

Executive Summary

Mesa Broadband, LLC (“Mesa”), [REDACTED] is applying for a loan under the Broadband Initiatives Program to provide broadband to 12 rural communities in Central Texas. [REDACTED]

[REDACTED] Mesa is requesting a \$5,000,000 BIP loan to fund the overall infrastructure cost of the broadband system. The system will be a WiMax-based network reaching 4,500 households and 250 businesses and community anchor institutions across 1,020 square miles [REDACTED]

Mesa will fund the deployment of two additional rural Texas communities in its first year of operation, [REDACTED]. The network is designed to provide 3 Mbps Internet service [REDACTED] to the potential customers in these areas, and can be readily upgraded to accommodate increased bandwidth demand or additional customer penetration.

[REDACTED] These communities are small and rural averaging 371 households per service area. They are underserved, with broadband generally not available to most of the population. They are economically challenged, with average household income of just \$25,972 and 19.88% of the households living in poverty. They are not “remote” as that term is defined in the NOFA, but you can’t help but think of them as being set apart from the rest of the world. [REDACTED]

Based on our experience with a nearly identical project [REDACTED] we are certain that Mesa will:

- Offer a 3 Mbps broadband [REDACTED];
- Create eight full-time and four part-time jobs at a total annual cost of \$690,000;
- [REDACTED];
- Build a WiMax [REDACTED] network [REDACTED] in each community, with all communities deployed in 2010;

- Provide the Customer Premise Equipment (“CPE”) needed for implementation of the project [REDACTED] at no cost to the end user, allowing the significant population living at the edge of poverty in these communities to gain access to the Internet; (See System Design for more detail.)
- [REDACTED]
- [REDACTED]
- Build a [REDACTED] licensed wireless transport network [REDACTED] to connect the community networks to the Internet POP and network operations center [REDACTED]; [REDACTED]
- Attain positive cash flow within 1 year of launch in each service area.

Product Offering

Mesa will offer the product package [REDACTED]:
 Broadband [REDACTED]

- Broadband Internet (3 Mbps down/1.0 Mbps up)

System Design Overview

- **Point of Presence** – [REDACTED] The POP will also be the peering facility to connect to multiple Tier-1 Internet providers and the wireless transport ring.
- **Transport** – A wireless [REDACTED] licensed transport ring extending from the POP [REDACTED] will connect the service areas. Nine of the service areas will be nodes on the ring and will have two different connection points to provide redundancy, three of the service areas will be served by extensions from the ring. [REDACTED]
- **Access** - A broadcast tower in each community will support a next generation [REDACTED] WiMax base station [REDACTED] in the communities with the ability to deliver 6 Mbps (but configured to provide 3 Mbps for most customers).

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Jobs Created

This project will create 34 jobs in the following areas:

Direct

- 2 market managers
- 2 sales/marketing executives
- 2 field operations technicians
- 1 network operations technicians
- 1 customer care & billing clerk
- 2 office/admin

Indirect and Saved

- 2 Equipment Manufacturing
- 4 Equipment Distribution
- 18 Tower/Radio Installation

Interconnection and Non-Discrimination Policy

[REDACTED]

In keeping with the FCC's Internet Policy, Mesa agrees to provide its users with access to the lawful content of their choice; allow its users to run applications and use the services of its

choice; connect their choice of legal devices to the network; and provide a choice among network providers, application and service providers, and content providers.