Aircraft Ground Icing General Research Activities During the 2012-13 Winter

This report documents the general activities completed by APS related to aircraft ground deicing research in the winter of 2012-13. The activities documented in this report were carried out in addition to the main research projects completed in the winter of 2012-13, which are documented in separate reports. The fifteen activities described in this report are listed below.

1. Documentation and Collection of Ice Crystal Precipitation Intensity Data (Section 2);
2. Pre-Takeoff Contamination Inspection / Check (Section 3);
3. Holdover Times in Conditions Of Heavy Snow (Section 4);
4. Windshield Washer Fluid Deicing – Full Scale Testing (Section 5);
5. Ice Pellet and Snow Dispenser Calibration (Section 6);
6. Frost at LOUT (Section 7);
7. Holdover Time Guidelines Website (Section 8);
8. Development of Evaluation Tools For Electronic Holdover Time Applications (Section 9);
9. Tablet Application for End Condition Data Form (Section 10);
10. Upgrade to Existing Indoor Rate Station Software (Section 11);
11. Replacement of Test Site Trailer And Repair Of Facility (Section 12);
12. Support for the Development of Use of Ice Detection Cameras at End Of Runway (Section 13);
13. Update of ARP 5485 and ARP 5945 (Section 14);
14. Keyword Search for Historical Reports (Section 15); and
15. Test Procedures, Presentations, and Fluid Manufacturer Reports for 2012-13 (Section 16).