

U. S. Navy Underwater Construction Teams



Underwater Construction: Enabling Freedom of Action Across the Sea to Land Interface, Where It Matters, When It Matters.

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Commanding Officer
Underwater Construction Team TWO
14 May 2019



Seabees

We build – We fight – We Dive



U. S. Navy Underwater Construction Teams



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Why do we exist?

To enable freedom of action across the sea to land interface, where it matters, when it matters.



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U. S. Navy Underwater Construction Teams

Who are we?

A specialized team of officers and enlisted who are highly trained in waterfront and underwater construction.

- Enlisted Underwater Construction Technicians with a Naval Construction Force background and become U.S. Navy divers.
 - 120 Techs (U.S. Navy wide inventory)
- Ocean Facility Program (OFP) Officers who are Professional Engineers and have a Masters in Ocean Engineering.
 - 65 OFP Officers (U.S. Navy wide inventory)



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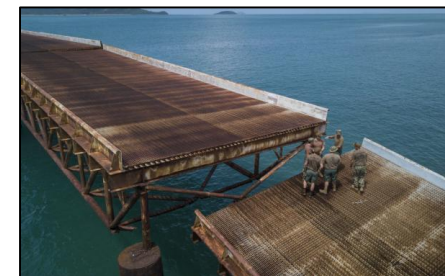
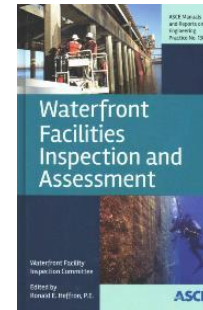
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What do we do?

- Maritime Infrastructure Inspections and Assessments
 - Divers trained in ASCE industry standard topside and underwater inspection procedures
 - Dive certified Professional Engineers on staff with larger reach back support capability
- Hydrographic and Bathymetric Surveys (single beam, side scan)
- Maritime Infrastructure Conventional and Expedient Repairs
 - Piers (concrete, steel, timber)
 - Wharves and Quay Walls
 - Fleet Moorings
 - Undersea Pipelines & Cabling
- Expeditionary Light Salvage (i.e. vehicles, shipping containers, etc.)
- Bridge Inspection and Repair



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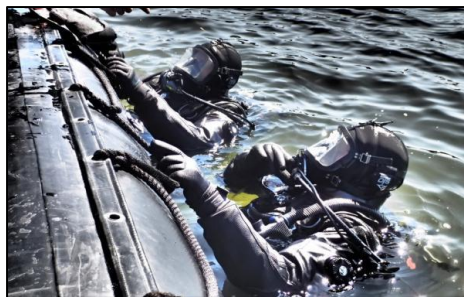
U. S. Navy Underwater Construction Teams

Where do we Operate?



Missions/Environments

- Desert
- Arctic/Ice diving
- Tropical
- Inland, nearshore & offshore
- Contaminated water
- Non-Permissive
- Disaster response
- Contingency operations
- Major combat operations
- Missions of state
- Partner capacity building
- Civ-Mil engagements



Operations Forward

- Indo-Asia-Pacific
 - Oceania (Palau, FSM, RMI)
 - South East Asia (Philippines, Thailand)
 - North East Asia (Japan, South Korea)
- Europe
 - Baltic States
 - Ukraine
- Africa
 - Gulf of Guinea
 - Horn of Africa
- Caribbean
 - Cuba
 - Puerto Rico



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What do we Dive?

- Self Contained Underwater Breathing Apparatus (SCUBA)



- Surface Supplied



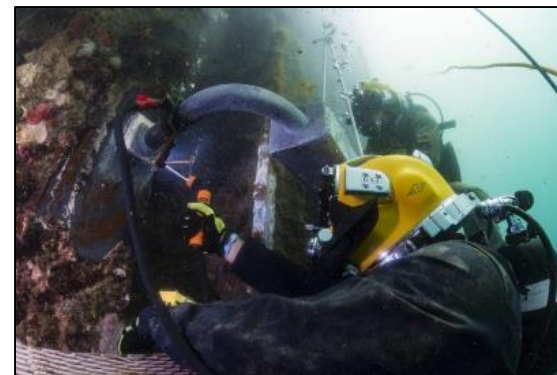
- Transportable Recompression Chamber Systems



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How we do it?

- Underwater Power Tools (drill, grinder, chainsaw, jack hammer)
- Underwater Cutting and Welding
- Precision Demolition
- Ultrasonic Thickness Testing / Bathycorrometer
- Rapid Penetration Testing
- Single Beam and Side Scan
- Navy Dive Computer



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What other Engineer Divers are out there?

US Inventory

- UCT ONE, U.S. Navy (56)
- UCT TWO, U.S. Navy (56)
- 5 U.S. Army Engineer Dive Detachments, (120)



Allied Inventory

- Royal Thai Navy UCT (13)
- Philippine Navy UCT (30)
- Republic of Korea Navy UCT (15)
- Australian Army Engineer Divers (20)
- UK Ministry of Defense Salvage and Maritime Operations Divers
- I am sure I am missing some, a good reason for this conference!



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Recently Added Technology

- Diver Underwater Camera System (DUCS)
- Remote Controlled Single Beam Platform



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Where we are going!

- Unmanned Maritime Assessment Systems

- UUVs
- USVs
- ROVs
- UAVs

Family of systems with integrated sensors, common interface and tailored software package



- More networked dive computer

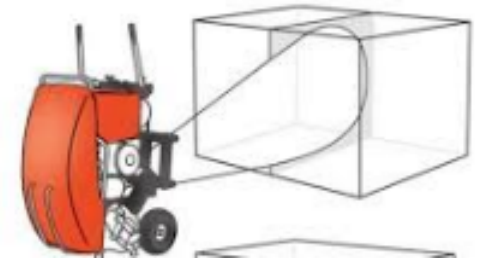
- Extended bottom time
- Optimization of work and data collection
- Increased safety & easier accountability

- Modernized Underwater Tools and Materials

- Battery operated and powder actuated tools
- Unmanned tools
- Smart tools

- Pre-Engineered Waterfront Infrastructure Solutions

- Pre-packaged repair kits
- Modular, lightweight facilities “in a box”
- Analytic engineering software for damage assessment



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U. S. Navy Underwater Construction Teams

Points of Contact



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