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# AIC

# MALAYSIA

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AIR TRAFFIC CONTROL CENTRE COMPLEX  
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MALAYSIA

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| <b>03 / 2004</b> |
| <b>15 APR</b>    |

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## ROUTE QUALIFICATION REQUIREMENTS

### 1. INTRODUCTION

- 1.1 This AIC provides policy and guidance regarding route qualification requirements to all Malaysian commercial operators. A certificate holder must obtain a route approval from the Department of Civil Aviation Malaysia in order to conduct a domestic and/or an international operations.
- 1.2 A flight is authorized to operate on a route or within an area covered in the Air Operator Certificate.
- 1.3 The aircraft's navigation equipment serviceability status is equal to or better than the minimum specified for the flight to or within the area.
- 1.4 A station inspection will be conducted prior to the approval for the new route if the destination airport is new or the type of aircraft to be used requires special equipment, ground support or special procedure.

### 2. ROUTE REQUIREMENTS

- 2.1 A certificate holder seeking a route approval must show its ability to conduct satisfactorily a schedule or ad-hoc operation by submitting a summary brief of the proposed operation.
- 2.2 The facilities and services required to support the operation for the route are available, serviceable and adequate for the proposed operation.
- 2.3 Therefore an actual flight may not be required before a proposed schedule or ad-hoc operation provided a satisfactory level of safety of the operation is assured. This shall be considered through the availability and adequacy of airports, en-route communication, navigation aids, aircraft and ground radio facilities, lightings, fuelling, maintenance and the ability of personnel.
- 2.4 However, a proving flight may be conducted simultaneously with the inaugural flight after an evaluation by the Department of Civil Aviation Malaysia.
- 2.5 The designated routes or airways including advisory routes shall take into consideration the followings:
  - a. Navigation specification
  - b. ETOPS or non ETOPS segment
  - c. Reduced Vertical Separation Minimum
  - d. Terrain clearance
  - e. Minimum en-route altitude
  - f. Air traffic density
  - g. Air traffic procedure
  - h. Oxygen requirement
  - i. Escape procedure

### **3. AIRPORT REQUIREMENTS**

- 3.1 A certificate holder shall ensure that the intended route for approval has sufficient airports that are properly equipped for the proposed operation.
- 3.2 A certificate holder has to show that it has a system for obtaining, maintaining and distributing to appropriate personnel current aeronautical data for each airport it uses to ensure a safe operation at that airport.

The aeronautical data must include the following:

- a. Airport
  - i. Facilities
  - ii. Public protection
  - iii. Navigation and communication aids
  - iv. Construction affecting takeoff, landing or ground operations
  - v. Air traffic facilities
- b. Runway, clearway and stopway
  - i. Dimension
  - ii. Surface
  - iii. Marking and lighting system
  - iv. Elevation and gradient
- c. Displaced threshold
  - i. Location
  - ii. Dimension
  - iii. Takeoff or landing or both
- d. Obstacle
  - i. Those affecting takeoff and/or landing performance
  - ii. Instrument flight procedure
  - iii. Departure procedure
  - iv. Approach procedure
  - v. Missed approach procedure
- e. Special information
  - i. Runway visual range if applicable
  - ii. Low visibility operation advisory if applicable
  - iii. Special operation procedures peculiar to the airport

### **4. COMMUNICATION FACILITY**

- 4.1 A certificate holder must show that a two way radio communication system or other means of communication is available and reliable under normal operating conditions over entire route between aircraft and air traffic control unit and appropriate dispatch center.

### **5. WEATHER REPORTING FACILITY**

- 5.1 A certificate holder must show that adequate weather reporting services are available along each route to ensure weather reports and forecast necessary for operation.

5.2 Each certificate holder shall establish a system and procedure to update weather report and forecast to ensure current and valid reporting for adverse weather phenomena such as clear air turbulence and thunderstorm that may affect safety of the flight on the route to be flown and at the airport to be used.

## **6. NAVIGATION FACILITY**

6.1 A certificate holder must show that for each route that non visual ground aids are available within the degree of accuracy required for Air Traffic Control or,

6.2 If the route is specified under special navigation operation, the relevant navigation requirement must be met such as required navigation performance, minimum navigation performance specification or random route utilizing latitude and longitude waypoint.

6.3 Non visual ground aid is not required for day VFR and night VFR provided it is shown that it can be conducted safely by pilotage due characteristic of the terrain or reliably lighted landmark for safe operation.

## **7. MAINTENANCE FACILITY**

7.1 A certificate holder must show that it has competent personnel and adequate facility and equipment available at the intended airport for proper servicing and maintenance of the aircraft and auxiliary items.

## **8. DISPATCH CENTER**

8.1 A certificate holder must show that it has adequate dispatch center with qualified dispatch personnel for the operation to ensure proper operational control for each flight.

## **9. FIRE FIGHTING AND RESCUE SERVICES**

9.1 A certificate holder must ensure that relevant AES Category must be met for applicable aircraft at the airport of operation according to ICAO Annex 14. However certain countries adopted its own requirement especially for ETOPS operation agreeable to ICAO. Therefore a certificate holder may exercise its requirement whenever applicable if operating into their FIR.

## **10. AERODROME**

10.1 Aerodromes are classified according to certain criteria to determine its category.

### **Category A**

These are simple and straightforward aerodromes that have no factors requiring special procedure to enhance the safety aspect of operation. The safety level of operations can be assured and ascertained by the crew through the study of relevant Jeppesen en-route and approach charts.

The aerodrome is not closely surrounded by mountainous terrain or obstacle.

### **Category B**

These are aerodromes that do not satisfy the conditions of the Category A. It requires a written Aerodrome Brief disseminated to crew for proper study and understanding to ensure safe level of operations.

## Category C

These aerodromes are subject to special procedures whereby prior knowledge or experience is required. It requires a written Aerodrome Brief and prior visit as an operating crew or as an observer and/or a simulator exercise. The special procedures must be detailed in the Aerodrome Brief such as follows:

- a. Complicated ATC procedures with high density traffic
- b. Difficult or non-standard departure and/or approach pattern
- c. Hazardous local weather condition
- d. Hazardous local terrain surrounding the area
- e. Other peculiar subject that affect normal performance on ground, departure and/or arrival

### **11. THE CREW**

- 11.1 A certificate holder shall establish a policy and procedure to ensure that the crews are adequately trained and qualified with currency to operate into the specified aerodrome.
- 11.2 The crews are current, qualified and certificated if required to operate to the route or into the area.
- 11.3 If it is a training flight then the trainee must be current and has successfully completed the route brief and assimilated himself with the area of operation.
- 11.4 A certificate holder shall keep and update the records of qualification for its crew.

### **12. APPLICATION PROCESS**

- 12.1 A certificate holder must submit the application for the approval at least 30 days prior to the intended date of operation.
- 12.2 A station inspection if necessary will be conducted at least two weeks prior to the intended date of operation.
- 12.3 A certificate holder must furnish with the submission for approval details of the intended operation accordingly following the format requirements in clauses two to eleven.
- 12.4 The DCA will notify the certificate holder the status and result of the application through a letter of notification.
- 12.5 All enquiries shall be made to the Director of Flight Operations, Department of Civil Aviation, Level 2, Block D5, Parcel D, Pusat Pentadbiran Kerajaan Persekutuan, 62502 PUTRAJAYA.

**DATO' IR KOK SOO CHON**  
**Director General**  
**Department of Civil Aviation**  
**Malaysia**