AIC MALAYSIA

PHONE : 6-03-8871 4000
TELEX : PENAWA MA 30128
FAX : 6-03-8881 0530
AFTN : WMKKYAYS
COMM : AIRCIVIL
KUALA LUMPUR

AERONAUTICAL INFORMATION SERVICES
DEPARTMENT OF CIVIL AVIATION
LEVEL 1-4, PODIUM BLOCK,
NO. 27, PERSIARAN PERDANA,
PRECINCT 4,
62618 PUTRAJAYA
MALAYSIA

05 / 2014
25 SEP

KUALA LUMPUR FLIGHT INFORMATION REGION

SITE PREPARATION OF THE DESIGN, MANUFACTURE, SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING FOUR (4) INSTRUMENT LANDING SYSTEM (ILS) CATEGORY II FOR RUNWAY 14 LEFT/32 RIGHT AND 14 RIGHT/32 LEFT AT KL INTERNATIONAL AIRPORT

1. PURPOSE

1.1 The purpose of this AIC is to notify the aviation industry on the scope of works to be carried out for this project.

2. WORK AND WORK AREAS.

2.1 The works involved are:

i. Site clearing
ii. Back fill
iii. Earth cutting
iv. Excavation of land
v. Piling
vi. Construction of new ILS foundations and masts
vii. Construction of new ILS shelters
viii. Removal of the existing ILS masts and facilities
ix. Raising of facilities foundation
x. Raising of manholes
xi. Removal of the existing ILS shelters

2.2 The activities at the affected work areas (**Appendix 1**) for site preparation of the new ILS for Runway 14 Left/32 Right and Runway 14 Right/32 Left are tabled in **Table A**.

3. GENERAL REQUIREMENTS

3.1 As the works are in proximity to the runways;

i. All machinery involved shall comply with *Visual Aids For Denoting Obstacle* as required by *ICAO Annex 14 Chapter 6*

ii. Upon confirmation by ATC of bad weather all works shall be stopped. Machinery and personnel will be demobilized.

3.2 The maximum height for the tallest Piling Hydraulic Rig machinery is 20M. It will be indicated at site with red and white chequered flag and will be lighted with a steady red light.

3.3 The Piling Hydraulic Rig will be positioned into the vicinity of the approach lights but not less than 240M from the threshold.

3.4 Once piling works are completed, the reinforcement, concreting, and the installation of the new shelters and antenna works will commence.

4. SCHEDULE OF WORKS

4.1 Works at the areas for the new ILS antenna and shelters are scheduled to take place from the month of October 2014. Works at the converted airside area are expected to be completed by December 2015. Listed below are the activities at each work area:

Table A

Area A
ACTIVITIES
Preparation of Radio Altimeter Operating Area (RAOA) work including dismantling of localizer and approach lights.
Site preparation for new localizer shelter
Site preparation for new localizer antenna foundation
Mobilization and installation of new localizer shelter
Installation of a new localizer antenna
Localizer and glide path flight calibration
Flight calibration of approach light
Commissioning

Area B
ACTIVITIES
Site preparation for new glide path shelters
Site preparation for new glide path antenna foundation
Mobilization and installation of new glide path shelters
Installation of a new glide path antenna
Localizer and glide path flight calibration
Commissioning

Area C
ACTIVITIES
Site preparation for new glide path shelters
Site preparation for new glide path antenna foundation
Mobilization and installation of new glide path shelters
Installation of a new glide path antenna
Localizer and glide path flight calibration
Commissioning

Area D
ACTIVITIES
Site preparation for new localizer shelter
Site preparation for new localizer antenna foundation
Mobilization and installation of new localizer shelter
Installation of a new localizer antenna
Localizer and glide path flight calibration
Flight calibration of approach light
Commissioning

Area E
ACTIVITIES
Preparation of Radio Altimeter Operating Area (RAOA) work including dismantling of localizer and approach lights.
Site preparation for new localizer shelter
Site preparation for new localizer antenna foundation
Mobilization and installation of new localizer shelter
Installation of a new localizer antenna
Localizer and glide path flight calibration
Flight calibration of approach light
Commissioning

Area F
ACTIVITIES
Site preparation for new glide path shelters
Site preparation for new glide path antenna foundation
Mobilization and installation of new glide path shelters
Installation of a new glide path antenna
Localizer and glide path flight calibration
Commissioning

Area G
ACTIVITIES
Site preparation for new glide path shelters
Site preparation for new glide path antenna foundation
Mobilization and installation of new glide path shelters
Installation of a new glide path antenna
Localizer and glide path flight calibration
Commissioning

Area H
ACTIVITIES
Site preparation for new localizer shelter
Site preparation for new localizer antenna foundation
Mobilization and installation of new localizer shelter
Installation of a new localizer antenna
Localizer and glide path flight calibration
Flight calibration of approach light
Commissioning

4.2 When RAOA works are in progress for ILS Runway 14 Left /Runway 14 Right, significant portions of the approach lighting system of Runway 14 Left /14 Right will be withdrawn. These RAOA works will require the presence of workmen and machinery at the approach area (Refer Appendix A). During these periods, approach and landing on the affected runway will not be available as follows:

i. Runway 14 Left: During the months of October 2014 to January 2015.

ii. Runway 14 Right: During the months of January 2015 to May 2015.

