



# FCC Receiver Standards

AFC Winter 2015 Meeting

# Proposed FCC Receiver Standards

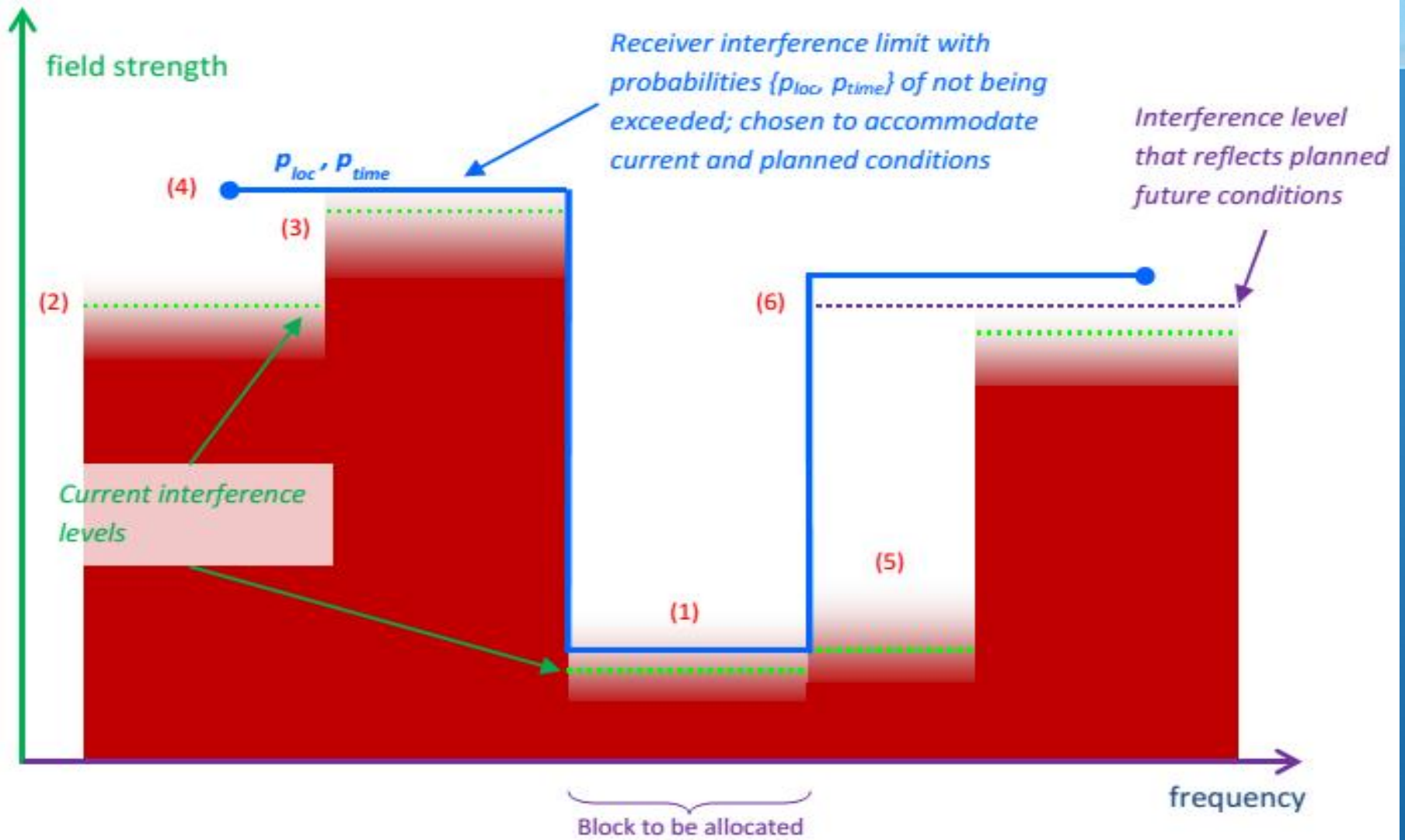


- Initiative from the FCC Technical Advisory Council
  - Remit: Efficient use of the radio spectrum
    - Prevent another LightSquared issue
  - *FCC has to find a balance between new entrants and incumbents. Worst case favors incumbents; need a complementary method to strike a better balance*
- Proposing a ‘Harm Claims Threshold’ for allocations
  - 2013 white paper detailed the concept
  - AFC commented on impracticalities for aviation

# Harm Claim Threshold Concept



- Specify maximum field strength limits for receiver's in and out of band interference immunity
  - Cannot claim protection if you do not meet the standard
- Signal limits also defined by agreed probabilities of being exceeded
  - Time and location variables would need to be agreed
- Any required guard bands must be within own allocation
  - Self-protecting receiver referenced heavily in report
  - Recommended to assume worst case (adjacent OFDM system)
- Limits created by a multi-stakeholder group of interested parties
  - Timeline not clarified
  - FCC has final decision (agreement or stalemate)
- Limits are subject to review as requirements change
  - No details on when/how often this would occur?



# Pilot Program



- FCC implementing a pilot multi-stakeholder group
  - 3.5 GHz band trial group
- Test over the next year and review results
  - Potential to apply to other frequency bands of interest





# Questions?