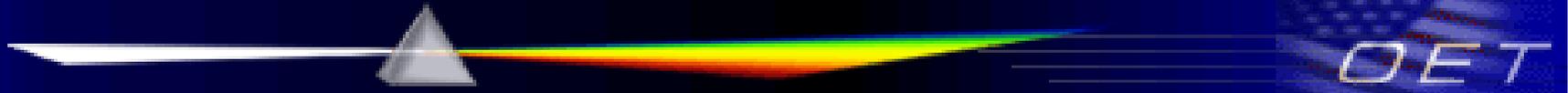


# Office of Engineering and Technology

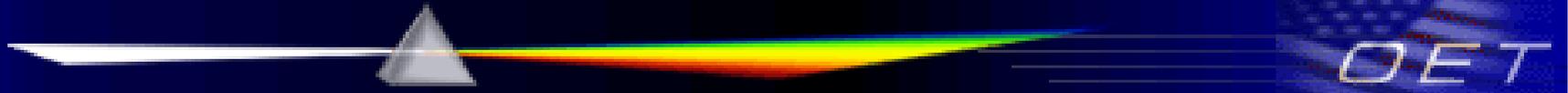
## JANUARY REPORT

January 20, 2006



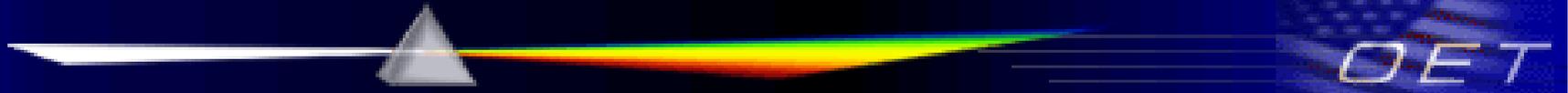
# OET's Mission

**Manage the spectrum and provide technical leadership to create new opportunities for innovation and economic growth.**

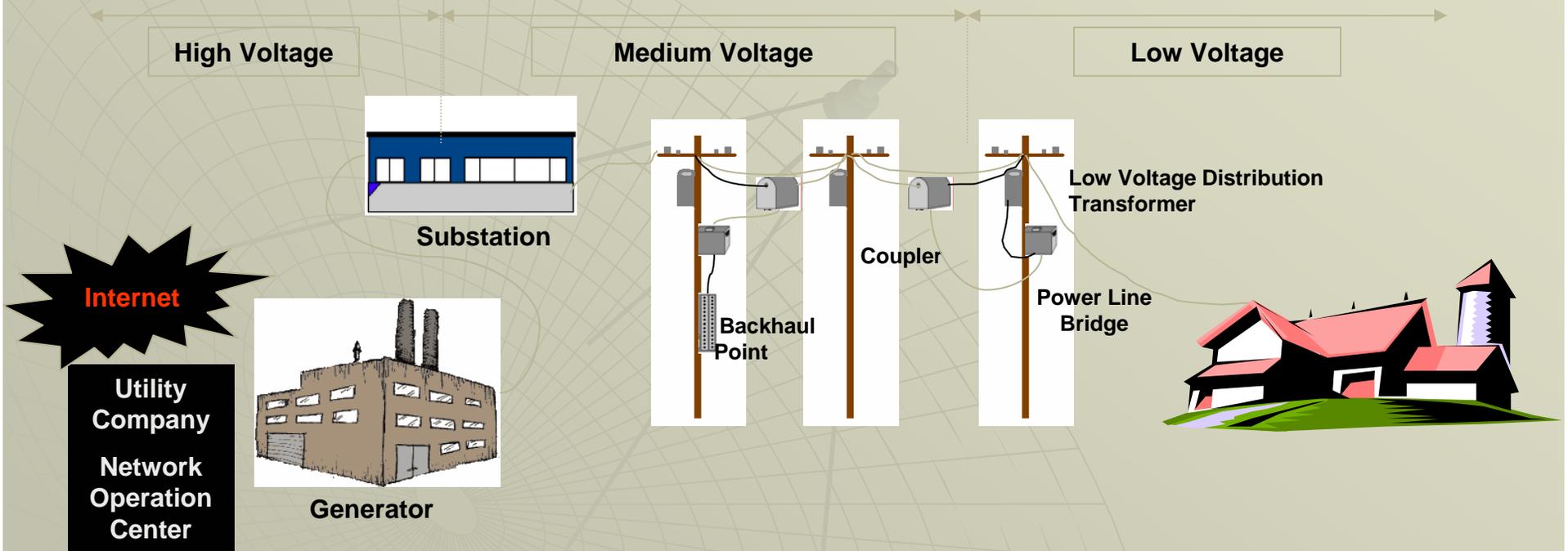


# Broadband

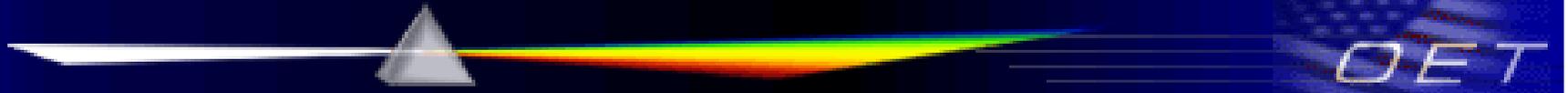
- ◆ **Increased Spectrum for Unlicensed Broadband Services**
  - Additional 255 MHz at 5 GHz
- ◆ **Introduction of New Broadband Technologies**
  - Broadband over Power Lines (BPL)
  - Ultra-wideband (UWB) devices



# Broadband: Broadband over Power Lines (BPL)



- ◆ Authorized BPL Experiments
- ◆ Developed Rules To Enable BPL Deployment and Protect Existing Radio Services

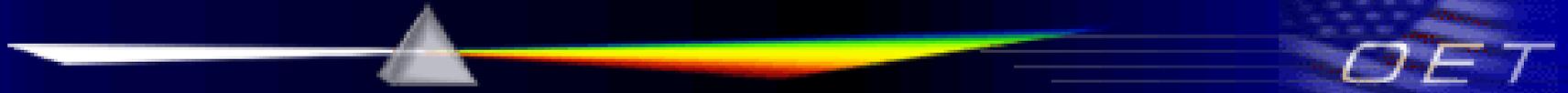


