

## MAKING A SPLASH

The 747-8 Freighter kicks up spray as it powers through standing water to determine whether the water is ingested into the engines. The water spray test is just one of the many requirements on the road to certification. To accomplish this test, Boeing built a shallow, temporary pool in the middle of a runway and then filled it with water. Pilots maneuvered the big airplane down the runway and through the water several times, starting at 35 mph (56 kph) and then at higher speeds. Parts of the airplane, such as the engine cowling and leading edge of the wing, were painted with a pink dye, which comes off when sprayed with water. This tells engineers where the water is hitting the airplane as it passes through the trough. The water spray test took place at a remote airfield near Glasgow, Mont. PHOTO: BOEING

