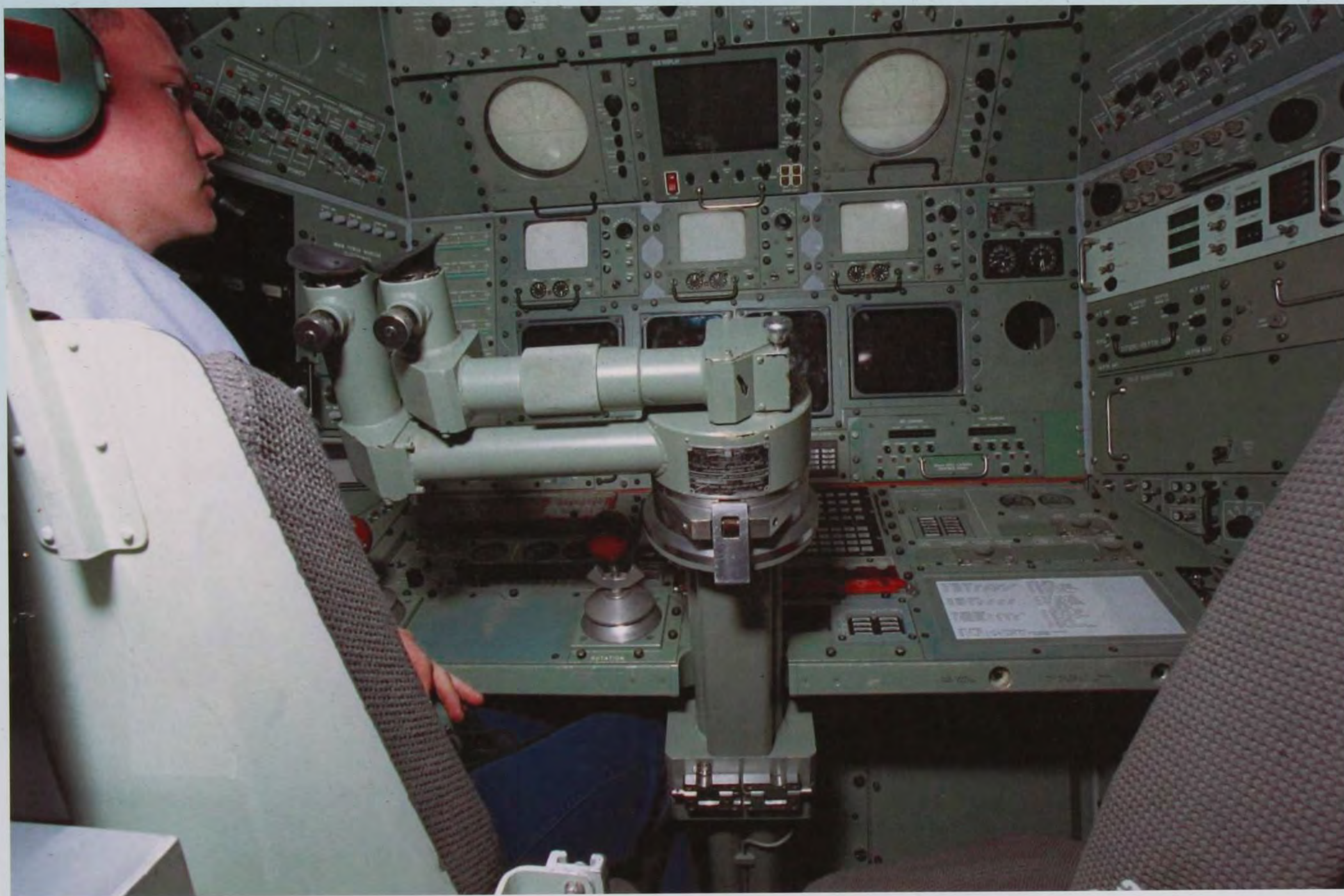


# Deep Submergence Rescue Vehicle



Launched in July 1972, the Deep Submergence Rescue Vehicle (DSRV) *Avalon* was the second of two identical submersibles. Both DSRV's were built as a result of the tragic USS *Thresher* accident in April 1963. The loss of the nuclear submarine *Thresher* and all crew highlighted the need for the Navy to develop a dependable, rapid deployment rescue system for downed submarines. Following the recommendations of a special presidential review group, the Deep Submergence Rescue System was developed in the mid-1960s. The deep submergence rescue vehicles *Mystic* (DSRV 1) and *Avalon* (DSRV 2) of the Deep Submergence Unit (DSU) emerged from that program.

