To instantiate the safety case pattern for the Generic Patient Controlled Analgesia (GPCA) system from the placeholders and other details provided, the instance will replace generic placeholders with specific instances or descriptions relevant to the GPCA system. Here is the instantiated version of the safety case in a hierarchical tree format.

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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}

- Context (C1, All specs are given by GPCA spec instances)

- Goal (G2, All operational hazards are mitigated)

- Strategy (S3, Argument over operational hazards)

- Context (C2, Operational hazards are given by PCA operational hazard instances)

- Goal (G3, PCA operational hazard is mitigated)

- Strategy (S4, Argument over the applied scenarios of PCA operational hazard)

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

- Goal (G4, PCA operational hazard is mitigated under specific scenario)

- Strategy (S5, Argument over all specs related to specific scenario)

- Context (C4, All related specs are given by specific scenario specs instances)

- Goal (G5, Spec for drug delivery is appropriate for specific scenario)

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

- Context (C5, Properties are given by spec properties instances)

- Goal (G6, Drug dosage property is appropriate for drug delivery spec)

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

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

- Goal (G7, Source of drug property definition is appropriate and trustworthy)

- Solution (Sn1, Verified source documentation)

- Goal (G8, Drug dosage property definition is sufficient)

- Solution (Sn2, Drug dosage validation report)

```

This instantiation replaces placeholders with specific names and scenarios related to the GPCA system, such as focusing on "drug dosage" as a property and the related specifications and hazards in PCA operations. Below are some key replacements and assumptions:

- `{system}`, `{scenario}`, `{spec}`, `{property}`, `{Source}` in various goals are replaced with "GPCA system", "specific scenario", "drug delivery spec", "drug dosage property", "drug dosage property source" respectively.

- All related scenarios, specs, and properties have been instantiated with domain-specific entities according to their usage in the GPCA.

- The strategy elements S1 and S2 remain undeveloped as indicated in placeholders.

- Multiplicity in placeholders is assumed to apply to all instances of hazards, specs and scenarios specifically relevant to PCA in GPCA systems.

Each node has its associated strategies and context showing the underpinning logic, references to documentation, and contextual relationships. The formatting uses dashed prefixes at different levels to represent the hierarchical structure, providing clarity on the relationships and dependencies in the safety case.