



# PRELIMINARY RESULTS OF MC-21-300 TESTS ON ENGINES PROTECTION AGAINST WATER PENETRATION SUMMED UP

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Irkut Corporation summarized the preliminary results of MC-21-300 aircraft ground testing, which confirmed the possibility of operating the aircraft in presence of water on runway. During the period from 16 to 22 July 2020, the MC-21-300 aircraft performed 29 runs and 3 taxiing on water at speeds from 10 to 150 knots (1 knots = 1.852 km/hour) at various configurations of mechanization and power plant modes, including the use of engines thrust reversal.

The tests were carried out on the "Ulyanovsk-Vostochny" airfield, where the "pool" of more than 70 m long and more than 20 m wide was mounted. Parameters of the "pool" provided a normalized water depth in accordance with Russian and international requirements, which are established for these types of tests.



**In the process of testing the possibility of safe movement on a wet runway in a wide range of speeds without any failure of marching and auxiliary power plants, as well as other systems and equipment of the aircraft were confirmed.**

In addition, the tests found that the MC-21-300 aircraft is steadily moving and retains control on the runway covered with water.



The course of testing was recorded by a complex of onboard measurements of the aircraft and a system of video cameras installed on the ground and on the aircraft.

The tests were conducted as part of the MC-21-300 aircraft certification program with the participation of representatives of authorized certification centers.



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