The DSRV vehicles offered a quick response, all-weather capable system for rescuing the crew of a submarine immobilized on the sea floor. *Mystic* and *Avalon* are the first submersibles that were designed to be readily transported by land, air, on or beneath the sea. They could operate independently of surface conditions or under ice for rapid response to an accident anywhere in the world with a maximum operating depth of 5000 feet.

After arriving at a rescue site, the DSRV *Avalon* could dive, locate and attach itself to a disabled submarine (DISSUB). At that point, the DISSUB's access hatches would open and crew from the DISSUB could enter directly into the DSRV. The DSRV could then detach itself from the submarine and transfer the rescued personnel to the support ship, a specially modified submarine or a surface ship.

The DSRV *Avalon* was deactivated in 2000 and her sister ship *Mystic* by 2008. The next generation system, Submarine Rescue Diving and Recompression System (SRDRS), has replaced the DSRV system. Like the DSRV's, the newer SRDS is based at the Naval Air Station Coronado Island, California, ready to respond in a matter of hours to a submarine emergency in any of the world's oceans

D S R V



# DSRV

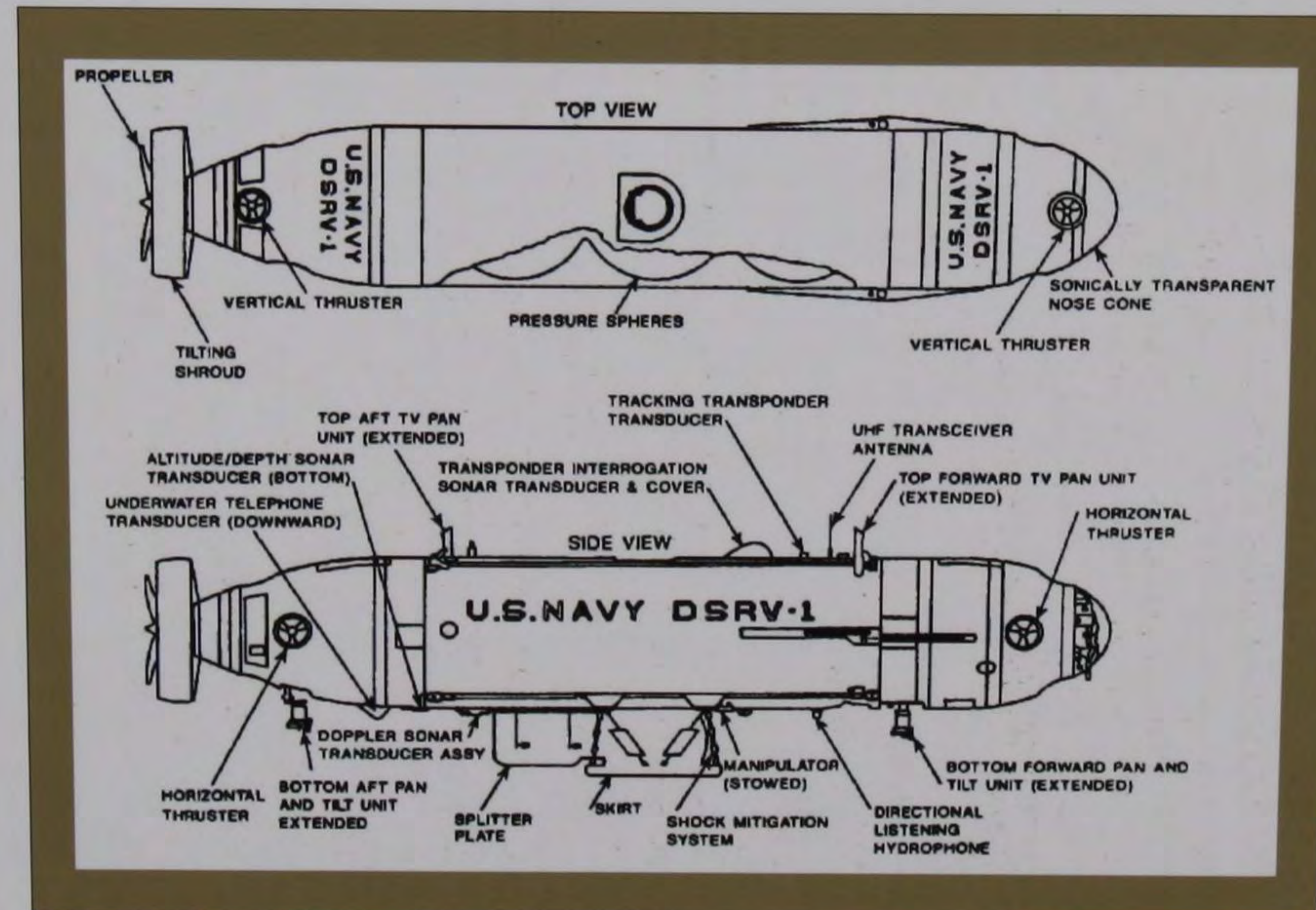
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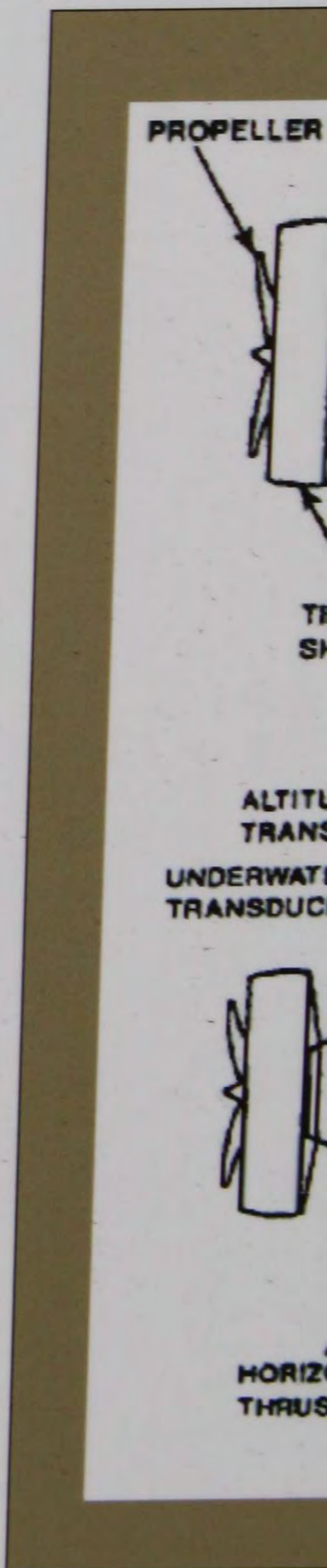
## DSRV SPECIFICATIONS

Builder	Lockheed Missiles and Space Company, Sunnyvale, California
Hull	3 steel pressure spheres surrounded by a fiberglass outer hull.
Length	49 feet
Beam	8 feet
Weight	38 tons
Speed	4 knots
Max depth	5,000 feet
Power	Electric motors, one 15 shaft horsepower & four thrusters, two silver/zinc 700 Amp Hour and one 28 VDC emergency batteries
Crew	2 pilots, two rescue personnel and capacity for 24 passengers
Life Support	36 hours

