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**AIC
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**PENANG INTERNATIONAL AIRPORT (WMKP)
UPGRADING AND EXPANSION OF PENANG INTERNATIONAL AIRPORT,
AIRSIDE FACILITIES - PAVEMENT WORKS AND OTHER ASSOCIATED WORKS.
WORK SCHEDULE AND MOVEMENT AREAS RESTRICTIONS**

1 INTRODUCTION

- 1.1 The Penang International Airport is currently undergoing an upgrade program. This involves the expansion of the main apron, rehabilitation of the existing apron taxiway, introduction of a new helicopter apron, and introduction of a new apron taxiway L.
- 1.2 The working areas for the rehabilitation exercise are detailed in Attachment '1' of this AIC.

2 PURPOSE

- 2.1 This AIC informs the aviation industry about the schedule and scope of construction activities on the aircraft movement areas at Penang International Airport. These activities will result in temporary changes and restrictions to the parking apron and taxiways, including partial closures of taxiways and aprons.
- 2.2 The construction works are estimated to take forty (40) months to complete.

3 WORK PHASES AND TEMPORARY CLOSURE OF MOVEMENT AREAS

- 3.1 The tentative construction activities are divided into eleven (11) phases, outlined in Table 3.1. For detailed information on each phase, please refer to Appendices 1 to 11 of this AIC. Please note that the dates and durations provided in Table 3.1 are estimates. Exact dates and times will be communicated through NOTAMs, with reference to this AIC.

Phases	Location	Duration	Activity
Phase 1	Bay A8, A9, Taxiway E.	120 days	1. Closure of existing Bay A8 and A9. 2. Closure of Taxiway E. 3. Closure of Existing Helicopter Apron. 4. Opening Temporary Helicopter Bay at Bay B4.
Phase 2	Bay B9, Existing Helicopter Apron, Bay B11A, B11B, B11C, B11D.	120 days	1. Closure of existing Bay A9 2. Closure of Taxiway H 3. Reopening of Taxiway E 4. Opening Of New Bay 1, 1R and 2. 5. Construction of new Apron near Taxiway G. 6. Realignment of Apron Taxilane Centreline from New Bay to Existing Bay

Table 3.1			
Phases	Location	Duration	Activity
Phase 3	Taxiway H, Taxiway G, Existing Bay B9, Existing Helicopter Apron.	120 days	<ol style="list-style-type: none"> 1. Closure of Taxiway H. 2. Closure of Existing GA Apron. 3. Closure of Taxiway L. 4. Closure of Bay B2,B4,B6. 5. Construction Of New Apron near Existing Helicopter Apron. 6. Introduction of ATR 72 temporary Aircraft Parking. 7. Introduce Temporary Helicopter Bay at existing bay 9.
Phase 4	Existing Helicopter Apron, Taxiway F,	120 days	<ol style="list-style-type: none"> 1. Construction Of New Apron (Near Existing Helicopter Apron). 2. Construction of New Apron (Near Existing CAAM Control Tower). 3. Construction of New Apron (Near Taxiway F). 4. Reopening of Taxiway H. 5. Opening of New Helicopter Apron. 6. Construction of Taxiway Shoulder F.
Phase 5	New Apron Area (Between Taxiway F and G). New Apron Area (Near Existing Helicopter Apron).	120 days	<ol style="list-style-type: none"> 1. Completion New Apron (between Taxiway F and G). 2. Completion of New Apron area (Existing Helicopter Apron).
Phase 6	Bay A5, Bay A4L, A4.	120 days	<ol style="list-style-type: none"> 1. Closure of Existing Bay A6R, A5, A4L, A4. 2. Opening of New Bay 21L, 21, 21R, 22, 22R, 23, 24 and 25. 3. Opening of New Taxiway L. 4. Rehabilitation Works at Existing Apron Taxiway.
Phase 7	Bay A4R and A3.	60 days	<ol style="list-style-type: none"> 1. Closure of Bay A4R and A3. 2. Opening of New Aircraft Bay No 6, 7 and 7R. 3. Opening of New Bay A1 and A2. 4. Rehabilitation Works at Existing Apron Taxiway.
Phase 7A	Bay A2, A1L, A1, A1R.	60 days	<ol style="list-style-type: none"> 1. Closure of Bay A2, A1L, A1, A1R. 2. Opening of New Bay 8 and 9. 3. Opening of New Bay A3, and A4. 4. Rehabilitation Works at Existing Apron Taxiway.
Phase 8	Bay B1, B3, B5 and B7, Taxiway G.	120 days	<ol style="list-style-type: none"> 1. Closure of Taxiway G. 2. Closure of Bay B1,B3,B5 and B7. 3. Temporary ATR 72 Bay to be removed. 4. Opening of New Aircraft Bay 10, 11, 11R, and 12. 5. Opening Of New Bay A5 and A6. 6. Rehabilitation Works at Existing Apron Taxiway.

