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23 February 2024

To: Members of the Navigation Systems Panel (NSP)  
From: Panel Secretary  
Subject: **Invitation to the Twelfth Meeting of the Navigation Systems Panel Joint Working Groups (JWGs/12) (Montreal, 13 – 17 and 23 May 2024)**

Dear Colleagues,

I am pleased to invite you and your advisers to attend the **Twelfth Meeting of the Navigation Systems Panel Joint Working Groups (JWGs/12)**. The individual working group meetings will be held at ICAO Headquarters in Montreal, Canada, from 13 to 17 May 2024, beginning at 0900 hours on 13 May (local time) with an opening plenary session. A virtual plenary session will take place on 23 May, beginning at 0900 hours (local time).

The agenda for the meeting is in **Attachment A**. Administrative arrangements, including deadlines for submission of papers, are presented in **Attachment B**. It should be noted that, as specified in Attachment B, **no input papers (WP/IP) will be accepted after the start of the meeting**. Furthermore, it would be greatly appreciated if input documents were submitted no later than 06 May 2024.

In accordance with paragraph 3.19 of Annex 9 — *Facilitation* of the Chicago Convention, Canada has already dispensed with the requirement of entrance visas for temporary visitors of a considerable number of States. It should however be noted that many visa-exempt visitors travelling to Canada by air will require an electronic Travel Authorization (eTA). Those for whom visas continue to be required for entry into Canada are invited to take steps to obtain these visas in good time from the nearest Canadian authorities. Please note that it is not possible to obtain entry visas upon arrival in Canada. Information on the latest travel requirements for entry into Canada can be found at [www.travel.gc.ca](http://www.travel.gc.ca).

It would be appreciated if your confirmation of acceptance of this invitation, together with the names of those attending, could be sent to [malnadaf@icao.int](mailto:malnadaf@icao.int) and [bferreira@icao.int](mailto:bferreira@icao.int) by 06 May 2024.

Muna Alnadaf  
Secretary  
Navigation Systems Panel

**Attachments:**  
A – Agenda

B – Administrative arrangements

**ATTACHMENT A**

**AGENDA**

- Agenda Item 1:** NSP work programme and organization, including review of Job Cards  
(Ref: *all NSP Job cards1*)
- Agenda Item 2:** SARPs for GNSS elements and signals (ABAS, SBAS and core constellations)  
(Ref: *Job cards NSP002.04, NSP003.04, NSP004.04*)
- 2a) GPS
  - 2b) GLONASS
  - 2c) BeiDou
  - 2d) Galileo
  - 2e) SBAS (L1/L5)
  - 2f) ARAIM
  - 2g) Other issues
- Agenda Item 3:** SARPs for GNSS elements and signals (GBAS) (Ref: *Job card NSP005.04*)
- Agenda Item 4:** SARPs for conventional radio navigation aids
- 4a) Enhancements to DME SARPs and guidance material
  - 4b) Enhancements to MLS SARPs and guidance material
  - 4c) Enhancements to ILS SARPs and guidance material
  - 4d) Enhancements to VOR SARPs and guidance material
  - 4e) Other issues
- Agenda Item 5:** Updates to Doc 8071, *Manual on Testing of Radio Navigation Aids*
- Agenda Item 6:** Spectrum (except WRC issues) (Ref: *Job card NSP006.05*)
- 6a) Signal and compatibility issues in the band 108 to 117.975 MHz
  - 6b) Signal and compatibility issues in the band 960 to 1215 MHz
  - 6c) Signal and compatibility issues in the band 5000 to 5150 MHz
  - 6d) GNSS signal and interference issues
  - 6e) Other issues
- Agenda Item 7:** Mitigation of space weather effects (Ref: *Job card NSP007.03*)
- Agenda Item 8:** Alternative position navigation and timing (Ref: *Job card NSP009.05*)
- Agenda Item 9:** Any other business

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1 The job cards can be found on the NSP website ([Pages - Documents \(icao.int\)](http://Pages - Documents (icao.int))). The updates proposed by NSP/7, (as revised following JWG/10 agreement) can be found in the Appendix to the NSP/7 Report on Agenda Item 1.

## ATTACHMENT B

### ADMINISTRATIVE ARRANGEMENTS

#### *Documentation*

1. Documents for the meeting should be sent to the Secretary of NSP at [malnadaf@icao.int](mailto:malnadaf@icao.int), with copy to [bferreira@icao.int](mailto:bferreira@icao.int).
2. **No input papers (WP/IP) will be accepted after the start of the meeting.** It would be greatly appreciated if input documents were submitted no later than **6 May 2024**.
3. All documents will be published on the NSP website at the ICAO secure portal (<http://portal.icao.int>). Templates for working and information papers will also be placed on the website.

#### *Other arrangements*

1. A tentative timetable for the individual working group meetings is provided below. The virtual plenary session will be held on **23 May** (expected duration: two hours), with an opening session on **13 May** (expected duration: one hour). Additionally, an ad-hoc virtual meeting of the CNTWG will be held on 20 or 21 May for Doc 8071, V2 editing.

	13 May	14 May	15 May	16 May	17 May
<b>AM</b>	Opening plenary session	GWG	GWG	GWG	GWG
	GWG	GSWG	GSWG	GSWG	CNTWG
	SWG	SWG	CNTWG	CNTWG	
	SBAS Authentication Ad-Hoc Group				
<b>PM</b>	GWG	GWG	GWG	GWG	CNTWG
	SWG	GSWG	GSWG	GSWG	
	SBAS Authentication Ad-Hoc Group	SWG	CNTWG	CNTWG	

**Legend:** *GWG: GBAS Working Group; SWG: Spectrum Working Group; GSWG: GNSS SARPs Working Group; CNTWG: Conventional Nav aids and Testing Working Group.*

2. Videoconferencing arrangement details (Webex) will be provided closer to the date of the meeting.