train and BOG system.
- Updated piping and fugitive emissions components for certain existing ethane chilling process equipment (i.e., the feed metering, feed heating, amine treatment, and demethanizer off-gas systems).
- Operational, maintenance, and emergency connections from the new ethane chiller train to the West Cold Flare (Source ID C01) permitted under Title V Operating Permit (TVOP) No. 23-00119 and Plan Approval No. 23-0119E (revised).
- Operational, maintenance, and emergency connections from the new BOG system to the Project Phoenix Cold Flare (Source ID C04) authorized under Plan Approval No. 23-0119J.
- Additional steam demand on the three existing auxiliary boilers (1 and 3-4; Source IDs 031 and 033-034) permitted under TVOP No. 23-00119 and Plan Approval No. 23-0119E (revised) by certain existing ethane chilling process equipment (i.e., the dehydrators and water/ethylene glycol (WEG) system utility), as well as for maintenance purposes, to support the additional ethane throughput through new and existing ethane chilling process equipment.

In accordance with 40 CFR § 52.21(a)(2)(iv)(c)-(d), DEP has determined the following emissions increases for the proposed Ethane Chilling Expansion Project:

- Carbon Monoxide [CO]: 2.033 *tons/yr*
- Greenhouse Gases (GHGs) (expressed as carbon dioxide equivalents [CO₂e]): 17,454 *tons/yr*
- Lead [Pb]: 0.00117 *tons/yr*
- Nitrogen Oxides [NO_x] (all NO_x expressed as nitrogen dioxide [NO₂]): 4.132 *tons/yr*
- Particulate Matter [PM]: 0.165 *tons/yr*
- PM less than 10 μm in aerodynamic diameter [PM₁₀]: 0.165 *tons/yr*
- PM less than 2.5 μm in aerodynamic diameter [PM_{2.5}]: 0.165 *tons/yr*
- Sulfur dioxide [SO₂]: 0.455 *tons/yr*
- Sulfuric Acid Mist [H₂SO₄]: 0.00678 *tons/yr*
- Volatile organic compounds [VOCs]: 4.809 *tons/yr*

In accordance with a 2019 adjudication decision by the Environmental Hearing Board, DEP has evaluated the Ethane Chilling Expansion Project and all past authorizations for sources and equipment related to the natural gas liquids (NGLs) processing, storage, and distribution operations at the MHT as a single aggregated project to determine the applicability of Prevention of Significant Deterioration of Air Quality (PSD) and New Source Review (NSR) requirements. The authorizations comprising the single aggregated project are as follows (in reverse chronological order):

- The Ethane Chilling Expansion Project under Plan Approval No. 23-0119K (complete appli-

cation received on March 9, 2022).

- De Minimis Emissions Increase (written notice received January 4, 2022).
- Request for Determination of Changes of Minor Significance and Exemption from Plan Approval/Operating Permit (RFD) No. 9332 (approved September 3, 2021).
- De Minimis Emissions Increase (written notice received May 19, 2021).
- RFD No. 9156 (approved May 13, 2021).
- Plan Approval Nos. 23-0119E (revised) and 23-0119J (concurrently issued on February 12, 2021). [Note: DEP previously reevaluated all prior authorizations for sources and equipment related to the NGLs processing, storage, and distribution operations at the MHT under Plan Approval Nos. 23-0119E (revised) to determine the applicability of PSD and NSR requirements up to that point.]

In accordance with 40 CFR § 52.21(a)(2)(iv)(c)-(d), DEP has determined the following emissions increases for the single **aggregated project**:

- CO: 103.26 *tons/yr*
- GHGs: 260,756 *tons/yr*
- H₂SO₄: 0.0642 *tons/yr*
- NO_x: 63.04 *tons/yr*
- Pb: 0.00801 *tons/yr*
- PM: 4.039 *tons/yr*
- PM₁₀: 3.829 *tons/yr*
- PM_{2.5}: 1.983 *tons/yr*
- SO₂: 17.94 *tons/yr*
- VOCs: 182.41 *tons/yr*

