



# NATIONAL SAFE SKIES ALLIANCE

## Program for Applied Research in Airport Security PARAS 0024 Project Summary

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<b>Project Title:</b>	Consolidated Receiving and Distribution Facilities at Airports
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<b>Research Agency:</b>	Miller Dunwiddie Architecture, Inc.
<b>Principal Investigator:</b>	Joel Stromgren
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<b>Contract Time:</b>	15 Months
<b>Funds:</b>	\$249,789

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### BACKGROUND

Delivery of items, such as merchandise and consumable goods, presents logistical challenges for airports. Some airports receive and physically inspect deliveries at various locations throughout their facility, while others use or are considering the use of a consolidated receiving and distribution facility or warehouse concept. Consolidated facilities allow items to be delivered and inspected in one location, and then distributed throughout the airport as needed. Airports, in cooperation with their stakeholders, must determine the appropriate logistics and inspection solution for their operational needs and regulatory requirements. For those considering a consolidated facility, more information is needed.

### OBJECTIVE

The objective of this research is to produce guidance for airports considering a consolidated receiving and distribution facility. At a minimum, the guidance should include:

- Definition and purpose of a consolidated facility
- Questions to consider when exploring a consolidated facility, including:
  - Who will be the project sponsor?
  - What are the advantages/disadvantages?
  - What issues does the airport want to solve?
- Planning/Design
  - Stakeholder identification and engagement strategies
  - Roles and responsibilities, including Subject Matter Expert availability
  - Scope of use (concessions, airlines, and non-concession tenants, etc.)
  - Potential locations (onsite, offsite, or hybrid), including delivery nodes, access considerations , physical security considerations
  - Layout options
  - Space planning/adjacency
  - Operational security considerations (potential threats, type of inspection, threat resolution, etc.)
  - Environmental requirements
  - Federal and state regulations

- Financial considerations (capital and operating cost)
- In-house operator versus contractor considerations
  - Contractor
    - RFQ/RFP development
    - Selection criteria
    - Management and oversight
  - In-house
    - Resources
    - Training
    - Technology required
    - Risk and liability
- Transition and implementation considerations
- Performance and compliance considerations