Table 3.1			
Phases	Location	Duration	Activity
Phase 9	Bay A7, A6L, A6, A6R.	120 days	<ol style="list-style-type: none"> 1. Closure of Taxiway F. 2. Closure of Bay A7, A6L, A6, A6R. 3. Opening of New Aircraft Bay 13, 14, 15, 16, 17, 17R, 18, 19, 20. 4. Rehabilitation Works at Existing Apron Taxiway.
Phase 10	Main Apron Taxiway.	120 days	<ol style="list-style-type: none"> 1. Realignment of Apron Taxiway Centreline - All New Aircraft Bay leadline to be realign to New Apron Taxiway Centreline. 2. Opening of New Bay 3L, 3, 3R, 4, 4R and 5. 3. Reopening of Taxiway F.

4 CONSTRUCTION WORKING HOURS FOR RUNWAY, TAXIWAYS AND APRON TAXIWAYS

• PHASE 1: APRON TAXIWAY AT BAY A9 –A8 (WIDE-BODY)

- 4.1 Construction works on the apron taxiway will be carried out in stages to minimize operational disruptions. At any given time, a maximum of 1 (one) aircraft bays will be unavailable.
- 4.2 Construction works will be conducted 24 hours a day within the closed areas.
- 4.3 Construction works on Taxiway E shoulders outside hoarding area and apron markings will be conducted during non-operational hours at the airport, 1800 - 2130 UTC.
- 4.4 Temporary helicopter bays on Bay B4 will replace the existing bay, which will be closed starting from Phase 1.

• PHASE 2 - PHASE 6: APRON EXPANSION

- 4.5 Construction on Existing Bay B9 and Taxiway H will commence only after the completion of all construction work on the wide-body apron-taxiway areas from Bay A9 to Bay A8. These areas will be closed during the construction period.
- 4.6 The new apron taxiway centerline from New Bay 1, 1R, and 2 will be temporarily re-aligned with the existing apron taxiway centerline.
- 4.7 Construction works will be carried out 24 hours a day in the closed Apron Expansion area.
- 4.8 Construction works for Taxiway H shoulder outside construction hoarding and apron marking will be carried out during the airport's non-operational hours, 1800 - 2130 UTC
- 4.9 The closure of Taxiway H will occur exclusively, beginning at Phase 2 and concluding at the end of Phase 3.
- 4.10 Three temporary bays are provided to replace existing bays B2, B4, and B6, which will be closed starting from Phase 3.
- 4.11 The entire apron expansion works will be completed by the end of Phase 5.

• PHASE 7 - PHASE 9: APRON TAXIWAY REHABILITATION WORKS

- 4.12 Taxiway rehabilitation works will commence from existing Bay A5 to Bay B7. In Phase 9, rehabilitation works will start from Bay A7 to Bay A6R.
- 4.13 The taxiway closure will occur in phases, with the closure of Taxiway G in Phase 8 and the closure

of Taxiway F in Phase 9.

- 4.14 Construction works for Taxiway G shoulder outside construction hoarding will be carried out during the airport's non-operational hours, 1800 - 2130 UTC.
- 4.15 Construction works for Taxiway F shoulder outside construction hoarding will be carried out during the airport's non-operational hours, 1800 - 2130 UTC.
- 4.16 Apron marking will be carried out during the airport's non-operational hours, 1800 - 2130 UTC.

• **PHASE 10: REALIGNMENT APRON TAXIWAY**

- 4.17 All bay lead lines will be connected to the new apron taxiway centerline.
- 4.18 The centerline of the apron taxiway leading to all new aircraft bays will be realigned to match the new apron taxiway centerline.
- 4.19 Apron marking works will be carried out during the airport's non-operational hours 1800 - 2130 UTC.

