

H B

95

COMMITTEE REPORT

HOUSE

2/4/81

FURTHER: FINANCE

(5)

Date: Apr. 13, 1981

Mr. Speaker:

The Committee on HEALTH, EDUCATION & SOCIAL SERVICES has had HB 95

"An Act making special appropriations to the Railbelt and Delta/Greely rural educational attendance areas for various capital projects; and providing for an effective date."

under consideration and (a majority of the committee) (the committee) reports it back with the following recommendations:

- do pass  do not pass
- do pass with attached amendments(s)
- replace with CS for HB 95  same title  
 new title
- and recommends \_\_\_\_\_
- AND attaches a "Letter of Intent"  New Fiscal Note
- reports it back without recommendation
- referred to the \_\_\_\_\_ Committee

MEMBERS SIGNING  
DO PASS

MEMBERS HAVING  
OTHER RECOMMENDATIONS:

[Signature]  
[Signature]  
[Signature]  
[Signature]  
[Signature]  
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[Signature]  
 CHAIRMAN



# Delta/Greely School District REAA #15

P.O. Box 527  
Delta Junction, Alaska 99737

907-895-4658

## M E M O R A N D U M

Date: November 20, 1980  
To: H. Pappy Moss  
From: Glen ~~Thomson~~ *Thomson*  
Re: FY-82 Capital Budget Requests

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### I. SUPPLEMENTAL

#### 1.1 Sprinkler System and Generator - Delta \$185,000

The 1980 session of the Alaska Legislature appropriated through Chapter 50/80 funds (\$200,000) for the upgrading of the sprinkler system at the Delta School. A preliminary cost estimate for the sprinkler extension has been determined to be \$225,000 which is \$60,000 higher than the \$165,000 budgeted for the project. The School District needs the extra funds because of higher costs and allowance for contingencies.

The District also requests the monies to install a generator. The present sprinkler system is operated off a fire pump that is powered by electricity. In the event of a fire, electrical power to the school would be discontinued negating the use of the fire pump. A standby generator could be wired directly into the fire pump and well, therefore enhancing greatly averting the loss of the school building. The generator would have to be at least a 25 k.v. and the estimated cost is \$125,000.

#### 1.2 Vocational Education Center \$300,000

The Delta/Greely School District is located in what may be the heart of the most viable agricultural area in Alaska. A great deal of interest in the region's agricultural potential

and emphasis on its development is being expressed locally and on the state level. Already in place within the District is an ongoing, articulated vocational agriculture program. Presently, however, implementation of that program is being somewhat thwarted because of inadequate, inappropriate, and unconsolidated instructional space.

During the 1980 legislative session, the need for adequate housing for the Delta/Greely agricultural program was recognized and \$1,000,000 was appropriated in Chapter 50/80 for the construction of approximately 6,500 square feet of classroom, laboratory, shop, storage, restroom, and office space to support and enhance the program. A preliminary cost estimate for the vocational education building is approximately \$300,000 higher than the budgeted amount. The District could compress the size of the building; but we feel that would seriously degrade the program expectations. The School District needs the extra funds because of the higher costs and allowance for contingencies.

## II. ENERGY CONSERVATION

### 2.1 Central Heating Plant - Delta \$600,000

The Delta Junction School was originally constructed in 1960, and since then seven major additions and two minor additions have been made to the original building. Total gross area in the present school complex, including the eight portable classrooms is approximately 68,000 square feet.

The advantages of a central heating system include 1. and easier maintenance, better fuel efficiency and better supervision of the boilers. Also, the present multiplicity of oil storage and fill points would be eliminated, except as retained for emergency use.

Alaska State Legislature *G-112*



WHILE IN JUNEAU  
FOUCH V  
JUNEAU, ALASKA  
99811  
(907) 465 4890

REPRESENTATIVE  
H. PAPPY MOSS  
P.O. BOX 182  
KATAJUNCTON, ALASKA 99737  
(907) 895-4384

House of Representatives

MEMORANDUM

March 30, 1981

TO: Representative Donald Clocksin  
Chairman  
House Committee on Health, Education  
& Social Services

FROM: Representative H. Pappy Moss *HPM*

SUBJECT: Bills in House Hess

As Chairman of the House Finance Sub-Committee on Education, I am working to combine as many C.T.P. shortfall and reappropriation bills as possible into two or three major pieces of legislation.

House Bill 208 is the bill I am preparing amendments for that will include capital improvement projects from all school districts in the state. The amendments will be by districts and listed in order of priority by the district. The purpose of this arrangement is to enable the committees to remove from the bottom any item that might not receive funding. In this way, if it becomes necessary to reduce the total appropriation amount required by the bill, we can reduce it by a percentage of funding rather than eliminate whole projects. For example, if one district has a total request of ten million and one district has a total request of one million, the first would be reduced by one million and the second by \$100,000 if it became necessary to reduce the total amount of the bill by, say, 10%.

