2013 Legislature TPS Report 55571v2

Agency: Commerce, Community and Economic Development

Grants to Named Recipients (AS 37.05.316)

Grant Recipient: Alaska Gateway School District Federal Tax ID: 920058369

Project Title: Project Type: Remodel, Reconstruction and Upgrades

Alaska Gateway School District - Lighting Efficiency Upgrade and Equipment Replacement

State Funding Requested: \$117,000 House District: 39 / T

One-Time Need

Brief Project Description:

To reduce the energy consumed by the lighting in Tok School, the parking lot/exterior lighting and the multipurpose building. Replace worn out equipment at the Mentasta Lake Katie John School that presents a safety hazard.

Funding Plan:

Total Project Cost: \$130,000
Funding Already Secured: (\$13,000)
FY2014 State Funding Request: (\$117,000)
Project Deficit: \$0

Funding Details:

The district will utilize local funds to complete the project.

Detailed Project Description and Justification:

The Energy Upgrades include the following:

- >Replace the existing T12 lamps and magnetic ballasts with new energy efficient LED lights with electronic ballasts.
- >Replace the gymnasium metal halide lights with new fluorescent fixtures that utilize LED lights.
- >Install occupancy sensors to automatically turn off the lighting in un-occupied rooms.
- >Replace the parking lot and exterior lighting with fixtures that utilize LED's as the light source.
- >Replace the multipurpose building lighting with fixtures that utilize LED's as the light source.
- >The lighting upgrades described above usually have a 3 or 4 year payback in Montana. The payback in Tok will be much shorter since the energy rates are much higher.
- >Retrofitting the lighting could reduce the lighting load by roughly 30%. The lighting in a typical school building consumes roughly 30% of the total energy consumption.
- >The district paid \$264,544 in FY12 for electricity so 30% of the overall energy, for lighting, would equate to \$79,363.
- >A 30% reduction in lighting costs, from the \$79,363 at current electrical rates, is a savings in lighting energy equating to approximately \$23,809 per year.
- >The payback for this project thru the savings produced by reducing energy costs is approximately four years.
- >Lighting upgrades could be put out to bid and completed by an outside contractor or be performed by the summer district maintenance crew.

Page 1

The playground equipment at Mentasta Lake Katie John School needs to be repaired or rebuilt each summer by the

\$117,000 \$Approved

For use by Co-chair Staff Only:

Contact Name: Paul LaBolle Contact Number: 907-465-3789 2013 Legislature TPS Report 55571v2

maintenance department because the equipment is worn out; has reached the maximum usage age; and safety concerns are beginning to arise. Some of the playground structures are built from wood and repairs are no longer an option. The district has received appropriations for Walter Northway School in 2008, Tok School in 2009 and Dot Lake School and Tanacross School in 2010 to replace and/or upgrade these school playgrounds. The District also used local funds to replace the playgrounds at Tetlin School and Eagle School in the summer of 2011. This past summer Tok School utilized grant funding from various organizations, as well as a District matching funds, to purchase additional playground equipment which the District installed after removing the outdated sections. (A-3 & A-4) The only remaining school needing a playground replacement is located in Mentasta. Attached is a picture of the playground structures (A-1) and a quotation (A-2) for the playground equipment from the summer of 2011. The same playground would be installed as all other sites within the district. The District will utilize local hire and/or summer maintenance staffing to install the purchased playground equipment.

Project Timeline:

The project was approved during the January 17, 2011 Regional School Board meeting; at the January 16, 2012 Regional School Board meeting; and at the January 21, 2013 Board meeting.

The project would begin as soon as the appropriation was awarded and be completed by the end of October, 2013. All funds would be spent by June 30, 2014.

