

ENGINEERING ASSURANCE FOR POWER & UTILITIES

Traceability that outlives the project team.

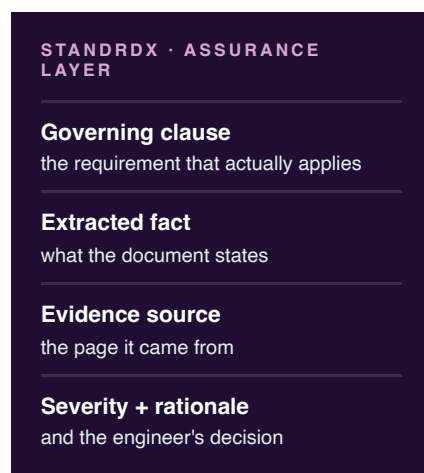
standrdX is the engineering assurance platform that validates engineering handoffs against the requirements, standards, specifications, drawings and data that govern them.

| The handoff being guarded: design deliverable → utility standard, across the life of the asset.

01 WHERE STANDRDX FITS

WHAT YOU RECEIVE

- Design packages and drawings
- Equipment datasheets and schedules
- Utility design standards and addenda



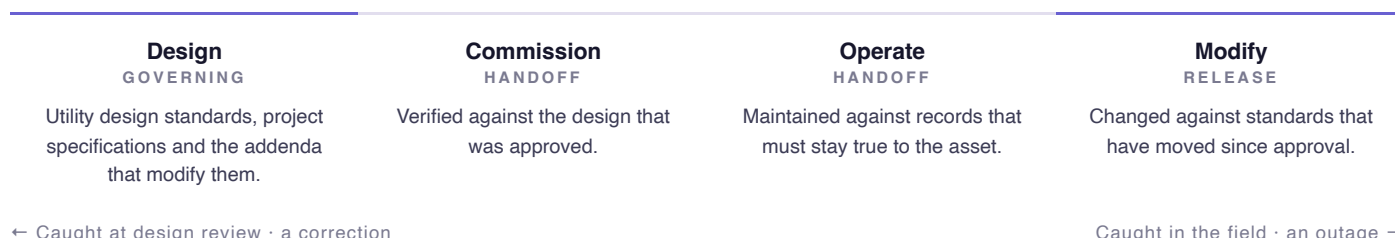
WHAT YOU RELEASE

- Verified design deliverables
- Cited findings register
- Traceable asset record

02 THE HANDOFF BEING GUARDED

One asset, decades of changes, one record.

A substation commissioned today will be modified by engineers who were not there when it was designed, against standards that have been revised several times since. The link between the asset, its documents and the standard in force when it was approved has to survive that.



Visibility across requirements, documents and assets is the thing that degrades first.

Engineering changes create rework when nobody can say which documents, drawings and assets a change affects. The information exists. Connecting projects with operations, years after the project team has moved on, is the part that is manual.

Utility engineering does not end at commissioning, and neither does the review burden.

Nothing is wrong on any single drawing, which is exactly why manual review misses it.

01

Engineering changes create downstream rework

A change is assessed by whoever knows the project best. The gap between a close estimate of its reach and a complete one is where the rework lives.

03

Standards move faster than the assets they govern

A deliverable approved against one revision of a utility standard is still in service when the standard has moved on. Whether it still complies is rarely revisited.

05

Standards knowledge leaves with the engineer

What a senior discipline reviewer knows lives in their head rather than in a system. On a forty-year asset, that is a certainty rather than a risk.

02

Nothing connects the project record to the operating asset

Design documents are produced for a project and then handed to operations. Tracing which asset a given requirement governs becomes a manual exercise.

04

The governing picture is spread across documents

Protection requirements sit in one document, material requirements in a referenced standard, a deviation in an addendum. Assembling the full obligation means opening several.

06

Evidence is assembled after the fact

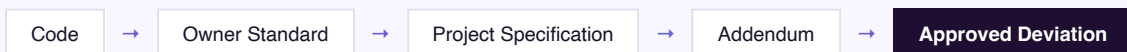
When an internal auditor or a regulator asks for the basis of a decision, reconstructing the trail from deliverable to clause to sign-off is a manual exercise.

04 PRECEDENCE

Governing requirement, not similar text.

