Here is the assurance case instantiated for the BlueROV2 system based on the given assurance case pattern:

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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"

- Strategy 2: Argue that risk posed by any remaining hazards is negligible (undeveloped)

- Strategy 3: Argue that no other risks have been identified (undeveloped)

- G3: Risk from hazard "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 "Obstacle Encounter BTD" is available

- G4: Model "Obstacle Encounter 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

- Sn1: Estimated risk level 10^-3 per hour for "collision"

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Note:

1. The placeholders and the decorators indicating uninstantiated or undeveloped elements have been replaced with specific information from the domain information provided.

2. The tree structure is built according to the hierarchical relationships indicated in the pattern.

3. The choices and multiplicities have been instantiated with specific instances or left marked as undeveloped if not yet addressed.