Based on the definition of the term "significant emissions increase" in 40 CFR § 52.21(b)(40), DEP has determined that the single aggregated project results in significant emissions increases of CO, CO₂e, NO_x, and PM_{2.5} (the latter based on NO_x being a PM_{2.5} precursor). Therefore, in accordance with 40 CFR § 52.21(b)(3), DEP has performed a netting analysis summing these significant emissions increases with other contemporaneous increases in actual emissions at the MHT and determined the following net emissions increases for the single aggregated project:

- CO: 103.90 *tons/yr*
- GHGs: 260,855 *tons/yr*
- NO_x: 63.16 *tons/yr*

Based on the definition of the term "significant" in 40 CFR § 52.21(b)(23) and 25 Pa. Code § 121.1, the single aggregated project is a major modification subject to the PSD requirements of 40 CFR § 52.21; adopted in their entirety by DEP and incorporated by reference under 25 Pa. Code § 127.83; for CO, GHGs, NO_x, and PM_{2.5}.

In accordance with 40 CFR § 52.21(j)(1), the major modification is required to meet each applicable emissions limitation under the State Implementation Plan and each applicable emissions standard under 40 CFR Parts 60, 61, and 63. All applicable emissions limitations and standards for the sources and equipment of the single aggregated project have been previously included in TVOP No. 23-00119 and Plan Approval Nos. 23-0119E (revised) and 23-0119J, and/or are addressed under Plan Approval No. 23-0119K.

In accordance with 40 CFR § 52.21(j)(3), DEP has addressed best available control technology (BACT) requirements for the following sources and equipment of the single aggregated project:

- West Cold Flare (Source ID C01).
- East Cold Flare (Source ID C02).
- Project Phoenix Cold Flare (Source ID C04).
- Fugitive emissions components (Source IDs 103, 401, and 501).

ETMT has performed air quality analyses for the proposed major modification at its MHT using air dispersion modeling that satisfy the requirements of the PSD regulations. Data

associated with ETMT's air quality analyses are available in electronic format upon request. In accordance with 40 CFR § 52.21(k) through (n), ETMT conducted air quality analyses of the net emissions increase of CO, NO_x, and PM_{2.5} for the proposed major modification of MHT. ETMT's source impact analyses demonstrate that the net emissions increase due to the major modification of MHT would not cause or contribute to air pollution in violation of the National Ambient Air Quality Standards for CO, NO₂, or PM_{2.5}. Additionally, ETMT's source impact analyses demonstrate that the net emissions increase due to the major modification of MHT would not cause or contribute to air pollution in violation of the Class II or Class I PSD increments for NO₂ or PM_{2.5}.

In accordance with 40 CFR § 52.21(o), ETMT provided additional impact analyses of the impairment to visibility, soils, and vegetation that would occur as a result of the major modification of MHT.

In accordance with 40 CFR § 52.21(p), written notice of ETMT's proposed major modification of MHT has been provided to the Federal Land Managers of nearby federal Class I areas. The notice included initial screening calculations which demonstrate that the net emissions increase due to the major modification of MHT would have negligible impacts on air quality related values and visibility in nearby federal Class I areas.

In accordance with the public notice requirements in 25 Pa. Code § 127.45(b)(4), the degree of Class II and Class I PSD increment consumption expected to result from ETMT's major modification of MHT is provided in the following tables:

Degree of Class II PSD Increment Consumption from ETMT's Major Modification of MHT

Pollutant	Averaging Time	Degree of Class II PSD Increment Consumption		Class II PSD Increment micrograms per cubic meter
		micrograms per cubic meter	Percent of Class II PSD Increment	
NO ₂	Annual	0.18437	0.74 %	25
	24-hour	0.17276	1.92 %	9
PM-2.5	Annual	0.02093	0.52 %	4

Degree of Class I PSD Increment Consumption from ETMT's Major Modification of MHT

