



SPACE-BASED POSITIONING
NAVIGATION & TIMING
NATIONAL COORDINATION OFFICE

Space-Based PNT Executive Committee Recent and Emerging Issues

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Recent Space-Based PNT Executive Committee Agenda Items & Activities



- **PNT Critical Infrastructure Resiliency (CIR)**
- **GPS Outreach: Raising Public Awareness**
- **U.K. Patent Issue**
- **Spectrum**
- **Future EXCOM Topics**



PNT CIR



- **Next steps discussed in late 2012**
- **Updated Guidance: February 2013**
 - **Presidential Policy Directive 21**
 - **Executive Order 13636**
- **Ongoing Interagency effort to address PNT CIR**



GPS Outreach: Raising Public Awareness



- **GPS.gov as central pillar of outreach campaign**
 - Targeted content for general public, news media, Congress, international audiences, professionals, students
 - Consolidated with PNT & CGSIC websites
- **Smithsonian Time & Navigation Exhibit**
 - Opened in April 2013
- **“How GPS Works” poster**
 - 20K+ copies distributed to STEM educators
- **NCO newsletter for congressional staff**
- **Participation in international conferences**
 - Funding for ICG secretariat, incl. regional GNSS workshops
- **Continued efforts**
 - Raising awareness of Interagency roles



U.K. Patent Issue



- Interagency effort began in early 2012
- January 2013 Joint U.S. and U.K. Statement
 - U.K. commitment to dedicate all patents to public domain
 - Joint commitment to free/openly available GPS civil signals
 - Interagency commitment to follow-up actions



Spectrum



- **CSMAC sharing studies in 1755-1850 MHz**
 - GPS uses that band to command the satellites
 - Studying feasibility of sharing with commercial wireless
- **LightSquared update**
 - FCC proposed to vacate conditional waiver, no final ruling
 - EXCOM proposed development of spectrum interference standards
 - FCC removed LSQ build-out requirements
 - FCC granted LSQ temporary authority to test base stations in 1675-1680 MHz band used by NOAA
- **Spectrum protection issues continue for GPS and have National-level attention**



Future EXCOM Topics



- **Threats to GPS**
- **PNT CIR Efforts**
- **National Advanced Spectrum & Communications Test Network (NASCTN)**
- **Current GPS Advisory Board Task:**
 - **Economic Impact Assessment**
- **GPS Civil Funding**