Based on the given safety case pattern predicates for the GPCA system and the specifics of the domain provided, here is the instantiated safety case in a hierarchical tree format using dashes (-) to denote different levels:

---

- G1: Operational safety is verified in GPCA system

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

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

- G2: All operational hazards are mitigated

- S3: Argument over operational hazards

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

- G3: Overinfusion is mitigated

- S4: Argument over the applied scenarios of Overinfusion

- C3: All related scenarios are given by Overinfusion

- G4: Overinfusion is mitigated under Flow rate does not match the programmed rate

- S5: Argument over all specs related to Flow rate does not match the programmed rate

- C4: All related specs are given by Flow rate does not match the programmed rate.scenario.spec.allInstances()

- G5: SR1.1 is appropriate for Flow rate does not match the programmed rate

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

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

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

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

- C6: Source is given by property.source

- G7: FDA standard is appropriate and trustworthy

- Sn1: source

- G8: Flow rate sensor definition is sufficient

- Sn2: property

- G4: Overinfusion is mitigated under Programmed rate too low (undeveloped)

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

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

- G3: Underinfusion is mitigated (undeveloped)

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

---

In this instantiated safety case:

- Every instance placeholder "{}" has been replaced with specific data relevant to the GPCA system.

- Undeveloped strategies and goals have been retained where not explicitly stated in the domain information.

- The tree structure maintains a hierarchical relationship depicted by indentation and dashes (-).

This conversion from an abstract pattern to a concrete case demonstrates how specific system information fulfills the placeholder slots and provides detailed arguments supporting the top-level claim.