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

Alaska Gateway School District

Grant Recipient Contact Information:

Name: Todd Poage
Title: Superintendent

Address: 1313.5 Alaska Highway

Tok, Alaska 99780

Phone Number: (907)883-5151 Email: tpoage@agsd.us

Contact Name: Paul LaBolle Contact Number: 907-465-3789

Has this project been through a public review process at the local level and is it a community priority? X Yes No

Page 2



PROJECT: Alaska Gateway School District:

Biomass Boiler

ATTENDEES: Todd Poage, Scott MacManus, Rex Goolsby, Chris Rouch- AGSD; Nathan Ratz, Alan Bronec -

CTA

DATE: November 5, 2010

(11:00am Alaska)

Energy Upgrades

1. The potential to save energy in the existing school and hockey rink was discussed. Alan Bronec toured the existing school building and hokey rink and found that there are numerous opportunities to reduce the energy consumed by the lighting. The following was discussed:

- a. Replace the existing T12 lamps and magnetic ballasts with new energy efficient T8 lamps and electronic ballasts.
- Replace the gymnasium metal halide lights with new fluorescent fixtures that utilize T5HO lamps.
- c. Install occupancy sensors to automatically turn off the lighting in un-occupied rooms.
- d. Replace the parking lot and exterior lighting with fixtures that utilize LED's for the light source.
- e. Replace the hockey rink lighting with fixtures that utilize LED's for the light source.
- 2. The lighting upgrades described above usually have a 3 or 4 year payback in Montana. The payback in Tok will be much shorter since the energy rates are much higher in Tok.
- 3. The ice rink is utilized approximately 30 hours per week and 36 weeks per year.
- 4. Retrofitting the lighting could reduce the lighting load by roughly 30%. The lighting in a typical school building consumes roughly 30% of the total energy consumption.
- 5. Lighting upgrades could be put out to bid and completed by an outside contractor or be performed by the school maintenance staff. Need to verify that work does not have to be performed by a licensed electrician.
- 6. CTA will prepare a fee proposal to prepare engineering documents for the proposed lighting upgrade.
- 7. Scott asked if stagger starting the motors in the school building will reduce the peak monthly demand charge. CTA will verify how APT calculates the demand charge. Most utilities calculate the peak demand by measuring the average power consumed over 15 minute periods during the monthly billing cycle. The peak demand is the highest average power used over a 15 minute period during the month. Although motors have a starting current that is 5 or 6 times higher than the running current, stagger starting will not reduce the peak demand for the building since the starting current only occurs for duration of a second or two. The power consumed during this short duration is insignificant when compared to the 15 minute window that the demand is calculated.

New Welders

1. The school has constructed five new welding stations on the south wall of the welding room. Five used Miller Dialarc 250 welders have been donated to the school and set in place at each station but no electrical has been installed at this time.



November 9, 2010

Mr. Todd Poage, Superintendent Alaska Gateway School District P.O. Box 226 Tok. Alaska 99780-0226

Re: Lighting Audit Fee Proposal

Dear Todd:

As we discussed in our meeting on November 5th, 2010, we feel that there are numerous opportunities to reduce the energy consumed by the lighting in the Tok school building and the hockey rink building. During our site visit we observed the following potential energy savings upgrades:

- 1. Replace the existing T12 fluorescent lamps and magnetic ballasts with new energy efficient T8 fluorescent lamps and electronic ballasts.
- 2. Replace the gymnasium metal halide lights with new fluorescent fixtures that utilize T5HO fluorescent lamps.
- 3. Install occupancy sensors to automatically turn off the lighting in un-occupied rooms.
- 4. Replace the parking lot and exterior lighting with fixtures that utilize LED's for the light source.
- 5. Replace the hockey rink lighting with fixtures that utilize LED's for the light source.

We have implemented these upgrades on numerous other schools and have found them to reduce the lighting energy by 30% or more with a typical payback period of 3-4 years. A 30% reduction in the lighting energy will reduce your annual energy bills by \$12,000 to \$15,000.

Per your request, we have prepared the following fee proposal to perform a lighting audit for the school and hockey rink building. The scope of work for this audit will include the following:

Scope of Work:

- 1. Review the existing as-built plans for the school and prepare a spreadsheet that includes the following information:
 - a. Existing and proposed upgraded lighting in each room or space.
 - b. Hours of operation for the lighting in each room or space.
 - c. Estimated kW and kWH usage for the existing lighting and proposed lighting in each room or space.
- 2. Prepare an estimated cost for each proposed upgrade and calculate a simple payback for each upgrade.
- 3. Prepare specifications for each proposed lamp, ballast, and fixture. These specifications along with the spreadsheet described above will provide enough information for the school maintenance staff to perform the proposed upgrades.

