Based on the provided assurance case pattern for the BlueROV2 system, I have instantiated the pattern and removed the uninstantiated decorators and placeholders, replacing them with system-specific information. This assurance case is displayed in a hierarchical tree format, indicating how goals, strategies, solutions, and contextual elements interact:

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G1: Hazards for BlueROV2 System addressed in accordance with ALARP principle.

- S1: Argument by risk reduction/elimination of each hazard

- G2: No intolerable risks present in the system.

- C1: Definition of "intolerable"

- S2: Argue that risk posed by any remaining hazards is negligible. (undeveloped)

- S3: Argue that no other risks have been identified. (undeveloped)

- G3: Risk from Obstacle encounter has been reduced as low as reasonably practicable.

- C2: Assigned severity class is Major

- S4: Apply ReSonAte to estimate level of risk from hazard condition Obstacle encounter.

- A1: Function Obstacle detection required by BTD is available.

- G4: Model Avoidance Maneuver BTD accurately describes possible propagation of hazard Obstacle encounter.

- G6: Possible hazard propagation paths correctly captured in BTD. (undeveloped)

- G7: Barriers in the BTD correctly describe their respective control action including any required system functions. (undeveloped)

- G8: All non-negligible threats have been identified. (undeveloped)

- G5: Quantitative risk estimates are accurate and below acceptable threshold.

- G9: State probability distribution used for risk estimation is an accurate representation of expected system states. (undeveloped)

- G10: Estimated probability of collision is below allowable threshold for severity class Major.

- Sn1: Estimated risk level 10^-3 per hour.

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\*\*Explanation:\*\*

- \*\*Goals (G1-G10)\*\*: Define different safety and risk management targets.

- \*\*Strategies (S1-S4)\*\*: Outline the argumentation framework for risk assessment and management.

- \*\*Contexts (C1-C2)\*\*: Set the definitions and parameters regarding hazards.

- \*\*Assumption (A1)\*\*: Notes the dependency on the function being available and functional.

- \*\*Solution (Sn1)\*\*: Provides the specific risk estimation data for decision-making.

The assurance case incorporates details about the system's risk analysis, focusing particularly on the hazard of obstacle encounters, as specified. Some development is still needed as indicated by the undeveloped markers, and these parts of the case would need further substantiation or evidence to support the claims fully.