

The NCDOT Division of Aviation's TALONS program reimburses North Carolina public airports 50% of the cost of installing and maintaining a pre-qualified airport operations counting service, up to \$3,000 a year,

To prequalify, vendors must meet performance requirements contained in this document. Once qualified, airports work directly with vendors to secure and maintain their operations counting service. Airports may submit reimbursement claims to the Division annually.

Product Performance Requirements

Operational Capabilities: Operations data services must provide automated, continuous 24/7, all-weather; real-time access to flight operations data, including aircraft landings and takeoffs.

Recording Capabilities: Services must record 90% or better of landings to and takeoffs from runway pavement by equipped (ADS-B) fixed-wing aircraft. Each recorded aircraft operation with ADS-B data should identify its associated Aircraft Design Group (ADG), as defined by the Federal Aviation Administration. All landing and takeoff operations should be additionally identified as:

- Touch and go – touching the pavement in a continuous operation
- Extended touch and go – less than 10 minutes on the ground at the airport
- Full stop – all other landings and takeoffs

Additional non-pavement-touching operations may be recorded and included in the data, but must be distinguished with appropriate descriptions, such as “low pass,” “missed approach,” etc. An evaluation of overcounting operations with a threshold of 10% must also be provided. (For example, if 110 operations are reported, but only 100 operations occurred as described in the data, the rate of overcounting is 10%.)

Reporting Capabilities: The service must at a minimum produce a monthly summary of aircraft operations showing the monthly total by aircraft ADG and daily operation counts, with aircraft details, including the aircraft's ADG and its make, model and registration.

Vendor Designations

Approved Vendor

After demonstrating, meeting or exceeding the performance requirements at a N.C. public airport during a field trial use period, the vendor is approved for Division-reimbursable installation at all 72 public airports in North Carolina's airport system.



Vendors must provide the Division:

- A monthly report of airport summary data showing aircraft operations by type and daily operations totals.
- Login access to the airport's service platform for ongoing evaluation and operations information.

A Division of Aviation-appointed reviewer evaluates the performance evaluation of services installed at each airport at least once every two years by observing (in-person or via video) a minimum of 50 aircraft operations and comparing them to operations reported by the service. The reviewer also monitors services continuously to ensure airport operational data are being captured. If performance requirements are not met, the reimbursement period will be suspended until the vendor restores the product to meet performance requirements.

Field Trial Vendor

Vendors with systems not located and approved for reimbursement at one of North Carolina's 72 public airports may apply for pre-qualification through a field trial process. Vendors may request field trial use at a single N.C. public airport by providing independent study data showing performance, documentation of testing in a controlled/simulated environment or self-certification.

Within three months of installation and operation at a N.C. public airport, a Division-appointed reviewer will evaluate the product's performance via a minimum of 50 observed aircraft operations, using in-person visual observation or video observation. Vendors will be notified of approval or denial of prequalification upon completion of the evaluation. During the field trial use period, vendors must provide the Division:

- A monthly report of airport summary data showing aircraft operations by type and daily operations totals.
- Login access to the airport's service platform for ongoing evaluation and operations information.

Contact

Raj Kondapalli, P.E.

NCDOT Aviation Statewide Airports Program Manager
o 919.814.0559 | m 919.817.9509
rkondapalli@ncdot.gov