

Veoci automates Tweed's daily inspections, FAA Part 139 reporting, and compliance activities

The Client

Tweed New Haven Regional Airport (HVN) is one of two public airports in Connecticut with air carrier service. The airport is popular with private aircraft owners and companies that provide air tours of the Connecticut shoreline, and US Airways Express offers daily flights to Philadelphia, as well as return service. Heavy traffic flows through the airport during the annual New Haven Open tennis tournament and major events at Yale University.

The Background

Under Title 14, Code of Federal Regulations Part 139, airports must perform regularly scheduled self-inspections. These inspections are meant to ensure regulatory compliance on a daily basis, and are seen by the FAA as the key element of the airport operator's overall safety program. During self-inspections, attention is primarily given to operational items such as pavement areas, safety areas, markings, signs, lighting, aircraft rescue and firefighting, fueling operations, navigational aids, ground vehicles, obstructions, public protection, wildlife hazard management, construction, and snow and ice control.

Work orders are created from any discrepancies found during the inspection and assigned for resolution. Some work orders also require a Notice to Airmen (NOTAM) to be reported and documented alongside the work order.¹

The Challenges

Inspection logs, work orders, wildlife logs, and NOTAMs are all logged on paper-based forms and filed for inspection and review. By using paper-based forms, it becomes difficult to aggregate data and identify patterns. This poses an issue when analyzing such sets of data as:

¹ A NOTAM is an alert sent to aircraft pilots indicating possible hazards at a particular location or along a flight path that could compromise the safety of the flight.

- Where all the pavement problems are occurring on the airfield
- What lights and/or signs have recurring problems
- When and where most of the wildlife issues happen

The Veoci Solution

Veoci provides a collaborative workspace for the Tweed Operations team to organize and digitize key operational processes.

- 1. Daily paper self-inspection forms are now online forms, which can be filled out from any web-browsing device.
- 2. Custom actions in forms trigger work orders whenever discrepancies are found with inspection items.
- 3. Work orders are assigned to specific teams or individuals. The exact location of a problem is marked on a digital map. The individuals involved receive an email and SMS alert when the work assignment is given to them (Fig. 1).



(Fig. 1) A snapshot of all the open work orders on the airfield.





- 4. Airfield assets such as signs, lights, and navaids are maintained in resource databases which are accessible from anywhere. The assets in the databases can be referenced in inspection forms and while logging work orders and NOTAMs (Fig. 2).
- 5. All the information gathered in Veoci is available on a Dashboard for airport management, allowing them to drill down into data, zoom out for general views, generate specific data filters on the fly, and get real-time insights into recurring problems on the airfield (Fig. 3 and 4).

The Results

- No waiting for forms to be filled out, copied, and distributed. Data is always available.
- Work processes are digitized and information is stored in one centralized system for easy access and retrieval for FAA inspections.
- Enhanced safety and improved security of the airport. Teams are alerted quickly and everyone is on the same page every day, whether it's during daily routines, drills, or emergencies.



(Fig. 2) View all airfield assets including signs, lights, and navaids and create new work orders directly from the asset record.



(Fig. 3) Mowing areas added as an overlay along with the open work orders.



(Fig. 4) Track wildlife sightings down to the exact location and direction of flight. Include other details such as action taken, weather conditions, and activity on the airfield.



195 Church St 14th Floor, New Haven, CT 06510 | 203-782-5944 | info@veoci.com | veoci.com