From: Michael Miller

To: Leann Nguyen
Date: May 17, 2021

Subject: Request for Info - File # 0159-EX-CN-2021

Message:

1. In the emissions tab, for the downlinks, please check the minimum power densities In the spacecap, in the emissions tab, the minimum power density for the downlink with designator 150HN1A is stated to be -30. A rough analysis shows the minimum power density closer to -15.7. Please provide an explanation or correct.

Answer: We agree with a calculated value for power density of roughly -15.7 dBW/Hz, averaged over the150 Hz required bandwidth. But if we enter that value, the Spacecap 671 (Warning) Error message states that "... this calculation should be averaged over a minimum of 4 kHz regardless of the required bandwidth". That is the basis of the -30 dBW/Hz value that was entered; we averaged over 4 kHz.

Please let us know if we should disregard the error message, and if so we will enter the value -15.7 dBW/Hz.

2. The emission designator for the HF uplink does not match between the form 442 and the spacecap. Please indicate what the correct emission designator is and provide updated file(s).

Answer: For the uplink, the bandwidth is shown as 2.4 kHz in the Form 442, and 240 kHz in the Spacecap. The correct value is 2.4 kHz. We misunderstood the number when the Spacecap was created. The Spacecap has been updated to reflect this corrected bandwidth (extension changed to txt) and has been posted as an exhibit to the application..