- Obstacle Avoidance Sonar, Range 8,000 Yards
- Downward Looking Sonar, Range 600 Feet.
- Depth Sonar, Range 0-5,000 feet.
- Side-Looking Sonar, 1 Foot Resolution, Range 1200 Feet
- Directional listening hydrophone
- 35mm still camera
- 5 b/w video cameras, 2 topside/2 bottom, 1 skirt
- 1 color video camera in bow
- Manipulators: One arm designated to clear hatches of disabled submarines. Gripper and cable cutter combined/ 1000 lbs. lift capacity



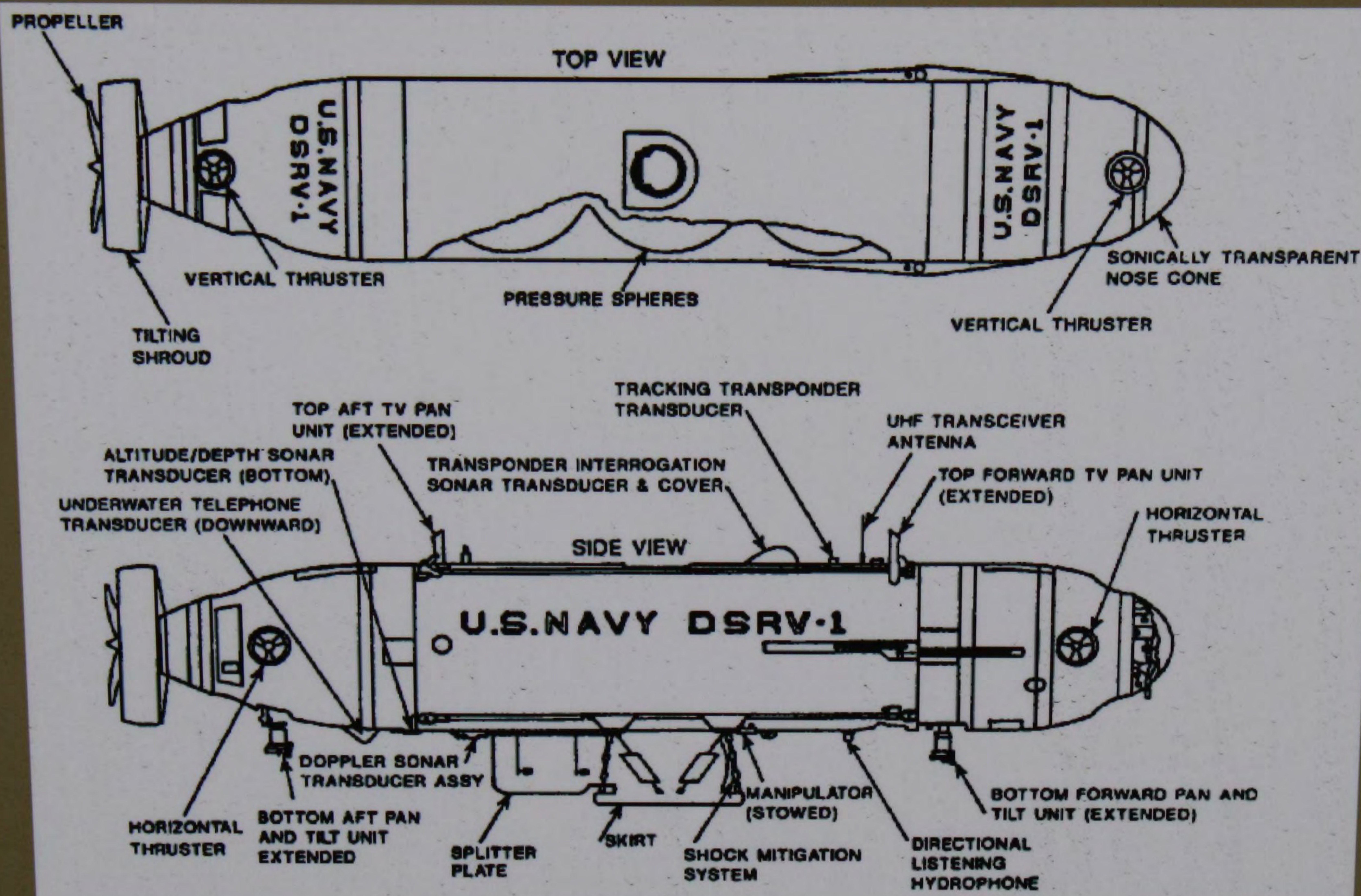
The DSRV *Avalon* is on long term loan from Naval Historical Center, Washington D.C. This exhibit was made possible through a cooperative effort between the Central Coast Maritime Museum Association, the City of Morro Bay, the Washington DC office of Congresswoman Lois Capps, Phoenix International, San Diego, and the US Navy Deep Submergence Unit at NAS, Coronado Island. Many thanks go to the estate of Nancy Margaret Clemens, Dwight Perterson Trucking of Atascadero, California and Specialty Crane and Rigging of Santa Maria, California for their generous support.