House Bill 95 is the bill I am preparing amendments for that will address shortfall funding. If projects already in work in the districts have insufficient funding for completion of the projects, this bill will provide these funds for all school districts.

House Bill 224 has amendments being prepared that will allow reappropriation of funds already allocated to school districts. In this case, there are a number of districts that have line item or site-specific projects with unneeded funds, but also have other line item projects that have insufficient funds to complete them. Basically, this bill will reappropriate these funds to a block-type grant, allowing the districts to shift their funding within the specific district.

I have other bills in HESS that are not concerned with the above subjects that I would request you consider calendaring in the near future in the order noted:

# Alaska State Legislature



WHILE IN JUNEAU  
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REPRESENTATIVE  
H. PAPPY MOSS  
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House of Representatives

## MEMORANDUM

April 2, 1981

TO: Representative Donald E. Clocksin

FROM: Representative H. Pappy Moss *HPM*

SUBJECT: HB 95

In order to facilitate the legislative appropriation process, I hereby request that sections 3 through 5 of House Bill 95 be considered deleted from the bill, and that the committee consider inclusion of all projects statewide that are of a similar nature to those listed in sections 1 and 2 of the bill (supplemental appropriations to cover construction cost over-runs in schc 1 districts and REAAs). The project appropriations included in sections 3, 4, and 5 of HB 95 will be included in a bill for FY 82 capital projects in school districts and REAAs statewide.

Thank you.

## FY 81 C.I.P. SUPPLEMENTALS - Education Statewide

## District 1:

Craig - Complete elementary school construction	1,300,000
Klawock - complete high school construction	1,516,000
Metlakatla - complete recreation center	2,975,000

## District 2:

Wrangell school, K - 3, completion	1,330,500
Petersburg - shop addition (local city bonds)	30,000

## District 3:

Nothing

## District 4:

Haines - Chilkat Center for Performing Arts	250,000
Haines - Complete swimming pool construction	1,000,000
Juneau - Land acquisition for University of AK/Jnu	400,000

## District 5:

Nothing

## District 6:

Palmer High School Ag. Facility - complete funding	60,000
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## District 7:

Completion of Chugiak-Eagle River-Eklutna junior high school	7,000,000
Completion of renovation of Old North Star School	1,022,437
Completion of East High School Auditorium	230,000
East High School Rifle Range shortfall	250,000
Service - Hanshew Swimming Pool completion	400,000
Site development shortfall	50,000

## District 13:

Complete Minilchik school addition	585,210
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## District 14:

Nothing

## District 15:

Chignik Lake renovation - completion	113,785
School construction, Karluk - initial funding shortfall	1,700,000

District 16:

Kokhanok - school construction shortfall	141,798
Newhalen - school construction shortfall	72,274
Igiugig - school construction shortfall	115,569
Port Heiden - school construction shortfall	89,346

District 17:

Nothing

District 18:

St. Mary's High School - completion	2,000,000
Crooked Creek Elementary/H.S. complex - completion	400,000
Anvik - School completion	187,000
McGrath - complete Media Center	400,000
Nikolai - Multi-Purpose Building (Equip. shortfall)	50,000

District 19:

Sprinkler system completion - Delta	185,000
Healy - tri-valley coal conversion project completion	550,000
Ft. Yukon - Voc. Ed. Shortfall	400,000
Brown's Court Code Upgrade (completion)	100,000
Anderson gym completion	650,000

District 20:

University of Alaska - Fairbanks	
Rasmusson Library Phase II completion	4,700,000
Fairbanks North Star Borough School District	
Two Rivers School completion	1,250,000
University of Alaska working capital fund	
to full level approved by House	2,000,000

District 21:

Nothing

District 22:

Nome city school completion of lifesaving facility	1,500,000
Diomedes high school construction - completion of initial funding	1,000,000

TOTAL:

36,003,919

TRI-VALLEY SCHOOL

COAL CONVERSION

For the

ALASKA STATE LEGISLATURE

By:

Railbelt School District  
Drawer 129  
Healy, Alaska 99743

Crews, MacInnes and Hoffman  
3812 Spenard Road  
Anchorage, Alaska 99503

## INTRODUCTION

The Tri-Valley School is located in Healy, Alaska, a community with a population of approximately 525 people. The town is located at mile 358.1 on the Alaska Railroad and on the Parks Highway, approximately 240 miles north of Anchorage. Healy was established as a coal-mining camp in about 1905. It is still a major coal supply center, with direct rail links to Fairbanks and Anchorage. The mine is providing the majority of jobs for Healy and vicinity, with local government, Denali National Park, railroad, and the highway department making up the balance. The entire village appears to be very "mine oriented", with sentiments for using coal as a fuel supply for the school running high among the local population. Currently, approximately 80% of the school is heated electrically, 20% with oil. Present total heated floor area is approximately 47,000 square feet. There is a great potential for population growth in the area which will necessitate facility expansion in the near future.