5 MOVEMENT AREAS RESTRICTIONS

- 5.1 The restricted movement areas and available movement areas during each work phase of the construction activity are detailed in Attachment '2' of this Supplement.

6 REGULATIONS ON MOVEMENT AREAS

- 6.1 Aircraft movement will not be permitted in closed portions of the apron taxiway, parking bays, and taxiways.
- 6.2 The routes to be used by aircraft when taxiing entering or exiting from Apron will be specified by Air Traffic Control. The issuance by Air Traffic Control of a taxi route to an aircraft does not relieve the pilot-in-command of the responsibility to maintain separation with other aircraft on the movement area or to comply with Air Traffic Control directions intended to regulate aircraft movement.

7 PRECAUTIONS

- 7.1 During the construction period, pilots are advised to be cautious of open excavation, workers, construction materials, and equipment, especially when taxiing on the Apron Taxiway near cordoned or barricaded areas where work is ongoing.

8 IMPLEMENTATION

- 8.1 This AIC and relevant charts will be applicable during the whole of the rehabilitation.

9 CANCELLATION

- 9.1 This AIC will remain current until the information is published in AIP Malaysia.
- 9.2 Any updates, changes and cancellation of this AIC will be notified by NOTAM.

- END -

ATTACHMENT 2.0					
Works Phase	Activity	Availability			
		Wide Body Bay	Narrow Body Bay	MARS	Runaway / Taxiways
PHASE 1	<ul style="list-style-type: none"> • Closure of Bay A8, and A9. • Closure Of Taxiway E • Closure of Helicopter Apron. • Opening Temporary Helicopter Bay at Bay B4. 	Five Wide Body Stand. Existing Bay A7, A6, A4, A1, B9.	Thirteen Narrow Body Stand. Existing Bay A6R, A6L, A5, A4R, A4L, A3, A2, A1R, A1L, B1, B3, B5, B7	A6, A4, A1	<ul style="list-style-type: none"> • Wide and Narrow Body Entrance to parking apron via Taxiway F, G and G. • Taxiway E not available.
PHASE 2	<ul style="list-style-type: none"> • Opening of New Bay 1, 1R and 2, • Reopening of Taxiway E. • Closure of Taxiway H. • Closure of Bay B9 	Seven Wide Body Stand. Existing Bay A7, A6, A4, A1. New Bay 1, 1R, 2.	Thirteen Narrow Body Stand. Existing Bay A6R, A6L, A5, A4R, A4L, A3, A2, A1R, A1L, B1, B3, B5, B7	A6, A4, A1	<ul style="list-style-type: none"> • Wide and Narrow Body Entrance to parking apron via Taxiway E, F and G. • Taxiway H not available.
PHASE 3	<ul style="list-style-type: none"> • Closure of Bay B2, B4, B6. • Closure Of Taxiway H. • Closure Of Taxiway L. • Introduce Temporary Bay (ATR72)-3 Nos to replace Bay B2, B4, B6. • Introduce Temporary Helicopter Bay at existing bay 9. 	Seven Wide Body Stand. Existing Bay A7, A6, A4, A1. New Bay 1, 1R, 2.	Thirteen Narrow Body Stand. Existing Bay A6R, A6L, A5, A4R, A4L, A3, A2, A1R, A1L, B1, B3, B5, B7.	A6, A4, A1	<ul style="list-style-type: none"> • Wide and Narrow Body Entrance to parking apron via Taxiway E, F and G. • Taxiway H not available.
PHASE 4	<ul style="list-style-type: none"> • Reopening of Taxiway H. • Opening of New Helicopter Apron 	Seven Wide Body Stand. Existing Bay. A7, A6, A4, A1. New bay 1, 1R, 2.	Thirteen Narrow Body Stand. Existing Bay A6R, A6L, A5, A4R, A4L, A3, A2, A1R, A1L, B1, B3, B5, B7.	A6, A4, A1	<ul style="list-style-type: none"> • Wide and Narrow Body Entrance to parking apron via Taxiway E, F, G and H.
PHASE 5		Seven Wide Body Stand. A7, A6, A4, A1. New Bay 1, 1R, 2.	Thirteen Narrow Body Stand. Existing Bay A6R, A6L, A5, A4R, A4L, A3, A2, A1R, A1L, B1, B3, B5, B7.	A6, A4, A1	<ul style="list-style-type: none"> • Wide and Narrow Body Entrance to parking apron via Taxiway E, F, G and H

