



# USCGC ICY ELFY DATA SHEET



- Hometown: Stafford, VA
- Industry Experience:
  - Shipfitter at Austal USA; Mobile, AL
  - The Intelligence and Security Academy (ISA); Arlington, VA
  - Serco; Alexandria, VA
- Career Plans: Graduate School for Concept Design



- Hometown: Theills, NY
- Industry Experience:
  - Shipfitter at Austal USA; Mobile, AL
  - NAVSEA Submarine Damage Stability Research
  - Naval Architect at Austal USA; Mobile, AL
  - General Dynamics Electric Boat; Groton, CT
- Career Plans: Graduate School for Nuclear Engineering



- Hometown: Fort Lauderdale, FL
- Industry Experience:
  - Shipfitter at Metal Shark Boats; Jeanerette, LA
  - Sea term on *R/V Sikuliaq*
  - Frank and Jimmie's Propeller
- Career Plans: Graduate School for Hydrodynamics



- Hometown: New York, NY
- Industry Experience:
  - Shipfitter at Brooklyn Boatyard; Brooklyn, ME
  - NYC Ferry Hornblower; Brooklyn, NY
  - General Dynamics NASSCO; San Diego, CA
- Career Plans: Electrical Engineering or Hydrodynamics



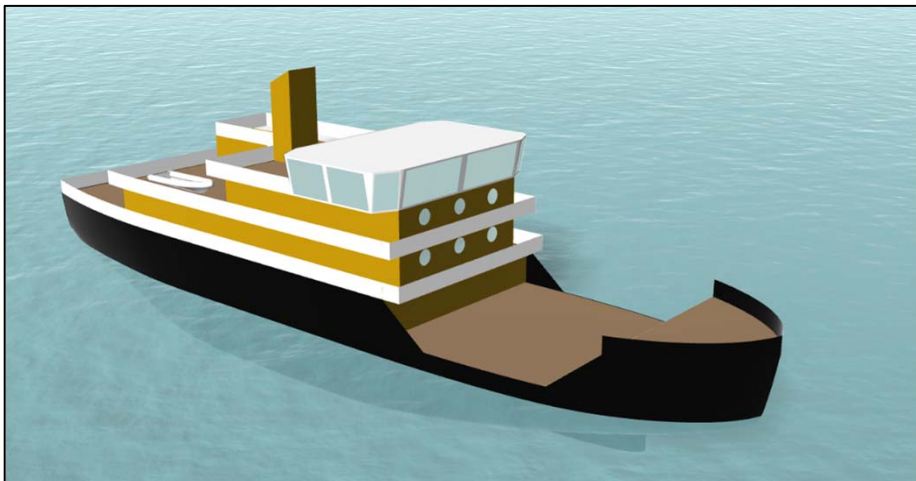


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## Operational Profile

- Icebreaking in winter months, buoy tending in open water
- U.S. Coast Guard support
  - Maritime Law Enforcement
  - Maritime Response
  - Maritime Prevention
  - Maritime Transportation System Management
  - Maritime Security Operations
  - Defense Operations



## Vessel Particulars

|                                  |            |
|----------------------------------|------------|
| LOA (m)                          | 70         |
| LWL (m)                          | 67.6       |
| Beam (m)                         | 16.8       |
| Draft (m)                        | 4          |
| Depth (m)                        | 9.4        |
| Displacement, SW (tonnes)        | 2946       |
| Propulsive, Installed Power (kW) | 6236, 7970 |
| Design Speed in Open Water (kts) | 15         |
| Complement                       | 19         |
| Ice Class                        | PC 6       |

## Icebreaking & Escorting

- Hudson River, coastal New England, Great Lakes
- 3.0 kts through 0.8 m ice and 150 mm snow
- Icebreaking channel width of 16.8 m
- 15-day endurance
- Tow ships of comparable size at 6 kts in Sea State 3
- Tow by bow or stern in ice-covered waters
- DP 2 equivalent

## Buoy Tending

- 20,100 kg safe working load
- 5 m reach over side P&S
- 5 m clear height over the deck, up to Sea State 3
- 160m<sup>2</sup> working deck

## Multi-Mission Capability

- Search and Rescue (SAR)
- On-Scene Commander (OSC) during security operations and pollution response
- Vertical replenishment (VERTREP)
- Carry, deploy, and recover a 6.5 m RHIB, four-wheel all-terrain vehicle, snowmobile

**Break the Ice Without Melting the Ice!**

❖ **ZERO EMISSIONS MODE** for 10% of operational profile