A coal-fired "Golden Valley" electric power generation plant is located approximately four miles east of the school. It is about nine miles on a well maintained dirt road to the Usibelli Coal Mine.

Average heating degree days for the area is 14,000. The winter outdoor design temperature is -60 degrees F.

Alaska has half the known U. S. coal reserves, and much of this reserve is located adjacent to tide water and the railroad. With continuing pressures on the world oil market, coal may well be this state's and the nation's black ace in the hole. Usibelli Coal Mine (and other producers) is negotiating long term foreign contracts, and has already started construction of a modern high speed coal handling facility to load railcars headed for the world markets. This project and other projects, like the proposed expansion of the Golden Valley coal fired electrical generation plant, guarantee a continuing growth of the local communities.

With these factors in mind, about a year ago the Railbelt School District started planning for a coal conversion of our existing facility with built in potential for plant expansion. We applied for and received a grant from the Federal Department of Energy. This grant was for partial funding with the State of Alaska appropriating matching funds. With this money, we have developed a design and started construction of the project. When the project bid last fall it was apparent that the funds available were not adequate.

This is a pilot project and could serve as a model for the entire state. It will be capable of burning sub-bituminous coal cleanly, effeciently, and very economically. We have worked with many individuals and organizations throughout our design stages. We owe a special thanks to Usibelli Coal Mine, the Fairbanks North Star Borough, and other existing coal boiler operators who shared their experiences. We are maintaining close records on this project, and if our projections are correct a future conversion of the Anderson School is also anticipated.

*20 mi det.  
Anderson school*

*32,000  
2nd grant  
370,000  
10/15/80*

By utilizing local resources that require little processing, any Alaskan community can contribute to the local economy by adding jobs and independence while reducing operating cost. With your support this pilot project will be a major step toward energy independence, not only for us but for all Alaskans.

## SCOPE OF WORK

At the time of design and construction of original school buildings electricity was available at a lucrative rate. As a consequence, all original buildings are "all electric", i.e., heating, ventilation and domestic hot water generation is accomplished electrically.

Due to constantly rising electric rates, the most recent building additions are heated with oil-fired warm air furnaces.

In view of the current energy situation and local conditions, conversion to an all coal-fired system is a logical step.

A new boiler building will be constructed, housing one coal-fired boiler of 5,402,000 BTU/hr. capacity (161 boiler HP) and one oil-fired boiler with approximately 4,000,000 BTU/hr. capacity (115 boiler HP). The oil-fired boiler is serving strictly as emergency standby unit.

The heating media will be a 50% water-glycol mixture and will be conveyed to the school building by a well-insulated underground Arctic utilidor.

All electric heating appliances such as baseboard units, air heating coils, unit heaters and domestic hot water heaters will be removed or disconnected (including a 12<sup>0</sup> KW electrical hot water heater for the gym). New heating media distribution pumps and piping with associated hydronic baseboard, heating coils, and other heating units are being provided.

Individual room temperature control will be made possible by installing thermostats in each occupied space.

APPROXIMATE ENERGY AND COST DATA

(Based on Past Records and Projected Coal Consumption)

1. Daily Energy Cost at Absolute Maximum Demand  
(-60 degrees F.)

- a. Existing electrical heating systems:  
790 KW/hrs. @ \$.10/KWH \$1,900/day.
- b. If buildings were converted to oil-fired boiler system:  
48.2 gal./hr. firing rate @ \$.90/gal. \$1,040/day
- c. Proposed conversion to coal:  
550 lb./hr. maximum combustion rate.  
6.5 tons/day @ \$30./ton \$200/day.

2. Annual Average Energy Cost

	<u>Existing Plant</u>	<u>Projected Expanded Plant</u>
a. Existing electrical system	\$63,000	\$101,000
b. If system was converted to oil fired boilers	48,000	71,000
c. Projected for coal conver- sion.	21,000	36,000



# Alaska State Legislature

## House of Representatives

Committee on

Health, Education & Social Services

Rep. Don Clocksin, Chairman  
465-3797

Pouch V  
State Capitol  
Juneau, Alaska 99811

TO: Rep. Eric Sutcliffe  
FROM: Rep. Don Clocksin, Chairman  
RE: Karluk School Requests  
DATE: April 7, 1981

A handwritten signature in dark ink, appearing to be "Don Clocksin", written over the "FROM:" line of the memo.

For your information, the House HESS Committee passed out H. 95 with a committee substitute in committee meeting today. As you may know, HB 95 has been determined by Rep. Moss's Office as the vehicle for addressing supplemental appropriations for capital school requests. My procedure for handling this bill was to incorporate those capital school supplemental appropriations which we had already heard in our committee. The Committee adopted HB 144/143 into 95 and agreed to pass on the other supplemental appropriations to the Finance committee. Your request for supplemental funds for Karluk then, and all backup information you may have, should be addressed to House Finance as an amendment to HB 95. The request for funds for Chiniak will be considered by the HESS Committee some time soon.

DC:sp