ADF/NDB

By: Anton Kleparek
Myles Peckman
Non-directional Beacon

- General Information
  - Frequencies
- Uses of the NDB
  - Airways
  - Fixes
  - NDB Approaches
  - Instrument Landing System
- Adverse affects
General Information

Antenna

Low or medium
Continuous
190 to 535 kHz
Tune/Ident
Morse Code
Uses of NDB

Airways and Fix
Uses of NDB

NDB Approaches

Instrument Landing System (ILS)
IAF-FAF
Locator, Outer Marker

MISSED APPROACH: Climbing right turn to 2000 direct RNB NDB and hold, continue climb-in-hold to 2000.
Adverse Affects

Night Effect
Terrain Effect
Electrical Effect
Shoreline Effect
Bank Effect
Automatic Direction Finder (ADF)

- ADF Indicators
  - Fixed Compass Card
  - Rotating Compass Card
  - Single-needle Radio Magnetic Indicator
  - Dual-needle Radio Magnetic Indicator
- Time/Distance to Station checks
- Intercepting a bearing
  - Homing
  - Tracking- Bracketing
ADF Indicators – Fixed and Rotating Compass Card

Fixed

MH + RB = MB

Rotating
ADF Indicators – Single or Dual needle RMI

Radio Magnetic Indicator

Single

Dual
Time/Distance to Station

Minutes to station (22) = \[\text{Time in seconds (220)}\] 
\[\text{Degrees of bearing change (10)}\]

TAS (110) \times \text{Min. Flown (3 2/3)} = \[\text{Nautical Miles to station (40)}\] 
\[\text{Degrees of bearing change (10)}\]
Intercepting a Bearing - Homing
Intercepting a Bearing

Tracking - Bracketing
Summary

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ADF
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Work Cited

