
Stockton Aviation Research & Technology Park

State of the Park

September 2016

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Executive Director

Vision

The Stockton Aviation Research & Technology Park will become a collaborative, full-service, aviation research facility capable of supporting advanced R&D, product innovation and commercialization, and operations research for the aviation community.



State of the Park

The State of the Park is Great.

- ✓ Building Program is on the verge of beginning
 - ✓ Membership is growing
- ✓ The SARTP is conducting Aviation Research

SARTP - Features

- ✈ 58 acres leased from the FAA William J. Hughes Technical Center (WJHTC)
- ✈ 7 multi-story buildings with over 400,000 square feet space
- ✈ Connectivity to FAA data, systems, and laboratories
- ✈ Part of the FAA WJHTC campus that includes
 - ★ DHS Transportation Security Lab
 - ★ Federal Air Marshal Services Training Facility
 - ★ United States Coast Guard Station Atlantic City
 - ★ Atlantic City International Airport (ACY)
 - ★ NJ Air National Guard 177th Air Wing



Building Program - Features

✈ First Building

- ★ 3 Floors
- ★ 60,000+ sq ft. Rentable Space
- ★ High-Speed Connectivity to the WJHTC Laboratories
- ★ FAA Laboratory & Offices (7,000 sqft)
- ★ Thunder Room
- ★ State-of-the-Art Classrooms
- ★ Member Laboratories & Offices
- ★ Roof-top Lounge



First Building



First Building



First Building



First Building - Schedule

✈ First Building Construction Schedule

- ★ Builders Selected 4th Qtr CY16
- ★ Construction Begins
 - Infrastructure 4th Qtr CY16
 - Building 1st Qtr CY17
- ★ Construction Complete 1st Qtr CY18

✈ Marketing and Leasing

- ★ Agent Selected 3rd Qtr CY16
- ★ Begin Executing Leases 1st Qtr CY17

✈ Building Open for Business

1st Qtr 2018

Membership

- ✈️ SARTP is a member-based organization
- ✈️ Three levels of Membership
 - ★ Cornerstone Member
 - ★ Associate Member
 - ★ Member
- ✈️ Benefits of Membership
 - ★ Seat at the Table
 - ★ Committee Membership
 - Management Advisory Committee
 - Technical Advisory Committee
 - ★ Tenancy at the Park
 - ★ Opportunities for Collaborative Research
 - ★ Contract Opportunities through the SARTP
- ✈️ Significant increase in Membership Interest

Aviation Research

✈ The SARTP is in the business of Aviation Research

- ★ Scope of Aviation Research projects continue to expand
 - Smart Airport Landing System
 - NJ Unmanned Aircraft Systems Test Site
 - NASA UAS Traffic Management Tasks
 - UAS Integration in the NAS Research
 - UAS Research Flights (aircraft & sensors)
 - UAS Familiarization & Training Center – KWWD
 - STEM Initiatives
 - Vaughn College
 - Camden Youth

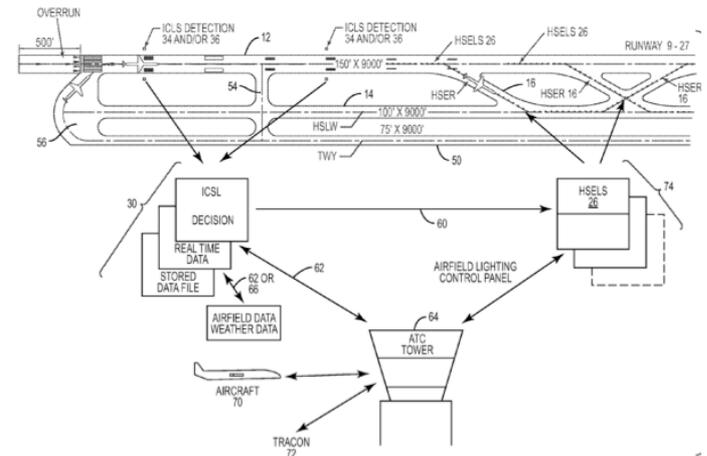


Aviation Research

✈ Smart Airport Landing System (SALS)

- ✓ Brought forward by the Inventor at ATCA Conference '15
- ✓ Established a team of the inventor, SARTP, and PPI
- ✓ Conducted Early Proof of Concept at Phoenix Intl
- ✓ Executed a CRDA with the FAA to perform a Safety Management Study at the AFTIL

★ Research progressing



NJ UAS Test Site

✈ The New Jersey UAS Test Site is:

- ★ Led by the NJ Innovation Institute at NJIT
- ★ Sponsored by the NJEDA and Member Contributions
- ★ Focused on Economic Development and Job Creation
- ★ SARTP provides Technical & Operational Leadership



NJ UAS Test Site

✈️ Completed Research Projects

- ✓ American Aerospace Technologies, Inc. - RS-20 UAS
 - Launch/Recovery: Cape May Airport (KWWD)
 - 17' wingspan and weighed 165 lbs at launch
 - Missions included aeronautical research, real-time downlink of video data from aerial infrastructure survey, integration with manned aircraft, and airborne communications relay
 - Flew over 210 nm on <3 gals. of gasoline
 - Transponder equipped and communications with ACY
 - DR&A of telemetry data conducted by SARTP

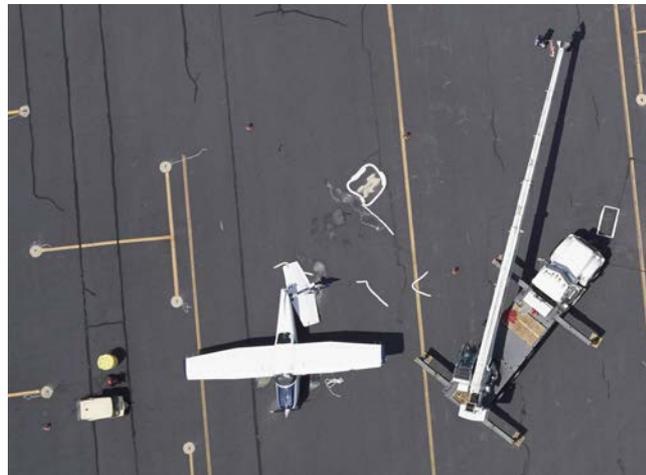


Telemetry data provided by AATI, 2015

NJ UAS Test Site

✈ Completed Research Projects

- ✓ NAVMAR Applied Sciences Corp – Tigershark UAS
 - Launch/Recovery: Cape May Airport (KWWD)
 - 22' wingspan and weighed ~400 lbs at launch
 - Missions included aeronautical research, pilot currency, and post-storm emergency management
 - Transponder equipped with beacon code



Courtesy of NASC, 2016



NJ UAS Test Site

✈ Ongoing and future Research Projects

- ✓ Major Medical School – Transfer of Biological Materials
- ✓ DARPA – Counter UAS Research with airborne radar
- ✓ American Red Cross – Flight Training for Missing Maps Program over Liberia and Sierra Leone
- ✓ Entrepreneur – Airborne Detect and Avoid Algorithms
- ☆ Atlantic County – Mosquito Detection and Mitigation
- ☆ Rowan University – Airborne Data Collection
- ☆ Raptor Maps – Agricultural
- ☆ Stockton University – Fish & Wildlife, Beach Erosion

✈ Proposals in Preparation

- ☆ UAS at Airports
- ☆ UAS Integration into the NAS
- ☆ UAS Familiarization & Training Facilities

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