AGENDA ALASKA GATEWAY SCHOOL DISTRICT

REGIONAL SCHOOL BOARD MEETING

District Board Room -Tok, Alaska Monday, January 17th, 2011 6:00 PM Regular Meeting

Mission: "Educating all students to reach their full potential as responsible citizens."

CALL TO ORDER President

ROLL CALL Secretary-Treasurer

PLEDGE OF ALLEGIANCE President
OATH OF OFFICE President

ROLL CALL Secretary-Treasurer

HEARING OF VISITORS ON AGENDA ITEMS¹ President
RECEIVING OF DELEGATIONS President
PRESENTATIONS President

Business Financial Administrative System

ACTION ITEMS - ROUTINE MATTERS

1. Approval of Agenda President
2. Approval of Minutes President
ACTION ITEMS - OLD BUSINESS President

President

ACTION ITEMS - NEW BUSINESS

- 3. Business Financial Administrative System
- 4. Welder Circuits Bids
- 5. Eagle and Tetlin Playgrounds Legislative Capital Project Request
- 6. Tok School Welder Circuits Legislative Capital Project Request
- 7. Tok School Energy Upgrade Legislative Capital Project Request
- 8. Multipurpose Building Heat Loop Legislative Capital Project Request
- 9. Section IV Seat G Board Vacancy
- 10. ASB Principal Evaluation Form
- 11. Tok School World Classroom Club Out-Of-State Travel Request
- 12. Walter Northway School HSGQE Student Waiver

REPORTS/INFORMATION/DISCUSSION

Superintendent's Report

Financial Report

Executive Director's and Directors' Reports

Principals' Reports

Advisory School Board Minutes

Correspondence/Miscellaneous

Superintendent

Superintendent

Superintendent

HEARING OF VISITORS ON NON-AGENDA ITEMS¹ President DISCUSSION, COMMENTS, QUESTIONS BY MEMBERS OF THE BOARD President

Bus Contracts Student Activities

Student Class Advancement

FUTURE MEETING DATES President
SUGGESTED AGENDA ITEMS President
EXECUTIVE SESSION-- Matters Required to be Confidential by Law
ADJOURNMENT President

¹All members of the public that would like to comment on any matters during Hearing of Visitors on Agenda Items or Hearing of Visitors on Non-Agenda Items need to sign-in with the Board Secretary. The Board President will call on each member of the public in the order he or she signed-in as the meeting progresses to that section of the agenda.



TETLIN SCHOOL

TETLIN, ALASKA

15020290-1-6-1

10/28/2010









PO Box 1160
Cedar Crest, NM 87008-1160
Phone: (505) 281-0151
Fax: (505) 281-0155
Toll Free (800) 457-5444
Email: michelle@exerplay.com
Visit www.exerplay.com



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QUOTATION

MM102610-1	10/26/2010
NUMBER	DATE

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SUED TO	ORDER TO BE ISSUED TO	HASE OR	PURCHASE		SS	NAME / ADDRESS	NAM

Contact the newsroom at newsroom@newsminer.com or 459-7572

Tuesday, September 4, 2012

A New Place TO Play

Photos by Aliza Sherman Risdahl

TOK — Children romped and climbed and teeter-tottered and slid under a nearly cloudless vibrant sky at Tok School recently.

Nothing too special about that, right?
Ah, but this was no ordinary day at Tok
School. This was the official opening of the
new playground, full of red, white and blue
equipment that had a distinctly modern look.

Nearly 100 community members, mostly parents, students and teachers, attended the ribbon cutting that opened the playground. The playground is the only one in the area, so it serves the school and the wider community.

Carrie Beeman, secretary-treasurer of the Tok PTSA, said a few words and thanked all the contributors to the project, including the Rasmuson Foundation, which gave \$15,000 with the requirement for some matching funds. A little more than \$88,000 was raised to pay for the new playground. Todd Poage, superintendent of the Alaska Gateway School District, cut the ribbon, sending about 40 children rushing to the playground.

 Information provided by Aliza Sherman Risdahl in Tok.



Becky Wade, Tok PTSA president. and Carrie Beeman, Tok PTSA secretary/treasure watch as Todd Poage, superintendent of the Alaska **Gateway School** District, cuts the ribbon for the new Tok School playground. The playground is the only one in the area, so it serves the school and the wider community.





