

FEDERAL · RESEARCH VESSEL

PRIME CONTRACTOR

NOAA SHIP OSCAR ELTON SETTE

Integrated PA / Phone / General Alarm System

CUSTOMER

National Oceanic and Atmospheric Administration

CONTRACT NUMBER

1305M224C0029

CONTRACT TYPE

Federal Contract — Standard Purchase Order

NAICS

238210 · 541330

CONTRACT VALUE

\$263,710.40

PERIOD OF PERFORMANCE

August 2024 — January 2025

LOCATION

Honolulu, HI

DIVISIONS

MD Marine Electric · Fail-Safe Electric

SCOPE OF WORK

- › Complete design of integrated Dial Telephone, Public Address (PA), and General Alarm (GA) system
- › Vessel classification determination and ABS coordination (Special Purpose Vessel / Cargo Ship)
- › On-site vessel walk-through and ship check (September 2024)
- › System design per ABS Rules 4-8-2 and 4-8-4, 46 CFR I-J Part 113, SOLAS II-2, and NFPA 70
- › Loud hailer array and foghorn integration on forward mast
- › Fire alarm integration with 5-minute delay announcement capability
- › Automated message repeater programming (Man Aloft, Smoking Lamp, Divers Over Side)
- › Primary control station (Bridge) and secondary control station (Trawl House)
- › Integration with existing alarm bell system via relay contacts for redundancy
- › Complete parts procurement and delivery to Honolulu facility

CLIENT REFERENCE

National Oceanic and Atmospheric Administration

POINT OF CONTACT

AVAILABLE UPON REQUEST

EMAIL

AVAILABLE UPON REQUEST

CPARS RATING AVAILABLE UPON REQUEST

Contract #1305M224C0029

Federal Building, 200 Granby St Suite 815, Norfolk, VA 23510

Contact MDEG for direct POC referral · (253) 383-9983

NOAA SHIP OSCAR ELTON SETTE

PERFORMANCE NARRATIVE · CONTINUED

PERFORMANCE OUTCOMES

MAPPED TO CPARS EVALUATION CATEGORIES PER FAR 42.1503

QUALITY

ABS design package approved on first submission with zero modification requests.

COST

Delivered at contract value. Firm-fixed-price. No change orders requested by contractor.

REGULATORY

Full compliance with ABS Rules 4-8-2 and 4-8-4, 46 CFR I-J Part 113, SOLAS II-2, and NFPA 70.

SCHEDULE

Completed within period of performance; contract extended via Mod P25001 for ABS review thoroughness, not contractor delay.

MANAGEMENT

Coordinated directly with NOAA OMAO; managed 11 formal Change Field Requests to refine requirements.

CLIENT FEEDBACK

NOAA expressed complete satisfaction with the technical approach and contractor responsiveness.

PROJECT NARRATIVE

MD Marine Electric designed and procured an integrated communication system for the NOAA Ship Oscar Elton Sette, a federal research vessel based in Honolulu, Hawaii. The contract required coordination with NOAA's Office of Marine and Aviation Operations and compliance with multiple regulatory frameworks.

The project began with a comprehensive ship check in September 2024 to document existing systems and gather vessel-specific data. Engineering resolved vessel classification questions (confirmed as Special Purpose Vessel / Cargo Ship) and coordinated eleven formal Change Field Requests to refine requirements.

Technical innovations included an automated message repeater for safety announcements, fire alarm integration with a configurable five-minute delay before PA announcement, and redundant architecture allowing the new PA system and existing alarm bells to operate independently if either system fails.

All design documentation met ABS certification requirements. The contract period was extended via Modification P25001 to accommodate a thorough ABS review — a decision that prioritized fully compliant documentation over rushed delivery. NOAA expressed complete satisfaction with the technical approach and contractor responsiveness throughout the design phase.