A utility design standard, a project specification and an addendum can all speak to the same parameter and say different things. standrdX resolves which one governs, then validates against that. Get the precedence wrong and the review is wrong, however thorough it looks.

standrdX applies precedence across the governing documents to determine which requirement governs.



Applicable standards vary by project and by region. standrdX validates against the library you load: workspace standards apply across projects, and project addenda add project-specific controls and deviations.

05 HOW IT WORKS

01

Read the engineering record

Utility design standards, project specifications, addenda, single line diagrams, layouts, equipment datasheets and schedules, from the library you load.

02

Apply precedence

Determine which requirement governs when the governing documents disagree, and carry that decision forward.

03

Validate the handoff

Check each deliverable against the requirement that actually applies, at project scale and at every revision.

04

Engineer decides

Every finding carries its clause and evidence. The engineer reviews, decides and approves. The decision is recorded.

Drawing review

Single line diagrams, layouts and general arrangements ingested as project documents and included in a compliance run. Findings are returned clause by clause, with the source quote, a severity and a confidence score reported separately from the verdict.

Datasheet review

Equipment datasheets and schedules compared against the utility design standard and the project specification, with the governing clause, the extracted fact and the evidence source on every finding.

Revision comparison

2D drawing revision comparison identifies what changed between issues, so review effort goes to the change rather than to re-reading the whole deliverable at each revision.

Cross-document validation

Conflicts identified across connected engineering documents, so a discrepancy can be traced to the stage that introduced it. Scope and document set are established in a bounded engagement.

HIGH

Protection schedule PS-3340 · Rev 02

NON-CONFORMANT

Specified setting does not meet the requirement carried by the governing utility standard.

GOVERNING CLAUSE	Utility design standard, protection section, as invoked by the project specification Project addendum A-05 takes precedence
EXTRACTED FACT	Setting as scheduled · requirement as stated in the governing standard
EVIDENCE SOURCE	PS-3340 Rev 02, schedule · utility design standard, protection section
SEVERITY RATIONALE	Governing requirement applies to a protection function
REVIEWER	Open for engineering decision: approve, reject, or override severity

Illustrative. Severity, clause and evidence are carried on every finding; the engineer holds the decision.

standrdX does the first pass. Your engineers make the call.

Speed without handing over accountability. Every decision is recorded, every approval traceable.

STANDRDX

Reads

Compares

Determines

Finds

Explains

Tracks

Prepares

ENGINEER

Reviews

Decides

Approves

Escalates

Human governance is the design, not a safeguard added afterwards.

Each finding carries the governing clause, the extracted fact and the evidence source, so it can be checked rather than taken on trust.

01

Traceability that survives the project

The clause a deliverable was judged against is recorded with it, and remains available to operations.

03

Precedence applied consistently

Overlapping standards, specifications and addenda resolved by hierarchy rather than by reviewer.

05

Consistency across sites

The same validation logic applies wherever the document was produced and whoever reviewed it.

02

Change impact becomes answerable

What a revised standard affects is read back from the record rather than estimated by whoever knows the project.

04

Discrepancies traced to source

Findings identify the stage that introduced the issue, not simply that one exists.

06

Reviewable by default

The review record is a by-product of the review, not an exercise assembled afterwards.

10 WHY IT IS DIFFERENT

ADJACENT CATEGORY

Requirements management

Quality management systems

Extraction and reconciliation

Code-checking services

WHERE IT STOPS

Stores what was written. It does not verify that the requirement survived the translation.

Record the discrepancy after someone finds it. standrdX catches it at the handoff. The two are complementary.

Stops at the flagged conflict, without ruling on which requirement governs.

standrdX assures your requirement against the standards you set. Codes are one input among several.

11 WHAT THE PLATFORM PROVIDES

Platform. Multi-tenant SaaS with role-based access control, enterprise sign-in through Microsoft Entra ID, and full action logging. **Inputs.** PDF documents and engineering drawings, with 2D drawing revision comparison. **Outputs.** Findings and reports exported to PDF and Excel.

Governance. standrdX is evidence-backed and human-governed. It does not make engineering decisions or replace engineering judgment.

12 NEXT STEP

Prove it on your standards, your documents.

See standrdX run against your own utility design standards, design packages and equipment documentation, and judge the findings the way your discipline reviewers would.

GET IN TOUCH

hello@standrdx.com

Email us to arrange a demo or talk to an expert.