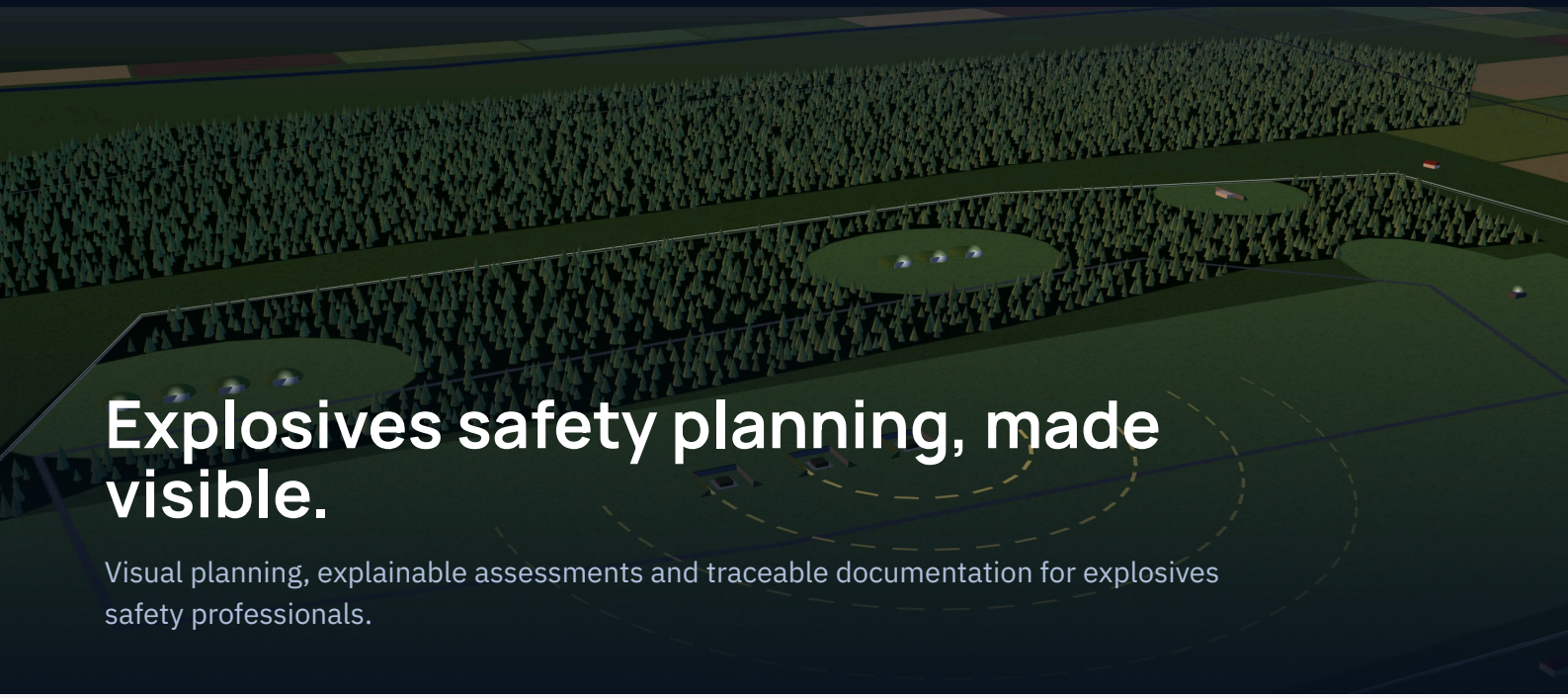
AEMS

DEMO · NOT FOR OPERATIONAL USE

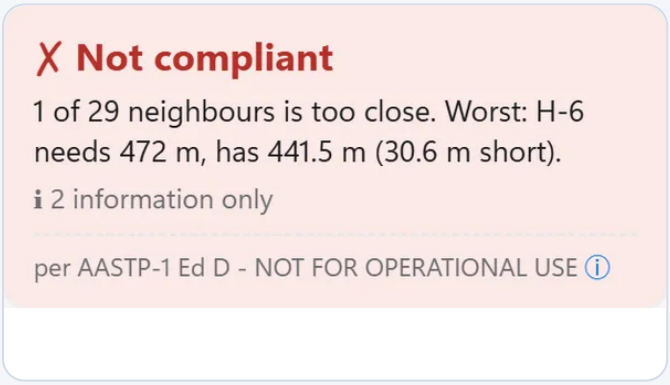


Explosives safety planning, made visible.

