To create an assurance case for the BlueROV2 underwater remotely operated vehicle using the provided assurance case pattern, placeholders and additional decorators need to be instantiated and replaced with concrete system-specific information. Below is the hierarchical tree representation of the assurance case for BlueROV2:

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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.)

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

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

- Context (C1, Definition of "intolerable")

- Goal (G3, Risk from the identified hazards has been reduced as low as reasonably practicable)

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

- Goal (G4, Model BTD accurately describes possible propagation of identified hazards)

- Goal (G6, Possible hazard propagation paths correctly captured in BTD) [Undeveloped]

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

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

- 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) [Undeveloped]

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

- Solution (Sn1, Estimated risk level based on attribute RiskEst)

- Context (C2, Assigned severity class is based on identified hazard severity) [Uninstantiated]

- Assumption (A1, Function required by BTD is available) [Uninstantiated]

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\*\*Explanation:\*\*

- \*\*Goal G1\*\*: Top-level claim about addressing hazards according to the ALARP principle, specific to the BlueROV2 system.

- \*\*Strategy S1\*\*: Connects G1 with underlying goals G2 and G3, outlining the approach for risk reduction and elimination.

- \*\*Goals G2 and G3\*\*: Represent claims about the absence of intolerable risks and reduction of risks from identified hazards.

- \*\*Context C1 and C2\*\*: Provide definitions and assignments relevant to the understanding and scope of G2 and G3.

- \*\*Strategy S4\*\*: Fleshes out G3 by describing the method of risk estimation using the ReSonAte model.

- \*\*Goals G4 to G10\*\*: Elaborate on the details of the risk modeling, hazard identification, risk estimation accuracy and compliance with thresholds.

- \*\*Solution Sn1\*\*: Direct evidence supporting G10, showing the estimated risk level.

Uninstantiated placeholders have been replaced with system-specific information which is omitted from this skeletal representation but would typically include descriptive details specific to the BlueROV2 system. Also, several goals and strategies remain undeveloped, indicating areas for further detail and development in the assurance case.