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SOLOMON ISLANDS ATS INFRASTRUCTURE, CONSTRAINTS /ISSUES, AND DESIRED ENHANCEMENT

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PRESENTATION OVERVIEW

1. INTRODUCTION
2. ATS INFRASTRUCTURE
3. CONSTRAINTS/ ISSUES
4. DESIRED ENHANCEMENT
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01

INTRODUCTION

- Currently Solomon Islands do not have a National Air Navigation Plan and also seeking to implement the commencement of CRV and needs to fully understand its requirement.
- Solomon islands has a strong desire to upgrade or Modernize its ATS Infrastructure since its plays an important role in ensuring aircraft operations is safe and efficient within the Honiara Flight Information region.
- This Presentation provide a current overview of the Solomon Islands ATS infrastructure Constrains or issues and also desire enhancement.

HONIARA FLIGHT INFORMATION REGION



AIR SPACE CLASSIFICATION

- CLASS A- UPPER AIRSPACE (ATC, FL245- FL600) LOOKS AFTER BY BRISBANE OCC
- CLASS G- LOWER AIRSPACE (SFC – FL245 , AFIS, FIS & ALERTING SERVICE), LOOKS AFTER BY SIACL ATS
- Honiara Flight Information unit (ATS) is providing Aerodrome Flight Information Services, Flight Information services and Alerting Services
- Munda FIS is providing Flight Information services to aircraft in the Munda Flight Information Zone.

2.0 Solomon Islands ATS Infrastructure consists of the following

- Communication Infrastructure
- Navigation Infrastructure
- Surveillance Infrastructure
- Meteorological (MET) Services Infrastructure

Communication Infrastructure

- Aeronautical Fixed Services (AFTN)
- Aeronautical Mobile Services (VHF/HF)
- VSAT & IDD (Domestic & International Communication)
- Internet (emails)

NAVIGATION INFRASTRUCTURE

Ground based Navigation Aids: DVOR, DME & NDB

- Solomon Islands operates DVOR, DME & NDB at Honiara International Airports and DME & NDB at Munda Airport

Satellite Based Navigation: GNSS

Solomon Islands also used the satellite-based Navigation system for its approach landing procedure, and enroute.

SURVEILLANCE INFRASTRUCTURE

Automatic Dependent Surveillances Broadcast In

Ground based ADSB: install in Honiara, and Munda , one plan to install in Makira in Arona airport

METEOROLOGICAL (MET) SERVICES INFRASTRUCTURE

Solomon islands METS services play a important role in supporting air navigation by providing flight operations real time weather data. The current infrastructure in place is

- Automatic Weather Observing System (AWOS)

03 CONSTRAINTS OR ISSUES

❖ Obsolete or aging Infrastructure

- The current Nav aids in Honiara is old and out dated which resulted in high maintenances cost and reliability issues (DME & DVOR) and NDB

❖ EQUIPMENT FAULTS OR UNSERVICABLE

- VSAT system install in 2023 is not working unserviceable
- Voice recorder could not record telephone calls
- Poor coverage of VHF/HF communications due technical issues

04 DESIRED ENHANCEMENTS

Infrastructure Modernization

- Constructions of New Control towers for Honiara International airport and Mund Airport
- Installations of New Nav/com systems for the towers
- Expand ground-based ADS-B coverage to eliminate poor coverage
- Upgrade Navaid (DVOR, DME) with newer reliable system

05 CONCLUSION

Modernization of the current ATS Infrastructure is one of the current Priority needs for Solomon Islands, the current infrastructure faces significant challenges due to aging systems.

Thank You

