

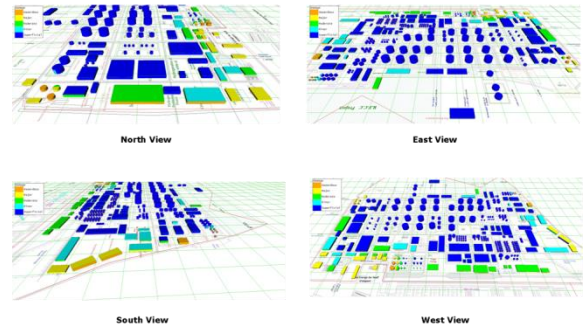
Development of Risk Mitigation Requirements for an Oil Refinery

Patrick Mann & Associates were contracted to support the development of the security protection strategy for a major Iraq oil refinery.

The scope included:

- A blast damage assessment to quantify the hazard posed on the site from a range of credible terrorist threat scenarios including: VBIEDs, PBIED, mortars, rockets, grenades and rifles.
- Estimation of the potential escalation potential from damage to critical plant infrastructure. This included the potential for secondary explosions.
- A review of the perimeter security and the development of exclusion zone requirements in order to minimise the impact consequences to the site. The development of the exclusion zones also considered the conflicting requirements for maintaining security whiles also maintaining clear evacuation routes in case of on-site incident.

VBIED Damage



Perimeter Option 2: 50m Exclusion Zone

