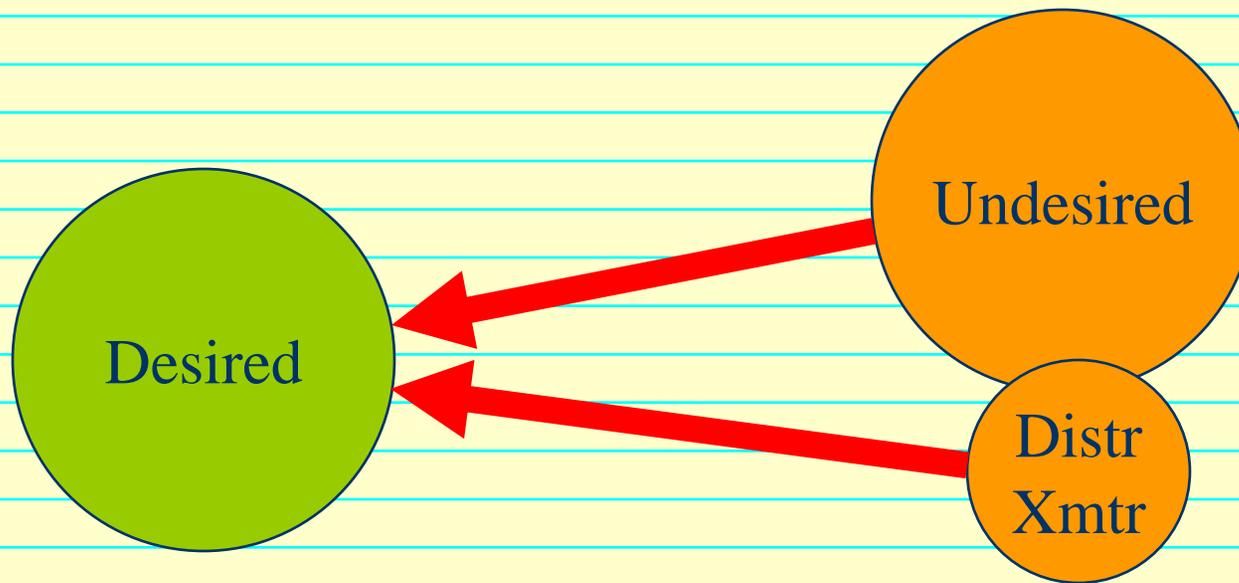


Interference Analysis Methods

- ✓ **Based on Current Techniques**
 - ✓ Longley-Rice Propagation Model
 - ✓ OET Bulletin 69
 - ✓ *de minimis* Interference Thresholds
 - ✓ Embodied in the Rules – Whatever They May Become
- ✓ **Must Protect Neighbors from DTx Systems**
 - ✓ All Transmitters Taken Together
- ✓ **Must Protect DTx Systems from Neighbors**
 - ✓ Must Avoid Double Counting
- ✓ **Modification of Current Software**

Interference FROM DTx System

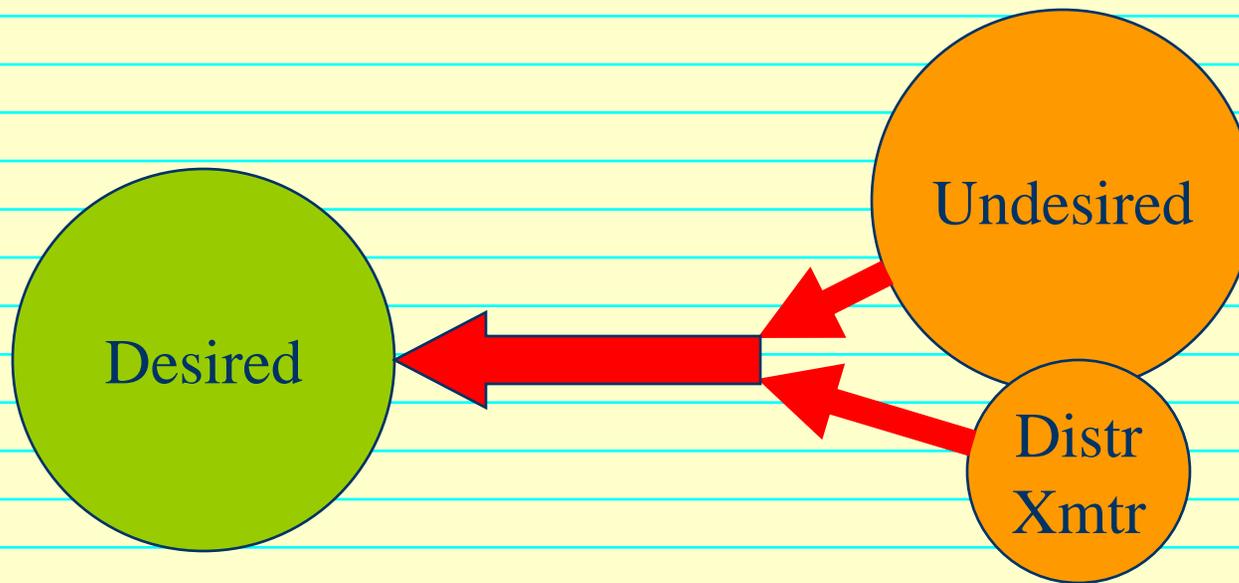
- ✓ Current Interference Analysis Method
- ✓ Main & Distr Xmtrs Treated Separately



