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# 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](http://www.asdd.com)



Lower Harbor – 45 ft. Draft  
Serving Larger Post Panamax Ships  
Coal

Upper Harbor – 40 ft. Draft  
Serving Panamax Ships  
Coal/Petroleum / Petroleum Products/Fuels

5 National Railroads  
3 Short Line Railroads  
Interstates / I-65 & I-10

Inland Waterways Via  
Tennessee-Tombigbee



## Economic Impact

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- 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
  - ✓ \$43 Million in State & Local Taxes
  - ✓ \$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
  - ✓ \$9.6 Million in State & Local Taxes
  - ✓ \$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; 3<sup>rd</sup> 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, 4<sup>th</sup> 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 / Mistlers 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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## Thank You!



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