Here is an assurance case for the BlueROV2 system using the provided pattern, displayed in a hierarchical tree format:

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- G1: Hazards for BlueROV2 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: (Uninstantiated and undeveloped)

- S3: (Uninstantiated and undeveloped)

- G3: Risk from hazard (e.g., collision) has been reduced as low as reasonably practicable

- C2: Assigned severity class is critical

- S4: Apply ReSonAte to estimate level of risk from hazard condition (e.g., collision)

- A1: Function (e.g., obstacle detection) required by BTD is available

- G4: Model BTD accurately describes possible propagation of hazard (e.g., collision)

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

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

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

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

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

- G10: Estimated probability of consequence (e.g., vehicle damage) is below allowable threshold for severity class

- Sn1: Estimated risk level 0.02 (attr:RiskEst)

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In this hierarchical tree structure:

- G1 is the top-level goal representing the overall claim.

- S1 is the strategy for addressing each hazard.

- G2 and G3 are supported by S1, with G2 focused on intolerable risks and G3 on reducing specific hazards.

- S4 is used under G3 to estimate the risk from a specific hazard (e.g., collision).

- G4 and G5 elaborate on the details of the risk estimation process.

- G4 under S4 further elaborates on the propagation model, while G5 ensures accuracy in risk estimates.

- Relevant contexts and assumptions are provided where necessary.

- Each undeveloped or uninstantiated element remains to be fleshed out for the specific implementation in the assurance case for the BlueROV2 system.