The National Broadband Plan

Challenges and Opportunities for the RLEC Industry

July 7, 2010
Agenda

- Introduction and Overview of the NBP
  Glenn Brown Rural Alliance
- Association Panel
  Bob Gnapp NECA
  Tom Wacker NTCA
  Randy Tyree OPASTCO
  Derrick Owens WTA
  Geoff Feiss MTA
- Conclusion
Overview of the NBP
The National Broadband Plan

• Directed by Congress in the ARRA (Stimulus Bill)
  – Perception that USA is “15th worldwide” in Broadband
  – Expand availability, affordability and adoption

• NBP establishes national goals
  – 100 Mbps to 100M Homes by 2020
  – 500 MHz of new spectrum for mobile Broadband
  – Convert existing USF to support Broadband

• The NBP, as Currently Written, Will Harm Rural America
  – “Digital Divide” – 100 Mbps Urban vs. 4 Mbps Rural
  – Eliminates Incentives for rural infrastructure investment
  – Up to 90% reduction in current USF funding to RLECs

• Need broad coalition to advocate for Plan improvements
Current RLEC Realities

• RLECs role:
  – Serve rural areas that Bell found unprofitable
  – Serve as Carriers of Last Resort (COLR) for high-cost areas
  – Broadband service to millions of rural consumers
  – Back-haul and middle-mile functions for wireless and others

• RLECs rely on USF and ICC to recover over half of their network costs (many > 70%)
  – Current USF and ICC mechanisms not sustainable

• The political landscape has changed

• NBP proposes comprehensive USF and ICC reform
  – But in a manner that would cripple COLR abilities
  – NBP fundamentally redefines Universal Service
Definition of Universal Service

Section 254(b) – Universal Service Principles

1. Quality services at just, reasonable and affordable rates
2. Access to advanced services in all regions of the Nation
3. Consumers in rural, insular, and high-cost areas should have access to services reasonably comparable to those services provided in urban areas, at reasonably comparable rates
4. All providers of telecommunications services should pay equitable and nondiscriminatory contributions to support USF
5. There should be specific, predictable and sufficient federal and state mechanisms to preserve and advance universal service

– A legacy of the “Farm Team”
Access MOU Trends
The Landscape is Different

• New FCC Priorities
  – New Democratic FCC Chairman, different agenda, urban focus
  – The Silicon Valley agenda (i.e., Network Neutrality, Google Voice, et. al.)
  – Focus on Spectrum and Mobile Broadband
  – Broadband is King

• New Legislative Realities
  – The “Farm Team” is long-gone
  – Questions on the size, need and efficacy of the USF
  – Many other pressing priorities
  – Partisan gridlock
What is in the NBP?

• By 2020, 100 Mbps broadband to 100M homes
• 500 MHz of new spectrum for mobile broadband
• Current USF evolves to a broadband fund
  – Connect America Fund (CAF)
  – Mobility Fund (MF)
  – Shift $15.5B from current USF over 10 years
• Eliminate per-minute ICC over time
  – Congress to give FCC authority to regulate intrastate access
  – Offset revenue loss through SLC increases and local rate rebalancing
• Three “Stages” of implementation
  – Stage 1 (2010-2011) – Design new mechanisms and processes
  – Stage 2 (2012-2016) – Begin implementation
  – Stage 3 (2017-2020) – Eliminate legacy High-Cost programs
Connect America Fund

- CAF supports build-out to “unserved” areas
  - USF and ICC supported service to high-cost areas
- Rate-of-Return (RoR) Regulation Eliminated
  - Support based on proxy model (4/1 Mbps) for “most efficient technology”
  - Revenues include regulated and unregulated revenues
- Maximize number of households served quickly
- One Broadband Provider of Last Resort per area
  - Reverse auctions
- Total funding (CAF + MF) no higher than 2010 levels
- No provisions (yet) for supporting existing rural Broadband infrastructure (i.e. USF and ICC replacement)
What Does This Mean?

• End of “Universal Service” per Sect. 254(b)
  – No “comparability” (4 Mbps vs. 100 Mbps)
  – No “predictability” (particularly for existing networks)

• Significant shifts of funding to RBOCs and Wireless
  – RBOCs have largest number of “unserved” areas
  – “Broadband Assessment Model” (BAM) found wireless “most efficient technology” for 90% of unserved households
  – 4G wireless can meet 4/1 Mbps standard

• Rural areas locked-in for 20 years
  – 4G may not meet long-term needs
What Does This Mean?

• RLECs face grave uncertainty for the future
  – RoR regulation effectively ended by ICLS freeze and CAF
  – Current mechanisms gone by 2020
  – Reduced incentives for new investment
  – How much funding can RLEC broadband providers expect?
    • If they are BPOLR?
    • If someone else is BPOLR?

