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AIRAC
AIP SUPPLEMENT

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IMPLEMENTATION OF PRE-DEPARTURE CLEARANCE (PDC) OVER DATA LINK

With effect from 25 August 2011, the Pre-Departure Clearance (PDC) over Data Link service will be implemented as follows :

1. Introduction

- 1.1 Bangkok Area Control Centre (BACC) intends to implement a Pre-Departure Clearance (PDC) over Data Link service at Suvarnabhumi Airport. This procedure provides advance notification to operators for their necessary planning and preparation.
- 1.2 Implementation of the PDC over Data Link service is effective **from 0100 UTC to 1700 UTC daily.**
- 1.3 The PDC service aims to further improve the accuracy and reliability in PDC operations, reduce the workload of pilots and ATC and reduce congestion on the Clearance Delivery Control radio frequency.
- 1.4 This AIRAC AIP Supplement supersedes AIC 1/11 17 January 2011.

2. Data Link Service

- 2.1 The PDC data link procedure will be applied to flights departing from Suvarnabhumi Airport on the following ATS Routes:
 - a. Southbound: A464 / M751 / W19 / G458
 - b. Eastbound: A1 / A202 / W1
 - c. Eastbound: G474 / R468 / N891 RYN M644 OR N891 RYN R334 **EXCEPT ROUTING N891 RYN N891 BENS**A
 - d. Northbound: A464 / R474 / W9 / W21 / B346
- 2.2 The PDC data link will be applied under the following principles:
 - a. Under normal circumstances, initial level of FL160 shall be assigned
 - b. First airborne first flight level selection principle
 - c. No on-ground flight level negotiation and reservations
 - d. Final cruising level shall be assigned by Bangkok Control after airborne
 - e. Flight requesting level lower than FL160 shall be cleared accordingly

2.3 With PDC operations, request for departure clearance will be initiated by the pilot. After satisfactory verification of the request, the BACC PDC system will respond with the departure clearance message.

2.4 All PDC messages (such as departure request, departure clearance and read back) between aircraft and PDC system will be exchanged in accordance with the Airlines Electronic Engineering Committee (AEEC) Specification 623 (AEEC623: Character-Oriented Air Traffic Service (ATS) Applications) for departure clearance and transmitted via data link service providers, between the aircraft and the PDC system directly.

3. Operators' Equipment Requirements

Aircraft equipped with Aircraft Communications Addressing and Reporting System (ACARS) equipment and compliant with AEEC623 may utilize the PDC over data link.

