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Skylift submits this Experiment Proposal for a Small Unit Support Vehicle/Vessel to participate in the JIFX 16-3 Event being held at Camp Roberts during May 9-13, 2016.

Our sUAS prototype, currently in its second iteration, has a target takeoff weight under 55 lbs. and should be capable of lifting external loads over 200 lbs. We would like to test the viability of our platform as a multi-mission/multi-use support solution for logistics operations, able to accommodate a variety of payloads and configurations.

The overall focus of our vehicle is to rapidly increase first responder capability, minimizing the cost of current capabilities, and reducing the force structure associated with those capabilities. We believe that it can further new means in service areas with infrastructure voids and support collaborative relations with partner nations and other organizations.

For this experiment, we intend to use the facilities at the JIFX 16-3 Event to demonstrate the following key objectives:

- Autonomous operation from digital flight plan
- Manual control override
- Autonomous self-landing with autorotation
- Ability to transport loads over 200 lbs.
- Stability in adverse weather conditions
- Top speed testing with radar
- Flight endurance testing
- B-VLOS navigation
- Verify takeoff weight

We look forward to participating, collaborating and everyone's feedback.