

ANCHORAGE SCHOOL DISTRICT

ANCHORAGE, ALASKA

ASD MEMORANDUM #221 (98-99) March 22, 1999

TO: SCHOOL BOARD

FROM: OFFICE OF THE SUPERINTENDENT

SUBJECT: PROJECT APPROVAL — DISTRICTWIDE Y2K COMPLIANCE
FOR ENERGY MANAGEMENT

RECOMMENDATION:

It is the Administration's recommendation that the School Board approve the establishment of a Major Maintenance project for Districtwide Y2K Compliance for Energy Management and authorize current year expenditures against the FY 2000 operating budget after approval by the Assembly in the amount of \$311,000. In addition, the Board authorizes the Superintendent to proceed with the procurement of necessary equipment and to award one or more contracts to begin the Energy Management System Y2K compliance upgrades.

PERTINENT FACTS:

With the inexorable march of time toward the new century, some of the District's oldest building control and energy management systems remain to be upgraded to remove the "Millennium Bug" to continue functioning in the year 2000 and beyond. Funding to accomplish this hardware and software upgrade has been requested in the FY 2000 operating budget, with a detailed explanation of anticipated costs provided to the School Board in the January 15, 1999 - Response to Request for Information #00-06, Maintenance Projects Y2K Backup Information, Attachment A.

As the millennium draws closer, it is evident that component parts and skilled specialists to correct this problem are becoming increasingly scarce. Due to the sheer volume of systems that require upgrading in a defined time period (236 panels districtwide), the increasingly uncertain marketplace dynamics, and the

irrefutable consequences of not completing the upgrades before the deadline, it is not prudent to wait until the start of the FY 2000 budget year to initiate action on this project. The Administration is requesting authorization to expend up to \$311,000 from FY 2000 operating budget to allow this project to begin now. The total project is \$909,500.

In accordance with Board Policy #725.16.b, this project will be exempt from formal bidding requirements due to the proprietary nature of the hardware and building control program for which no competition exists. One or more contracts with Siemens - Landis Division will be negotiated to implement this project. Contract value and change orders will be reported to the Board on the monthly Facility Project and Change Order Report.

Approval of this advance project-funding request will allow the purchase of seventy-eight SCU Controller Boards to be installed by the Maintenance Department's, Energy Management Control Systems technicians. In addition, Siemens will be contracted to upgrade software and install the building control computer in twenty-six schools prior to the new fiscal year start date of July 1, 1999. Fifty schools will remain to be upgraded prior to January 1, 2000.

BUDGET SUMMARY:

Professional Services \$ 20,000

Construction 268,980

78 SCUs x \$1250 = \$97,500

90 panels x \$ 711 = \$64,000

26 schools x 1,791 = \$46,580

26 Computers x \$2,343 = 60,900

Other Project Costs 22,020

Initial Project Funding \$311,000

BUDGET FUNDING SOURCE:

Funds Description:

FY 2000 Operating Budget JL Account Key Amount

Contracted Services

Y2K Compliance for

Energy Management 01-605-3080 \$311,000

BC/EC /KC/MF/SN/ sl

Attachment

Prepared by: Michael Franks, Construction Manager, Major Maintenance
Stu Nibeck, Contracting Office

Kathy Christy, Director of Facilities

Approved by: Ed Conyers, Executive Director of Physical Plant

ANCHORAGE SCHOOL DISTRICT

ANCHORAGE, ALASKA

MEMORANDUM January 15, 1999

TO: SCHOOL BOARD

FROM: OFFICE OF THE SUPERINTENDENT

SUBJECT: RESPONSE TO REQUEST FOR INFORMATION #00-06
MAINTENANCE PROJECTS Y2K BACKUP INFORMATION

School Board Member, Dr. Rita Holthouse, submitted the following request on January 13, 1999. Bob Price, Director of Maintenance, prepared the following response.

REQUEST:

1. Maintenance Projects (1064). Provide Board with a list of items in Y2K request that are included in Contracted Services-Buildings, 3080 Account.
2. Provide backup information to support the amount budgeted to support Y2K upgrades in Contracted Services-Buildings, 3080 account. Need to feel comfortable this is a firm estimate.

RESPONSE:

1. The Anchorage School District has in service one of the most sophisticated and effective digital control system in the country. Past audits have confirmed that we save over one-million dollars per year on utilities expenditures because of its effectiveness. In the almost fourteen years we have utilized digital environmental and lighting controls, very little renewal or replacement effort has been necessary.

Regarding the Y2K concerns, several alternatives were explored to postpone what we recognized would require a significant expense to ensure our systems would be compliant.

Following is a list of items in the [Y2K](#) request that are included in Contracted Services-Buildings, 3080 Account.

Item	Description	Quant.	Unit Cost	Total
A	Landis SCU Controller Board	78	\$1,250.00	\$97,500.00
B	Landis PDP-11 Host Computer Replacement	1	\$6,000.00	\$6,000.00
C	Rentals Local Interface Panel	76	\$3,500.00	\$266,000.00
D	Apogee Computer Platform Equipment	76	\$7,105.26	\$540,000.00
			Grand Total	\$909,500.00

It should be noted that all items would be contract purchased and installed. Funding will be used only to resolve the Y2K concerns. Any funding not utilized due to unforeseen savings will not be expended.

- A. This is to purchase and install 78 SCU Controller Boards for the Landis system. These control boards are the building located hub where all the control points are gathered. Attachment 1, column 1 entitled **SCU Ver.3** identifies the locations where the new panels are needed. The list notes a total of 114 panels that needed replacement. We were able to utilize other revenue to reduce that number to its presently requested level.

- B. Funding requested is to purchase and install computer equipment to replace the PDP 11, which currently is the centralized control of the digital control system. We can no longer locate replacement parts for this computer as it is fourteen years old and utilizes twenty-five year old technology. Attachment 2 is the backup documentation identifying the needed computer and associated costs.
 - C. Funding is requested to purchase and install 76 local interface panels to allow basic local control of major building HVAC systems. Numerous events and changes in technology have converged to render the current Rentals program incapable of operating the digital control system. The PDP 11 must go away due to its age and a major shift in the Landis operating system. Johnson Controls is also an approved vendor installing systems in schools, thereby eliminating sole source purchasing from Landis and increasing construction savings through competition. A total of 86 controllers is actually needed, but we have already purchased and installed 10 from operational funding. Attachment 3 is the supportive data defining costs.
 - D. Funding is requested to purchase and install 76 primary control systems consisting of the new Landis "Apogee" platform which runs on Windows NT. Attachment 4 outlines costs for materials and installation. As in Item 3, 86 systems were needed. However, we have already purchased 10 out of operational funding.
2. Attachments 1 through 4 contain the backup information to support the amount budgeted for Y2K upgrades in Contracted Services-Buildings, 3080 account.

BC/BP/dr

Attachments

Staff Time to Prepare Report: 90 minutes