

## RISK ASSESSMENT WORKSHEET

### PROJECT:

**TEST DESCRIPTION:** Natural Icing Tests

### PRINCIPAL RISKS:

- Loss of control.

### RISK ALLEVIATION STEPS:

1. Flaps will be maintained  $\leq 20^\circ$ .
2. Final approach speed TBD KIAS with  $20^\circ$  flaps during icing and post icing encounter.
3. No thunderstorms will be penetrated.
4. Mean effective drop diameter limit of 40 microns.
5. Minimum icing speed of TBD KIAS for holding and sustained operations in icing.
6. Boot failure procedures -  
Horizontal – Maintain  $0^\circ$  flaps, TBD KIAS approach speed  
Wing – Land with  $20^\circ$  flaps, TBD KIAS approach speed
7. Abort testing for further analyses if any unusual buffet, uncommanded pitch, roll or yaw, or control reversal is experienced.
8. Conduct weather radar ground check prior to each flight.
9. Perform pre-flight inspection of all ice protection systems.
10. Minimum engine power for boot operation will be TBD ft-lb.
11. Ice shape flight testing is a prerequisite and company pilot familiar with airplane icing characteristics must be on-board.
12. Stall approaches and flying qualities testing in VFR conditions only.

### RISK CATEGORY:

       MEDIUM

  X   HIGH

Prepared by: \_\_\_\_\_