

Steerable beams and compliance with PFD limits under No.21.16

According to the Rules of Procedure relating to No.21.16, in cases where frequency assignments in steerable beams of a satellite network exceed the applicable hard pfd limits, the Bureau will establish a favourable finding only if:

- a) there is at least one position of the steerable beam where the applicable pfd limits are met without any reduction of the notified power density; and
 - b) the administration states that the applicable pfd limits will be met by applying a method, the description of which should be submitted to the Bureau.
- One possible example of such a method is described in the Annex to that Rule.

This is applicable for both Non-GSO and GSO satellite networks, except for frequency assignments under the Appendix 30B.

For this purpose, the Bureau has created 3 possible options in Spacecap, as shown below:

Spacecap option for steerable transmitting beam	Description	SNS database (s_beam table)
<div style="border: 1px solid blue; padding: 5px;"> B3b1b - Method required in RoP 21.16 <input checked="" type="checkbox"/> Apply RoP No. 21.16 power flux-density (pfd) limits to steerable beams <input type="radio"/> Limits will be met by applying the method in Annex 1 to RoP No. 21.16 <input type="radio"/> Limits will be met by applying other method in attachment No. <input type="text"/> </div>	The administration wishes to apply the method specified in the Annex 1 to the Rules of Procedure relating to No.21.16	f_pfd_steer_default = Y atch_pfd_steer = NULL
<div style="border: 1px solid orange; padding: 5px;"> B3b1b - Method required in RoP 21.16 <input checked="" type="checkbox"/> Apply RoP No. 21.16 power flux-density (pfd) limits to steerable beams <input type="radio"/> Limits will be met by applying the method in Annex 1 to RoP No. 21.16 <input checked="" type="radio"/> Limits will be met by applying other method in attachment No. <input type="text" value="1"/> </div>	The administration wishes to apply the Rules of Procedure relating to No.21.16 using a different method, which is described in an attachment	f_pfd_steer_default = N atch_pfd_steer = [number of the attachment]
<div style="border: 1px solid green; padding: 5px;"> B3b1b - Method required in RoP 21.16 <input type="checkbox"/> Apply RoP No. 21.16 power flux-density (pfd) limits to steerable beams </div>	The administration does not wish to apply the Rules of Procedure relating to No.21.16	f_pfd_steer_default = X atch_pfd_steer = NULL

Note: Only for steerable transmitting beam with frequency assignments subject to Article 21 pfd limits (i.e. s_beam.emi_rcp = E, s_beam.f_steer = Y, frequency bands and services listed in Table 21-4 of Article 21)