Based on the assurance case pattern provided and instantiating it with the specific information for the BlueROV2 system, the assurance case in a hierarchical tree format is displayed below:

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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

- S2: (undeveloped)

- S3: (undeveloped)

- C1: Definition of "intolerable"

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

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

- G4: Model Obstacle Encounter BTD accurately describes possible propagation of the hazard Obstacle Encounter

- 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 collision is below allowable threshold for severity class Major

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

- C2: Assigned severity class is Major

- A1: (undeveloped) Function avoidance logic required by Obstacle Encounter BTD is available

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This assurance case represents an instantiation of the generic pattern to the specific BlueROV2 system, connecting identified goals, strategies, contexts, solutions and an assumption related to BlueROV2, while addressing the specifics of hazards like "Obstacle Encounter", the supporting safety barriers, and using hazard severity information. Undeveloped nodes indicate areas that require further substantiation or where more evidence needs to be gathered to fully support the assurance claim. This structure also assumes that solutions will be provided to justify the goals as they relate to real conditions and implemented system mechanisms.