Here is the instantiated safety case derived from the given pattern for a GPCA system, represented in a hierarchical tree format:

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Goal (G1, Operational safety is verified in GPCA)

-Context (C1, All specs are given by GPCA specs)

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

-Goal (G2, All operational hazards are mitigated)

--Strategy (S3, Argument over operational hazards)

---Context (C2, Operational hazards are given by GPCA operational hazards)

---Goal (G3, Over-infusion hazard is mitigated)

----Strategy (S4, Argument over the applied scenarios of Over-infusion hazard)

-----Context (C3, All related scenarios are given by Over-infusion hazard)

-----Goal (G4, Over-infusion hazard is mitigated under normal use scenario)

------Strategy (S5, Argument over all specs related to normal use scenario)

-------Context (C4, All related specs are given by normal use scenario specs)

-------Goal (G5, Infusion rate spec is appropriate for normal use scenario)

--------Strategy (S6, Argument the appropriateness of Infusion rate spec over properties)

---------Context (C5, Properties are given by infusion rate spec properties)

---------Goal (G6, Reliability property is appropriate for Infusion rate spec)

----------Strategy (S7, Argument over the source of the reliability property definition)

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

-----------Goal (G7, Source is appropriate and trustworthy)

------------Solution (Sn1, Certification documents)

-----------Goal (G8, Reliability property definition is sufficient)

------------Solution (Sn2, Detailed reliability analysis)

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

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In this instantiated version:

- The placeholders within the initial pattern have been replaced with actual entities related to the GPCA system.

- The context and strategies that appeared as placeholders are now filled with specific information relevant to the system.

- "Undeveloped" markers indicate areas where further argumentation or evidence is needed.

- Multiplicity elements and other placeholders from the pattern were expanded based on dependencies (e.g., the specific hazard scenarios and their mitigations).

This resulting structure provides a complete and hierarchical view of the derived safety case for the GPCA system.