Interference FROM DTx System

✓ Proposed Interference Analysis Method

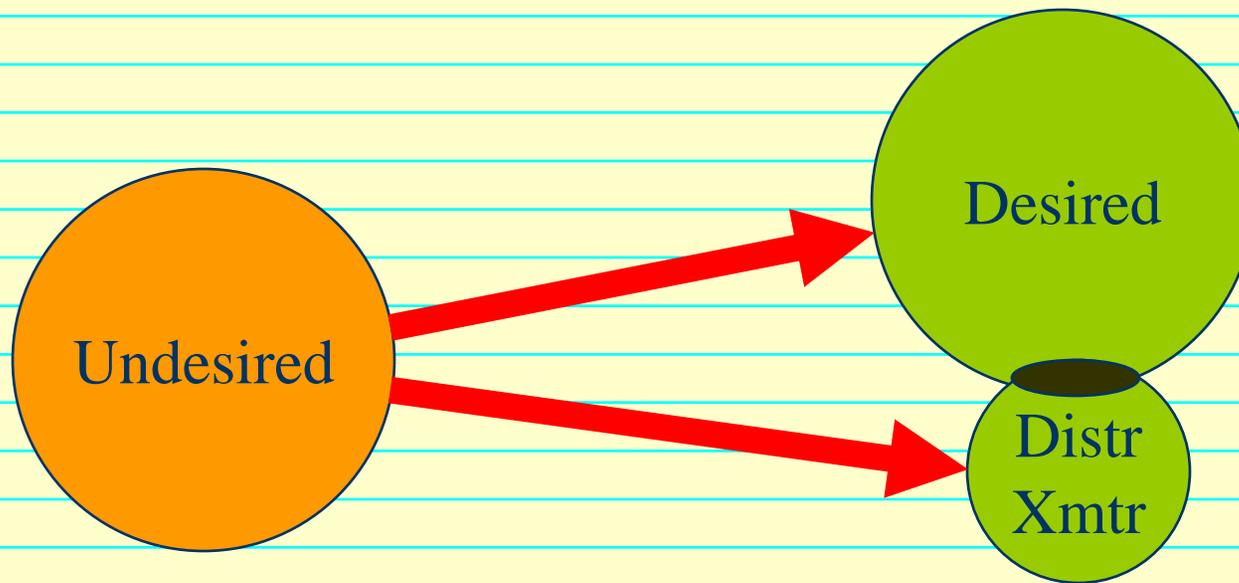
✓ Main & Distr Xmtr Signals Aggregated



Interference TO DTx System

✓ Independent Interference Analysis Method

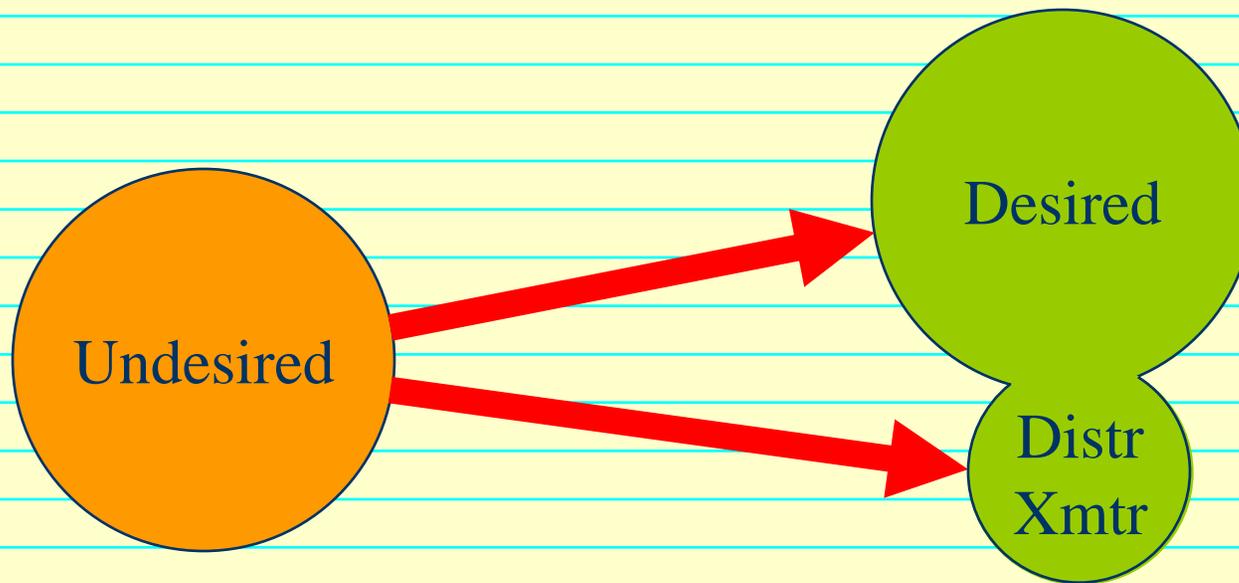
✓ Overlap Leads to Double-Counting



Interference TO DTx System

✓ Proposed Interference Analysis Method

✓ No Double-Counting



Software Modifications

✓ Interference FROM DTx System

- ✓ Main & Distributed Xmtrs Analyzed Together
- ✓ Can Be Done Manually — Turn On/Off Together
 - ✓ Method Used for Application Now On File with FCC
- ✓ Link Distr Xmtrs to Main for Automated Analysis

✓ Interference TO DTx System

- ✓ Treat Main & Distr Xmtrs As Single Service Area
- ✓ Generate Analysis "Cells" from Single Reference Point
- ✓ Analyze D/U Ratios Using Highest Signal Level as "D"
- ✓ If D/U Below Threshold, Count Population from Cell
 - ✓ Avoids Double-Counting Population Losses to Interference