



World Radiocommunication Seminar 2016

Examination under § 4.1.11

Thong Pham Viet

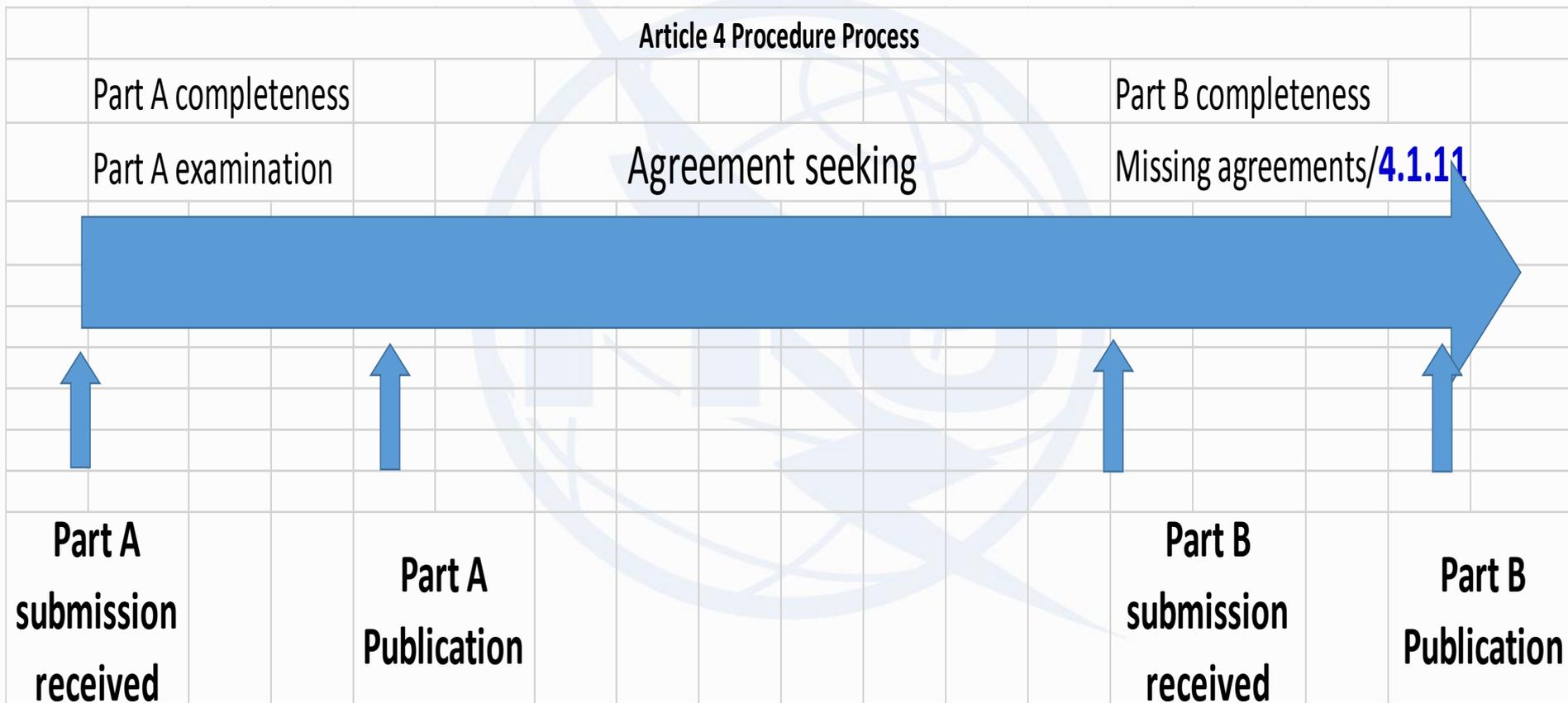
Space Services Department

Radiocommunication Bureau

International Telecommunication Union



Examination under § 4.1.11





Examination under § 4.1.11



➤ Examination under § 4.1.11:

1. Modifications as a consequence of seeking agreement
2. Affecting and Increasing interference to networks/services of other Administrations



Examination under § 4.1.11



- **Examination under 4.1.11 is NOT required if:**
- If Part B and A characteristics are identical;
 - If Modification concerns only non technical parameters such as satellite name/ beam name/ service area name, examination under 4.1.11 is also NOT required;
 - Reduction of the power;
 - Delete beams/frequency groups/channels/testpoints.



Examination under § 4.1.11



- **The following modifications should not be considered as a consequence of seeking agreement:**
- Add new beams; new service areas; new frequency assignments
 - Extension of coverage and/or service areas
 - Duplication of coverage and/or service areas
 - Increase number of polarizations
 - Increase number of assignments, etc.

(Note: This list is not exhausted!)



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➤ Databases required for checking increase of interference

- SPS_ALL_XXXX, GIMSREFXXXX and SRS_ALL_XXXX published on the latest BR IFIC
- SpaceCap database and GIMS data of your Part B submission
- If your network is grouped with assignments in the Plan/List, you need to delete those assignments and update the reference situation of the SPS_ALL_XXXX before continue.



