Here's the instantiated safety case for the GPCA system based on the given predicates from the pattern:

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G1: Operational safety is verified in the GPCA system.

- C1: All specs are given by GPCA system.

- S1: Argument over the satisfaction of all specs over the GPCA system.

- Undeveloped

- G2: All operational hazards are mitigated.

- S3: Argument over operational hazards.

- C2: Operational hazards are given by GPCA operational hazards.

- G3: Over-infusion hazard is mitigated.

- S4: Argument over the applied scenarios of Over-infusion hazard.

- C3: All related scenarios are given by Over-infusion scenarios.

- G4: Over-infusion hazard is mitigated under high flow rate scenario.

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

- C4: All related specs are given by high flow rate scenario specs.

- G5: High flow rate spec is appropriate for high flow rate scenario.

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

- C5: Properties are given by high flow rate spec properties.

- G6: High flow rate property is appropriate for high flow rate spec.

- S7: Argument over the source of the high flow rate property definition.

- C6: Source is given by high flow rate property source.

- G7: High flow rate property source is appropriate and trustworthy.

- Sn1: Documented clinical guidelines.

- G8: High flow rate property definition is sufficient.

- Sn2: Verified by clinical trials.

- G3: Under-infusion hazard is mitigated.

- S4: Argument over the applied scenarios of Under-infusion hazard.

- C3: All related scenarios are given by Under-infusion scenarios.

- G4: Under-infusion hazard is mitigated under low battery scenario.

- S5: Argument over all specs related to low battery scenario.

- C4: All related specs are given by low battery scenario specs.

- G5: Low battery spec is appropriate for low battery scenario.

- S6: Argument on the appropriateness of low battery spec over properties.

- C5: Properties are given by low battery spec properties.

- G6: Low battery property is appropriate for low battery spec.

- S7: Argument over the source of the low battery property definition.

- C6: Source is given by low battery property source.

- G7: Low battery property source is appropriate and trustworthy.

- Sn1: Documented engineering specs.

- G8: Low battery property definition is sufficient.

- Sn2: Reliability test results.

- S2: Argument over reliability in all suitable levels of the GPCA system.

- Undeveloped

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This hierarchical tree structure represents the instantiated safety case for the GPCA system, derived from the pattern. The uninstantiated placeholders have been replaced with concrete information related to the GPCA system and its operational contexts.