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1 October 2021

To: Members of the Navigation Systems Panel (NSP)  
From: Panel Secretary  
Subject: **Invitation to the Eighth Meeting of the Navigation Systems Panel Joint Working Groups (JWGs/8) (virtual meeting, 8 – 19 November 2021)**

Dear colleagues,

I am pleased to invite you and your advisers to attend the **Eighth Meeting of the Navigation Systems Panel Joint Working Groups (JWGs/8)**, to be held as a virtual meeting from 8 to 19 November 2021, beginning at 0700 hours on 8 November (Montreal 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**.

It would be appreciated if your confirmation of acceptance of this invitation, together with the names of those attending, could be sent to [acapretti@icao.int](mailto:acapretti@icao.int) by 1 November 2021.

Alessandro Capretti  
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 cards<sup>1</sup>*)
- Agenda Item 2:** SARPs for GNSS elements and signals (ABAS, SBAS and core constellations) (*Ref: Job cards NSP002.04, NSP003.04, NSP004.04*)
- 2 a) GPS
  - 2 b) GLONASS
  - 2 c) BeiDou
  - 2 d) Galileo
  - 2 e) SBAS (L1/L5)
  - 2 f) ARAIM
  - 2 g) 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
- 4 a) Enhancements to DME SARPs and guidance material
  - 4 b) Enhancements to MLS SARPs and guidance material
  - 4 c) Enhancements to ILS SARPs and guidance material
  - 4 d) Enhancements to VOR SARPs and guidance material
  - 4 e) 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*)
- 6 a) Signal and compatibility issues in the band 108 to 117.975 MHz
  - 6 b) Signal and compatibility issues in the band 960 to 1215 MHz
  - 6 c) Signal and compatibility issues in the band 5000 to 5150 MHz
  - 6 d) GNSS signal and interference issues
  - 6 e) 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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<sup>1</sup> The job card modifications proposed by NSP/6 have been approved by the Air Navigation Commission. [The modified versions](#) can be found on the NSP website.

## ATTACHMENT B

### ADMINISTRATIVE ARRANGEMENTS

#### *Documentation*

1. Documents for the meeting should be sent to the Secretary of NSP at [acapretti@icao.int](mailto:acapretti@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 1 November 2021.**
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 is provided below.

| Week 1                          | 8 November                    | 9 November                    | 10 November                 | 11 November                  | 12 November        |
|---------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------------|--------------------|
| 7 – 11 AM<br>(Montreal<br>time) | PLENARY<br>followed by:       | GSWG                          | GSWG                        | GSWG                         | GSWG               |
|                                 | GWG                           | GWG                           | GWG                         | GWG                          | GWG                |
|                                 | SWG                           | SWG                           | Joint GWG/SWG<br>(GBAS VDB) | Joint GSWG/SWG<br>(GNSS RFI) | SWG<br>(if needed) |
| Week 2                          | 15 November                   | 16 November                   | 17 November                 | 18 November                  | 19 November        |
| 7 – 11 AM<br>(Montreal<br>time) | Joint<br>CNTWG/SWG<br>(LDACS) | Joint<br>CNTWG/SWG<br>(LDACS) | CNTWG                       | CNTWG                        | PLENARY            |

**Legend:** *CNTWG: Conventional Nav aids and Testing Working Group; GWG: GBAS Working Group; GSWG: GNSS SARPs Working Group; SWG: Spectrum Working Group. (There will be no Validation Working Group (VWG) and DFMC SBAS SARPs Subgroup (DS2SG) standalone meetings).*

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

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