Based on the predicates given below for the safety case pattern of a GPCA system, instantiate this pattern by creating a safety case from this pattern and display in a hierarchical tree format using dashes (-) to denote different levels.

Goal (G1, Operational safety is verified in {system})

Goal (G2, All operational hazards are mitigated)

Goal (G3, {operational hazard} is mitigated)

Goal (G4, {operational hazard} is mitigated under {scenario})

Goal (G5, {spec} is appropriate for {scenario})

Goal (G6, {property} is appropriate for {spec})

Goal (G7, {Source} is appropriate and trustworthy)

Goal (G8, {property} definition is sufficient)

Strategy (S1, Argument over the satisfaction of all specs over {system})

Strategy (S2, Argument over reliability in all suitable levels of {system})

Strategy (S3, Argument over operational hazards)

Strategy (S4, Argument over the applied scenarios of {operational hazard})

Strategy (S5, Argument over all specs related to {scenario})

Strategy (S6, Argument the appropriateness of {spec} over properties)

Strategy (S7, Argument over the source of the {property} definition)

Context (C1, All specs are given by {spec.allInstances()})

Context (C2, Operational hazards are given by {operational hazard.allInstances()})

Context (C3, All related scenarios are given by {operational hazard)

Context (C4, All related specs are given by {scenario.spec.allinstances()})

Context (C5, Properties are given by {spec.property.allinstances()})

Context (C6, Source is given by {property.source})

Solution (Sn1, source)

Solution (Sn2, property)

SupportedBy (G1, [S1,G2,S2], 1)

SupportedBy (G2, S3, 2)

SupportedBy (S3, G3, 3)

SupportedBy (G3, S4, 4)

SupportedBy (S4, G4, 5)

SupportedBy (G4, S5, 6)

SupportedBy (S5, G5, 7)

SupportedBy (G5, S6, 8)

SupportedBy (S6, G6, 9)

SupportedBy (G6, S7, 10)

SupportedBy (S7, [G7,G8], 11)

SupportedBy (G7, Sn1, 12)

SupportedBy (G8, Sn2, 12)

IncontextOf (S1, C1, 2)

IncontextOf (S3, C2, 3)

IncontextOf (S4, C3, 5)

IncontextOf (S5, C4, 7)

IncontextOf (S6, C5, 9)

IncontextOf (S7, C6, 11)

HasPlaceholder (G1)

HasPlaceholder (S1)

HasPlaceholder (C1)

HasPlaceholder (S2)

HasPlaceholder (C2)

HasPlaceholder (G3)

HasPlaceholder (S5)

HasPlaceholder (C4)

HasPlaceholder (C3)

HasPlaceholder (S4)

HasPlaceholder (G5)

HasPlaceholder (G4)

HasPlaceholder (S6)

HasPlaceholder (C5)

HasPlaceholder (G6)

HasPlaceholder (G7)

HasPlaceholder (G8)

HasPlaceholder (S7)

HasPlaceholder (C6)

HasPlaceholder (Sn1)

HasPlaceholder (Sn2)

Undeveloped (S1)

Undeveloped (S2)

HasMultiplicity (S3, [G3], operational hazard.allInstances())

HasMultiplicity (S4, [G4], operational hazard.scenario.allInstances())

HasMultiplicity (S5, [G5], scenario.spec.allInstances())

HasMultiplicity (S6, [G6], spec.property.allInstances())