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Obstacle Avoidance Sonar, R  
 Downward Looking Sonar, R  
 Depth Sonar, Range 0-5,000  
 Side-Looking Sonar, 1 Foot R  
 Directional listening hydroph  
 35mm still camera  
 5 b/w video cameras, 2 topsid  
 1 color video camera in bow  
 Manipulators: One arm design  
 Gripper and cable cutter comb

KEEP OFF



  
KNEED MART

**DANGER**  
CONFINED SPACE  
AUTHORIZED  
PERSONNEL ONLY

**DANGER**  
KEEP OUT

**DANGER**  
CONFINED SPACE  
AUTHORIZED PERSONNEL ONLY

KEEP OFF

LOCKHEED

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CONFINED SPACE  
AUTHORIZED  
PERSONNEL ONLY

**DANGER**  
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AVALLON







Deep Submergence Rescue Vehicle

DANGER KEEP OFF

SHV

Scout



Deep Submergence Rescue Vehicle

SHV 2

**DANGER**  
CONFINED SPACE  
AUTHORIZED PERSONNEL ONLY

KEEP OFF

SHV 2

Scamp



# TEAM AVALON



## OFFICER IN CHARGE

LCDR. W.E. FULTZ

## PILOTS

MMC SS/SS1 SARGENT  
MM1 SS/DV/SS1 SWENSON  
STS1 SS/DV/SS1 PALEK

## CO-PILOTS

ET1 SS FERNLUND-NAV.  
MM1 SS CARLSON-M-DIV.OFF

## CREW MEMBERS

LTJG BURROWS A.O.I.C.  
STSOS SS GRANDALL-EXEC. ASST.  
MMC SS MORRIS S.E.A.  
MM1 SS/DV BREWER-M.L.P.O.  
MM1 SS GARRIDO-E.S.L.P.O.  
MM1 SS SORRELLS-CAL.  
MM2 SS BASS-HAZMAT  
STS2 SS/DV ANDERSON  
ET1 SS/DV HUGHES-DIVE I.L.P.O.  
ET1 SS BROADWELL  
ET2 SS/DV HILLYARD RPPD  
ET2 SS SNYDER



