

PNTAB view: Minimum Criteria for Testing/Evaluation of Interference Potential of High Power terrestrial transmitters in repurposed radio bands

1. **Accept and strictly apply the 1 dB degradation Interference Protection Criterion (IPC) for worst case conditions.** (*This is the accepted, world-wide standard for PNT and many other radio-communication applications*)
2. Verify interference for **all classes of GPS receivers is less than criteria, especially precision** (*Real Time Kinematic - requires both user and reference station to be interference-free*) **and timing receivers** (*economically these two classes are the highest payoff applications – many \$B/year*)
3. Test and **verify interference for receivers in all operating modes** is less than criteria, particularly **acquisition and reacquisition of GNSS signals** under difficult conditions (see attachment of representative interference cases)
4. **Focus analysis on worst cases: use maximum authorized transmitted interference powers and smallest-attenuation propagation models** (antennas and space losses) that do not underrepresent the maximum power of the interfering signal (including multiple transmitters).
5. Ensure **interference to emerging Global Navigation Satellite System (GNSS) signals** (*particularly wider bandwidth GPS L1C – Galileo, GLONASS*), is less than criteria
6. All **testing must include GNSS expertise** and be **open to public comment** and scrutiny.