

ELEVENTH AIR NAVIGATION CONFERENCE

Montreal, 22 September to 3 October 2003

Agenda Item 2 Safety and security in air traffic management : (ATM)

CAT-IIIB OPERATIONS IN THE INCHEON INTERNATIONAL AIRPORT, REPUBLIC OF KOREA

(Presented by the Republic of Korea)

SUMMARY

For safe flight operation during low visibility, the Republic of Korea has implemented CAT-IIIB operations and SMGCS plans at the Incheon International Airport since 4 September 2003.

1. INTRODUCTION

1.1 Incheon International Airport (one word "IIA") began operations in March 2001 with CAT-IIIA parallel runways in four directions. It has handled about 300 flights daily since its opening.

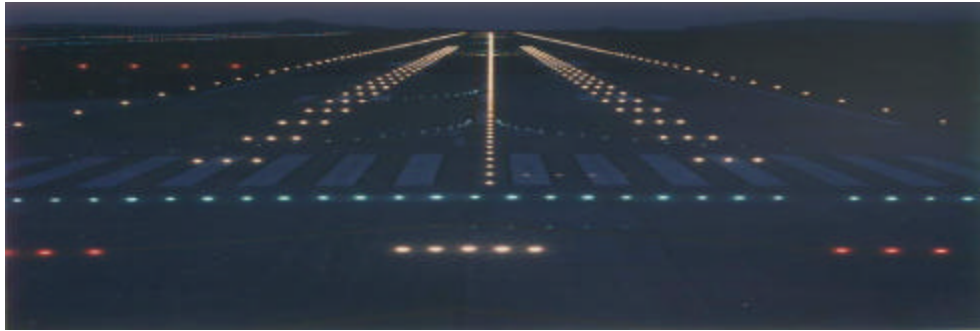
1.2 Since March 2003, IIA has experienced 50 days of low visibility operations down to 200 m of RVR and 20 days below the lowest operating minima.

2. CAT-IIIB OPERATION IN IIA

2.1 Current operating minima for ILS CAT-IIIA operation of IIA is RVR200 m for landing and take-off.

2.2 The new operating minima applied for ILS CAT-IIIB operation are: RVR100 m for landing and 175 m for take-off since 4 September 2003.

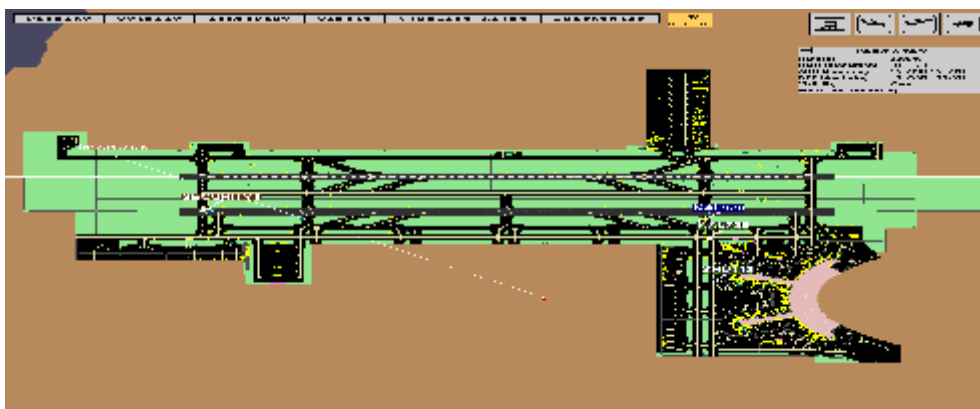
2.3 Runways 15R/33L and 15L/33R all served by CAT-III ILS: touchdown, midpoint, and roll-out RVR equipment, lighting, signage and appropriate instrument marking operations are available for landing operations when the reported visibility for those runways is below 350 m down to 100 m RVR.



2.4 Aircraft guidance is provided by the A-SMGCS with full controllable stopbars and centerline lights to/from their parking gates for departures/arrivals.



2.5 ASDE system, interoperable with ARTS and A-SMGCS is supporting ATC controllers with capabilities for aircraft identification, tagging and alerting on the ground at all times.



2.6 Follow-me services are available at any time at the movement area when requested by the pilot or initiated by ATC with the airport-owned vehicle identified by yellow flashing emergency lights.

2.7 Since implementation of CAT-IIIb, five commercial flights have landed safely under CAT-IIIb with a weather condition of RVR 100 m.

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