

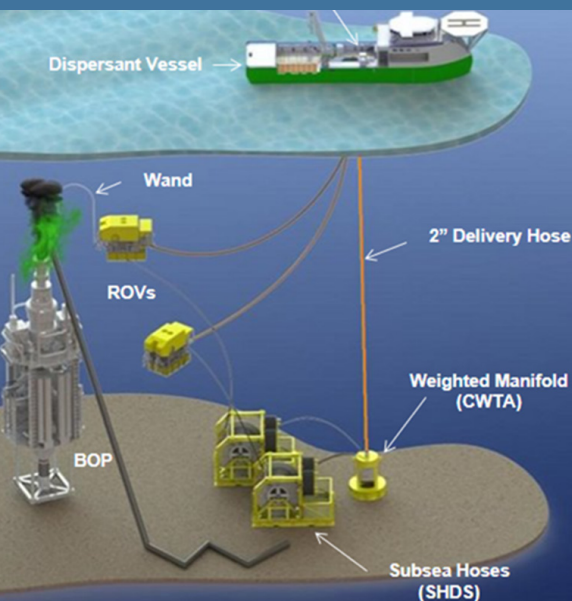
Dispersant Delivery System (DDS)



The **Dispersant Delivery System (DDS)** is a deployable subsea and topside pumping system designed to deliver dispersant at high pressure and flow rates to subsea well-control incidents. It augments the Subsea Incident Response Toolkit (SIRT) by providing incident owners with a self-contained and integrated open water conduit system.

Key System Capabilities

- Suitable for all offshore regions (global deployment)
- Rated for 10,000 ft water depth
- 30 GPM at 5,000 PSI pumping capability
- Fluid inlet temperature limit: 140°F
- Emergency disconnect capability at seabed
- Design life: 180 days subsea / 20 years storage
- Air-freight compatible (B747-F) allowing for rapid global deployment
- The system can be deployed outside a 500m safety exclusion zone using ROVs with extended reach tethers



The system is engineered for operations in up to a depth of up to 10,000 ft and can be mobilised globally via air freight (B747-F-capable). It integrates topside pumping, hose management, and subsea connection assemblies to enable rapid, controlled dispersant injection.

Key Safety Features

Emergency Disconnect Capability (Subsea)	The Clump Weight Termination Assembly (CWTA) includes an emergency disconnect function that allows the subsea connection to be safely released under unplanned or hazardous conditions.
Redundant Pumping System (Topside Skid)	The Topside Pumping Skid uses dual redundant pump circuits, ensuring continued operation even if one pump fails—minimising operational risk during critical dispersant injection.
Controlled Deployment & Recovery via Deck Winch	The deck winch features a high working load limit (10,000 lb WLL) and interchangeable reels to maintain safe, controlled hose deployment in offshore conditions.
Engineered Hose Management System	The Subsea Hose Deployment System (SHDS) includes a structured spool-up system with appropriate weight and handling design, reducing risk of uncontrolled hose behavior subsea.
Vessel Requirements Ensure Operational Safety	System operation requires a DP Class 2 IMR vessel with two 150 hp work class ROVs, ensuring adequate positional control and safe subsea handling.
Heavy-Lift Safety Considerations	The heaviest deck and subsea lifts are up to ~12,750 lbs topside and ~11,000 lbs subsea.
Power System Safety & Compatibility	The DDS is engineered for safe operation on vessel power (440–480VAC, 3 phase) with defined startup/current loads, reducing electrical system risk during deployment.
Operating Environment Specification	The system is not EX rated, explicitly requiring appropriate vessel selection for safe operations around non hazardous environments.
Controlled Overboard Deployment	The overboard chute is adjustable in height and radius, aiding safe hose routing and preventing snagging or deck hazards during launch.

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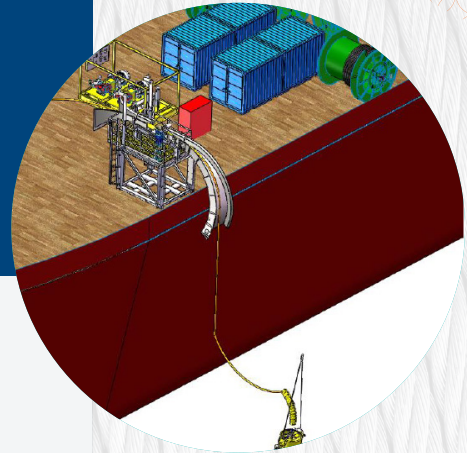
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OSRL Members can access the **Dispersant Delivery System** through the Capping Supplementary Agreement.



Major System Components

- Topside Pumping Skid – dual redundant pump circuits, VFD driven, integrated cooling system
- Deck Winch – 10,000 lb WLL, interchangeable hose reels (600m and 750m)
- Overboard Chute – adjustable height 5–10 ft, 2.5m radius
- Subsea Hose Deployment System (SHDS) – includes 1,650 ft Synflex hose, subsea spool-up
- Clump Weight Termination Assembly (CWTA) – provides connection hub and emergency disconnect
- Control, Work, and Storage Vans – power distribution, monitoring, tooling, and storage

Technical Specifications & Operating Requirements

Topside Equipment Specifications:

- Pumping Skid: 125 hp motor, digital flowmeters, 96" x 84" x 180" transport frame
- Control/Work Vans: approx. 238"L x 96"W x 104"H
- Deck Winch: 188.98"L x 85.28"W x 96.38"H
- Overboard Chute Weight: approx. 12,600 lbs
- Hose Reels: 600m and 750m, up to ~12,750 lbs with hose

Subsea Equipment Specifications:

- SHDS: ~10,050 lbs with interface template, includes 1,650 ft Synflex hose
- CWTA: 1.5" hot stab, 3 high-flow receptacles, configurable wet weight 1,900–4,900 lbs
- ROV interface: Class 4 torque tool, hot stab connections, jumper hose tie-ins

Power Requirements:

- The DDS can be fully operated with 3-Phase 440 to 480 VAC at 50/60 Hz
- Deck winch operations: ~63A (80A startup) @ 460VAC 3Ø
- Pumping operations: ~171A (250A startup) @ 460VAC 3Ø
- System can operate from vessel or dedicated diesel generators

Operational Notes:

- DDS is not EX-rated; requires suitable vessel selection
- Requires DP Class-2 IMR Vessel with two work-class ROVs (150 hp)
- Deck layout must account for winch, reels, vans, chute, and crane access
- Heaviest deck lift: ~12,750 lb hose reel
- Heaviest subsea lift: water-filled SHDS with template (~11,000 lbs)
- Seabed mud mats, if required, to be provided by Incident Operator
- Dispersant – typically arrives in tote tanks or via vessel transfer
- ROVs with extended reach tethers in excess of 500m are required for deployment and operation of the system outside the well site safety exclusion zone

