

**Before the
Federal Communications Commission
Washington, DC 20554**

In the matter of)
)
Requests for Waiver of Various)
Petitioners to Allow the Establishment) PS Docket No. 06-229
of 700 MHz Interoperable Public Safety)
Wireless Broadband Networks)

Submitted: ~~July 18~~ August 28, 2011

**QUARTERLY REPORT #5 OF THE STATE OF TEXAS
PUBLIC SAFETY LTE BROADBAND NETWORK**

The State of Texas (“State”) hereby submits to the Federal Communications Commission (“Commission”) this quarterly report as required by both the Commission’s *Waiver Order*¹ and the *Texas Waiver*.² The State was granted a waiver by the Commission for early deployment of a public safety broadband Long Term Evolution (“LTE”) network in the 700 MHz spectrum. This report amends the original version submitted July 18, 2011 in response to a request from the Bureau to add additional deployment information. This report provides the Commission and PSST with a status update on its efforts to deploy a Public Safety LTE (“PS LTE”) network in the State of Texas. ~~This~~ The original Quarterly Report ~~has~~ and this amended version have been prepared in consultation with the Chairman of the Public Safety Spectrum Trust (PSST). Although this is the first time Texas has submitted a Quarterly Report, we have been directed to use the reporting schedule of the other 20 waiver entities and therefore have titled this report “Quarterly Report #5” to ~~conform~~ remain consistent with the other submissions ~~of the other waiver entities.~~

¹ See “*Waiver Order*” FCC 10-79, at ¶63-64, PS Docket No. 06-229, released May 12, 2010.

² See “*Texas Waiver*” DA 11-863, ¶63-64, PS Docket No. 06-229, released May 12, 2011.

The State of Texas will deploy a 700 MHz interoperable public safety wireless broadband LTE network which complies with FCC orders, and will implement the statewide network in phases, beginning with the BIG-Net -project as the first phase being implemented for the Houston metropolitan and coastal region. As a state which has historically led the nation in annual federally-declared ~~disaster~~ ~~declarations~~disasters, Texas is dedicated and committed to statewide cooperation and a collaborative effort in building and operating public safety LTE infrastructure to provide the highest level of prevention, protection, response, and recovery from acts of terrorism and other catastrophic events in the State and nation.

Additional background and detail are provided in the ~~recently submitted~~August 17, 2011 *State of Texas Public Safety LTE Interoperability Showing*, submitted to the Commission on ~~July 11~~August 19, 2011 and therefore ~~are~~ not repeated here. Please reference this document for additional information.³

I. PLANNING

The State has not yet developed or received any specific date information regarding the issuing of RFI/RFPs, however tremendous focus has been dedicated to providing agency entities within the State with the guidance and code of practice information needed to begin RFI/RFP development. The State has initiated a series of projects, forums and a network architecture working group so that the State and its agency partners can develop the expertise and knowledge needed to develop cohesive RFI/RFP and planning documents that ensure future PS LTE deployments support the state, regional and national objectives for openness, cost effectiveness, functionality and interoperability.

In examining the challenges associated with achieving the goals stated above, the State of Texas realized that a vitally important endeavor would be to bring together the leading equipment manufacturers into a forum that would enable the State to achieve their objectives. To this end, the State of Texas announced that it would be hosting a series of Region VI Public Safety LTE Interoperability Forums (“Forums”) expressly for the purpose of addressing the issues associated with achieving ~~an early~~ ~~and~~,

³ The Texas Interoperability Showing can be found on the FCC website: <http://fjallfoss.fcc.gov/ecfs/comment/view?id=6016827164>

multi-vendor PS LTE ~~deployment~~deployments in the State. The first Forum, held in Austin May 23, 2011 presented a clear view of the some of the most important questions to ask. Subsequent Forum sessions along with sponsored working groups will pursue answering those questions, enabling the State to tackle the key issues and challenges most effectively.

In order to maintain momentum toward achieving the overall goals stated, the State of Texas recently ~~announced~~held the ~~date and location of the next~~second Region VI Public Safety LTE Interoperability Forum ~~to be held~~ in Albuquerque, NM on July 21, 2011, reflecting the State's intention to work directly with regional partners such as New Mexico.

As part of the planning process, the State routinely engages in productive dialog and coordination with the City of San Antonio, another 700 MHz waiver recipient, and who has the State's full support. In addition to the regular dialog, the City of San Antonio leaders have participated in a number of key sessions such as the Region VI Regional Emergency Communications Coordination Working group (RECCWG) Summit held on April 26, 2011 and the May 23, 2011 Public Safety LTE Interoperability Forum, described above.

