The primary objective of the 2005-06 holdover time test program was to evaluate the performance of new deicing and anti-icing fluids over the entire range of conditions encompassed by the holdover time guidelines.

The objective was met by conducting endurance time tests. The procedure for these tests consisted of pouring fluids onto clean aluminum test surfaces inclined at 10°. The onset of failure was recorded as a function of time in natural snow and artificial conditions including simulated freezing fog, freezing drizzle, light freezing rain, and rain on a cold-soaked wing. APS conducted a total of 618 endurance time tests with seven fluids, including one non-glycol Type I fluid, three Type II fluids and three Type IV fluids.

Changes to the holdover time guidelines for the winter of 2006-07 include the introduction of fluid-specific tables for Clariant Safewing MP II Flight (Type II), Kilfrost ABC-TF2 (Type II), Clariant Safewing MP IV Launch (Type IV), Kilfrost ABC-S PLUS (Type IV) and Dow UCAR Endurance EG106 (Type IV). The introduction of the new fluids did not affect the Type II or Type IV generic holdover time tables. No changes were made to the Type I or Type III holdover time guidelines.

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 tables.