

Ferry Transit Division

GOLDEN GATE BRIDGE DISTRICT

Capital Improvement Plan



Ferry Division Fleet Stats

- M.S. Marin
165' Monohull, 715 passengers, 22knots – In Service 12/11/76
- M.S. San Francisco
165' Monohull, 715 passengers, 22knots – In Service 9/12/77
- M.S. Sonoma
165' Monohull, 715 passengers, 22knots – In Service 3/7/77
- M.V. Del Norte
135' Catamaran, 396 passengers, 34knots – In Service 9/8/98
- M.V. Mendocino
141' Catamaran, 450 passengers, 36knots – In Service 9/10/01
- M.V. Napa
143' Catamaran, 400 passengers, 38knots - In Service 5/27/09
- M.V. Chinook
143' Catamaran, 350 passengers, 38knots – In Service 3rd Quarter 2010

Schedule

2007, July - M.S. Marin interior and exterior refurbishment

2008, July – M.V. Mendocino main engine repower

2009, September – M.V. Del Norte total repower

2010, February – M.V. Chinook total refurbishment

2010, May – M.V. Mendocino mini refurbishment

2010, July – M.V. Napa total refurbishment

2010, 4th quarter – M.S. San Francisco total refurbishment

2012, 4th quarter – M.S. Marin main engine repower

2013, 4th quarter – M.S. Sonoma total refurbishment

M.S. Marin – Past and future

- All Spaulding class vessels were totally repower from gas turbines and water jets to diesel engines and propellers in 1985
- All Spaulding Class vessels had their main engines replaced in 2002
- October 27, 2006 the M.S. Marin enters Bay Ship and Yacht for a total interior and exterior refurbishment
 - All new exterior paint and furnishings
 - Total asbestos abatement
 - New interior joinery, ceiling system, seating, furnishings and floor coverings
 - New arrangement of interior including heads, snack bars, doors and windows to accommodate increased bicycle stowage capacity for Sausalito service
 - All new electrical system wiring, generators and switchboards
 - All new HVAC
 - Also included a long list of minor improvements to the vessel
- The M.S. Marin is slated for repower in the 4th quarter of 2012
 - New EPA Tier 2 diesel engines
 - New gearboxes replacing the 25+ year old custom gearboxes presently installed
 - New shafting to mate up with the new gearboxes

M.V. Mendocino

- March 27, 2008 the M.V. Mendocino enters Bay Ship and Yacht for repower of the main engines ;
 - Removal of Cummins EPA Tier 0 engines and replaced with MTU 12V4000M60 EPA Tier 2 engines
 - Rebuilding of existing gearboxes
 - Extensive repairs to the vessels Hamilton water jets
- M.V. Mendocino will undergo a Mini Refurbishment
 - New EPA Tier 2 generators
 - Replacement of floating house vibration mounts
 - Replacement of aging and defective weather tight doors
 - Replacement of aging and damaged floor coverings
 - Major replacement of exterior coatings
 - Resealing of all windows and weather tight penetrations
- Estimated Budget \$1.025M (80%FTA/20%GGBHTD)
 - Exterior Coatings \$500k
 - New Generators \$125k
 - Engineering \$75k
 - Replace/repair Doors, Windows & interior items \$150k
 - Replace House Mounts \$50k
 - PM/Staff \$75k

M.V. Del Norte Repower 9/09-2/10

- Scope of Work
 - Replace existing engines with MTU 12V4000M60 EPA Tier 2 engines
 - Rebuild and re-ratio gearboxes
 - Replace drivelines
 - Replace existing water jets with MJP 550 jets
 - Replace existing generators with Northern-Lights M99C EPA Tier 2 generators
 - Structural modifications due to repower and relocation of generators
- Estimated Budget **\$4.4M (72% Carl Moyer/28%FTA)**
 - Engineering \$400k
 - Engines and drivelines \$1.684M
 - Gearbox rebuild and re-ratio \$425k
 - Water jet purchase and refurbishment \$350k
 - Project Management/Staff time \$112k
 - Shipyard estimate \$2.3M

