Based on your provided pattern and domain-specific information for the Generic Patient-Controlled Analgesia (GPCA) system, I will instantiate the placeholders and build the hierarchical tree structure to represent the assurance case.

The generic placeholders will be replaced with instances related to the GPCA system, like the operational hazards "Overinfusion" and "Underinfusion," the associated scenarios, safety requirements, properties, and sources.

Here is the instantiated GSN assurance case for the GPCA system:

```

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 GPCA system.spec.allInstances())

-Goal (G2, All operational hazards are mitigated)

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-Strategy (S3, Argument over operational hazards)

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

-Goal (G3.1, Overinfusion is mitigated)

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

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

-Goal (G4.1, 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 (G5.1, SR1.1 is appropriate for Flow rate does not match the programmed rate)

--------------------------------------------------------------

-Strategy (S6, Argument the appropriateness of SR1.1 over properties)

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

-Goal (G6.1, Flow rate sensor is equipped is appropriate for SR1.1)

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

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

-Goal (G7.1, FDA standard is appropriate and trustworthy)

-Solution (Sn1.1, FDA standard)

-Goal (G8.1, Flow rate sensor is equipped definition is sufficient)

-Solution (Sn2.1, Flow rate sensor is equipped)

-Goal (G3.2, Underinfusion is mitigated)

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

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

-Goal (G4.2, 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 (G5.2, SR1.2 is appropriate for Programmed rate too low)

--------------------------------------------------------------

-Strategy (S6, Argument the appropriateness of SR1.2 over properties)

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

-Goal (G6.2, Period (to trigger the underinfusion alarm) is 15 minutes is appropriate for SR1.2)

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

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

-Goal (G7.2, Expertise opinion is appropriate and trustworthy)

-Solution (Sn1.2, Expertise opinion)

-Goal (G8.2, Period (to trigger the underinfusion alarm) is 15 minutes definition is sufficient)

-Solution (Sn2.2, Period (to trigger the underinfusion alarm) is 15 minutes)

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

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

```