ROGER REVELLE Midlife Refit
Big Thank You to Federal Funding Agencies*

• Office of Naval Research
• National Science Foundation

• We truly could not do this without you.

• (i.e. * Partners, Advisors, Confidants, Friends)
Competition for Resources

Figure A2-1. PB2020 vs. PB2019 Comparison

- 314 in 2024
- 355 in 2034
Changes in marine fuel sulfur limits will effect global oil markets
Competition for Talent

• NASSCO San Diego ... 34 open positions

• The Navy’s end strength will also increase over the next five years, adding nearly 17,000 sailors

• Nuclear engineer retention bonus = $140,000 for 4 years.

• **25 Top Public Colleges With The Highest-Earning Graduates**
  • No. 1: SUNY Maritime College
  • No. 3: United States Merchant Marine Academy
  • No. 10: University of California, San Diego
Competition for Brightest and Best

- Cal Maritime 84% men, 16% women....why?
- Webb Institute 80% men, 20% women....why?
- Comparison UCSD 52% men, 48% women...
- UC San Diego's diversity champions:
  - **2018 University-wide individual recipients:**
    - Ship Operations - University-Wide Departmental/Unit Recipient - [Video]
Refit schedule

• One year 15 April 2019 to 14 April 2020
• Goal: all production work complete 1 January 2020
Improvements

• Integrated bus...fuel economy
• Repower...increased reliability
• Repower...EPA tier III...lower emissions
• Ballast water treatment system
• Quieter...less on deck fan noise, BT noise, exhaust noise
• Gondola...corrects bubble sweepdown
• Improved mapping and other sonars
• Added life extension, new cranes, new network
First Hull Cut
ROBERT GORDON SPROUL Replacement

• Continue to work with California Partners (CSU) and government officials to identify funding
• Marine Operation Committee: small ship replacement working group