

**Twenty Fifth Meeting of the
Informal South Pacific ATS Co-ordinating Group (ISPACG/25)**

Honolulu, Hawaii, USA, 24-25 March 2011

Agenda Item 4: Review of Open Action Items (AI 17-2)

USER PREFERRED ROUTE (UPR) UPDATE

Presented by the Federal Aviation Administration

SUMMARY

This information paper provides information on the status of UPRs between the United States of America and the South Pacific, Asia and New Zealand/Caledonia, Asia and Hawaii, Japan and Australia, and Asia and California.

1. INTRODUCTION

1.1 Since December 2000, UPRs have been successfully in the Pacific. Throughout the past ten years, the usage of UPRs has grown significantly. Additionally, paper trial evaluations of new UPRs are ongoing.

2. DISCUSSION

2.1 As new UPRs are established, the guidelines for flight planning UPRs have been published in International Notice to Airmen (NOTAMs) or the Pacific Chart Supplement.

2.2 UPRs may not always be the most efficient means of moving aircraft through oceanic airspace. Within Oakland Oceanic Control Area (OCA), the one area where consistent use of UPRs is not feasible is the CEP. Due to the volume of traffic transiting the airspace between North America and Hawaii, adherence to a structured ATS Route system provides the most efficient operations.

2.3 Impact of air navigation service providers (ANSP) operational requirements:

a) ANSP UPR operational requirements are necessary to safely and efficiently manage air traffic operations, but they can have a negative impact on the efficiency of UPRs.

b) Over time, operational requirements must be reviewed to evaluate their continued need. Where practical, constraints should be lessened or eliminated to increase overall efficiencies.

2.4 User Preferred Routes Operational Annual Savings:

| UPR Area | Annual Fuel Savings (Million kilograms) | Annual CO₂ Reduction (Million kilograms) |
|-------------------------------|--|--|
| Russian Trans East | 1.09 | 3.41 |
| North America - South Pacific | 9.61 | 30.3 |
| Asia - Oceania | 3.98 | 12.45 |
| Asia - Hawaii | 2.88 | 9.1 |
| Hawaii – South Pacific | ??? | ??? |
| Asia - North America | ??? | ??? |
| Japan - North America (Trk 1) | 10 (Paper Trial) | 31.6 |
| Annual Totals | 27.56 | 87.08 |

3 **ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) Note the successful implementation of these UPRs, and the significant fuel savings and reduced environmental impact achieved.
- b) Discuss UPRs and ways to improve their efficiency.