

Alabama State Port Authority

A Look at Non-Renewable Energy Projects at the Port of Mobile

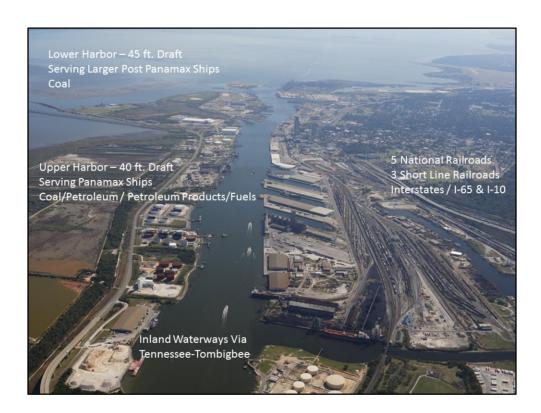


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American Association of Port Authorities

Maritime Economic Development Energy Projects Seminar

www.asdd.com





Economic Impact

- In 2014, The Port of Mobile Handled 19.6M Tons of Coal Per ASPA
- In 2012, The Port of Mobile Handled 10.4M Tons of Petroleum and Petroleum Products Per USACE
- Coal Sector at the Port of Mobile Generates*
 - ✓ 7,097 Jobs

 - √ \$764 Million in Economic Value
- Petroleum Sector at the Port of Mobile Generates**
 - ✓ Feedstock for Four (4) Regional Refineries and 10% of the Total U.S. Refined Fuel Supply
 - ✓ 5,220 Jobs

 - \$687 Million in Economic Value
 - * Martin Associates, Inc., 2013
 - * * Auburn University / Montgomery 2014

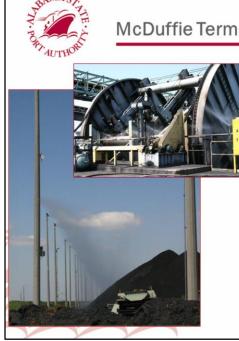


McDuffie Coal Terminal

- 96. ac. Terminal Constructed Between 1972-1975 to Serve Alabama Export Coal
- Phase II Completed in 1981 to Expand Storage, Barge & Rail Handling
- Phase III Delivered in 1983 Added Second Berth; Ship Loader, Barge and Rail Unloaders; 3rd Stacker Reclaimer
- 45 Ft. Channel and Berth Delivered in 1989
- 1996 Delivered Phase IV Improvements Including a Berth Extension, New Berth and Ship Unloader, Conveyors, Barged and Railed Coal Handling Facilities
- 2008 Phase V Converted the Original Export Berth to Handle Import Coal, New Ship Loader, New Stacker Reclaimers, High Speed Rail Loading System and Automation
- Since 2010 Second Shiploader Replaced, 4th Storage Yard Added, Investments in Technology/Automation
- 2013 Launched a 4-Year Automation Program
- Today, McDuffie is a 550 Ac. Import/Export/Domestic Coal Handling Facility with an Annual Throughput Capacity of 30M Tons

Terminal Wide Dust Suppression System

- Rain Birds with Misters & Canons
 - -565 GPM
 - -Misters at 80 ft.
 - -Canons at 60 ft.
 - -Maximum Coal Stack Height at 53 ft.
- Rail Car Unloader Sprinklers
- Conveyor and Transition Point Sprinklers
- Barge Loader Sprinklers
- Rail and Barge Combing
- Paving Program
- Water Trucks Used for Roadways
- Tree & Shrub Planting Program For Ground Dust Suppression
- Employee Work Space Esthetics



McDuffie Terminal Environmental Initiatives

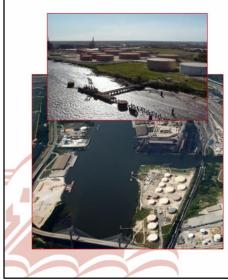
- Community Concerns
- ✓ Air Quality Fugitive Particulates
- ✓ Water Quality Storm Water Controls
- Good Neighbor / Good Business Policies
 - ✓ Over \$8 Million Invested in Dust Controls
 - Sprinklers / Misters Envelop Storage Yards and Transition Points
 - Potable Water Storage and Automation System to Support Dust Suppression System
 - Vegetation
- ✓ Contained Storm Water System
- ✓ New Fogger System
- ✓ Paving Investments to Improve Ground Dust Controls
- ✓ Strict Best Management Practices for Vessel, Rail & Terminal Operations
- ✓ Continuous Training
- ✓ Ongoing Testing Program

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Petroleum Terminals



- Seven (7) Petroleum and Petroleum Products Terminals at the Port
- Community Concerns
 - ✓ Land Use Expanding Tank Construction in the City's I-2 Zoned Areas
- ✓ Air Quality Vapor Capture / Smell
- √ Spills
- Good Neighbor / Good Business Policies
 - Strict Adherence to Best Management Practices for Operations
 - ✓ Continuous Inspections
 - ✓ Continuous Training / Emergency Response Drills
 - ✓ Grassroots Education and Community Outreach Program
- Engagement with Science-based Environmental Groups

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Alabama State Port Authority Thank You!



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