Here's the instantiated assurance case for the BlueROV2 system based on the provided assurance case pattern in a hierarchical tree format using dashes (-) to denote different levels.

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

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

- G2: No intolerable risks present in the system

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

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

- C1: Definition of "intolerable"

- G3: Risk from Deviation from the operating area has been reduced as low as reasonably practicable

- S4: Apply ReSonAte to estimate level of risk from hazard condition Deviation from the operating area

- G4: Model BTD accurately describes possible propagation of hazard Deviation from the operating area (uninstantiated)

- 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

- C2: Assigned severity class is Minor

- C2: Assigned severity class is Minor

- A1: Function obstacle detection required by BTD is available (uninstantiated)

- 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 BTD accurately describes possible propagation of hazard Obstacle encounter (uninstantiated)

- 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

- C2: Assigned severity class is Major

- C2: Assigned severity class is Major

- A1: Function obstacle detection required by BTD is available (uninstantiated)

- G3: Risk from Loss of pipeline has been reduced as low as reasonably practicable

- S4: Apply ReSonAte to estimate level of risk from hazard condition Loss of pipeline

- G4: Model BTD accurately describes possible propagation of hazard Loss of pipeline (uninstantiated)

- 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

- C2: Assigned severity class is Minor

- C2: Assigned severity class is Minor

- A1: Function obstacle detection required by BTD is available (uninstantiated)

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In this assurance case, placeholders have been replaced with specific information about the BlueROV2 system. Note that the undeveloped and uninstantiated elements are indicated, suggesting areas where further development and instantiation are required.