ATTACHMENT 2.0					
Works Phase	Activity	Availability			
		Wide Body Bay	Narrow Body Bay	MARS	Runaway / Taxiways
PHASE 6	<ul style="list-style-type: none"> Opening of New Bay 21, 22, 23, 24, 25. Opening of new Apron taxilane L. Closure of Bay A5, A4L. 	Seven Wide Body Stand. Existing Bay A7, A6, A4, A1. New Bay 1, 1R, 2.	Sixteen Narrow Body Stand. Existing Bay A6R, A6L, A4R, A3, A2, A1R, A1L, B1, B3, B5, B7, New Bay 21, 22, 23, 24, 25.	A6, A4, A1	<ul style="list-style-type: none"> Wide and Narrow Body Entrance to parking apron via Taxiway E, F, G and H.
PHASE 7	<ul style="list-style-type: none"> Closure of Bay A4R, A3. Opening Bay 6, 7, 7R, A1, A2. 	Six Wide Body Stand. Existing Bay A6, A1. New Bay 1, 1R, 2, 7R.	Eighteen Narrow Body Stand. Existing Bay A6R, A6L, A2, A1R, A1L, B1, B3, B5, B7. New Bay 6, 7, 21, 22, 23, 24, 25. A1, A2.	A6, 7, A1	<ul style="list-style-type: none"> Wide and Narrow Body Entrance to parking apron via Taxiway E, F, G and H.
PHASE 7A	<ul style="list-style-type: none"> Closure of Bay A2, A1L, A1R, A1. Opening Bay 8, 9, A3, A4. 	Six Wide Body Stand. Existing Bay A7, A6. New Bay 1, 1R, 2, 7R.	Nineteen Narrow Body Stand. Existing Bay. A6R, A6L, B1, B3, B5, B7. New Bay 6, 7, 8, 9, 21, 22, 23, 24, 25. A1, A2, A3, A4.	A6, 7	<ul style="list-style-type: none"> Wide and Narrow Body Entrance to parking apron via Taxiway E, F, G and H.
PHASE 8	<ul style="list-style-type: none"> Closure of Bay B1, B3, B5, B7 Opening of New bay 10, 11, 11R, 12. Closure of Taxiway G. 	Seven Wide Body Stand. Existing Bay A7, A6. New bay 1, 1R, 2, 7R, 11R.	Twenty Narrow Body Stand. Existing Bay A6R, A6L. New Bay 6, 7, 8, 9, 10, 11, 12, 21, 22, 23, 24, 25. A1, A2, A3, A4.	A6, A7, 7, 11	<ul style="list-style-type: none"> Wide and Narrow Body Entrance to parking apron via Taxiway E, F and H. Taxiway G not available.
PHASE 9	<ul style="list-style-type: none"> Closure Of Taxiway F. Closure of Bay A7, A6L, A6, A6R. Opening of New Bay 13, 14, 15, 15R, 16, 17, 17R, 18, 19, 20. 	Seven Wide Body Stand. New Bay 1, 1R, 2, 7R, 11R, 15R, 17R.	Twenty Six Narrow Body Stand. New Bay. 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25. A1, A2, A3, A4, A5, A6.	7, 11, 15, 17	<ul style="list-style-type: none"> Wide and Narrow Body Entrance to parking apron via Taxiway E, G and H. Taxiway F not available.

ATTACHMENT 2.0					
Works Phase	Activity	Availability			
		Wide Body Bay	Narrow Body Bay	MARS	Runaway / Taxiways
PHASE 10	<ul style="list-style-type: none"> • Reopening of Taxiway F. • Opening of New Bay • 3L, 3, 3R, 4, 4R, and 5 	Nine Wide Body Stand. New Bay 1, 1R, 2, 3, 4R, 7R, 11R, 15R, 17R	Thirty Narrow Body Stand New Bay. 3L, 3R, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25. A1, A2, A3, A4, A5, A6.	4, 7, 11, 15, 17	<ul style="list-style-type: none"> • Wide and Narrow Body Entrance to parking apron via Taxiway E, F, G and H.