

**Rockwell Collins Satellite Communications Systems, Inc.**  
**Form 312**  
**Attachment**

Rockwell Collins Satellite Communications Systems, Inc. (RCSCS) hereby submits this notification of a minor modification to its satellite earth station authorization, call sign E030197, to correct a typographical error in the figure for the maximum total input power at the antenna flange for the CCT-90 antenna. The license currently provides that the maximum total input power is 4.0W, a figure which does not match the figures for maximum antenna gain and maximum aggregate output EIRP.

Under Part 25.118(a)(2)(iv) of the Commission's rules, a licensee may make a change to its authorized earth station equipment without prior Commission approval provided "[t]he maximum power and power density delivered into any antenna at the earth station site shall not exceed the values calculated by subtracting the maximum antenna gain specified in the licensed from the maximum authorized e.i.r.p. and e.i.r.p. density values."

The CCT-90 antenna has a maximum antenna gain of 38.2 dBi at 12.2 GHz and 38.1 dBi at 14.25 GHz. The maximum aggregate output EIRP for all carriers is 54.1 dBW. Our calculations indicate that, based on these numbers, the maximum total input power at the antenna flange should therefore be 16 dBW or 40 W:

CCT-90 Maximum aggregate output EIRP for all carriers = 54.1 dBW

CCT-90 EIRP = Pout + Antenna Gain

Pout = EIRP - Antenna Gain

Pout = 54.1 dBW - 38.1 dBi = 16 dBW = 40 W

By this application, RCSCS notifies the Commission that its CCT-90 antennas have a maximum total input power at the antenna flange of 40W.

To the extent necessary, RCSCS also requests a waiver of Part 25.118(a) of the Commission's rules requiring notification within 30 days of a minor modification, as this modification is to correct an error that was only recently discovered and does not reflect a change in the actual operating parameters of its CCT-90 antennas.