4. PDC Pilots' Procedures

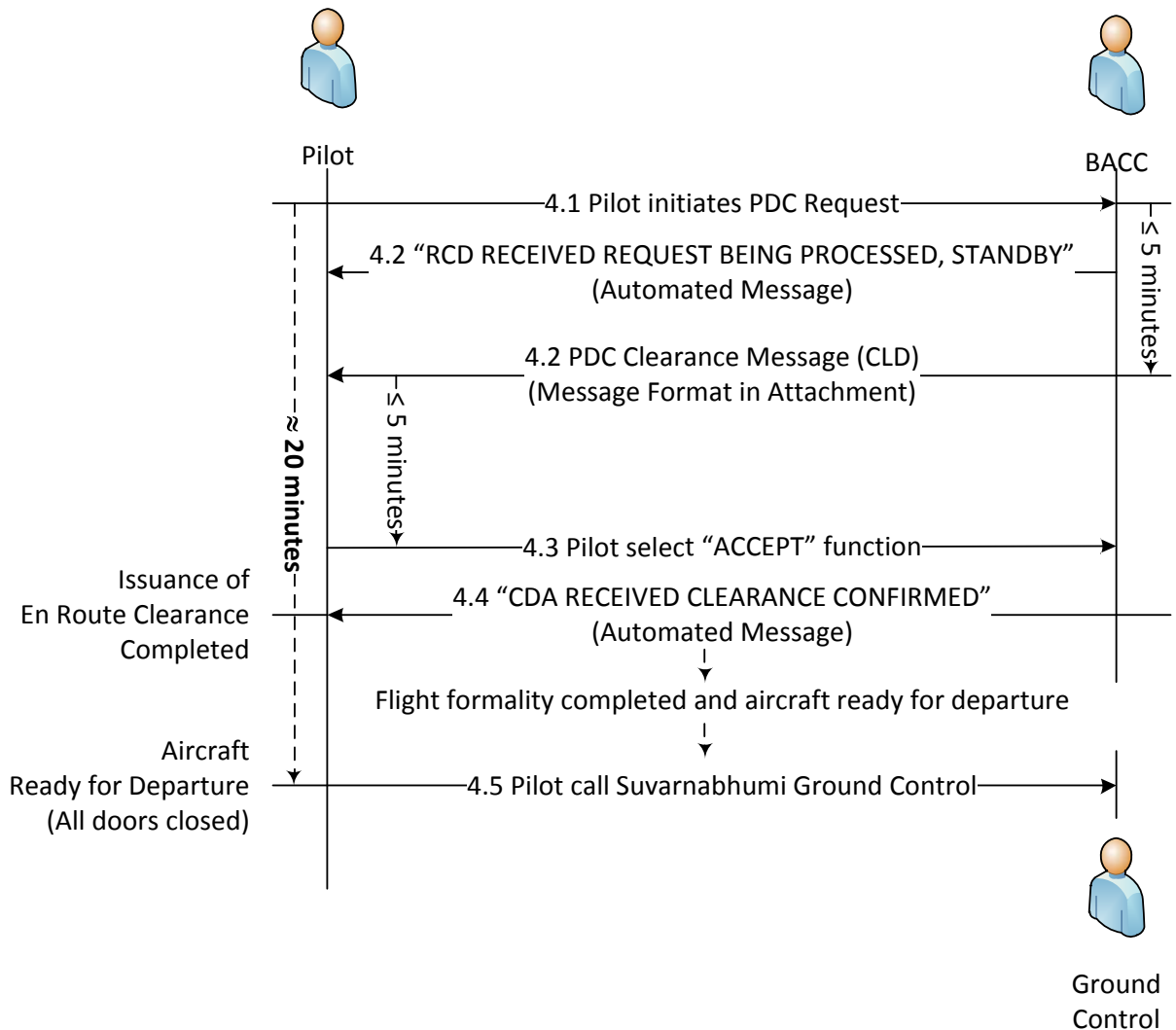


Figure 1: Visualization of PDC Pilots' Procedures

- 4.1 Pilot should initiate a PDC request within **20 minutes** prior to aircraft being ready for departure (all doors closed) using appropriate ICAO call sign and departure airport (“VTBS”).
- 4.2 Pilot will receive a message (“RCD RECEIVED, REQUEST BEING PROCESSED, STANDBY”) to inform that PDC uplink message (CLD) will be delivered shortly. Sample CLD message format is provided in Attachment.
- 4.3 **Within 5 minutes after** receiving the PDC uplink message (CLD), pilot shall select the “ACCEPT” function on the flight deck to acknowledge the clearance over data link.
- 4.4 Upon reception of clearance acceptance, pilot will receive a confirmation message (“CDA RECEIVED CLEARANCE CONFIRMED”) completing en route clearance, **waiving the requirement** in AIP Thailand VTBS AD 2-25 para. 4.2.1 that “the aircraft must be pushed back within 5 minutes”.
- 4.5 When flight formalities have been completed and aircraft is ready for departure (all doors are closed), pilot shall call the relevant Ground Control frequency for push back and start up.

5. Contingency Procedure

- 5.1 **If there is any problem with the data link exchanges**, pilot shall request the clearance via voice using the following frequencies:

| Frequency | Direction | ATS Route |
|-----------|------------|-------------------------------|
| 120.8 MHz | Southbound | A464 / M751 / W19 / G458 |
| 133.8 MHz | Eastbound | A1 / A202 / W1 |
| 135.8 MHz | Eastbound | G474 / R468 / N891 |
| 128.7 MHz | Northbound | A464 / R474 / W9 / W21 / B346 |

- 5.2 Further information and details of the PDC over data link service may also be obtained from this address:

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 Director, Network Operations Department
 Aeronautical Radio of Thailand Ltd.
 102 Soi Ngamduplee
 Tungmahamek, Sathorn
 Bangkok 10120 THAILAND
 Office: +66 2 285 9148
 Mobile: +66 8 6099 5172
 Fax: +66 2 285 9636
 E-Mail: udomsak.ch@aerothai.co.th

Table 1 – PDC Message Format

| Line Number | Message Format |
|-------------|---|
| 1 | "PDC", ClearanceNumber |
| 2 | FlightID "CLRDR TO" DestinationAirport "OFF" Runway "VIA" SID Transition "TRANSITION" Route FlightLevel |
| 3 | "SQUAWK" SsrCode |

Notes:

1. *Fields in Bold will be generated by the PDC system or manually input by ATC controller.*
2. *Each line is ended by CR LF ASCII characters.*

Figure 1 – Sample PDC MessagePDC **001****THA281** CLRDR TO **VTSM** OFF **19L** VIA **SEESA1C** **REGOS** TRANSITION **W32** **FL160**SQUAWK **7211**
