Chapter 2

NOISE PREFERENTIAL RUNWAYS AND ROUTES

2.1 NOISE PREFERENTIAL RUNWAYS

- 2.1.1 Preferred runway directions for take-off and landing, appropriate to the operation, are nominated for noise abatement purposes, the objective being to utilize whenever possible those runways that permit aeroplanes to avoid noise-sensitive areas during the initial departure and final approach phases of flight.
- 2.17 Runways should not normally be selected for pre-rential use for landing unless they are equipped with suitable glide path guidance, e.g. ILS, or visual approach slope indicator system for operations in visual meteorological conditions.
- 2.1.3 Noise abatement should not be the determining factor in runway nomination under the following circumstances:
 - a) if the runway surface conditions are adversely affected (e.g. snow, slush, ice or water, or by mud, rubber, oil or other substances);
 - b) for landing in conditions when the ceiling is lower than 150 m (500 ft) above aerodrome elevation, or for take-off and landing when the horizontal visibility is less than 1.9 km;
 - c) when the crosswind component, including gusts, exceeds 28 km/h (15 kt);
 - d) when the tailwind component, including gusts, exceeds 9 km/h (5 kt); and
 - e) when wind shear has been reported or forecast or when thunderstorms are expected to affect the approach or departure.

2.2 NOISE PREFERENTIAL ROUTES

- 2.2.1 Noise preferential routes are established to ensure that departing and arriving aeroplanes avoid overflying noise-sensitive areas in the vicinity of the aerodrome as far as practicable.
- 2.2.2 In establishing noise preferential routes:

- a) turns during take-off and climb should not be required unless:
 - the aeroplane has reached (and can maintain throughout the turn) a height of not less than 150 m (500 ft) above terrain and the highest obstacles under the flight path;

Note.— PANS-OPS, Volume II permits turns after take-off at 120 m (400 ft) and obstacle clearance of at least 90 m (300 ft) during the aeroplane's turn. These are minimum requirements for noise abatement purposes.

- the bank angle for turns after take-off is limited to 15° except where adequate provision is made for an acceleration phase permitting attainment of safe speeds for bank angles greater than 15°;
- b) no turns should be required coincident with a reduction of power associated with a noise abatement procedure; and
- sufficient navigational guidance should be provided to permit aeroplanes to adhere to the designated route.
- 2.2.3 In establishing noise preferential routes, the safety criteria of standard departure and standard arrival routes regarding obstacle clearance climb gradients and other factors should be taken into full consideration (see PANS-OPS, Volume II).
- 2.2.4 Where noise preferential routes are established, these routes and standard departure and arrival routes should be compatible (see Annex 11, Appendix 3).
- 2.2.5 An aeroplane should not be diverted from its assigned route unless:
 - a) in the case of a departing aeroplane it has attained the altitude or height which represents the upper limit for noise abatement procedures; or
 - b) it is necessary for the safety of the aeroplane (e.g. for avoidance of severe weather or to resolve a traffic conflict).

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No. 11