• The USF Collection Mechanism could literally implode
  – Significant pain for multiple segments (RLEC, S&L, Low-Income, Rural Health Care)

• We have a lot of work to do to get this all fixed!
## FCC’s 2010 “Action Agenda”

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<th>Q2 2010 (CY)</th>
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<td>Mobile Roaming Order and FNPRM (WTB)</td>
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<td>D Block Order/FNPRM (WTB, PSHSB) [Also in Public Safety]</td>
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<td>Launch Strategic Spectrum Plan and Triennial Assessment (WTB, OET, OSF)</td>
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<td>2.3 GHz WCS/SDARS Order (OET, WTB, IB)</td>
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<td>TV White Spaces Opinion &amp; Order (OET, MB, WTB)</td>
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<td><strong>Accelerate Universal Broadband Access and Adoption</strong></td>
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<td>USF Reform NPRM and NOI (WCB, WTB)</td>
<td>Hearing Aid Compat. Second Report &amp; Order/FNPRM (WTB, OET, CGB)</td>
<td>Mobility Fund NPRM (WTB, WCB)</td>
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<td>Lifeline/Low-Income Joint Board Referral Order (WCB, WTB)</td>
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<td>Spectrum on Tribal Lands NPRM (WTB, CGB)</td>
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<td>E-Rate FY2011 Order (WCB)</td>
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<td>USF Merger Commitment Order (WCB, WTB)</td>
<td>Rural Health Care Reform NPRM (WCB)</td>
<td>USF Transformation NPRM (WCB, WTB)</td>
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<td>Lifeline Pilot Roundtable (WCB, WTB)</td>
<td>Lifeline Flexibility NPRM (WCB, WTB)</td>
<td>Intercarrier Compensation NPRM (WCB, WTB)</td>
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<td>FCC/DOA Workshop and PN on Converged Devices (OET)</td>
<td>Establish Accessibility and Innovation Forum (CGB, WCB, WTB)</td>
<td>USF Contributions NPRM (WCB, WTB)</td>
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<td>Launch FCC Office of Native American Affairs (CGB)</td>
<td>Real-Time Text NOI (CGB, WCB, WTB, OET)</td>
<td>Real-Time Text NPRM (CGB, WCB, WTB, OET)</td>
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<td>FCC-Native Nations Broadband Task Force (CGB)</td>
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<td>Internet Video and Device Accessibility NOI (CGB, WCB, WTB, MB)</td>
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<td><strong>Foster Competition and Maximize Consumer Benefits Across the Broadband Ecosystem</strong></td>
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<td>Mobile Wireless Competition Report (WTB, OSP)</td>
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<td>Small Business Broadband &amp; Wholesale Comp. NOI (WCB)</td>
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<td>Pole Attachments Order and FNPRM (WCB)</td>
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<td>Small Business Broadband &amp; Wholesale Comp. PN (WCB)</td>
<td>Special Access Workshop (WCB, WTB, OSP)</td>
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<td>Smart Video Devices NPRM (MB, OET)</td>
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<td>CableCARD NPRM (MB, OET)</td>
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<td>Transparency &amp; Disclosure NPRM (CGB, WCB, WTB, OET)</td>
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<td>Broadband Data NPRM (WCB, WTB, OSP)</td>
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<td>Launch Tech. Adv. Grp. on Speed &amp; Perf. (CGB, OET, WCB)</td>
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<td>Launch Speed and Performance Measurement Program (CGB, WTB, WCB, OET)</td>
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<td><strong>Advance Robust and Secure Public Safety Communications Networks</strong></td>
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<td>Public Safety Roaming &amp; Priority Access NPRM (WTB, PSFSB)</td>
<td>NG 911 NOI (PSFSB, OET, WCB, WTB)</td>
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<td>D Block Order/FNPRM (WTB, PSFSB) [Also in Mobile]</td>
<td>700 MHz Waiver Petitions (PSFSB, WTB, OET)</td>
<td>Back-Up Power NOI (PSFSB, OET, WTB)</td>
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<td>700 MHz Public Safety Order/FNPRM (PSFSB, WTB, OET)</td>
<td>Serv. Outage &amp; Homeland Security NPRM (PSFSB, OET, WCB, WTB, IB)</td>
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<td>ERIC Public Safety Interoperability Order (PSFSB)</td>
<td>Location Accuracy FNPRM (PSFSB, OET)</td>
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<td>Cybersecurity Certification NOI (PSFSB, WTB, OET, WCB)</td>
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<td>Survivability NOI (PSFSB, OET, WCB, WTB)</td>
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The Broadband Availability Gap

(OBI Technical Paper No. 1)

