OpsPilot

Standard / Regulation Selection — User Manual

Navigating the Maze of Applicable Codes · AI Engineering Co-Pilot

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What this guide covers — what standards selection is, how the OpsPilot module advises on it, what to have ready, and the advisory you receive.

> **Advisory tool.** This module identifies and structures applicable standards; the engineer bears accountability for the standards basis of design. It is distinct from the Compliance Register, which catalogues obligations once they are known.

1. What is standards selection?

Standards selection answers a deceptively hard question: given this task, this equipment, this sector and this jurisdiction, which codes and standards actually apply — which are mandatory, which are voluntary, how do they rank, and where do they conflict? Engineers routinely face a maze: multiple standards touch the same design, some are adopted into law and some aren't, an old superseded edition is still in use, and two applicable codes give different rules. Getting the standards basis wrong is a serious problem — it can invalidate a design or a certification.

OpsPilot advises per *ISO/IEC Guide 21 (adoption of international standards), AS 1001, the ASME BPVC and Eurocode frameworks, API / AMPP / ASTM, and the National Construction Code*. It is an advisory tool — given the context, it identifies the applicable standards, their hierarchy, conflicts and currency status.

2. What the OpsPilot module does

Role	Responsibility
🎯 **AI Coach — Engineering Standards Lead (OpsPilot)**	Identifies the applicable mandatory and voluntary standards for the task, sets out their hierarchy, flags conflicts between them, and checks currency (is this the current edition, or a superseded one?).
👷 **Engineering / Project / Design Engineer (you)**	Provide the task scope, equipment context, jurisdiction, sector and regulatory driver — and you bear engineering accountability for the standards basis of design.

3. What you will be asked — have this ready

- The task and the equipment context.
- The jurisdiction (which determines what's mandatory).
- The sector and the regulatory driver behind the work.
- Any standards you're already applying (to check currency and conflicts).

4. What you receive — the output

A Standards Selection advisory (Word): the applicable mandatory and voluntary standards for the task, their hierarchy, any conflicts between them, and the currency status of each — so the standards basis of design is explicit and defensible.

5. Worked example (illustrative)

An engineer is designing a pressure vessel for an Australian site. The advisory identifies the mandatory path — the WHS plant regulations and AS 1210 for the vessel — and notes where ASME BPVC Section VIII can be used as an alternative design code, and how the two relate. It flags a conflict to resolve: the project spec calls up an edition of a standard that has since been superseded, so the currency check surfaces it before it becomes a certification problem. It sets the hierarchy — what's mandatory, what's a referenced sub-standard, what's voluntary good practice — so the engineer knows what governs. The output isn't the design decision (that's the engineer's accountability); it's a clear, navigable map of the code landscape so nothing applicable is missed and nothing out-of-date is relied on.

6. Getting the best result

- **Pin the jurisdiction first.** What's mandatory depends entirely on where the work is.
- **Separate mandatory from voluntary.** Knowing what governs versus what's good practice changes the design basis.
- **Check currency.** A superseded edition called up in a spec is a certification problem waiting to happen.
- **Resolve conflicts deliberately.** Where two applicable codes differ, the choice must be reasoned and recorded.

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