



# Ferry Maintenance

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Worldwide Ferry Safety Association

April 2023



# Staten Island Ferry

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- St. George Ferry Terminal (Staten Island) to Whitehall Ferry Terminal (Manhattan)
- 5.2 mile route
- 30 minute headway
- ~25 million passengers per year.
- ~38,000 trips per year.



# Ferries

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- 3 Ollis Class (~2021)
  - 320' x 70'
  - 4,500 passengers
  - Diesel-mechanical (EMD/Voith)
  - 10,000 HP
- 3 Molinari Class (~2004)
  - 310' x 70'
  - 4,400 passengers
  - Diesel-electric (EMD/Siemens)
  - 10,800 HP

ABS Class - Rivers

USCG - Subchapter H



# Ferries

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- 2 Barberi Class (~1981)
  - 310' x 70'
  - 5,180 passengers
  - Diesel-mechanical (EMD/Voith)
  - 7,000 HP
- 2 Austen Class (~1986)
  - 207' x 41'-8"
  - 1,280 passengers
  - Diesel-mechanical (EMD/Voith)
  - 3,100 HP

ABS Class - Rivers

USCG - Subchapter H



# Other Assets

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- 1 Small Vehicle Ferry (60' x 35')
- 2 Oil Barges
- 2 Crane Barges
- Deck Barges
- Utility vessels
- 2 Passenger Terminals
- 2 Vehicle Loading Terminals



# Maintenance Philosophy

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## Maintenance Purpose

- Meet passenger transport commitment
- State of Good Repair
- Safety Management System

## Vessel Maintenance Classification

- Running Maintenance and Inspections
- Minor In-service Maintenance
- Major Waterborne Inspection, Maintenance, Repair, Overhaul, and Modifications
- Drydock Inspection, Maintenance, Overhaul, and Repair



# Maintenance Assignments

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- Vessel Crews
- In-house Trades (Ferry Maintenance Facility)
- Outside Technical Support
- Outside Industrial Support
- Drydockings and Major Maintenance Projects



# Maintenance Facilities

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## Ferry Maintenance Facility

- NYCDOT trades staff
- 12 Shops
- Headcount
  - Approx. 100 allowed positions
- Storerooms and Storage Areas

## Drydock Facilities

- Contracts by vessel type



*Ferry charging in Norway*



# Maintenance Management

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- Computerized Maintenance Management System (CMMS)
  - Maximo
  - Track all assets (afloat and shore)
- Work Control Center
  - Planned Maintenance Coordinators
- Work Orders processed in last one year period:
  - 2,312 PM's + 2,139 CM's
- Maintenance management is (for us) a journey



# Thank You

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