



MINEFAB CROSSCHECK

Revision Comparator · Change Quantification · COR Package Generator

Feature Overview · June 2026

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NESTING
SCENARIOS

2

RFQ
MODES

ECN

CHANGE NOTICE
REPORT

COR

SUBSTANTIATED
BASIS

10+

KNOWLEDGE
BASES

AGENT CAPABILITIES

Line-by-Line Revision Delta

Compares two revisions of the same drawing set (rev-1 vs rev-2) and produces a complete line-by-line delta across dimensions, materials, grades, coatings, welds, and added/removed members.

Change Propagation Logic

A single change cascades automatically — a pipe diameter change flags gaskets, bolting, and flanges for re-quote; a member size change flags connection material and nesting. Catches downstream cost a naive diff misses.

IFC-Line Awareness

Understands revision nomenclature: letters (rA/rB/rC) are pre-IFC design development; numbers (r0/r1/r2) are post-IFC issued-for-construction. Post-IFC changes are flagged with higher commercial weight.

Dual Length Nesting

Re-nests both scenarios every time: whole-project nest (nothing cut yet) and delta-only nest (rev-1 material already in yard) — presented with the four-card impact layout showing stock, weight, yield, and drop deltas.

Dual RFQ Modes

Full re-nested rev-2 bill of materials for when nothing has been procured, or delta-only incremental buy for when rev-1 material is already in the yard — mode selected by procurement status input.

ECN Report — Five-Part Structure

Generates a complete Engineering Change Notice: header block, global changes table with Impact column, per-sheet BOM diff (CHANGED / ADDED / REMOVED color-coded), consolidated material summary, and action items.

COR Substantiation Package

Delivers a complete Change Order Request basis: quantity delta (lbs added, sticks re-nested, welds added, dependent items affected) and dual RFQ package. No dollar total — vendor bids set the price, the fabricator signs.

Lead-Time & Sourcing Risk Callouts

Expanded action items flag long-lead and proprietary items, vendor-tag confirmations, EOR-dependent procurement decisions, and any item where lead time could impact the fabrication schedule.

Professional PDF & Excel Output

Full deliverable set: ECN Report PDF, raw delta data (PDF + Excel), whole-project nesting (PDF + Excel), delta-only nesting (PDF + Excel), and dual-mode RFQ package (Excel).

OUTPUT DELIVERABLES

- ECN Report PDF (5-Part)
- Raw Delta Data PDF + Excel
- Whole-Project Nesting PDF + Excel
- Delta-Only Nesting PDF + Excel
- Full RFQ Package (Excel)
- Delta-Only RFQ (Excel)
- Lead-Time Risk Register
- COR Substantiation Summary

APPLICABLE STANDARDS

- ASME B31.3
- ASME B31.1
- AISC 360
- AWS D1.1
- AISC KB1 Rev4
- ECN Format (Turquoise Ridge Ref.)
- Project Rev Schedule
- Project Procurement Log