



Delaware Storage and Pipeline Company Jet Fuel Additive Project

Coastal Zone Permit Application

Delaware Department of Natural Resources and Environmental Control
Port Mahon, Delaware
Public Hearing
November 19, 2019

Delaware Storage and Pipeline Company

- DSPC has supplied jet fuel to Dover Air Force Base since 1960
- Jet fuel delivered via barge to DSPC dock at Port Mahon
- Fuel transferred to above ground storage tanks at bulk facility
- Fuel then transferred to DAFB via pipeline



Additive Project

- Department of Defense requiring bulk facilities that supply jet fuel to develop capability to introduce additives
- Additives -- icing inhibitor, anti-static agent, corrosion inhibitor
- With additives, jet fuel meets NATO standards designed to enhance safety and operations
- Jet fuel currently being delivered to DSPC with additives
- Project will allow DOD to purchase commercial jet fuel locally and on spot market and bring consistency, cost effectiveness to fuel systems
- DSPC submitted status decision application – DNREC determined permit was required

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Project Elements

- New 12,000 gallon, double-walled above-ground storage tank for ice inhibitor
- New 242-square foot metal building for two, 250-gallon metal totes for corrosion inhibitor, anti-static agent, equipment and storage
- Additional 3885 sq. ft. impervious surface (concrete tank pad, building, vehicle access areas)
- Additives injected into jet fuel through closed systems as fuel transferred from barge to tanks



12,000 gallon tank at New Jersey facility

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Project Elements



Similar metal building – NJ facility



250-gallon metal tote – NJ facility

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Environmental impacts

- Air emissions
 - Estimated 1.23 pounds per year from ice inhibitor tank filling
 - Estimated exhaust emissions from delivery trucks is 2.46 pounds
 - Total annual air emissions estimated 3.69 pounds
- Stormwater
 - 3885 sq. ft. of additional impervious surface will generate estimated 112,000 gallons but stormwater will infiltrate on site and not be collected or discharged to another location
 - Site disturbance less than 5,000 sq. ft. – project not subject to post-construction stormwater management
- Solid Waste
 - Minimal solid waste expected from construction, operations

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Environmental Offsets

- Environmental Offset Proposal Reduction Claim
 - 2001 donation of approximately 500 acres of lands at Port Mahon to State of Delaware DNREC Division of Fish and Wildlife Little Creek Wildlife Area
 - \$7000 donation to legal costs of litigation to settle ownership claims



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Environmental Offset Proposal

- Offset proposal targets 3.69 pounds of annual air emissions from delivery truck exhaust and ice inhibitor tank operations
- Offset proposal based on ecosystem/air quality benefits derived from forests
- One acre of forest estimated to remove 103.9 pounds of air pollutants annually
- Average per acre of forest value with easement in Kent County \$3,583
- Proposed offset is \$1,000 donation to Kent County Conservancy to preserve .28 acres forests in the Coastal Zone that would remove 29 pounds of air emissions
- Air quality benefit from proposal is approximately seven times greater than estimated impacts



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