A representative from the City of Fort Worth ("City") has notified the State that the City procured a Motorola "lower core" and two eNodeB sites. That same individual participated in a number of key sessions such as the Region VI Regional Emergency Communications Coordination Working Group (RECCWG) Broadband Summit held on April 26, 2011, as well as the two Region VI Public Safety LTE Interoperability Forums, described above. The Fort Worth representative inquired about the State's application process for the City of Fort Worth to be granted authority to operate under the State's FCC broadband waiver. The State intends to have its intra-state application process finalized and published no later than December 1, 2011, and will share it with the City of Fort Worth at that time.

To help facilitate open dialog and sharing among interested parties across the nation, the LTE Forum has an established a DHS First Responder Communities of Practice website, enabling the State to efficiently share information, ask questions and communicate with our stakeholders.

II. FUNDING

The State of Texas is in the process of developing build-out plans and associated funding strategies for its PS LTE network. The initial BIG-Net system deployment is being funded through a DHS FY 2006 Port Security Grant Program (PSGP) award of \$7.6 million received by Harris County and which has a performance period ending in August of 2011. The State of Texas has also received a \$750K Regional Catastrophic Planning grant with an additional \$250K of matching funds provided by the State. Harris County applied for a round two NTIA Broadband Technologies Opportunities Program (BTOP) grant, but ~~Harris County~~ did not receive a grant award.

III. DEPLOYMENT

~~As of the date of this document, Harris County is working to prepare for recently completed the initial BIG-Net, Phase 1.0 testing. The initial Phase 1.0 deployment consists, and over the air testing of an LTE Evolved Packet Core (EPC), six eNodeB sites and approximately 15 fifteen test USB Dongle devices. The milestones for that deployment are summarized below and are pending approval Texas has received a Special Temporary Authority (STA) license from the Commission FCC to commence allow test operation:~~

~~BIG-Net Trial Phase 1.0 – Deploy 6 sites – Target Date: 7/31/ valid for July 15, 2011~~

~~BIG-Net Trial Phase 1.1 – Deploy 1 Mobile site, total of 7 sites – Target Date: 8/19/2011~~

~~BIG-Net Trial Phase 1.2 – Deploy 25 sites, total of 30 sites – Target Date: 6/1/ through January 15, 2012.~~

~~Pursuant to the Texas Waiver Order, the State of Texas also submitted a Texas Interoperability Showing to the Bureau, which is pending approval. Additional deployment details are provided in the table below.~~

State of Texas eNodeB Site Deployment	TOTAL Number of eNBs by Phase	TARGET OTA Test Operation	ACTUAL OTA Test Operation	TARGET Date of Service Availability
BIG-Net OTA Testing - Phase 1.0: Deploy 6 sites	6	7/15/2011	7/26/2011	8/1/2012
BIG-Net OTA Testing - Phase 2.0: Deploy 11 sites	17	7/6/2012	TBD	8/1/2012
BIG-Net OTA Testing - Phase 2.1: Deploy Mobile Unit (CoW) - 1 site	18	7/20/2012	TBD	8/1/2012

v7.1

CoW - Cell on Wheels

The initial phases of BIG-Net build-out willis expected to be comprised of 30 to 3118 eNodeB sites and as of the date of this document, no obstacles or inhibitors, such as obtaining rights of way or equipment delivery delays, have been identified which could delay deployment. Since deployment plans and implementations will likely remain highly fluid, the State will continue providing additional information and updates to this information in future Quarterly Reports.

As directed by the December 2010 Interoperability Order (10-2342), the State of Texas is hereby providing notice to the Bureau of the need for a permanent PLMN ID⁴ for the State of Texas. It is understood this PLMN ID may not and need not be unique to Texas.

The initial deployment includes the following applications which will be further refined as the needs and requirements of the end users are gathered and compiled. The initial phase of BIG-Net will, at a minimum, support: internet access, authorized VPN access, status/information “splash” homepage, ICS access and database queries.

As of the date of this document, no specific plans or purchases have been made for upgrading the initial PS LTE equipment being deployed. As the strategic plan for the State is developed these plans will be articulated and communicated in updates to the Quarterly Reports and Interoperability Showings.

Finally, the State of Texas confirms that all eligible public safety entities within the State of Texas will be offered service and access to the Public Safety LTE network.

Respectfully Submitted for the State of Texas,

/s/ Michael Simpson

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⁴ PLMN ID is the Private Land Mobile Network Identifier, also referred as a Home Network Identifier (HNI)