

Amendment to the Description of Experiment

University of Iowa, Operator Performance Laboratory, respectfully requests an amendment to WJ2XNP experimental license. This is a request to add a 2nd, Fortem DAA-R20 radar to the experimental license.

As described in Exhibit 1, Description of the Experiment...

We propose to use Fortem DAA-R20 radar for tracking airborne objects within nearby airspace and correlation of those objects with flight plans of known participating aircraft. The air traffic management system will flag objects that cannot be correlated to known participants. Overall, the proposed air traffic management system will enhance flight safety for manned and unmanned aircraft.

The system has been designed to enable UAS operators to detect and avoid other airborne vehicles within the envelope of the ground based radar, thus increasing safety of flight for all participants.

We propose to expand the envelope of the operating area by adding an additional Fortem DAA-R20 radar at a secondary site. The additional Fortem DAA-R20 radar could also provide a secondary source of data to improve the fidelity of the air traffic management system.

Because there are no existing services for low-level object-tracking within this environment, the goal of the project is to determine whether the radar technology is suitable for short-range, low-altitudes air traffic management. If the results are positive, this project will help to specify the most important requirements that products derived from this prototype would need to fulfill.