Below is the instantiation of the given safety case pattern for the Generic Patient-Controlled Analgesia (GPCA) system, focusing on the specified operational hazards and incorporating domain-specific information from the given predicates:

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G1: Operational safety is verified in GPCA system

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

- G2: All operational hazards are mitigated

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

- S3: Argument over operational hazards

- C2: Operational hazards are given by overinfusion and underinfusion

- G3: Overinfusion is mitigated

- S4: Argument over the applied scenarios of overinfusion

- C3: All related scenarios are given by Overinfusion scenarios

- G4: Overinfusion 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 spec.allInstances()

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

- S6: Argument the appropriateness of Flow rate sensor over properties

- C5: Properties are given by Flow rate sensor property.allInstances()

- G6: Flow rate sensor precision is appropriate for Flow rate sensor

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

- C6: Source is given by FDA standard

- G7: FDA standard is appropriate and trustworthy

- Sn1: FDA approval document

- G8: Flow rate sensor precision definition is sufficient

- Sn2: Technical specification document

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

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This tree diagram incorporates the specifics from the domain description for the GPCA system, including its operational hazards and the safety requirements for mitigating these hazards. This representation follows the safety case pattern structure, including goals, strategies, contexts, and solutions, replacing placeholders with domain-specific data.