Creating an assurance case for the BlueROV2 system using the provided predicates and displaying it in a hierarchical tree format:

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- Goal (G1, Hazards for BlueROV2 system addressed in accordance with ALARP principle.)

- Strategy (S1, Argument by risk reduction/elimination of each hazard)

- Goal (G2, No intolerable risks present in the system.)

- Context (C1, Definition of "intolerable")

- Strategy (S2, Argue that risk posed by any remaining hazards is negligible)

- Strategy (S3, Argue that no other risks have been identified)

- Goal (G3, Risk from condition has been reduced as low as reasonably practicable)

- Context (C2, Assigned severity class is Hazard Severity)

- Strategy (S4, Apply ReSonAte to estimate level of risk from hazard condition)

- Assumption (A1, Function required by the BlueROV2 is available)

- Goal (G4, Model accurately describes possible propagation of hazard)

- Goal (G6, Possible hazard propagation paths correctly captured)

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

- Goal (G8, All non-negligible threats have been identified)

- Goal (G5, Quantitative risk estimates are accurate and below acceptable threshold)

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

- Goal (G10, Estimated probability of consequence is below allowable threshold for severity class)

- Solution (Sn1, Estimated risk level for the BlueROV2)

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### Explanation:

1. \*\*G1\*\*: The top-level goal is ensuring that the hazards for the BlueROV2 are addressed according to the ALARP principle.

2. \*\*S1\*\*: Strategy to reduce/eliminate each hazard supports \*\*G1\*\*.

3. \*\*G2\*\*: Confirms no intolerable risks are present, supported by the application of strategies \*\*S2\*\* and \*\*S3\*\*.

- \*\*C1\*\*: Provides context defining "intolerable".

- \*\*S2\*\*: Argue that remaining risks are negligible (undeveloped).

- \*\*S3\*\*: Argue no other risks identified (undeveloped).

4. \*\*G3\*\*: Ensures risk from hazards is reduced to ALARP, supported by \*\*S4\*\*.

- \*\*C2\*\*: Provides context on the severity class of hazards.

- \*\*S4\*\*: Apply ReSonAte for risk estimation.

- \*\*A1\*\*: Assumption that required function is available.

- \*\*G4\*\*: Model accurately describes hazard propagation.

- \*\*G6\*\*: Verification of hazard propagation paths (undeveloped).

- \*\*G7\*\*: Verification of barriers and control actions (undeveloped).

- \*\*G8\*\*: Confirmation of identification of all threats (undeveloped).

- \*\*G5\*\*: Risk estimates are accurate and below thresholds.

- \*\*G9\*\*: Probability distribution is accurate (undeveloped).

- \*\*G10\*\*: Estimated probability of consequence is below the allowable threshold.

- \*\*Sn1\*\*: Solution providing the estimated risk level.

### Placeholder Replacement:

- Fill in the placeholder information like specific hazard types, severity classes, and more specific descriptions related to BlueROV2.

- Instantiate the unstantiated elements for the BlueROV2 system.

- Develop the undeveloped elements to provide a complete assurance case for the system.

This hierarchy helps visualize how different goals, strategies, and contexts are structured to ensure the assurance of the BlueROV2 system according to safety principles.