

Newark, LaGuardia, JFK, Teterboro and Stewart Airports

NEW YORK AND NEW JERSEY, USA



Airports Snow Study Update

The Port Authority of New York and New Jersey (PANYNJ) retained Critical Path, Inc. (CPI) to complete a comprehensive review and analysis of the PANYNJ's four airports studied in the previous 2002 Snow Study (Kennedy, LaGuardia, Newark Liberty, and Teterboro) completed by CPI. Additionally, CPI was tasked to conduct a full assessment of the Stewart Airport (SWF) snow removal program.

The snow study update began with an on-site meeting with the PANYNJ Technical Steering Committee (TSC) to gather information from the five Port Authority airports relative to current snow removal conditions, procedures, and operations. Meetings were held with each airport to gather detailed operational information from each airport. Upon completion of the data gathering meetings with the TSC members, CPI conducted an analysis of the current staffing and equipment deficiencies at JFK, LGA, and EWR airports. The Port Authority requested this analysis be completed prior to CPI beginning the other tasks of this project.

Upon completion of the staffing and equipment analysis, CPI reviewed the previous 2002 PANYNJ Snow Study to determine what implementation steps had been taken by each airport and identified additional short-term and long-term enhancements that should be considered for implementation. Recommendations from the 2002 Snow Study reviewed included equipment, staffing, training, communications command/procedures, new technology, maintenance equipment and facilities, Central Automotive Division (CAD), and general recommendations. CPI reviewed the previous recommendations and prepared additional recommendations based on the following items:

- Analysis of JFK, EWR, LGA, and TEB airport operations levels, types of aircraft utilizing the airport, and any changes in airport operating characteristics that would affect snow clearing decision-making
- Evaluation of snow removal equipment and vehicles based on potential changes in pavement surfaces, equipment routing, and snow team configurations

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Airports Snow Study Update (cont'd)

- Review of staffing levels and shift hours
- Review of airport's current Snow Plans to identify areas that required changes
- A Cost Benefit Analysis was conducted to provide financial and efficiency justification for each of the individual airport's recommendations

CPI conducted a full assessment of the SWF snow removal program in a manner similar to the 2002 Snow Study. This full assessment included a review of the following items for the Stewart Airport:

- Evaluation of vehicle condition reports and assessment of total vehicles required for all seasons of operations, including a schedule for replacement
- Analysis of airport operation levels, types of aircraft utilizing the airport, and any unique airport operating characteristics
- Annual snowfall records
- Identification of Priority 1 pavement areas and recommended changes
- Evaluation of airside snow removal equipment and vehicles
- Evaluation of deicing chemicals used by SWF and recommended changes
- Evaluation of existing training and testing procedures and recommended changes
- Evaluation of adequacy of existing snow plan
- Evaluation of available communication equipment
- Analysis of equipment, staffing and procedures to meet snow removal capabilities identified by Airport
- Summary of recommendations and an outline of the steps necessary to implement the recommendations

The study provided the Port Authority with a report detailing the findings and recommendations.

The work was conducted from January to November 2009.