To instantiate the safety case pattern for the Generic Patient-Controlled Analgesia (GPCA) system, the placeholders in the GSN elements must be replaced with specific information related to the system and its operational context. Utilizing the domain information provided and assuming operational hazards as "Overinfusion" and "Underinfusion", here is an instantiated version of the provided safety case pattern:

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- Goal (G1: Operational safety is verified in GPCA system)

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

- Goal (G2: All operational hazards are mitigated)

- Strategy (S3: Argument over operational hazards)

- Goal (G3: Overinfusion is mitigated)

- Strategy (S4: Argument over the applied scenarios of Overinfusion)

- Goal (G4: Overinfusion is mitigated under high patient demand scenario)

- Strategy (S5: Argument over all specs related to high patient demand scenario)

- Goal (G5: Flow rate sensor is appropriate for high patient demand scenario)

- Strategy (S6: Argument the appropriateness of flow rate sensor over properties)

- Goal (G6: Flow rate sensor's accuracy is appropriate for eliminating Overinfusion)

- Strategy (S7: Argument over the source of the flow rate sensor's accuracy definition)

- Goal (G7: Source for definition of flow rate sensor's accuracy is appropriate and trustworthy)

- Solution (Sn1: FDA standard)

- Goal (G8: Definition of flow rate sensor's accuracy is sufficient)

- Solution (Sn2: Expertise opinion)

- Goal (G3: Underinfusion is mitigated)

- Strategy (S4: Argument over the applied scenarios of Underinfusion)

- Goal (G4: Underinfusion is mitigated under low battery scenario)

- Strategy (S5: Argument over all specs related to low battery scenario)

- Goal (G5: Alarm system is appropriate for low battery scenario)

- Strategy (S6: Argument the appropriateness of alarm system over properties)

- Goal (G6: Alarm system's volume is appropriate for alerting staff)

- Strategy (S7: Argument over the source of the alarm system's volume definition)

- Goal (G7: Source for definition of alarm system's volume is appropriate and trustworthy)

- Solution (Sn1: Previous knowledge)

- Goal (G8: Definition of alarm system's volume is sufficient)

- Solution (Sn2: Expertise opinion)

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

- Context (C1: All specs are given by GPCA system specifications from FDA standard)

- Context (C2: Operational hazards are given by GPCA system operational hazard list)

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This instantiated assurance case organizes goals, strategies, contexts, and supporting evidence into a hierarchical tree to illustrate how the GPCA system addresses safety concerns related to overinfusion and underinfusion under specified scenarios. Each goal is supported by strategies, context information, and referenced solutions from recognized standards or expert opinions, demonstrating both the systemic approach to safety and adherence to regulatory and industry best practices.