4.3 The above RAOA works will require current ILS Runway 32 Right/32 Left equipment to be decommissioned and the new ILS Runway 32 Right/32 Left equipment to be commissioned as follows:

Runway	Decommission	Commission
ILS 32 Right	October 2014	April 2015
ILS 32 Left	May 2015	November 2015

4.4 Current ILS Runway 14 Left will be withdrawn for a one week transition period to allow the newly installed Runway 14 Left ILS equipment to be commissioned, during the month of April 2015.

4.5 Current ILS Runway 14 Right will be withdrawn for a one week transition period to allow the newly installed Runway 14 Right ILS equipment to be commissioned, during the month of April 2015.

5. INSTRUMENT APPROACH PROCEDURES

5.1 The ILS replacement works shall require alternative approaches to the affected runways. Hence, during the transition periods when the current ILS equipment is withdrawn, arriving fights can expect the following IFR approach types:

i. Runway 14 Left - VOR Approach

ii. Runway 32 Right - VOR Approach

iii. Runway 14 Right - RNAV(GNSS) approach

iv. Runway 32 Left - RNAV (GNSS) approach

6. IMPLEMENTATION

6.1 Firm dates for activities listed in **Table A** and activation of work areas depicted in **Appendix 1** will be disseminated through NOTAMs.

7. CANCELLATION

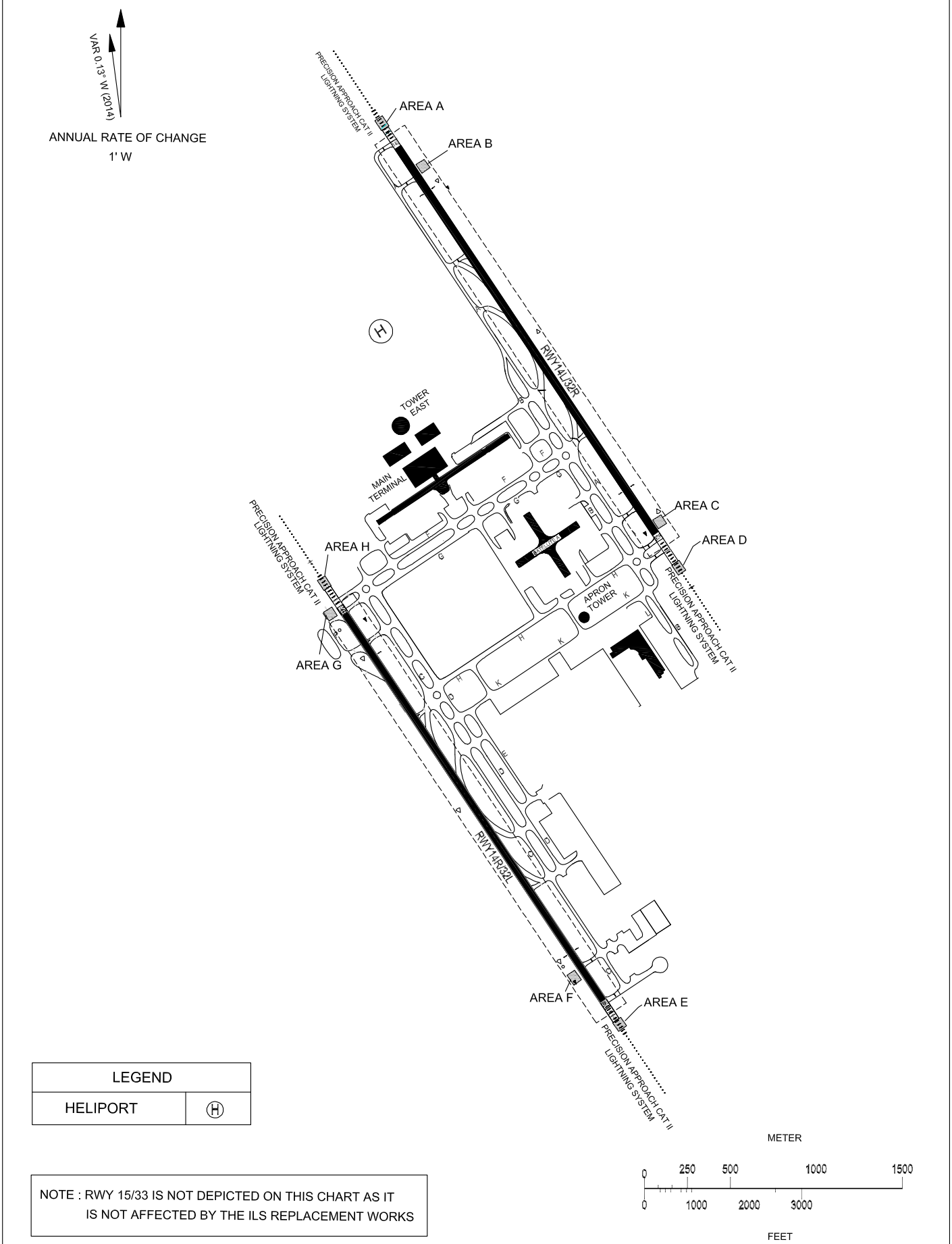
7.1 This AIC shall remain current until the commissioning of the 4 new ILS.

DATO' AZHARUDDIN ABDUL RAHMAN.
Director General
Department of Civil Aviation
Malaysia

AERODROME CHART - ICAO

ELEVATION 21.15 M

KL INTERNATIONAL AIRPORT, SEPANG



NOTE : RWY 15/33 IS NOT DEPICTED ON THIS CHART AS IT IS NOT AFFECTED BY THE ILS REPLACEMENT WORKS