Pollutant	Averaging Time	Degree of Class I PSD Increment Consumption		Class I PSD Increment micrograms per cubic meter
		micrograms per cubic meter	Percent of Class I PSD Increment	
NO ₂	Annual	0.00151	0.06 %	2.5
	24-hour	0.02098	1.05 %	2
PM-2.5	Annual	0.00123	0.12 %	1

In accordance with 25 Pa. Code §§ 127.203a and 127.203(b)(1)(i), DEP has performed an NSR analysis to determine whether the aggregated emissions increases of NO_x or VOCs (i.e., the sum of the emissions increases for the single aggregated project and the other increases in net emissions occurring over a consecutive 5 calendar-year period), exceed 25 tons/yr. The aggregated emissions increases of NO_x and VOCs are the following:

- NO_x: 63.15 tons/yr
- VOCs: 183.88 tons/yr

Therefore, the single aggregated project is subject to NSR requirements for both NO_x and VOCs, and ETMT is required to implement Lowest Achievable Emission Rate (LAER) in accordance with 25 Pa. Code §§ 127.203(b)(2) and 127.205(1), and offset the aggregated emissions increases of NO_x and VOCs in accordance with 25 Pa. Code §§ 127.201(d) and 127.210(a). Based on the required offset ratio of 1.3:1, ETMT is required to surrender 82.09 tons of NO_x Emission Reduction Credits (ERCs) and 239.04 tons of VOC ERCs for the single aggregated project. ETMT has previously surrendered, and DEP has previously retired, 79.15

tons of NO_x ERCs and 193.79 tons of VOC ERCs under previously-issued Plan Approvals for certain sources and equipment under the single aggregated project. Moreover, ETMT is still required to surrender 49.93 tons of VOC ERCs under Plan Approval No. 23-0119J prior to the commencement of operation of the sources and equipment under that Plan Approval. Therefore, to fully offset the aggregated emissions increases of NO_x, ETMT is required to surrender an additional 2.94 tons of NO_x ERCs for the single aggregated project (based on differences with the timeframes DEP used to determine the other increases in net emissions of VOCs between Plan Approval No. 23-0119E (revised) and Plan Approval No. 23-0119K, ETMT is not required to surrender any additional VOC ERCs).

To satisfy LAER requirements, DEP has added more stringent leak detection and repair (LDAR) requirements for the fugitive emissions components of the single aggregated project.

Pursuant to 25 Pa. Code §§ 127.44–127.46, a public comment period will begin on August 5, 2023, for the submission of written comments, suggestions, objections, or other information regarding the proposed Plan Approval. Submissions may be made in writing to Mr. James D. Rebarchak, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401, or electronically at ra-epseroagpubcom@pa.gov. Each submission must contain the name, address, and telephone number of the person(s) submitting the comments, identification of the proposed Plan Approval and condition number(s), and a concise statement regarding the relevancy of the information or objections to issuance of the proposed Plan Approval.

In addition, pursuant to 25 Pa. Code § 127.48, DEP will hold a combined public meeting and hearing on Tuesday, September 19, 2023, at The Ballrooms at Boothwyn, 1405 Meetinghouse Road, Boothwyn, PA 19061, from 6:00 PM–8:00 PM. The public meeting will provide a brief explanation of the project with an opportunity to ask questions and receive answers from the program. Following the meeting, the public hearing will be held to receive oral and written testimony regarding DEP's intent to issue Air Quality Plan Approval No. 23-0119K.

Persons wishing to present testimony at the hearing should contact Ms. Stephanie Berardi, Regional Communications Manager, at sberardi@pa.gov or 484.250.5808. Individuals should register in advance to present testimony the day of the hearing. Oral testimony will be limited to 3 minutes per individual. Each organization is requested to designate one witness to present testimony on its behalf and time may not be relinquished to others. A stenographer will be present to record the testimony. DEP requests that presenters bring two copies of written remarks to aid in the transcription of testimony.

Persons with a disability who wish to comment and require an auxiliary aid, service, or other accommodations may contact Ms. Stephanie Berardi through the Pennsylvania AT&T Relay Service at 800.654.5984 (TDD), to discuss how DEP may accommodate your needs.

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