Workshop on Vulnerability and Security of Critical Transport Infrastructure
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Security in Design of Stations (SIDOS)

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Purpose of the Guide

• To increase the protection of railway users from terrorism and crime
• Raise awareness to designers, planners, architects, etc
• Provide generic security advice
• Ensure engagement with the right stakeholders
• To deliver effective security measures cost effectively.
The Process

- Conduct a risk assessment
- Designate a senior security person
- Set up a steering group and sub-working groups
- Engage with stakeholders
- Consider H&S, disability, Heritage building consents
- Use the quick reference check list.
Transport threats

- Prevent and mitigate threats
- VBIED
  - Static
  - Suicide
- PBIED
  - Left Package (inside/outside station or on-train)
  - Suicide (inside/outside station or on-train)
- MAS, CBR,
- General crime.
Minimising the Impact

The effects:

• Detonating an IED will cause death and injury through either the effect of blast or from fragmentation.

• Blast Wave – release of energy and heat

• Protect people and critical assets.
Designing in security

Specialist advice:
• Buildings designed to resist a quantifiable degree of blast
• Laminated glazing used to reduce secondary shrapnel
• Cladding that does not fracture or detach during blast
• Design in HVM and stand-off – every metre counts
• Non-public area access controlled and quality doors/locks to withstand intruders.
Designing in security

- Ensure staff & public parking is away from crowded places and critical areas.
- Locate lost property away from crowded areas ideally near the perimeter.
- Protect the station perimeter from unauthorised access & minimise number of entrances.
- Provide good emergency service access.
An integrated approach

- Where practicable integrate security measures with
  - other local public realm areas
- Design in security to assist operational measures
  - no “gaps” conceal items
  - have good sight lines as this aids searching
  - Integrate lighting and CCTV
    - Well sited waste facilities, cycle parking
  - International screening operations.
Conclusions

• Security measures should be based upon a risk assessment
• The right stakeholders need to be engaged to ensure successful delivery of the project
• SIDOS is used to inform designers, planners and architects of the generic requirements
• Further discussions provide the detailed specification for the security measures
• Design in security at the earliest stage to achieve the most cost effective solution.
Thank you

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