Aircraft Ground De/Anti-Icing Fluid Holdover Time Development Program for the 2014-15 Winter

Changes to the holdover time guidelines for the winter of 2015-16 include:

- Fluid-specific HOT guidelines were added for three new fluids: Kilfrost ABC-Ice Clear II (Type II), Newave Aerochemical FCY-2 Bio+ (Type II) and Deicing Solutions ECO-SHIELD (Type IV);
- Increases were made to snow holdover times for two fluids for which supplemental testing was conducted: LNT Solutions P250 (Type II) and LNT Solutions E450 (Type IV);
- Three fluids were removed from the guidelines as per the protocol for removal of obsolete data: Clariant Safewing MP II 1951 (Type II), ABAX AD-480 (Type IV) and Kilfrost ABC-S (Type IV);
- Six minor changes (increases and decreases of up to 5 minutes) were made to the Type II generic HOT guidelines as a result of the new and removed fluids;
- Significant changes (primarily increases) were made to the Type IV generic HOT guidelines as a result of the new and removed fluids;
- Fluid, application temperature, rotation speed-specific HOT guidelines were added for Type III fluids, specifically Clariant Safewing MP III 2031 ECO (applied heated) and AllClear AeroClear MAX (applied unheated); and
- The Type III generic HOT guidelines were removed due to the different application temperature requirements of the two Type III fluids.

It is recommended that any new Type I, Type II, Type III or Type IV fluids be evaluated over the entire range of conditions in the holdover time guidelines. It is also recommended that if a new Type III fluid is submitted for heated application testing, further research be conducted to evaluate endurance times of Type III fluids applied heated to composite surfaces. Finally, it is recommended that further research be completed to evaluate the current holdover times provided for Type II, III and IV fluids in snow at very cold temperatures.

Key Words
Anti-icing, deicing, deicing fluid, holdover times, precipitation, endurance times, Type I, Type II, Type III, Type IV, aircraft, ground, test, winter

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