



Recommendation WG 3.90.033

ADDED INFORMATION REQUIRED
for
C-BAND TRANSMIT EARTH STATIONS

www.nsma.org

RECOMMENDATION

Subject: Coordination

Title: Added information required for C-band transmit earth stations

Background:

The FCC's mandated objective for interference from transmitting earth stations into terrestrial microwave stations is -154/-131 dBw (long term/short term) in the worst 4 kHz slot. This objective was logical and reasonable when dealing with interference into analog terrestrial receivers. When dealing with interference into digital receivers, however, it is misleading and wrong.

The interference effect on a digital receiver has no relation to a 4 kHz slot. Rather, the interference relates to the total interference power into the digital receiver. In addition to the power per carrier, the total number of carriers within a 30 MHz terrestrial channel is necessary to perform the correct analysis.

Recommendation:

Coordination notifications for transmit earth stations must specify the powers required in the FCC Rules and should also include one of the following:

1. The maximum total transmit power, at the antenna, to any one transponder from that earth station.
2. The maximum transmit power per carrier and the total number of simultaneous carriers to any one transponder from that earth station.
3. The maximum transmit power per carrier and the smallest spacing between simultaneous carriers to any one transponder from that earth station.

Date: Earlier draft submitted May, 1990 to Board of Directors Discussed by WG #3 January 30, 1991 and May 1, 1991 1st draft prepared May 9, 1991 by David R. Mason Submitted to N.S.M.A. Secretary May 9, 1991 Rejected by N.S.M.A. Board of Directors December 10, 1991 This draft prepared April 15, 1992 by David R. Mason

Recommended: WG3.90.033
Approved: 1-25-93
To Membership: 2-22-93
Notes: Draft approved by BOD 4-30-92.
To membership for comments 9-9-92