

DESCRIPTION OF EXPERIMENT

Rockwell Collins, Inc. is requesting special temporary authority to ensure that its experimental communication equipment is functioning so as to ensure proper behavior for flight testing.

The experiment involves a distributed MUM-T system that is supported by an autonomous capability that provides the lead pilot with the ability to command and control an autonomous team to effectively and efficiently execute a representative tactical mission. The effort will demonstrate the ability of the autonomous capabilities to execute complex behaviors, including platform and sensor control, under the manned pilot's guidance.

This testing will include a Learjet, as a surrogate autonomous vehicle, and a ground station for communications at the Calspan Hangar in Niagara Falls, NY. The surrogate aircraft are controlled via the data links from the ground station. This control will include uploading routes and sensor information to the surrogate aircraft from the ground station. This testing will be performed as a check out to perform a flight test event at a government range.