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- **Checking increase of interference with Mspace**
 - **Run 1:** Run Mspace using the Part A parameters:
 - *Set the field “ntf_occurs” in the Notice table from “V” to “A” for your Part A notices in the SPS_ALL_XXXX database*
 - *Run Mspace twice; one for downlink and another for feeder-link*
 - SPS_ALL_XXXX with V changed to A as input of Mspace
 - GIMSREFXXXX as GIMS data
 - **Run 2:** Run Mspace using the Part B parameters:
 - *Replace Part A with Part B in the SPS_ALL_XXXX database (make sure the field “ntf_occurs” in the Notice table is set to “A” for your Part B notices)*
 - *Run Mspace twice; one for downlink and another for feeder-link*
 - SPS_ALL_XXXX containing Part B as input of Mspace
 - GIMSREFXXXX as GIMS data
 - GIMS Data of your Part B submission
- Compare the Mspace results in Run 1 and Run 2 to identify any networks which are affected and receive more interference from Part B than from Part A. If any, you need to eliminate them or to obtain an agreement.



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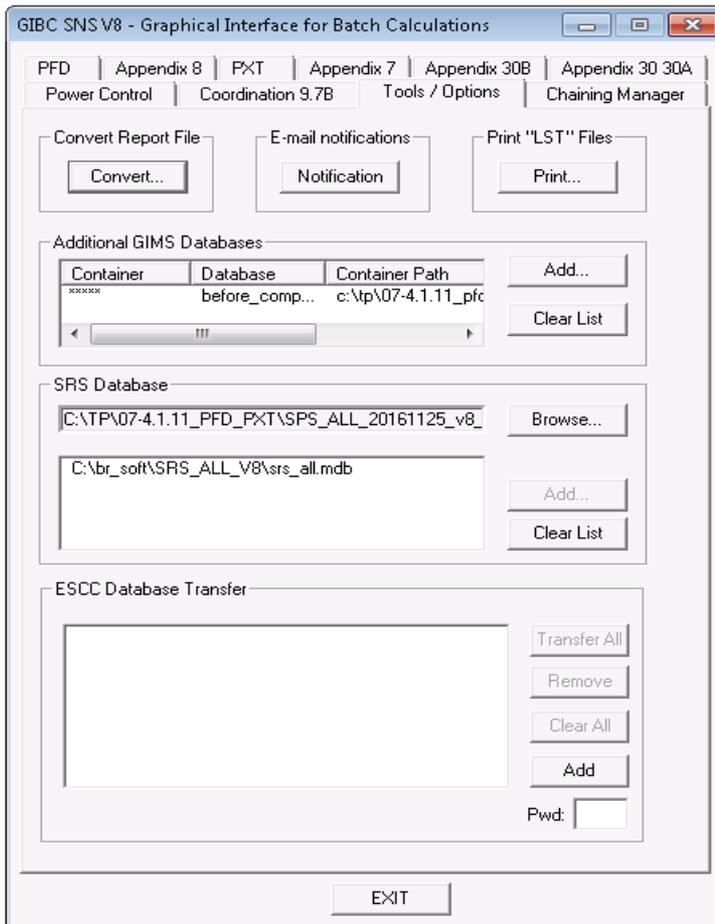
- **Checking increase of interference with GIBC/PFD and GIBC/PXT (Database V8 and GIBC V8 are required).**
 - Change the Notice_ID of your Part B downlink submission to 199999999 both in SpaceCap database and GIMS data.
 - Increase the power and power densities of your Part B downlink by 0.25 dB
 - Export your Part B downlink submission into SPS_ALL_XXXX database (Part A still remains in this SPS_ALL database)
 - Run GIBC/PFD and GIBC/PXT with option “Before Examination” selected
 - Check the GIBC output results to see if there are any identifications. If any, you need to eliminate them or to obtain an agreement.



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➤ GIBC/PFD and GIBC/PXT setting (1)





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➤ GIBC/PFD and GIBC/PXT setting (2)

GIBC SNS V8 - Graphical Interface for Batch Calculations

Power Control | Coordination 9.7B | Tools / Options | Chaining Manager

PFD | Appendix 8 | PXT | Appendix 7 | Appendix 30B | Appendix 30 30A

Operator ID: phamviet [Schedule] [Start]

Network ID: 199999999

Examination Data

Examination: Triggers

Power Control (dBW): 0 Output Level: Level 1

"Before" Examination

Perform "Before" Comparisons

Previous Networks: 116552010

Files Path

C:\BR_TEX_RESULTS\199999999 [Open Folder]

8.0.0.1 Part of TEX 8.0.0.1

[EXIT]

Enter 199999999

Select "Triggers"

Select Perform "Before" Comparisons and enter Notice_ID of your Part A downlink

