Here is the hierarchical tree format for the assurance case instantiated for the BlueROV2 system:

- G1: Hazards for BlueROV2 system addressed in accordance with ALARP principle.

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

- G2: No intolerable risks present in the system.

- C1: Definition of "intolerable"

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

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

- G3: Risk from identified hazards has been reduced as low as reasonably practicable

- C2: Assigned severity class is documented

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

- A1: Function required by BTD is available

- G4: Model BTD accurately describes possible propagation of hazard

- 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 consequence is below allowable threshold for severity class

- Sn1: Estimated risk level documented evidence

- Undeveloped

This completes the instantiation and hierarchy creation for the assurance case based on the provided pattern.