To create an assurance case for the BlueROV2 system using Goal Structuring Notation (GSN), we need to focus on the key aspects of the system's safety, reliability, and performance. Below is a simplified assurance case represented in a hierarchical tree structure:

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Assurance Case for BlueROV2 System

- G1: Ensure that the BlueROV2 system is safe for underwater operations

- S1: Context: BlueROV2's operational environment and intended use

- G1.1: The BlueROV2 is structurally sound under operational pressures

- Sn1: BlueROV2 design specifications and materials used

- G1.1.1: All materials meet the pressure and corrosion resistance requirements

- Sn1.1: Material test reports and certifications

- G1.1.2: Structural integrity is confirmed through simulations and pressure tests

- Sn1.2: Simulation models and test results reports

- G1.2: BlueROV2 electrical systems are protected against water ingress

- Sn2: Description of sealing and waterproofing techniques used

- G1.2.1: All electrical housings are waterproof

- Sn2.1: List of sealing methods and materials used

- G1.2.1.1: Seals maintain integrity at operational depths

- Sn2.1.1: Depth test results for sealed components

- G1.3: BlueROV2 software ensures operational safety

- Sn3: Software design and architecture documents

- G1.3.1: Software has safety-critical operational controls

- Sn3.1: List of safety-critical control features in the software

- G2: Ensure that the BlueROV2 system is reliable

- S2: Context: Standards and reliability requirements for underwater ROVs

- G2.1: The BlueROV2 has a failsafe mechanism in case of system failure

- Sn4: Description of failsafe mechanisms in design

- G2.1.1: The ROV automatically surfaces on loss of power or signal

- Sn4.1: Test logs and failsafe activation records

- G2.2: The BlueROV2 maintains operational communication under specified conditions

- Sn5: Specifications of communication systems used

- G2.2.1: Communication is maintained up to the maximum operational range

- Sn5.1: Communication range testing procedures and results

- G3: Ensure that the BlueROV2 system performs effectively for intended tasks

- S3: Context: Mission profiles and performance benchmarks for BlueROV2

- G3.1: The BlueROV2 can navigate and maneuver as required

- Sn6: Navigation system specifications and maneuvering capabilities

- G3.1.1: The navigation system accurately tracks position underwater

- Sn6.1: Test results of navigation accuracy

- G3.2: The BlueROV2 carries and operates its payload effectively

- Sn7: Technical specifications of payload handling systems

- G3.2.1: ROV can deploy and retrieve payloads as per mission requirements

- Sn7.1: Payload deployment and retrieval test records

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In this representation:

- "G" stands for Goal

- "S" stands for Strategy

- "Sn" stands for Solution, providing evidence or supporting arguments for the respective goals.

Each goal and strategy should be substantiated by documentation, tests, analysis, or proven use cases. This sample tree shows only principal goals and sub-goals to maintain clarity and brevity. The actual assurance case may require more exhaustive evidence and deeper elaboration on each sub-goal depending on the operational specifics of the BlueROV2 system and safety standards required by regulatory authorities and operational stakeholders.