

Broadband USA Applications Database

Applicant Name: Tanadgusix Corporation

Project Title: St. Paul Island, Alaska Broadband Project

Project Type: Last Mile Remote

Executive Summary

a. Opportunity the proposed system seeks to address. This project seeks funding as BIP last mile remote and as BTOP Infrastructure last mile to bring broadband access to the residences, businesses and anchor facilities. St. Paul is an economic disaster area locked in a steep decline in population. This project will immediately stop the population loss by providing the necessary broadband capacity to create 30 new telework jobs digitizing federal documents. b. General Description of the proposed funded service areas (location, number of communities etc) The proposed funded service area is the community of St. Paul Island, Alaska. This includes the harbor area and the airport/POSS camp area, which are the only residential and business areas on the island (hereafter collectively referred to as St. Paul). St. Paul lies at 57.122220 N, and -170.275000 W, 265 miles north of the Aleutian Islands and 300 miles west of the Alaska mainland. c. Number of households(177) and businesses (8) passed. According to the 200 Census there are 177 households in the service area, all will be passed. There are 8 businesses in the service area, all will be passed. 100% of all households and businesses in the service area passed will have broadband access. d. Number of community anchor institutions public safety entities, and critical community organizations passed and / or involved with project (e.g. health care education , libraries etc). There are 7 community anchor institutions, all will be passed and have access to broadband. Letters of support have been provided by the clinic, fire and city/police. TDX owns and maintains the SAR helicopter hanger and will provide broadband access to that facility. e. Proposed services and applications for the proposed funded service areas and users. This project will construct a fiber optic plant, backbone and transport capacity delivering broadband access to all households, businesses, and community anchor institutions in St. Paul. Outside the grant, TDX will double its purchase of Broadband service to 8Mbps downlink. The project will be triple play capable when completed. TDX will contribute additional infrastructure outside the grant to provide TV access over the fiber optic plant. As in the past TDX will offer TV and internet services in the community utilizing the fiber optic plant. TDX does not plan to offer Voice service. However the system is open to that capacity upgrade. TDX will aggressively pursue an openness policy to encourage third party providers of triple play services over the system. f. Approach to addressing the non-discrimination and inter connection obligations. Openness nondiscrimination and inter-connection obligations will be carried out by a high level TDX Director, Julie Shane. Julie Shane will serve as the Openness Non-discrimination and Inter-connection Director. She will implement all policies required by the grant and seek to find partners to deliver services over the system in St. Paul. TDX has operated these services on St. Paul as a subsidy and TDX policy has always been openness, non-discrimination and inter-connectedness where the community can benefit from expanded services and expanded economy. g. Type of broadband system that will be deployed (network

type and technology standard). The project will deploy a fiber optic backbone and plant throughout the harbor and airport areas of St. Paul. The plant will be capable of delivering 100 megabit symmetrical services, built around a 10Gig backbone router interface. The project will utilize Lite Access Technologies, Inc's MicroDuct fiber products in an optical fiber plant with expandable capability to handle voice and video. The project will utilize TDX satellite service LBiSat providing 8 Mbps downlink and 2Mbps uplink by increasing the modem and, outside the grant, TDX will be doubling its bandwidth purchase from LBiSat. h. Qualifications of the applicant that demonstrate the ability to implement and operate a broadband infrastructure and /or be a sustainable broadband services provider. Tanadgusix (TDX) corporation has been providing internet service on St. Paul Island for several years operating its own earth station, backbone and copper coaxial plant. TDX will utilize its subsidiaries with expertise in internet connectivity (TDXNet, LLC an 8(a) and in fiber optic construction (Bering Sea Eccotech, Fiber and Cable Division) to implement this project. TDX is a seasoned contractor with over \$59 million in contracting revenues in 2008. Bering Sea Eccotech is a seasoned Defense Department Contractor. TDXNet's CIO is a Project Management Professional who has provided extensive Network support to National Science Foundation infrastructure in remote research stations in the Arctic. TDX through its Island Services will implement lessons learned from its history of operating a copper coaxial plant on St. Paul that has deteriorated from the harsh weather and improper installation around volcanic rock outcrops. Installation of the fiber optic plant will utilize a rocksaw purchased under this grant in the course of the fiber build out to address the volcanic rock outcrops. i. Overall infrastructure cost of the broadband system. \$1,476,443. j. Overall expected subscriber projections for the project It is anticipated that the system will have 125 sustainable subscribers upon completion of the project, despite last decades of steep annual population declines. The 30 new IITC telework jobs that will be created by broadband access will provide long term stimulation for St. Paul's economy and stabilizing the population. k) Number of jobs estimated to be created or saved as result of this project. See 10 e This project will immediately create at least 30 full time jobs. TDXNet has a federal (IITC) contract to digitize documents for the Department of Defense. The internet infrastructure on St. Paul has been so degraded that his project cannot be carried out to capacity without broadband. The project has at times, been forced to deliver products by postal service. St. Paul has been experiencing population decreases of 14 persons annually for several years. This project will stop that population loss. This project will result in a new jobs (30 non-speculative) to current population (approx 450) ratio of 1:15.