ENERGY TRANSFER

Summary of ETMT's Air Plan Approval Application 23-0119K

Energy Transfer Marketing & Terminals L.P. (ETMT), a subsidiary of Energy Transfer, L.P., is proposing to add process equipment to the Marcus Hook Terminal (MHT) located in Marcus Hook, Pennsylvania to expand the existing ethane chilling capacity at the MHT. For the purposes of this plan approval application, the project will be referred to as the "Ethane Chilling Expansion Project".

This Project will allow for additional processing capacity for liquefied ethane products received through the existing pipelines which terminate at the MHT. The Ethane Chilling Expansion Project will add to the existing ethane processing capacity at the MHT by updating existing process equipment in key areas and adding a new ethane chiller and BOG system. The overall MHT ethane process, which will be expanded as a result of the Ethane Chilling Expansion Project, is described as follows. When the ethane is received at the MHT, it is treated to remove carbon dioxide (CO2) via an amine treatment system and water via a molecular sieve dehydration system. Methane is removed and recovered from the ethane feedstock using a Demethanizer. Treated, dry ethane is chilled before being routed to refrigerated product storage tanks and ultimately transferred offsite. The project involves a specific process design for the planned ethane feedstock, and it will utilize the available capacity of existing utilities at the site.

For this project, ETMT is proposing to:

- Increase the ethane chilling capacity by approximately 10,000 barrels per day (BPD);
- Install (1) new refrigeration train, including one Mixed Refrigerant Liquid (MRL) compressor;
- Install (1) new Boil Off Gas (BOG) system; and
- Install additional components on the feed metering, feed heating, amine, and off-gas systems.

The proposed emissions from this project are as follows:

- Carbon monoxide [CO]: 2.39 *tons per year*
- Greenhouse gases (GHG) [CO_2e]: 20,841 *tons per year*
- Lead [Pb]: 0.0007 *tons per year*
- Nitrogen oxides [NO_x] (all NO_x also treated as nitrogen dioxide [NO_2]: 4.23 *tons per year*
- Particulate matter [PM]: 0.14 *tons per year*
- PM less than 10 µm in aerodynamic diameter [PM_{10}]: 0.14 *tons per year*
- PM less than 2.5 µm in aerodynamic diameter [$PM_{2.5}$]: 0.14 *tons per year*
- Sulfur oxides [SO_x] (all SO_x also treated as sulfur dioxide [SO_2]: 0.43 *tons per year*
- Sulfuric acid mist [H_2SO_4]: 0.01 *tons per year*
- Volatile organic compounds [VOCs]: 5.97 *tons per year*

The project will comply with all applicable air quality requirements, including the use of best-available technology to control emissions. The Pennsylvania Department of Environmental Protection (DEP) will be holding an Informational Meeting on June 8, 2022 at 6 PM at the Marcus

Hook Municipal Building located at 1111 Market Street in Marcus Hook, PA 19061. Representatives from ETMT and DEP will be available to explain the project, the permitting process, and answer any questions the public may have regarding the proposed project or permitting process. Additionally, the submission of written comments, suggestions, objections, or other information regarding the proposed Plan Approval 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-epseroaqpubcom@pa.gov.

If you would like to review the application, hard copies are available at these convenient locations or online at the link below:

Mary M. Campbell Marcus Hook Public Library
1015 Green Street, Suite B
Marcus Hook, PA 19061
610-485-6519

Municipal Building
1111 Market Street
Marcus Hook, PA 19061
610-485-1341

www.dep.pa.gov/ETMT

Emergency Planning and Response

MHT has its own emergency response organization known as Station 80 in Delaware County and 35-14 in New Castle County. The fire brigade is made up of 65 members trained in fire, rescue, hazardous materials response, emergency medical services, and spill response. Members of the team are on-site 24/7. The fixed fire protection system currently contains 76 suppression systems, 46 detection systems and 10 fixed fire pumps.

Emergency response assets include three engine trucks, one foam tanker, three tactical units, two high-flow trailers, three marine units, one aerial tower truck, two super pumpers and one high-expansion foam unit. The team regularly conducts internal drills and works closely with neighboring fire departments.

For more information, please contact:

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