 Availability

Number of unserved and their proximity to current broadband infrastructure

Current state
• HFC, telco and wireless availability calculated independently
• Used best available data from commercial and government sources
• Filled data gaps with a statistical model

Future state
• Based on public announcements

7.0 million unserved homes

Funding shortfall

Funding required to induce operators to deploy ubiquitous broadband

Key principles
• NPV analysis
• Incremental economics
• Sufficiently granular
• Economies of scale
• Technologically conservative

Key decisions
• Fund only one network
• Market based disbursement
• Terrestrial coverage for all
• Account for 4G build out
• Proven use cases

$23.5 billion availability gap

Source: OBI Technical Paper No. 1 page 2
Broadband “Investment Gap”

Source: OBI Technical Paper No. 1 page 5
Investment Gap Per Household

Source: OBI Technical Paper No. 1 page 8
Investment Gap “Lowest-Cost Technology”

Source: OBI Technical Paper No. 1 page 12
“Lowest Cost” Technology

Source: OBI Technical Paper No. 1 page 13
Reasons For Cost Differences

• Definition of “Current State” coverage
  – Wireless (4G) and Cable footprint developed from commercial “coverage maps”
  – No current national data base for Wireline DSL
    • DSL coverage estimated based on Alabama data (partial MN and PA data)
    • Regression analysis based on relationship of DSL to demographic factors

• Wireless designed as “Fixed Wireless Access” (FWA)
  – High-powered CPE and external high-gain antenna
  – Tower coverage radius defined by fixed terrain relationships
  – Definitely not “Mobile Broadband”

• Rural consumers forever locked with 4/1 Mbps broadband
  – Limited speed and throughput of FWA architecture
  – No migration path for rural customers to higher broadband speeds

• Failure to realize the long-term benefits of fiber
Association Panel

NECA  Bob Gnapp
NTCA  Tom Wacker
OPASTCO  Randy Tyree
WTA  Derrick Owens
NCSTAE  Geoff Feiss (Montana Tel. Assn.)
Rural Group

• Objectives
  – Draw attention to harmful provisions of the NBP
  – Work with the FCC to identify constructive alternatives
    • Simply saying “no” is not an option
  – Conduct unified “Hill” advocacy efforts – speak with “one rural voice”
  – Involve members companies and other stakeholders and assist them with their advocacy efforts

• Current work teams
  – Comment Drafting
  – Broadband Assessment Model (BAM) Rebuttal
  – Advocacy and Outreach
  – Legislative

• Creating partnerships to support Rural Group objectives
  – Consultants
  – Engineers
  – Academics
  – State Associations
Work Team Membership

• **Comment Drafting Team**
  - Rick Askoff \text{NECA}
  - Jill Canfield \text{NTCA}
  - Gerry Duffy \text{WTA}
  - Dan Mitchell \text{NTCA}
  - Stuart Polikoff \text{OPASTCO}

• **Advocacy and Outreach Team**
  - Glenn Brown \text{Rural Alliance}
  - Joe Douglas \text{NECA}
  - Dave Duncan \text{ITA}
  - Geoff Feiss \text{NCSTAE and MTA}
  - Wendy Mann \text{NTCA}
  - Derrick Owens \text{WTA}
  - Randy Tyree \text{OPASTCO}
  - Tom Wacker \text{NTCA}

• **Model Rebuttal Team**
  - Glenn Brown \text{Rural Alliance}
  - Pat Chirico \text{NECA}
  - Wendy Fast \text{NTCA}
  - Victor Glass \text{NECA}

• **Legislative Team**
  - Adam Healy \text{NTCA}
  - Eric Keber \text{WTA}
  - Tammie Logan \text{NTCA}
  - Leif Oveson \text{NTCA}
  - Derrick Owens \text{WTA}
  - Randy Tyree \text{OPASTCO}
  - Tom Wacker \text{NTCA}
Advocacy and Outreach

• Mission -
  To reach out to other stakeholders who are negatively impacted by the National Broadband Plan, educate them on what the Plan means to them and their constituents, and encourage them to become actively involved in advocating to the FCC, Congress and other key policymakers for necessary Plan reforms

• Key Strategies
  – Identify key rural stakeholders at the state and national level
  – Convince them to get involved to help redirect the NBP
  – Involve the state associations as key players in this dialogue
  – Educate, empower and involve RLEC employees in this critical advocacy effort
Advocacy Tools

• Messaging Tools:
  – Potential Stakeholder Lists
  – Talking Point Outlines
  – PowerPoint Presentations
    • General Audiences
    • Telco-Focused Audiences
  – Draft Letters
  – Draft Comments
  – Draft Op-Ed Pieces
  – An On-Line Library of Letters, Comments, Articles, etc.
  – An On-Line Forum for Information Exchange
Advocacy Tools

