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TRIDENT BUILD | PROJECT 001

AGGRESSIVE ENGINEERING POSITION REPORT

Strongest defensible opportunity case — not a field-performance claim

November 3, 2026 | Internal scenario assessment | Stage 12 evidence basis

Executive assessment

Trident Build has assembled a staged, traceable synthetic evaluation package spanning mission execution, offline behavior, leak-detection logic, return-to-start, and electrical-inspection planning. Its immediate commercial strength is preparedness: a repeatable workflow and documented baseline for rapid requirements-driven iteration.

Evidence ledger — identical facts across all three reports

Evidence classification: Synthetic simulation and planning records only. No physical rover trials have been performed.

Mission outcomes: 40 synthetic mission trials: 23 completed (57.5%); 17 safe stops (42.5%). These are observed outcomes of the modeled scenarios, not estimated field success rates.

Offline autonomy: 10 simulated offline-mode trials: 6 completed and 4 safe stops. Offline behavior under real communication loss is unverified.

Plumbing leak detection: 10 positive simulated leak detections; 13 recorded negative results; 17 missing results associated with incomplete missions. Missing values are not negative detections; no physical sensitivity or specificity established.

Return to start: 23 simulated returns recorded. Modeled localization error for returned missions averaged approximately 0.219 m, but this is not independently measured physical return-position accuracy.

Electrical inspection: Electrical inspection appears in planning records. Reviewed mission datasets contain no identified electrical-specific measurement columns; no rover electrical fault-detection capability demonstrated.

Comparison readiness: Four Stage 8 comparison records remain awaiting simulation-trial mapping and physical field data. Stage 12 created a four-area proposed validation plan, status PLANNED_NOT_PERFORMED.

Data integrity and preservation: Stage 12 ZIP integrity PASS, containing 12 files (11 restored research files and one Stage 12 validation plan). User confirms three backup locations. This does not constitute external audit or engineering certification.

Planned Quantum, Classical and Physical Benchmarking

Trident Build plans to benchmark its computational simulations against computations performed on real quantum computing hardware and classical computing systems, then compare the results with independently measured performance in physical construction applications, including electrical infrastructure and water piping/plumbing systems. These comparisons and physical tests are planned, not completed; no quantum-hardware or classical-hardware benchmark results or field validation results are claimed in this report.

Interpretation of the synthetic results

The modeled campaign covers 40 mission trials, including 23 completed missions and 17 recorded safe stops. Six of ten modeled offline-mode trials completed. These are meaningful scenario-coverage results for prioritizing engineering demonstrations, not proof of field success or fault-detection accuracy.

Recommended external positioning

Use the package to seek structured technical collaboration: request specifications, propose controlled demonstrations, and emphasize rapid model revision, versioned evidence, and clear separation of simulated from measured results. The aggressive case is for development momentum and test readiness—not proven product performance.

If incoming specifications differ

Offer a specification-to-test matrix, prioritize the highest-value field demonstrations, assign objective measurement methods, and iterate the simulation quickly as requirements are clarified. Gate all deployment claims on independently reviewed physical results.

Evidence boundaries and provenance

Prepared from the user-confirmed Stage 11 engineering evidence summary, Stage 12 validation-plan and backup-verification results discussed in this conversation. Original CSVs were not directly attached to this report-generation request; individual trial records were not independently reanalyzed here. Any numerical percentages are arithmetic from reported counts, not newly measured data.

No physical New York rover trials, independently measured return-position accuracy, verified physical leak-detection sensitivity, or validated electrical inspection results are claimed. The Stage 12 plan is proposed and not engineering-approved.