

SECTION 6

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15 ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.) The power flux-density (pfd) limits for satellites operating in the 2025-2300 MHz frequency range were calculated. Two computer models, one developed by the Bell Telephone Laboratories (BTL) and the other by the Systematics General Corporation (SGC), were used in the analysis. Modifications to these models were made in order to enhance their accuracy in the evaluation of the pfd limits in this and other bands. Distinctions were made between the satellites in geostationary satellite orbit and those in nongeostationary orbits. Two different sets of limits were calculated, one for the satellites in the geostationary satellite orbit and the other for the satellites in nongeostationary orbits. These limits were calculated using the technical characteristics of equipment in the 2025-2300 MHz frequency range and the criterion of noise due to interference from satellites set by the CCIR Recommendation 357-3. The pfd limits calculated here for the 2025-2300 MHz frequency range are applicable in the portions of this frequency range authorized for use by space services. These limits were compared with			
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the existing limits in the NTIA Manual and the analysis indicated that the pfd limits for satellites could be relaxed.