# Broadband: Ultra-wideband Transmission Systems (UWB)

- ◆ **Authorized 18 New UWB Products**
- ◆ **New Provisions for Wideband Devices**
- ◆ **Waiver for Certain UWB Techniques**
- ◆ **International UWB Standards**



**UWB Testing at  
the FCC Laboratory**



# Competition

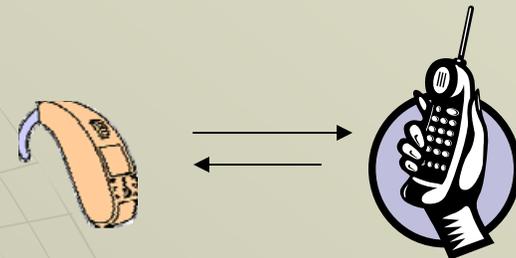
## ◆ Advanced Wireless Services

- Spectrum Allocations
- Relocation of Federal Operations
- Trust Fund Implementation



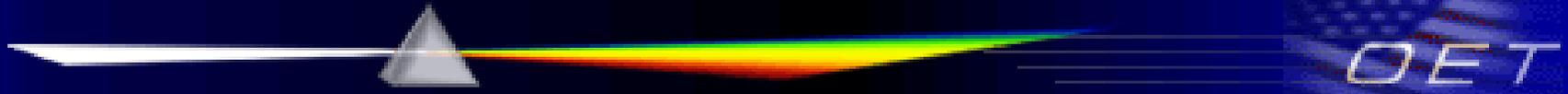
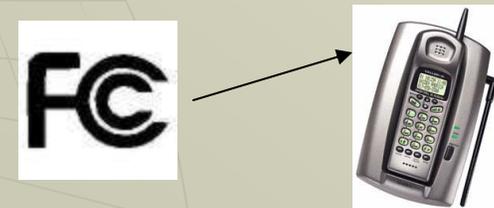
## ◆ Hearing Aid Compatibility

- Standards development
- Product compliance

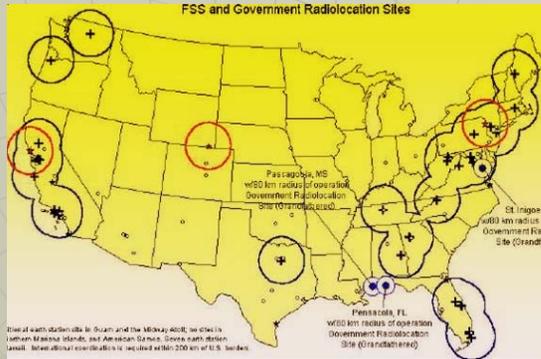


## ◆ Equipment Authorization

- Speed of Service
- TCB Program
- Mutual Recognition Agreements



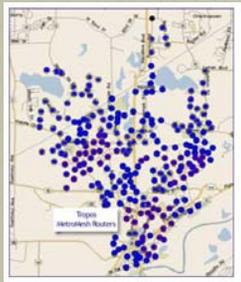
# Spectrum: New Allocations and Services