• Resource web links
  – www.ntca.org/nbpreloadcenter/
  – www.opastco.org/site/advocacy/nbp/
  – www.w-t-a.org

• If you need information, ideas, or help contact one of us:
  
<table>
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<tr>
<th>Organization</th>
<th>Contact Name</th>
<th>Email</th>
<th>Phone</th>
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<tr>
<td>NECA</td>
<td>Bob Gnapp</td>
<td><a href="mailto:rqnapp@neca.org">rqnapp@neca.org</a></td>
<td>800-892-3322</td>
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<tr>
<td>NTCA</td>
<td>Tom Wacker</td>
<td><a href="mailto:twacker@ntca.org">twacker@ntca.org</a></td>
<td>703-351-2039</td>
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<td>OPASTCO</td>
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<td>202-659-5990</td>
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<td>NCSTAE</td>
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<td>406-442-4316</td>
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<tr>
<td>Rural Alliance</td>
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<td>928-284-3315</td>
</tr>
<tr>
<td>WTA</td>
<td>Derrick Owens</td>
<td><a href="mailto:derrick@w-t-a.org">derrick@w-t-a.org</a></td>
<td>202-548-0202</td>
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• If we don’t have what you need we’ll find someone who does!
Potential Advocacy Partners

- Congressional Delegation
- State Commissions
- NARUC
- State Legislature
- Governor’s Office
- Government Organizations (ALEC, NCSL, NGA, NAC, etc.)
- Rural Economic Development Organizations
- RLEC Suppliers
- RLEC Lenders
- Agricultural Groups
- Mining, Timber, etc. Groups
- Rural Health Care Groups
- Schools, Libraries

- Chambers of Commerce
- Local Newspapers
- Local Government Officials
- Local Business Groups
- Civic Organizations (Rotary, Kiwanis, etc.)
- Library Associations
- Educations Organizations
- Consumer Groups
- Etc., Etc., Etc.
What We Need From You

• Reach out to business and government leaders and discuss what the NBP will mean to rural America

• Ask rural stakeholders to write to the FCC and Congress
  – Rural areas must have access to broadband services comparable to those available in urban areas
  – Amend NBP to support continued investment in rural broadband

• Generate as much input as possible by August 5
  – NECA, NTCA, OPASTCO and WTA will be filing joint comments in the FCC’s NOI/NPRM on July 12
  – Reply comments are due August 12
  – We need to show broad support to amend the NBP in our replies

• **STAY ON MESSAGE!!**
  – Consistency of message will be critical to our success
What You Can Do

1. **Get personally involved in improving the NBP!!**
   - Learn about the issues (familiarize yourself with the advocacy tools)
   - Develop a game plan

2. **Educate employees and directors on what is at stake**
   - For them personally, as well as for their community’s long-term vitality
   - Provide them with talking points, draft letters, etc. (personalized, if possible, for your community and local economy)

3. **Reach out locally**
   - Local newspapers, local officials (legislators, mayors, county executives, etc.), civic and business organizations, schools, libraries, etc.
   - Don’t forget your local vendors and suppliers
   - Encourage organizations to communicate with their national offices (if appropriate)
   - Your goal is to generate editorials, op-ed pieces, letters to the FCC and Congress, and other support for rural broadband availability
What You Can Do

4. Reach out statewide
   – Partner with other RLECs in your state (state assn. or ad hoc)
     • Sign on to concur with the RLEC association comments
   – Meet with your State Commission
     • Do so prior to NARUC meetings that begin July 18
   – Meet with your Governor’s office and legislative leaders
   – Meet with statewide economic development, business, education, health care and other groups with an interest in broadband availability

5. Reach out to Washington, DC
   – Let your Congressional delegation knows where you stand
     • Share local input that you are able to generate
   – Let the FCC Commissioners know that the NBP must be amended to address rural broadband needs
     • But leave Bureau contacts to the national associations
What You Can Do

6. Send copies to the DC Advocacy Team
   – We need as much as possible by August 5 for FCC’s NOI/NPRM
     • But keep working, this is just the first battle (albeit an important one) in what will likely be a long war for rural America
   – Send copies of letters, articles, and whatever else you are able to generate in support of NPB reforms to:
     • The national RLEC association you primarily work through (i.e., NTCA, OPASTCO or WTA); and
     • NBP@rural-alliance.org
       – So that we can have a single data base containing all rural stakeholder letters, filings, articles, etc.
Questions & Answers
Conclusion

• We appreciate your interest and participation

• Encourage your employees, directors, vendors, elected officials and other stakeholders to get educated and get involved

• Together we can be powerful agents for needed changes in the NBP