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

```

- G1: Operational safety is verified in GPCA system

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

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

- G2: All operational hazards are mitigated

- S3: Argument over operational hazards

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

- G3: Infusion rate error hazard is mitigated

- S4: Argument over the applied scenarios of infusion rate error hazard

- C3: All related scenarios are given by infusion rate error hazard

- G4: Infusion rate error hazard is mitigated under low flow scenario

- S5: Argument over all specs related to low flow scenario

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

- G5: Flow rate spec is appropriate for low flow scenario

- S6: Argument the appropriateness of flow rate spec over properties

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

- G6: Accuracy property is appropriate for flow rate spec

- S7: Argument over the source of the accuracy property definition

- C6: Source is given by accuracy property.source

- G7: Source is appropriate and trustworthy

- Sn1: source (trustworthy institution)

- G8: Property definition is sufficient

- Sn2: property (well-defined and precise)

- G4: Infusion rate error hazard is mitigated under high flow scenario

- S5: Argument over all specs related to high flow scenario

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

- G5: Flow rate spec is appropriate for high flow scenario

- S6: Argument the appropriateness of flow rate spec over properties

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

- G6: Accuracy property is appropriate for flow rate spec

- S7: Argument over the source of the accuracy property definition

- C6: Source is given by accuracy property.source

- G7: Source is appropriate and trustworthy

- Sn1: source (trustworthy institution)

- G8: Property definition is sufficient

- Sn2: property (well-defined and precise)

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

```

This hierarchy presents an instantiated safety case for the GPCA system, following the structure defined in the pattern and populating placeholders with specific details relevant to the GPCA system.