

*INTERNATIONAL CIVIL AVIATION ORGANIZATION***TWENTY FIFTH MEETING OF THE  
ASIA/PACIFIC AIR NAVIGATION PLANNING AND  
IMPLEMENTATION REGIONAL GROUP (APANPIRG/25)***Kuala Lumpur, Malaysia, 8 – 11 September 2014***Agenda Item 3: Performance Framework for Regional Air Navigation Planning and Implementation****3.6: Other Air Navigation Matters****ASIA AND PACIFIC INITIATIVE TO REDUCE EMISSIONS (ASPIRE)***(Presented by Singapore)***SUMMARY**

The ASia and Pacific Initiative to Reduce Emissions (ASPIRE) was established in early 2008 by a small group of like-minded Air Navigation Service Providers (ANSPs) who share the desire to collaborate to minimise the impact of aviation on the environment.

ASPIRE promotes Air Traffic Management (ATM) environmental best practice in all stages of flight, maintains an ambitious work program focused on continuous improvement, and encourages the continuous monitoring of ANSPs' environmental performance through the ASPIRE-Daily program. With the close support of airline partners, the ASPIRE ANSPs continue to demonstrate the significant environmental benefit that can be delivered through collaborative ATM with a focus on assuring optimum environmental performance.

**1. INTRODUCTION**

1.1 The ASia and Pacific Initiative to Reduce Emissions (ASPIRE) is a partnership of air navigation service providers focused on environmental stewardship in the region. The ASPIRE partnership was initiated by the signing of the ASPIRE Joint Statement of Purpose by Airservices Australia, Airways New Zealand, and the Federal Aviation Administration at the Singapore Air Show on 18 February 2008. Unlike regional collaborations focused primarily on technology demonstration, the ASPIRE partnership is a comprehensive approach to environmental stewardship for the Pacific Rim. Under ASPIRE, current and future partners pledge to adopt and promote best practices that have demonstrated and proven successful in the reduction of greenhouse gasses, as well as to the development of work programs to promote future benefits for the environment.

**2. DISCUSSION**

2.1 The ASPIRE Partnership expanded to focus on additional sub-regions within the Asia Pacific Region which led to the participation of Civil Aviation Bureau, Japan (JCAB) in 2009, Civil Aviation Authority of Singapore (CAAS) in 2010 and Aeronautical Radio of Thailand Limited (AEROTHAI) in 2011. As a result, the strategic plan initiatives has been expanded to the North Pacific and South East Asian corridors to gain benefits and savings through additional regional work led by these new entities.

2.2 The ASPIRE Partners have established the ASPIRE-Daily program to identify the most efficient city-pair routes in the region where best practices with demonstrated and proven success in the reduction of greenhouse gasses are available on a daily basis. Best practices for the first year of the ASPIRE Daily program include User Preferred Routes (UPRs), Dynamic Airborne Reroute Procedures (DARP), 30/30 Reduced Oceanic Separation, Time-Based Arrivals Management, Arrivals Optimization, Departure Optimization, Network Optimisation and Surface Movement Optimization.

2.3 The partners have engaged the International Air Transport Association (IATA) to collaborate on the assessment and validation of the ASPIRE Daily best practices, city pair nominations and ratings. ASPIRE-Daily city pairs are certified with a star rating system based on the number of best-practice procedures available.

Available Best Practices	Star Rating
3	★★★
4-6	★★★★
7 or more	★★★★★



2.4 Since January 2011, the ASPIRE-Daily program has validated and published twenty city pairs;

- Auckland – San Francisco (Four Stars)
- Los Angeles – Singapore (Four Stars)
- Los Angeles – Melbourne (Four Stars)
- Sydney – San Francisco (Four Stars)
- Singapore – Melbourne (Four Stars)
- Melbourne – Singapore (Four Stars)
- Singapore – Sydney (Three Stars)
- Sydney – Singapore (Four Stars)
- Melbourne – Los Angeles (Four Stars)
- Sydney – Los Angeles (Four Stars)
- Auckland – Singapore (Four Stars)
- Christchurch – Singapore (Four Stars)
- Singapore – Auckland (Three Stars)
- Singapore – Christchurch (Three Stars)
- Tokyo (HND) – San Francisco (Three Stars)
- Bangkok – Sydney (Four Stars)
- San Francisco – Auckland (Four Stars)
- Auckland – Los Angeles (Four Stars)
- Los Angeles – Auckland (Four Stars)
- Bangkok – Melbourne (Four Stars)

2.5 Recognising that greater benefits will be realised through broader participation, the ASPIRE partners are seeking to expand the ASPIRE partnership by encouraging airlines and/ or ANSPs who share our environmental values to become ASPIRE partners. ASPIRE partnership is a public statement of an organisation's commitment to environmental excellence, and the ASPIRE group provides a proactive forum for the accelerated delivery of operational efficiencies. All ASPIRE members are expected to demonstrate that commitment through the enablement of operational efficiencies on a daily basis.

2.6 The ASPIRE annual conference provides an opportunity for ANSPs, airlines, and industry to present and discuss ideas and programs intended to improve ATM environmental performance. Interested ANSPs, airlines, and industry representatives are encouraged to attend the next ASPIRE annual conference which will be held around April 2015. For more information regarding participation in the 2015 annual conference, please contact the ASPIRE Chair, Mr. Kuah Kong Beng of CAAS, at [kuah\\_kong\\_beng@caas.gov.sg](mailto:kuah_kong_beng@caas.gov.sg).

### **3. ACTION BY THE MEETING**

3.1 The Meeting is invited to:

- a) Recognize the progress, performance and program updates by the ASPIRE Partnership that are published on an annual basis in the ASPIRE Annual Report. The latest ASPIRE Annual Report was published by the ASPIRE coordinators in December 2013. The report is available on the ASPIRE website at <http://www.aspire-green.com/>; and
- b) Note the information presented in this paper, especially the establishment of the ASPIRE-Daily program to identify city-pair routes where ASPIRE best practices are available on a daily basis.

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