Based on the predicates given below for an assurance case pattern, use this pattern to create an assurance case for BlueROV2 system (an underwater remotely operated vehicle) and display in a hierarchical tree format using dashes (-) to denote different levels.

Goal (G1, Hazards for {A :: System} addressed in accordance with ALARP principle.)

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

Goal (G3, Risk from (B:: Hazard} has been reduced as low as reasonably practicable)

Goal (G4, Model {S:: BTD} accurately describes possible propagation of hazard {R:: Hazard})

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

Goal (G6, Possible hazard propagation paths correctly captured in BTD)

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

Goal (G10, Estimated probability of {U:: Consequence} is below allowable threshold for severity class)

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

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

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

Strategy (S4, Apply ReSonAte to estimate level of risk from hazard condition {R:: Hazard})

Context (C1, Definition of "intolerable")

Context (C2, Assigned severity class is {C:: Hazard.Severity})

Assumption (A1, Function {T: Function} required by {S :: BTD} is available}

Solution (Sn1, Estimated risk level {V :: attr:RiskEst})

SupportedBy (G1, S1, 1)

SupportedBy (S1, [G2, G3], 2)

SupportedBy (G2, [S2, S3], 3)

SupportedBy (G3, S4, 3)

SupportedBy (S4, [G4, G5], 4)

SupportedBy (G4, [G6, G7, G8], 5)

SupportedBy (G5, [G9, G10], 5)

SupportedBy (G10, Sn1, 6)

IncontextOf (G2, C1, 3)

IncontextOf (G3, C2, 3)

IncontextOf (S4, A1, 4)

HasPlaceholder (G1)

HasPlaceholder (G3)

HasPlaceholder (C2)

HasPlaceholder (S4)

HasPlaceholder (A1)

HasPlaceholder (G4)

HasPlaceholder (G10)

HasPlaceholder (Sn1)

Uninstantiated (C2)

Uninstantiated (A1)

Uninstantiated (G4)

Uninstantiated (S4)

Uninstantiated (G10)

Uninstantiated (Sn1)

Undeveloped (S2)

Undeveloped (S3)

Undeveloped (G6)

Undeveloped (G7)

Undeveloped (G8)

Undeveloped (G9)

UndevelopStantiated (G1)

HasMultiplicity (S1, G3, 1 of \*)

HasMultiplicity (S4, A1, 0 of \*)

HasMultiplicity (G5, G10, 1 of \*)

HasChoice (G2, [S2, S3], 1 of 2)