



NATIONAL SAFE SKIES ALLIANCE

Program for Applied Research in Airport Security

PARAS 0039 Project Summary

Project Title:	Security, Operations, and Design Considerations for Airside Vehicle Access Gates		
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BACKGROUND

Under 49 CFR 1542.201–203, each airport required to have a security program must prevent and detect the unauthorized entry, presence, and movement of individuals and ground vehicles into or within the Secured Area and AOA. Various Security Directives and National Amendments supplement these requirements. Vehicle entry points into these areas can be complex control points involving multiple functions and layers of security. While the measures at each airport and access point vary, typical system elements include staffed security/guard house, fencing and other physical barriers, entry and departure lanes, inspection areas and associated procedures, and multiple electronic systems/technologies.

Each airport must make design and process decisions for vehicle entry points based on their overall security posture, available resources, and the unique needs and vulnerabilities of each access point. Considering the multitude of factors that contribute to the successful design and operation of these entry points, a comprehensive resource is needed to ensure decisions are strategic and well informed.

OBJECTIVE

The objective of this research is to develop comprehensive guidance to assist airports in meeting regulatory requirements as well as enhancing the security and functional efficiency of vehicle access gates. The guidance should address:

- Design and infrastructure, including:
 - Space planning and layout
 - Staging/inspection areas
 - Lane needs (ingress, egress, reject/turnaround)
 - Roadway and traffic considerations
 - Fencing, gates, and other physical barriers
 - Considerations for relevant technology use
 - Lighting needs
 - Backup power
 - Functional, environmental, and protection considerations for guard house(s)
 - Environmental considerations for people and equipment
- Operational considerations, including:
 - Volume management strategies
 - Inspections/Vetting
 - Emergency access needs
 - Irregular and contingency procedures
 - Staffing strategies and human factor considerations
 - Auditing strategies
- Relevant practices from non-aviation industries

The resulting guidance should be scalable to encompass airports of all sizes and resource levels.