Here is the instantiated safety case for the Generic Patient-Controlled Analgesia (GPCA) system based on the given pattern:

```

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

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

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

- 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 operational hazard)

- 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 scenario.spec.allinstances())

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

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

- Context (C5, Properties are given by spec.property.allinstances())

- Goal (G6, Flow rate is less than 90% of the programmed rate setting is appropriate for Flow rate sensor)

- Strategy (S7, Argument over the source of the Flow rate is less than 90% of the programmed rate setting definition)

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

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

- Solution (Sn1, FDA standard)

- Goal (G8, Flow rate definition is sufficient)

- Solution (Sn2, Flow rate is less than 90% of the programmed rate setting)

- Goal (G3, Underinfusion is mitigated)

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

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

- 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 scenario.spec.allinstances())

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

- Strategy (S6, Argument the appropriateness of Period over properties)

- Context (C5, Properties are given by spec.property.allinstances())

- Goal (G6, Period is appropriate for underinfusion alarm)

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

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

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

- Solution (Sn1, Expertise opinion)

- Goal (G8, Period definition is sufficient)

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

```