



Executive Project Summary

Farmers Coop Telephone Company (FCTC) of Dysart Iowa has developed plans to deploy highspeed broadband service to the rural areas located in the exchange. FCTC is located at 332 Main Street Dysart, IA. The exchange extends north to V37 along count road 21, east to highway 218, south to E43, and west to N avenue, resulting in a service area of approximately 152 square miles. Within the exchange there are two schools, 304 businesses, 1211 households with a population of 2753.

Work is currently underway to install fiber within the town limits of Dysart. The rural areas in the exchange are currently being provided service via Digital Subscriber Line (DSL). DSL is limited on the maximum speeds that can be provided and are affected by distance from the node. References to fiber optic cable being available in the rural area refer to transport between other exchanges or to cellular towers located in the exchange. It appears that the presence of transport fiber optic cable in the exchange has not allow these areas to be designated as Targeted Service Areas. A challenge has been submitted to have the areas listed on the TSA Input tab redesignated as Targeted Service Areas.

FCTC has plans to extend broadband access to the rural areas of the exchange by making high speed fiber services available to all homes, schools, and businesses in the exchange area. The broadband service would be provided by using Active Ethernet. This will provide dedicated fiber optic fiber from the Central Office (CO) to the subscriber. This will make available Gigabit symmetrical service to all subscribers. For businesses or institutions, such as government or schools, the require higher data rates, up to 10 Gigabits can be provided. Once installed, voice, data and video can be provided to all subscribers. Installation of the fiber optic cable will be performed by using a combination of plowing and directional boring. Boring will be employed to cross paved road, streams, culverts, underground utilities, and other areas where plowing is not possible.

In reference to Iowa Code section 8B.11, FCTC will make service available to all homes, farms, schools, and businesses in the area describe above.

FCTC will also meet all requirements set forth in Iowa Administrative Code rule 129-22 as it pertains to mapping, reimbursement record keeping, network performance and field testing.

Granting funding would allow work to begin on the design and build of the project for the rural areas of the exchange in 2021. Without funding it is unlikely that FCTC will have the means to upgrade facilities, until funding is available. Some early planning and initial maps have been drawn in-order to obtain material lists, and distances to develop the initial cost estimate. This work will be used as the starting point for the development of the final design and schedule of the project.