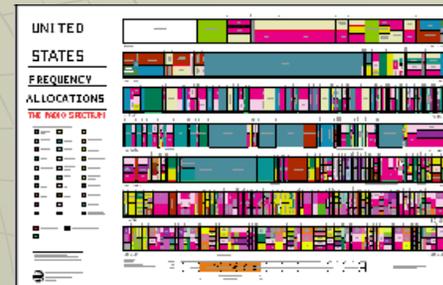
“3650 MHz” Service



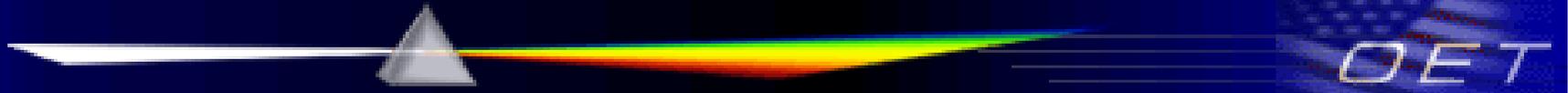
Cognitive Radio



Unlicensed Devices



Presidential Spectrum Initiative

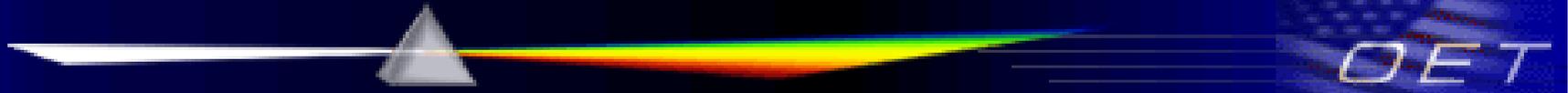


# Media: Digital Television (DTV) Transition

- ◆ DTV Tuner Requirements
- ◆ DTV Table of Channel Allotments
- ◆ SHVERA Report to the Congress



FCC Digital Television Lab



# Homeland Security

- ◆ Network Outage Reporting
- ◆ Hurricane Relief
- ◆ Public Safety Spectrum
- ◆ CALEA

Welcome to the home page of the  
**Network Outage Reporting System (NORS)**

*This system is comprised of two separate modules for filing and retrieving outage reports.*

*To continue, choose one of the following:*

**DHS Retrieval Module \***  
  
[Retrieves Outage reports - DHS Only](#)

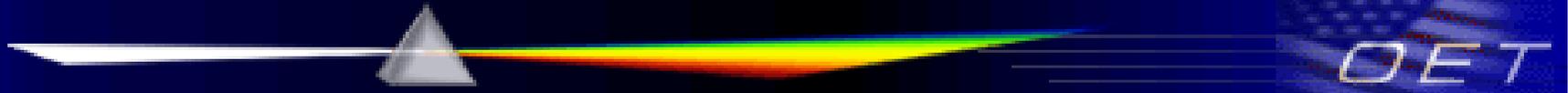
**Outage Filing Module \*\***  
  
[Report Network Outage](#)

\* For Department of Homeland Security.  
\*\* For companies viewing, filing, updating and withdrawing outage reports.



# Modernize the FCC

- ◆ FCC Laboratory Reorganized
- ◆ Knowledge Data Base
- ◆ Modernize Equipment



# OET Goals for 2006

- ◆ **Continue aggressive rule making program to foster strategic goals of Broadband, Spectrum, Competition, Homeland Security and Modernization**
- ◆ **Initiate Proceeding for Advanced Medical Technologies**
- ◆ **Develop Improved Spectrum Management Techniques:**
  - **Spectrum Test Bed**
  - **Cognitive Radio & Dynamic Spectrum Access**
- ◆ **Advance Homeland Security**
  - **Work with first responders to solve interoperability**
  - **Facilitate Improvements to Network Security, Reliability and Integrity**
  - **Continue to Work with NRIC to improve "Best Practices"**

