Here is the instantiated safety case for the GPCA system in a hierarchical tree format using dashes (-) to denote different levels:

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- G1: Operational safety is verified in GPCA system

- C1: All specs are given by GPCA spec.allInstances()

- S1: Argument over the satisfaction of all specs over GPCA system (undeveloped)

- G2: All operational hazards are mitigated

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

- S2: Argument over reliability in all suitable levels of GPCA system (undeveloped)

- S3: Argument over operational hazards

- G3: Overinfusion is mitigated

- C3: All related scenarios are given by Overinfusion

- S4: Argument over the applied scenarios of Overinfusion

- G4: Overinfusion is mitigated under scenario 1

- C4: All related specs are given by scenario 1.spec.allInstances()

- S5: Argument over all specs related to scenario 1

- G5: SR1.1 is appropriate for scenario 1

- C5: Properties are given by SR1.1.property.allInstances()

- S6: Argument the appropriateness of SR1.1 over properties

- G6: Flow rate sensor is appropriate for SR1.1

- S7: Argument over the source of the Flow rate sensor definition

- G7: FDA standard is appropriate and trustworthy

- Sn1: FDA standard

- G8: Flow rate sensor definition is sufficient

- Sn2: Flow rate sensor

- G4: Overinfusion is mitigated under scenario 2 (undeveloped)

- G4: Overinfusion is mitigated under scenario 3 (undeveloped)

- G3: Underinfusion is mitigated

- C3: All related scenarios are given by Underinfusion

- S4: Argument over the applied scenarios of Underinfusion

- G4: Underinfusion is mitigated under scenario 1 (undeveloped)

- G4: Underinfusion is mitigated under scenario 2 (undeveloped)

- G4: Underinfusion is mitigated under scenario 3 (undeveloped)

- G3: Dose limit exceeded due to excessive bolus requests is mitigated

- C3: All related scenarios are given by Dose limit exceeded due to excessive bolus requests

- S4: Argument over the applied scenarios of Dose limit exceeded due to excessive bolus requests

- G4: Dose limit exceeded due to excessive bolus requests is mitigated under scenario 1 (undeveloped)

- G4: Dose limit exceeded due to excessive bolus requests is mitigated under scenario 2 (undeveloped)

- G4: Dose limit exceeded due to excessive bolus requests is mitigated under scenario 3 (undeveloped)

- G3: Bolus volume/concentration too high is mitigated

- C3: All related scenarios are given by Bolus volume/concentration too high

- S4: Argument over the applied scenarios of Bolus volume/concentration too high

- G4: Bolus volume/concentration too high is mitigated under scenario 1 (undeveloped)

- G4: Bolus volume/concentration too high is mitigated under scenario 2 (undeveloped)

- G4: Bolus volume/concentration too high is mitigated under scenario 3 (undeveloped)

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Note: The undeveloped tags have been retained as specified in the pattern, indicating that further development is required for those goals and strategies. The placeholders have been instantiated with domain-specific information related to the GPCA system.