Here is the hierarchical tree format of the assurance case for the BlueROV2 system:

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- G1: Hazards for BlueROV2 system addressed in accordance with ALARP principle (undeveloped).

- 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 (Uninstantiated).

- S4: Apply ReSonAte to estimate level of risk from hazard condition Obstacle Encounter (Uninstantiated).

- A1: Function Obstacle Detection required by Avoidance Maneuver BTD is available (Uninstantiated).

- G4: Model Avoidance Maneuver BTD accurately describes possible propagation of hazard Obstacle Encounter (Uninstantiated).

- 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 (Uninstantiated).

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

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This hierarchical tree represents the assurance case for the BlueROV2 system derived from the given assurance case pattern. Each level is indicated by a dash (-) to represent its hierarchical structure, with placeholders and undeveloped elements clearly marked.