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15. Supplementary Notes (Funding programs, titles of related publications, etc.) <p>Several research reports for testing of de/anti-icing technologies were produced for previous winters on behalf of Transport Canada. These are available from the Transportation Development Centre (TDC). Nine reports (including this one) were produced as part of this winter's research program. Their subject matter is outlined in the preface. This project was co-sponsored by the Federal Aviation Administration.</p>					
16. Abstract <p>Forced air systems have been in development for more than five years. One major concern is that current holdover time values may not be valid when Type II or Type IV fluids are applied with forced air systems. Testing by FedEx in 2003-04 compared the viscosity of fluids applied with forced air to the viscosity of fluids applied with a conventional system. The tests showed that fluid viscosity decreased more with a forced air application than with a conventional application.</p> <p>Two changes were made to the Type II/IV procedure following the unsuccessful 2003-04 test session. First, the approval criterion was changed: the viscosity of fluid applied with the forced air system would be compared to the lowest on-wing viscosity instead of to the conventional application viscosity. Second, a requirement was added that pre-tests be conducted to fix the equipment setup prior to evaluation of the equipment with specific fluids.</p> <p>Using the new test procedure, FedEx conducted tests in January 2005 with four Type IV fluids and two forced air deicing trucks. One of the four tested fluids could be approved for use without restrictions on viscosity. Two fluids could be approved for use with forced air with limitations on delivered viscosities. One fluid could not be approved as the sample sent for testing did not conform to the test requirements.</p> <p>Following the test session, it was concluded that the new procedure was an improvement over the previous version of the procedure, and that the changes should remain in the procedure for future testing.</p>					
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