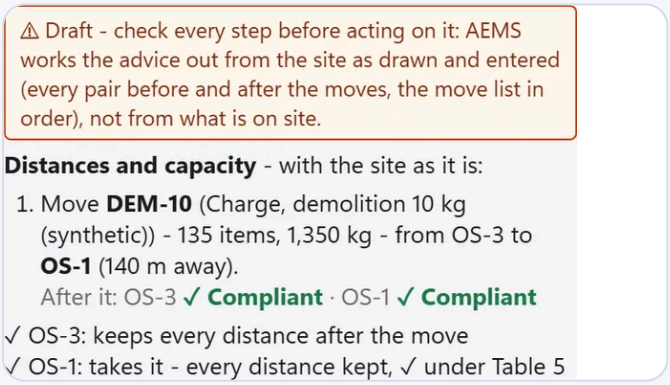
Visual planning, explainable assessments and traceable documentation for explosives safety professionals.

AEMS takes an explosives storage site from a drawing to checked, explained and documented quantity-distance results - every required distance read from rule data copied from AASTP-1 Ed D and checked by hand.

From findings to a compliant depot



1 · Find it. AEMS measures every pair and shows which one falls short - and by how much.



2 · Fix it. One move with the storages the depot already has, checked on the whole site before you act.

3 · See who is protected. After the fixes, the school and the hospital stand outside the vulnerable-building line AEMS draws, every house outside the inhabited-building line. 3D illustration of the synthetic depot; lines from AEMS.

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What AEMS does

Plan The site to scale on a local metric grid: storages with doors and orientation, buildings, roads, power lines, fences, barricades, earth cover.

Assess Closest-point distances for every pair. Hazard divisions 1.1 to 1.6, mixing and aggregation under AASTP-1 Ed D.

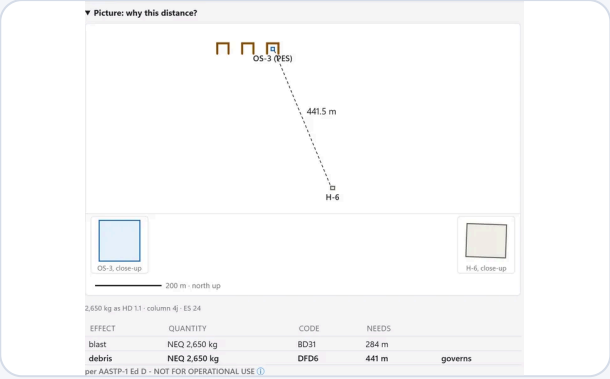
Explain "Picture: why this distance?" for any pair: the effect that governs, the table column, the exposed-site type.

Contents Inventory from an Excel template made for the site; net explosive quantity (NEQ) and maximum credible event (MCE) from the items; AASTP-1 Table 5 compatibility; capacity per storage.

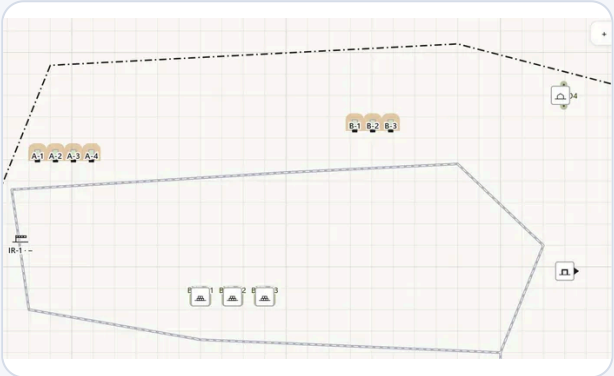
Change Moves between the storages you have, checked on the whole site; where none works, AEMS says a risk acceptance is required.

Safeguarding Inhabited-building and vulnerable-building lines for the current and the allowed quantities, on screen and printed to scale.

Documents QD sheets in the AASTP-1.1 Annex A layout, a licence proposal, the safeguarding map, door cards, the emergency plan, inspection forms.



Every result shows why (OS-3 - H-6 after the fix).



The site to scale.

Built and checked case by case

2,460
automated tests, all passing on this revision

777
rule-data entries, each with a recorded manual check against the standard

12
synthetic test depots with hand-checked expected results

10
internally accepted demo iterations

Site data is computed in your browser and saved as a file on your computer. AEMS has no server-side database. Every distance is labelled with the standard it comes from. Counted on AEMS 0.11.0 (b7a732a), 27 Oct 2026.

Talk to us about an evaluation. A live, screen-shared walkthrough on synthetic sites - request one at aemsdefence.com/contact or write to contact@aemsdefence.com.

AEMS is demo software: not released, not certified, not for operational use; every output is a draft for a qualified officer to check. All depots, items and numbers shown are synthetic.