



Agenda Item 2: WATRS Plus Project Implementation Issues

SUMMARY OF MAJOR IMPLEMENTATION TASKS

(Presented by the United States)

SUMMARY
The attachment to this Working Paper provides a summary of the major tasks required for implementation of WATRS Plus Route Structure Redesign and Separation Reduction on 5 June 2008.
ICAO Strategic Objectives: <i>A: Safety – Enhance global civil aviation safety</i> <i>D: Efficiency – Enhance the efficiency of aviation operations</i> <i>E: Continuity – Maintain the continuity of aviation operations</i>
Global Performance Indicators: <i>GPI-1 Flexible use of Airspace</i> <i>GPI-5 Performance Based Navigation</i> <i>GPI-6 Air Traffic Flow Management</i> <i>GPI-7 Dynamic and flexible ATS route management</i> <i>GPI-8 Collaborative airspace design and management</i>

1. Introduction

1.1 The attachment to this WP is a summary of the major tasks required for implementation of WATRS Plus Route Structure Redesign and separation reduction.

2. Suggested Action.

2.1 The group is invited to endorse the work schedule for WATRS Plus implementation on 5 June 2008.

SUMMARY OF MAJOR IMPLEMENTATION TASKS

Introduction. The summary task list below was developed from the “WATRS Plus Implementation Task List” which is provided in a separate paper.

The major sections of the detailed Implementation Task List are shown on the next page.

	<u>SUBJECT</u>	<u>TARGET DATE</u>	<u>WATRS PLUS PROJECT: SUMMARY OF MAJOR IMPLEMENTATION TASKS</u>
			Note: a detailed task list is provided in a separate document.
1	ICAO State Letter	Completed Oct-2007	ICAO - provide advance information to States, ATS Providers and industry organizations on the Waters Plus Project implementation.
2	Advance notice	Completed Nov 2006	Provide advance notice to States and operators of intent to implement (key dates, basic plan and operating policy, etc.).
3	Review of ICAO SARPS and Guidance	Completed Dec 06	Identify related ICAO SARPS and guidance documents: ICAO Doc 4444; Annexes 2, 6, 11; ICAO RNP Manual (now replaced by ICAO Performance Based Navigation (PBN) Manual (new Doc 9613)
4	Information Dissemination Program	On-going	WATRS Plus Webpage established; distribution list for States and industry organizations and key individuals developed; as necessary, exploring necessity to conduct seminars.
5	International Coordination	On-going	Coordinate with ICAO CAR and NAT Working Groups. Convene NAT/CAR ATS Routes WG, as necessary.
6	RNP 10 or RNP 4 Authorization Job Aids	Completed	RNP 10 and RNP 4 Authorization Job Aids (Checklists) distributed to ICAO Paris and Mexico City Offices and to States and industry organizations. Posted on WATRS Plus Webpage. Performance Based Navigation (PBN) Manual references incorporated. Advocated in ICAO State letter.
7	State regulator preparation	In progress	States prepare responsible offices for RNP 10 or RNP 4 authorization tasks.
8	State regulations and guidance	In progress.	States revise or develop regulations and guidance for RNP 10 or RNP 4 authorization, as necessary.
9	Concept of Operations	Completed	Concept of Operations incorporated into 27 Sept 07 FAA Notice: “WATRS Plus Route Structure Redesign & Separation Reduction, Operational Policy & Procedures”.
10	Safety Assessment	Completed	Completed Safety Assessment to be posted on WATRS Plus Webpage.
11	U.S. Fast-time simulations	Completed	Fast-time simulation data used to develop Safety Assessment and Cost/Benefit Analysis. Fast-time simulations assessed effect of added routes and associated FLs on route and FL use and effect of Non-RNP 10 flights.
12	FAA Notice: Operational Policy & Procedures	Completed	On 27 Sept 07, FAA distributed notice containing operational policy and procedures applicable to WATRS Plus route structure redesign and lateral separation reduction.
13	Cost/Benefit Analysis	Draft completed	To be reviewed at NAT/CAR ATS Routes WG/3 in November 2007.
14	Route structure redesign	15-Nov-07	Complete route structure redesign, including validation of routes and fix coordinates; coordination with ATS providers with adjoining airspace; and possible impact on related SIDs/STARs and airport operations.
15	U.S. ATC automation system simulations	Dec-07	Ocean21 simulations scheduled for late Nov/early Dec. Simulations to assess effect on Ocean 21 operation of new route structure, additional FLs and Non-RNP 10 aircraft.
16	State ATC automation systems	TBD	Modify ATC automation systems and programs, as necessary (U.S.: Ocean21 system). As necessary
17	Operator/aircraft fleet readiness projection	5 Mar 2008	Track/project operator/aircraft fleet readiness goal will be met (goal: approximately 85% of flights conducted by RNP 10 or RNP 4 authorized aircraft).

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			Note: a detailed task list is provided in a separate document.
18	State ATS policy documents	5 May 08	States revise or develop Air Traffic Services policy documents, as necessary.
19	Pre-implementation Safety Assessment & Implementation Decision	March 2008	FAA to update and complete final Safety Assessment and Readiness Review.
20	Notice of implementation	10 Mar 08	Provide notification to States and operators of decision to implement.
21	Doc 7030 proposal State distribution	November 2007	NACC to distribute NAT and CAR WATRS Plus Doc 7030 proposal for State and organization comment in late Oct 2007.
21a	CAR and NAT Doc 7030 amendment	TBD	Publish revised CAR and NAT Doc 7030 for WATRS Plus implementation.
22	CAR/SAM ANP draft	13 Nov 07	Review draft CAR/SAM ANP revision at NAT/CAR ATS Routes WG/3.
22a	CAR/SAM ANP publication	TBD	Publish revised CAR/SAM Air Navigation Plan (ICAO Doc 8733).
23	State controller training	Apr - Jun 08	States train controllers.
24	Aeronautical chart and navigation databases	10 Apr 08	Publish and distribute revised aeronautical chart and navigation database information for redesigned route structure.
25	Operator RNP 10 or RNP 4 authorization	5 May 08	WATRS Plus operators of RNP 10 or RNP 4 capable aircraft should have obtained RNP 10 or RNP 4 authorization.
26	Implementation	5 June 08	Implement redesigned route structure and 50 NM lateral separation.
27	Post implementation monitoring	TBD	Conduct post-implementation monitoring and convene WATRS Plus Scrutiny Group as necessary for monitoring.

Major Sections of the WATRS Plus Implementation Task List:

I. General Project Development & Management	VI. Operations, Airworthiness & RNP Authorization
II. International Coordination: ICAO Groups & Documents	VII. State Responsibilities For RNP Authorization
III. Route Structure Redesign & Publication	VIII. Operator Responsibilities & Tasks
IV. Safety Analysis & Monitoring	IX. Final Implementation Decision & Notification
V. Air Traffic Control Tasks – General	X. Post-Implementation Tasks