EXHAUSTER MOTOR



AVALON

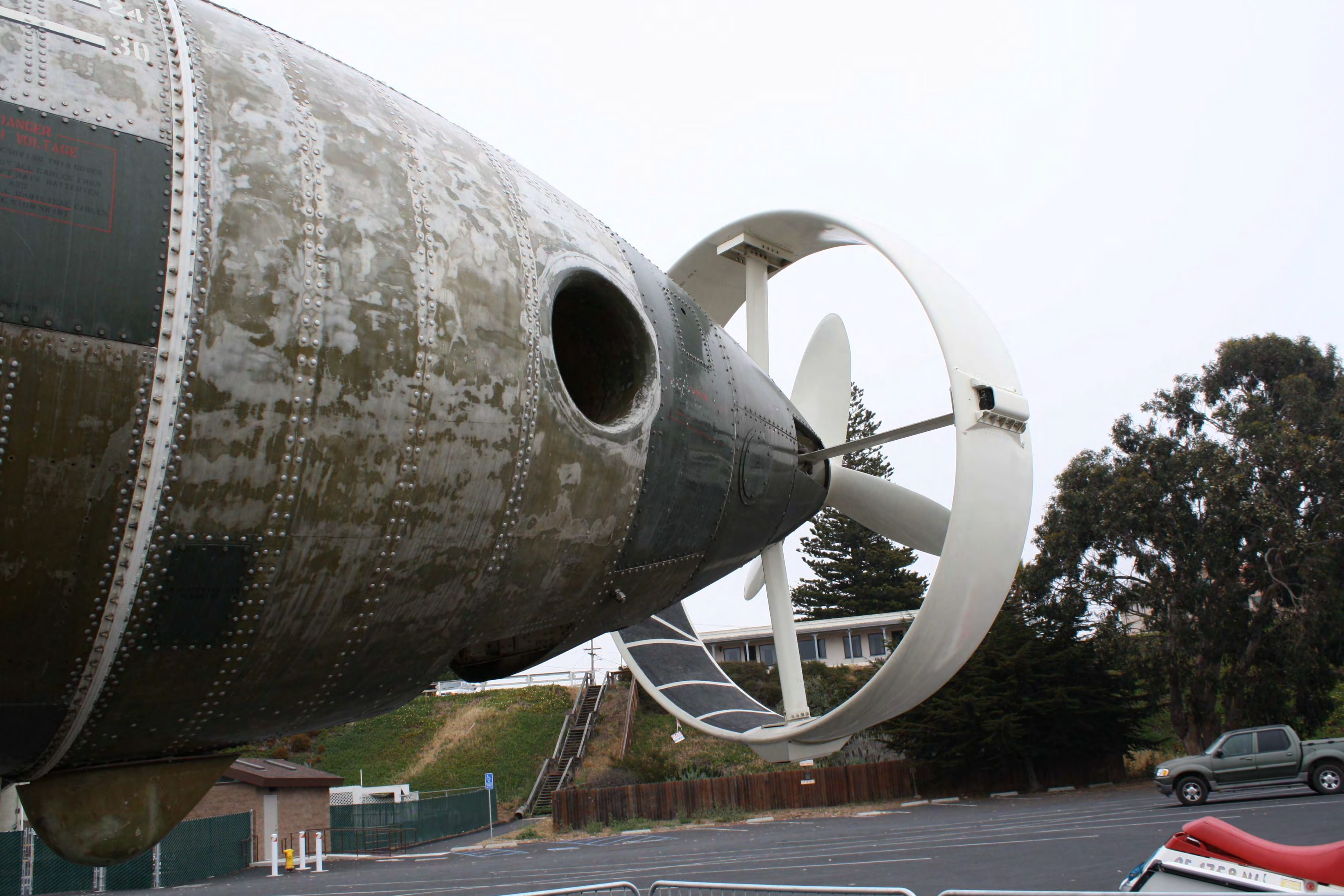
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SHORE PER INTLK

SHORE PER INTLK

MANIPULATOR  
ACCESS

OCKH



24  
30  
DANGER  
VOLTAGE  
MOVING THIS COVER  
OF ALL CABLES FROM  
THESE BATTERIES  
AND  
SUBSTITUTED BATTERIES  
FOR OTHERS







BEFORE REMOVING THIS PANEL  
STARTER AIDS I.D.E. PANEL  
MUST BE FULLY INSTALLED

AFT ELEC. JIB  
COMPENSATORS  
AFT THRUSTER  
COMPENSATORS



NO DRIVING, PARKING,  
OR SLEEPING IN VEHICLES  
WITHIN CITY LIMITS,  
EXCEPT IN DESIGNATED AREAS  
AND CORPUSCULES.

Dockside 3

KEEP OFF



NO TOUCH

SHV 2

30615



DSRV  
2

AVALON

SHV 2

Deep Submergence Rescue Vehicle



Please do not climb on or touch submarine.  
Por favor de no subir o tocar el submarino.