

BR IFIC 2773 – NEWS

Release of a new version of the Appendix 8 software application

The Bureau recently discovered an anomaly in the BR technical examination software which occurs in the $\Delta T/T$ calculation module of the GIBC/Appendix 8 software application. The anomaly was related to the manner in which the Appendix 8 software application was handling multiple associated earth stations submitted for a frequency assignments group. Only the first earth station appearing in a group of a receiving beam (Earth-to-space) was taken into account in Appendix 8 calculations. For calculations involving groups with multiple earth stations in a transmitting beam (space-to-Earth), the earth station with the minimum noise temperature is always taken into account. The Bureau believes that this logic in GIBC/AP8 software was originally implemented to minimize the run-time of the examination and was addressing limited computing resources available at that time.

The anomaly has been corrected in a new version (7.3.0.5) of the Appendix 8 software application (GIBC software package v. 9.0.0.15) included in this BR IFIC 2773 of 8th July 2014.

Together with the increased precision, the overall runtime of an AP8 examination has increased on average by 1.5 times as compared to the previous GIBC version.

Using this updated version of the Appendix 8 software, the Bureau has undertaken an exhaustive review of the coordination requests of satellite networks submitted and already published.

The Bureau found less than 40 coordination request Special Sections (CR/C) where additional affected administrations have been identified at the network level with a minimum orbital separation between the added networks and the networks published in CR/C of 19.5 degrees. Since this orbital separation is considered to be sufficiently large not to impose any additional constraints in the on-going coordination of the involved satellite networks, therefore, no publication of modifications to existing CR/Cs is envisaged.

The Bureau's review of the technical examinations carried out on past Appendix 30A submissions indicated that the anomaly resulted in some missing identifications: under § 4.1.1 d) of Article 4 of Appendix 30A, for 15 incoming Article 4 networks with an orbital separation less than 8 degrees; under § 7.1 of Article 7 of Appendix 30A, for 3 Article 2A incoming networks with an orbital separation greater than 53 degrees. As 53 degrees separation is considered to be sufficiently large, the Bureau will publish a modification only for the Special Sections corresponding to the 15 above-mentioned Article 4 networks in a forthcoming BR IFIC.