Below is the instantiated safety case for the Generic Patient-Controlled Analgesia (GPCA) system represented in GSN, based on the given safety case pattern. For better clarity and detail, all placeholders ("{}") have been replaced with specific information pertinent to the GPCA system.

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Goal (G1, Operational safety is verified in the GPCA system)

--Strategy (S1, Argument over the satisfaction of all specs over the GPCA system)

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

--Goal (G2, All operational hazards are mitigated)

----Strategy (S2, Argument over reliability in all suitable levels of the GPCA system)

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

--Strategy (S3, Argument over operational hazards)

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

----Goal (G3, Overinfusion is mitigated)

------Strategy (S4, Argument over the applied scenarios of overinfusion)

--------Context (C3, All related scenarios are given by overinfusion scenario.allInstances())

--------Goal (G4, Overinfusion is mitigated under scenario: Flow rate does not match the programmed rate)

----------Strategy (S5, Argument over all specs related to scenario: Flow rate does not match the programmed rate)

------------Context (C4, All related specs are given by scenario.spec.allInstances())

------------Goal (G5, Spec SR1.1 is appropriate for scenario: Flow rate does not match the programmed rate)

--------------Strategy (S6, Argument the appropriateness of spec SR1.1 over properties)

----------------Context (C5, Properties are given by spec.SR1.1.property.allInstances())

----------------Goal (G6, Flow rate sensor is equipped is appropriate for spec SR1.1)

------------------Strategy (S7, Argument over the source of the Flow rate sensor definition)

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

--------------------Goal (G7, FDA standard is appropriate and trustworthy)

----------------------Solution (Sn1, FDA standard)

--------------------Goal (G8, 'Flow rate sensor is equipped' definition is sufficient)

----------------------Solution (Sn2, 'Flow rate sensor is equipped' specification document)

----Goal (G3, Underinfusion is mitigated)

------Strategy (S4, Argument over the applied scenarios of underinfusion)

--------Context (C3, All related scenarios are given by underinfusion scenario.allInstances())

--------Goal (G4, Underinfusion is mitigated under scenario: Period (to trigger the underinfusion alarm) is 15 minutes)

----------Strategy (S5, Argument over all specs related to scenario: Period (to trigger the underinfusion alarm) is 15 minutes)

------------Context (C4, All related specs are given by scenario.spec.allInstances())

------------Goal (G5, Spec SR6.1.3 is appropriate for scenario: Period (to trigger the underinfusion alarm) is 15 minutes)

--------------Strategy (S6, Argument the appropriateness of spec SR6.1.3 over properties)

----------------Context (C5, Properties are given by spec.SR6.1.3.property.allInstances())

----------------Goal (G6, The period is set to 15 minutes is appropriate for spec SR6.1.3)

------------------Strategy (S7, Argument over the source of The period is set to 15 minutes definition)

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

--------------------Goal (G7, Expertise opinion is appropriate and trustworthy)

----------------------Solution (Sn1, Expertise opinion)

--------------------Goal (G8, 'The period is set to 15 minutes' definition is sufficient)

----------------------Solution (Sn2, 'The period is set to 15 minutes' specification document)

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This hierarchical representation of the safety case for the GPCA system starts with the top-level goal (G1) of verifying operational safety and breaks down through various strategies and goals, referencing specific specs and properties related to the mitigation of identified hazards: overinfusion and underinfusion. Context elements provide the necessary background, and evidence (Solutions) supports claims about the appropriateness and trustworthiness of sources and property definitions.

Note that each goal (G), strategy (S), context (C), and solution (Sn) is numbered uniquely to maintain clarity and allow easy reference.