To instantiate the given assurance case pattern for the BlueROV2 System based on the domain information provided, we will replace the placeholders with specific information about the system and its hazards, and implement the relevant assurances according to the provided context. Here's the instantiated assurance case represented in a hierarchical tree format:

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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 (undeveloped)

- 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" (uninstantiated)

- G3.1: 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" (undeveloped)

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

- 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 "Major" (uninstantiated and undeveloped)

- Sn1: Estimated risk level "10^-3 per hour" (uninstantiated)

- C2: Assigned severity class is "Major" (uninstantiated)

- A1: Function "command authority" required by "Deviation from the operating area BTD" is available (uninstantiated)

- G3.2: 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" (undeveloped)

(similar structure as G3.1 with specific context changes)

- G3.3: 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" (undeveloped)

(similar structure as G3.1 and G3.2 with specific hazards and contexts)

```

In this tree:

- The goals, strategies, contexts, assumptions, and solutions are represented according to their respective notation.

- Where applicable, placeholders (`{}`) have been replaced with specific system or hazard information derived from the domain data.

- Uninstantiated and undeveloped elements are marked as (uninstantiated), (undeveloped), or (uninstantiated and undeveloped) accordingly.

- The system and hazards related to the system are individually addressed under different sub-goals (G3.1, G3.2, G3.3) to focus on specific risks and mitigation strategies.

- Reflects the multiplicity and choices indicated in the pattern predicates.