Based on the provided safety case pattern and the domain information of the Generic Patient-Controlled Analgesia (GPCA) system, we can now instantiate the pattern and remove any placeholders to create a concrete safety case. Here is the instantiated safety case for the GPCA system:

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

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

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

- Goal (G2, All operational hazards are mitigated)

- Strategy (S3, Argument over operational hazards)

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

- Goal (G3, Overinfusion is mitigated)

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

- Context (C3, All related scenarios are given by Overinfusion)

- Goal (G4, Overinfusion is mitigated under Flow rate does not match the programmed rate)

- Strategy (S5, Argument over all specs related to Flow rate does not match the programmed rate)

- Context (C4, All related specs are given by Flow rate does not match the programmed rate.spec.allInstances())

- Goal (G5, Flow rate sensor is equipped is appropriate for Flow rate does not match the programmed rate)

- Strategy (S6, Argument the appropriateness of Flow rate sensor is equipped over properties)

- Context (C5, Properties are given by Flow rate sensor is equipped.property.allInstances())

- Goal (G6, Flow rate sensor is equipped is appropriate for Flow rate sensor is equipped)

- Strategy (S7, Argument over the source of the Flow rate sensor is equipped definition)

- Context (C6, Source is given by Flow rate sensor is equipped.source)

- Goal (G7, FDA standard is appropriate and trustworthy)

- Solution (Sn1, FDA standard)

- Goal (G8, Flow rate sensor is equipped definition is sufficient)

- Solution (Sn2, Flow rate sensor is equipped definition)

- Goal (G3, Underinfusion is mitigated)

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

- Context (C3, All related scenarios are given by Underinfusion)

- Goal (G4, Underinfusion is mitigated under Programmed rate too low)

- Strategy (S5, Argument over all specs related to Programmed rate too low)

- Context (C4, All related specs are given by Programmed rate too low.spec.allInstances())

- Goal (G5, Period (to trigger the underinfusion alarm) is 15 minutes is appropriate for Programmed rate too low)

- Strategy (S6, Argument the appropriateness of Period (to trigger the underinfusion alarm) is 15 minutes over properties)

- Context (C5, Properties are given by Period (to trigger the underinfusion alarm) is 15 minutes.property.allInstances())

- Goal (G6, Period (to trigger the underinfusion alarm) is 15 minutes is appropriate for Period (to trigger the underinfusion alarm) is 15 minutes)

- Strategy (S7, Argument over the source of the Period (to trigger the underinfusion alarm) is 15 minutes definition)

- Context (C6, Source is given by Period (to trigger the underinfusion alarm) is 15 minutes.source)

- Goal (G7, Expertise opinion is appropriate and trustworthy)

- Solution (Sn1, Expertise opinion)

- Goal (G8, Period (to trigger the underinfusion alarm) is 15 minutes definition is sufficient)

- Solution (Sn2, Period (to trigger the underinfusion alarm) is 15 minutes definition)

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This instantiated safety case specifies that the operational safety of the GPCA system is verified by mitigating operational hazards of Overinfusion and Underinfusion. Each hazard is mitigated by addressing specific causes, validating safety requirements against their scenarios, and bolstered by trustworthy sources such as the FDA standard and expertise opinion.