

ISE INTERNATIONAL SUBMARINE ENGINEERING Ltd.

1734 Broadway Street, Port Coquitlam, BC V3C 2M8 Canada

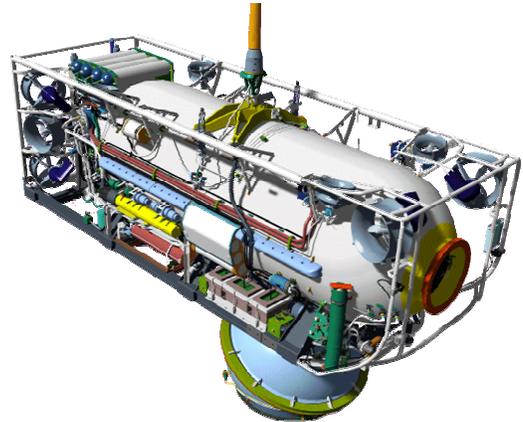
Tel 01.604.942.5223 Fax 01.604.942.7577

Email info@ise.bc.ca Web www.ise.bc.ca

ISE DELIVERS POWER and CONTROL SYSTEMS FOR US NAVY SUBMARINE RESCUE SYSTEM

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Port Coquitlam, BC, Canada; ISE Ltd. has delivered the Control Van, Control System, and Power Distribution System for NAVSEA's Pressurized Rescue Module System (PRMS); and the Control System for the PRMS Handling System (HS). The PRMS, a part of the Submarine Diving and Recompression System (SRDRS), has just completed Sea Trials at 600 m depth. This system will provide the US Navy with a rapidly deployable capability for rescuing crews from disabled submarines. The PRMS contains the elements of the SRDRS that constitute a remotely operated submarine rescue vehicle system. The new system will replace the U.S. Navy's Deep Submergence Rescue Vehicles (DSRV) which has been in service since the 1970s.

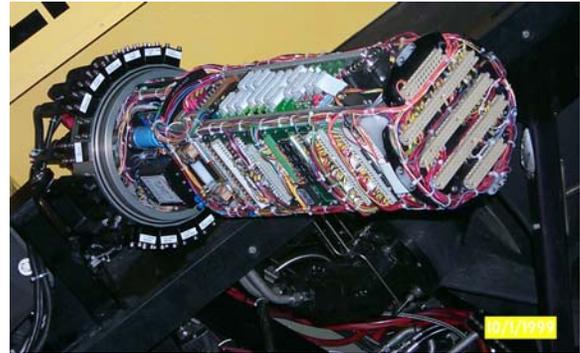


The PRMS Vehicle (PRM) is a remotely operated submersible whose payload is a pressure vessel capable of transporting 18 adults. The occupants of the pressure vessel can control their environmental conditions but cannot maneuver and navigate the vehicle. The PRM is piloted remotely from a surface Vessel of Opportunity (VOO), in a manner similar to a traditional ROV. ISE is a subcontractor to OceanWorks International Corporation who is the prime for the PRMS project.

The Control Van is a self contained ISE 20 ft Container which is divided into a Control Room and a Power Room. The Control Room houses the Operators' Consoles, Power/Control Console, Video Console, Video Displays, Power Distribution Unit, and an Environmental Control System. The Consoles provide for packaging and integration of two Surface Control Computer/Fiber Optic Multiplexer Interface Trays, a Power Tray, Navigation Tray, Navigation Computer, Sonar



Computer, Video Overlay Computer, Video Switching Computer, Video Distribution System and Communications System. The Power Room houses the Service Transformers, and the High Voltage Boost Transformers and Sensor Circuitry.



The PRMS control system is built around redundant fiber-optic command, control and data distribution assemblies packaged into two fiber/telemetry cans on the PRM; and two Surface Control Computer/Fiber Optic Multiplexer interface trays on the surface, all running ISE's proprietary control software, ACE. The pilot controls the system through a Graphical User Interface (GUI) that resides on a touchscreen display in the Power/Control Console, and a joystick that is mounted on the Pilot's Chair.

The Handling System provides the capability to launch and recover the PRM from the VOO. Included in the handling system is the A-Frame, lifting winches, umbilical winch, control systems and ancillary devices. The HS control system uses two redundant Programmable Logic Controllers (PLC's) and two Active Compensation Units for the Launch and Recovery System, and one PLC for the Umbilical Winch.



Software for the PRMS and the HS was required to meet IEEE 12207 standards for design, development, verification, and configuration management.

ISE also provided the major components for the PRMS's electrical and hydraulic systems. These included boost transformers, deboost transformers, ground fault sensors, power distribution system and power trays, thrusters and power packs.

International Submarine Engineering Ltd is a systems integrator of robotic platforms. We are a world leader in the design and development of autonomous and remotely operated underwater vehicles and robotic systems. For 33 years, ISE and its group of technical and manufacturing staff has had an established knowledge base providing an international client base with top level technology and customer service.

OceanWorks International is a world leader in the design, fabrication and maintenance of atmospheric diving systems, submarine rescue systems, ROV tooling and specialized subsea equipment.

For additional information contact:

Mike Macdonald, Executive Vice President, International Submarine Engineering Ltd.

Phone: (01) 604-942-5223, Email: info@ise.bc.ca