

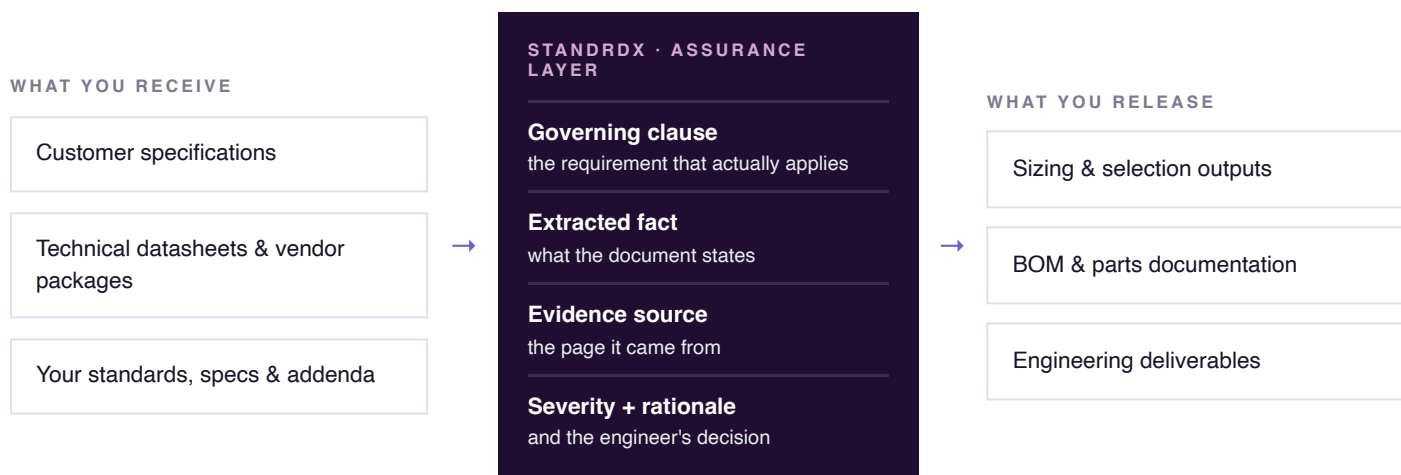
ENGINEERING ASSURANCE FOR OIL, GAS & OEM

Validate the handoff, not just the final document.

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

The handoffs being guarded: customer specification → BOM, and vendor package → owner standard.

01 WHERE STANDRDX FITS



02 THE HANDOFF BEING GUARDED

One chain, from requirement to release.

Whether the requirement arrives as a customer specification for equipment or as an owner standard governing a vendor package, the failure is the same: a governing requirement passes through a chain of translations performed by different people, in different documents, at different stages.

Requirement GOVERNING	Sizing & Selection HANDOFF	Engineering / BOM HANDOFF	Delivery RELEASE
Customer specification, owner standard and project addenda.	Duty conditions, materials and performance carried into the engineering decision.	Parts, components and documentation assembled from what preceded them.	Manufacturing, vendor submission and turnover against the governing requirement.
← Caught at the handoff · a correction		Caught at manufacturing · scrap and schedule →	

Requirements don't get less important downstream. They get harder to trace.

Each stage re-interprets what came before it. Every handoff is another opportunity for a requirement to be missed, misread, changed or quietly disconnected from the standard that governs it. An error caught at the handoff is a correction; caught at manufacturing it is scrap, schedule and a conversation with your customer.

Each document can be internally correct while contradicting the one before it.

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

01

Requirements are read and re-keyed by hand

A specification package runs to hundreds of pages across datasheets, referenced standards and addenda. An engineer reads it and transcribes what matters. Missed fields and transcription errors enter here.

03

Discrepancies live between stages, not inside them

Each stage validates its own output. Nothing validates the translation between one stage and the next, which is where the requirement is actually lost.

05

Vendor packages arrive against your standard, not theirs

Owner-operators review submissions built to a supplier's conventions. Checking them clause by clause against the owner standard is slow, and consistency varies by reviewer.

02

No single document holds the governing picture

Duty conditions sit in one document, material requirements in a referenced standard, a deviation in an addendum. Assembling the full obligation for one line item means opening several.

04

By the time it surfaces, the origin is gone

An issue found at quality review or on the floor has already passed through several documents. Establishing which stage introduced it becomes its own investigation.

06

Evidence is assembled after the fact

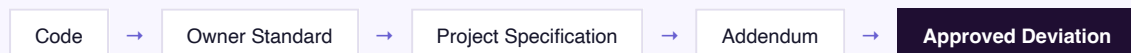
When a customer, inspector or auditor asks for the basis of a decision, reconstructing the trail from document to clause to sign-off is a manual exercise.

04 PRECEDENCE

Governing requirement, not similar text.

A customer specification, a referenced code and a project addendum can all speak to the same parameter and say different things. standrX resolves which one governs, then validates against that. Get the precedence wrong and the review is wrong, however thorough it looks.

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



Applicable standards vary by order and by project. standrX 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

Customer specifications, owner standards, project addenda, datasheets, drawings and BOM documentation, 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.

Requirement extraction

From supported customer specification and datasheet documents, standrdX extracts the stated technical requirements: flow, pressure, temperature, materials and performance. It matches each to the clause that governs it, presented with its evidence source. Engineering starts from an extracted, cited requirement set rather than a manual read-and-transcribe pass.

Sizing output validation

Where the sizing or selection output exists as a supported document, it is validated against the originating requirement, the applicable standards and the project addenda. Dimensions, capacity, materials, configuration and performance are checked against the requirement that governs them.

BOM & parts validation

BOM, parts list and component documentation validated against both the original requirement and the engineering information that preceded it. Every finding carries its governing clause and evidence source, so a discrepancy can be traced to the stage that introduced it.

Structured hand-off to downstream systems

Delivering the extracted, cited requirement set as structured output for downstream sizing and engineering workflows. standrdX does not integrate with sizing tools, ERP, PLM or MES systems today; the shape of a structured hand-off is for a bounded engagement to establish.

HIGH		Pump datasheet PD-4417 · Rev 02	NON-CONFORMANT
Specified carbon steel lacks verified HIC-resistant certification for the applicable sour-service condition.			
GOVERNING CLAUSE	Owner materials standard, sour-service section, invoked by customer specification § 6.4 Project addendum A-12 takes precedence		
EXTRACTED FACT	Body material: carbon steel · Service: wet H ₂ S · HIC-resistant certification not evidenced		
EVIDENCE SOURCE	PD-4417 Rev 02, sheet 2, materials block · customer specification, page 31		
SEVERITY RATIONALE	Governing requirement applies to a pressure-containing part		
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
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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

Fewer missed requirements

Requirements are extracted and cited rather than read and transcribed by hand.

03

Precedence applied consistently

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

05

Consistency across projects

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

02

Validation at each handoff

Each output is checked against the source requirement, not against a downstream summary of it.

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 specifications, standards and engineering documents, and judge the findings the way your engineers would.

GET IN TOUCH

hello@standrdx.com

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