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AIC

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ATC RADAR SURVEILLANCE UPGRADE PROJECT AND ITS EFFECTS ON ATC RADAR SERVICES

1. Introduction

1.1 As part of PNG Air Services project to upgrade all communications, surveillance and navigational equipment, the current Alenia ATC Secondary radar equipment will be replaced with upgraded Mode S Secondary Surveillance Radar (Mode S-SSR) equipment that will enhance a wider surveillance capability to Mode A, C and S transponder equipped aircraft.

2. Scope of Works

2.1 The installation of the new radar equipment will be adjacent to the current Alenia Radar equipment on Radar hill and will include the following

- New Tower base foundation
- Testing Radar Blanking Areas
- Radar Blanking
- New Tower construction
- New motor Room
- Ring Beam installation
- Installation of the new radar antenna, pedestal and radar dome
- Installation of waterproof platform and cab roof.
- Testing of new Radar Equipment
- Commissioning of new Radar Equipment

3. Duration of Works including Commissioning

3.1 The new radar equipment including tower construction and installation of the new radar head is expected to be completed by 30 April 2018. Commissioning of the new Radar equipment and the de-commissioning of the current Alenia Radar will take place between May and June 2018.

4. Effects of Works

4.1 During the construction of the Tower and radar head installations, significant reflections of generated radar pulses from the current Alenia Radar equipment may occur, resulting in false targets being displayed on the ATC display screens – controller working positions.

To minimise the above possibilities “radar blanking “is being considered to a certain sector,
Which will result in a non-radar coverage area.

4.2 The radar blanking area will be from S09 26 37.19 E147 12 34.53 (current Radar location) and straight lines joining S11 41 34.43 E149 43 32.59 and S12 28 23.49 E148 41 00.16. Aircraft operations within that sector can expect ATC application of non-radar separation standards or expect ATC radar vectors away from the radar blanketed areas for continuity of ATC radar services.

5. NOTAMS

5.1 Relevant NOTAMS will be issued at least 48 hours prior to commencement of activity.

6. CANCELLATION

6.1 This AIC will remain until the works and the Commissioning processes are completed.

7. CURRENT AICs:

2003: 1.
2004: 1.
2006: 1.
2016: 2, 4.
2017: 5, 6, 7, 8.
2018: 1, 2, 3.