



CANADA

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CANADA TAKES TO THE AIR

"Aviation may be the baby of our transportation system," Transport Minister Hees told the Fortieth Annual Convention of the Ontario-Quebec Lions Club on May 30, "but it is an infant whose growth is nothing short of phenomenal." Observing that Canadian aviation was just beginning "the second half century of its existence," Mr. Hees went on to discuss the character of the changes that were producing a revolution in this "exploding industry":

"...The experts charged with the job of providing air-traffic control, navigational aids, and runways and terminals ... are constantly faced with changing techniques, all for the express purpose of getting more people and goods from one point to another in less time.

"Today, all major aviation interests in the world are constantly seeking and developing new safety aids to flying. One of the most important of these aids is Precision Approach Radar, which enables a plane to land safely in bad weather.

"This year we plan to make the first installation of a series of Precision Approach Radars for our major airports. This equipment will make it possible for the captain of an airliner to place himself completely under the guidance of the radar-operator on the ground, who will in effect 'talk him down'. This particular aid-to-the-pilot is already used at many major military airports, and its adoption for major civil airports is growing throughout the world.

AUTOMATIC LANDING

"Another aid which we are watching closely is being developed in the U.S.A. and Great Britain. This is a fully-automatic landing system, which will carry out the actual landing of an aircraft without active participation by the pilot until the aircraft reaches the ground.

"Aircraft designers are now talking about supersonic commercial aircraft which will fly at 1,800 miles an hour, at a height of fourteen miles -- and which, needless to say, will bring a whole new set of operating problems. We must, as best we can, foresee all these problems and plan how to meet them. Closed-circuit television based on radar screens, electric computers, secondary radar for individual identification, and automatic signalling, are the tools we are now trying out as speed and traffic volume increase.

"Within the past ten years, the growth of air traffic in Canada has exceeded the most optimistic expectations. In that short period, domestic passenger traffic has sky-rocketed from one million to five million passengers a year.

"The requirements arising from this explosive growth in terms of airports, airways, and terminals, are tremendous. At the present time, we are pushing ahead rapidly with a long-range programme, which covers the ten-year period expiring in 1968. The total estimated expenditure amounts to no less than \$1 billion, based

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