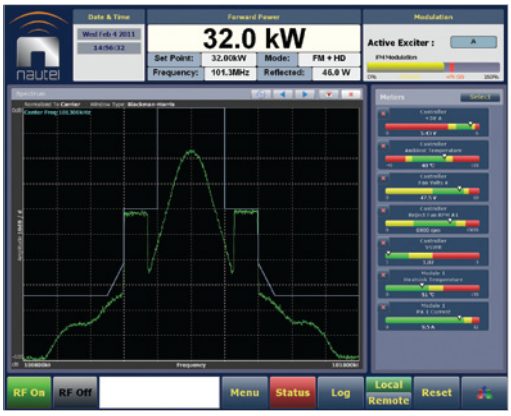
High Power FM: NV Series vs Tube:

Tube replacement cost
- Tube: about $4K-$6K every 2-3 years, $20-$40K over 15 years

Routine maintenance
- Tube: diligent tuning to maintain peak performance

Monitoring and control
- Nautel: Advanced User Interface can save time and trips

Safety and high voltages
- Tube: lethal tube plate voltages up to 10,000 volts or more
- Solid state Tx operate at only a few hundred volts



More redundancy - less downtime
- Tube: single points of failure
- NV Series: extensive redundancy + "soft" module failure

Footprint
- NV40 footprint is equal to or less than many tube transmitters
- Unlike tubes, stepping down in power (NV20, NV15) means even smaller footprints as well as lower cost

Performance variability
- Tube: transmitter performance can vary over the life of the tube
- NV Series: consistent solid state performance

Wide tolerance for input voltage
- Tube: require tight voltage regulation to sustain extended tube life
- NV Series: voltages from 180 volts to 264 volts, 3-phase or single phase

Turnaround loss
- Tube: only 6 or 7 dB typical vs. NV Series: -20 dB

Long term support
- Long term tube availability vs. Nautel "never discontinued support"
- Tube engineering talent vs. solid state engineering talent availability