M.V. Chinook

- January 16, 2009 the M.V. Chinook is purchased from Washington State Ferries, certified for 350 passengers
- April 17, 2009 Engineering Contract awarded for refurbishment engineering, Chinook and Napa
- May 16, 2009 Seating and Furniture Contract awarded, Chinook and Napa
- July 24, 2009 Propulsion system Contract awarded to provide MTU engines, ZF gearboxes, drivelines, fuel treatment system engineering services and vessels monitoring and alarms systems, Chinook and Napa
- Scope of Work
 - Removal of old 2-stroke Detroit Diesel engines with MTU 12V4000M73 EPA Tier 2-20% engines, large increase in horse power to accommodate increased passenger capacity and improved service speeds on three engine operations
 - Replacement of existing gearboxes, drivelines and water jet impellers to accommodate increase in horse power
 - Replacement of vessels control system, monitoring and alarm systems and navigation electronics
 - EPA Tier 0 generators removed and replaced with new Northern-Lights EPA Tier 2 generators
 - Interior Seating, furnishings and other items
- Estimated Budget \$11.705M (ARRA/FTA/GGBHTD)
 - Vessel Acquisition \$2M
 - Engineering \$300k
 - Engines, Gearboxes, Drivelines \$4M
 - Shipyard budget \$4M
 - Miscellaneous Items \$1.4M

M.V. Napa

- January 16, 2009 the M.V. Snohomish is purchased from Washington State Ferries
- May 11, 2009 the M.V. Snohomish arrives in Larkspur after undergoing work necessary to active the vessel from layup status certified for 350 passengers
- May 28, 2009 the M.V. Snohomish is placed into service
- June 10, 2009 the M.V. Snohomish is officially renamed the M.V. Napa and certified for 400 passengers
- Scope of Work
 - Removal of old 2-stroke Detroit Diesel engines with MTU 12V4000M73 EPA Tier 2-20% engines, large increase in horse power to accommodate increased passenger capacity and improved service speeds on three engine operations
 - Replacement of existing gearboxes, drivelines and water jet impellers to accommodate increase in horse power
 - Replacement of vessels control system, monitoring and alarm systems and navigation electronics
 - EPA Tier 0 generators removed and replaced with new Northern-Lights EPA Tier 2 generators
 - Interior Seating, furnishings and other items
- Estimated Budget \$11.705M (FTA/I Bond/GGBHTD)
 - Vessel Acquisition \$2M
 - Engineering \$300k
 - Engines, Gearboxes, Drivelines \$4M
 - Shipyard budget \$4M
 - Miscellaneous Items \$1.4M

M.S. San Francisco

- All Spaulding class vessels were totally repower from gas turbines and water jets to diesel engines and propellers in 1985
- All Spaulding Class vessels had their main engines replaced in 2002
- 4th Quarter 2010 the M.S. San Francisco total refurbishment
- Scope of Work
 - All new exterior paint and furnishings
 - Total asbestos abatement
 - New interior joinery, ceiling system, seating, furnishings and floor coverings
 - Interior Arrangement and Increased bike stowage to accommodate bike traffic in Sausalito service
 - All new electrical system wiring, generators and switchboards
 - New EPA Tier 2 diesel engines
 - New gearboxes replacing the 25+ year old custom gearboxes presently installed
 - New shafting to mate up with the new gearboxes
- Estimated Budget \$10M
 - Engines, Gears and Shafting \$2M
 - Project Management/Staff Time \$200k
 - Engineering \$500k
 - Shipyard budget \$7M

M.S. Sonoma

- The M.S. Sonoma was delivered March 7, 1977
- All Spaulding class vessels were totally repower from gas turbines and water jets to diesel engines and propellers in 1985
- All Spaulding Class vessels had their main engines replaced in 2002
- 4th Quarter 2011 the M.S. Sonoma total refurbishment if funding can be sourced to complete refurbishment and support operation budget. If not the M.S. Sonoma will be sold.
- Scope of Work
 - All new exterior paint and furnishings
 - Total asbestos abatement
 - New interior joinery, ceiling system, seating, furnishings and floor coverings
 - Interior Arrangement and Increased bike stowage to accommodate bike traffic in Sausalito service
 - All new electrical system wiring, generators and switchboards
 - New EPA Tier 2 diesel engines
 - New gearboxes replacing the 25+ year old custom gearboxes presently installed
 - New shafting to mate up with the new gearboxes
- Estimated Budget \$10M
 - Engines, Gears and Shafting \$2M
 - Project Management/Staff Time \$200k
 - Engineering \$500k
 - Shipyard budget \$7M

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