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Glover  
3/27/17

**CS FOR SENATE BILL NO. 87(EDC)**

IN THE LEGISLATURE OF THE STATE OF ALASKA

THIRTIETH LEGISLATURE - FIRST SESSION

BY THE SENATE EDUCATION COMMITTEE

Offered:  
Referred:

Sponsor(s): SENATOR MACKINNON

**A BILL**

**FOR AN ACT ENTITLED**

1 **"An Act relating to energy efficiency standards and standardized options for building**  
2 **and equipment components for school construction and major maintenance; relating to**  
3 **school construction and major maintenance grants and bond debt reimbursement;**  
4 **establishing a working group to make recommendations relating to energy efficiency**  
5 **and standardized components in schools; and providing for an effective date."**

6 **BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:**

7 **\* Section 1.** AS 14.11.011(b) is amended to read:

8 (b) For a municipality that is a school district or a regional educational  
9 attendance area to be eligible for a grant under this chapter, the district shall submit

10 (1) a six-year capital improvement plan that includes a description of  
11 the district's fixed asset inventory system and preventive maintenance program **not**  
12 [NO] later than September 1 of the fiscal year before the fiscal year for which the  
13 request is made; the six-year plan must contain for each proposed project

1 (A) a detailed scope of work, a project budget, and  
2 documentation of conditions justifying the project;

3 (B) information demonstrating that the project  
4 incorporates standardized options for building and equipment  
5 components and is in compliance with the energy efficiency standards  
6 adopted by the department under AS 14.11.104; and

7 (C) documentation of the building commissioning process  
8 the district uses for both new construction and major maintenance  
9 projects to verify and document that the building and all building and  
10 equipment components perform interactively in accordance with the  
11 equipment design and project requirements;

12 (2) evidence that the district has secured and will maintain adequate  
13 property loss insurance for the replacement cost of all facilities for which state funds  
14 are available under AS 14.11.005 or 14.11.007 or has a program of insurance  
15 acceptable to the department;

16 (3) evidence acceptable to the department that the proposed project  
17 should be a capital improvement project and not part of a preventive maintenance  
18 program or regular custodial care program; and

19 (4) evidence acceptable to the department that the district

20 (A) has a preventive maintenance plan that

21 (i) includes a computerized maintenance management  
22 program, cardex system, or other formal systematic means of tracking  
23 the timing and costs associated with planned and completed  
24 maintenance activities, including scheduled preventive maintenance;

25 (ii) addresses energy management for buildings owned  
26 or operated by the district;

27 (iii) includes a regular custodial care program for  
28 buildings owned or operated by the district;

29 (iv) includes preventive maintenance training for  
30 facility managers and maintenance employees;

31 (v) includes renewal and replacement schedules for

1 electrical, mechanical, structural, and other components of facilities  
2 owned or operated by the district; and

3 (B) is adequately adhering to the preventive maintenance plan.

4 \* **Sec. 2.** AS 14.11.013(a) is amended to read:

5 (a) With regard to projects for which grants are requested under AS 14.11.011,  
6 the department shall

7 (1) annually review the six-year plans submitted by each district under  
8 AS 14.11.011(b) and recommend to the board a revised and updated six-year capital  
9 improvement project grant schedule that serves the best interests of the state and each  
10 district; in recommending projects for this schedule, the department shall verify that  
11 each proposed project meets the criteria established under AS 14.11.014(b) **and**  
12 **14.11.104** and qualifies as a project required to

13 (A) avert imminent danger or correct life-threatening  
14 situations;

15 (B) house students who would otherwise be unhoused; for  
16 purposes of this subparagraph, students are considered unhoused if the students  
17 attend school in temporary facilities;

18 (C) protect the structure of existing school facilities;

19 (D) correct building code deficiencies that require major repair  
20 or rehabilitation in order for the facility to continue to be used for the  
21 educational program;

22 (E) achieve an operating cost savings, **including savings, as**  
23 **measured by a life-cycle cost analysis, that are achieved through the use of**  
24 **standardized options for building and equipment components and fuel**  
25 **cost reductions resulting from energy efficiency upgrades;**

26 (F) modify or rehabilitate facilities for the purpose of  
27 improving the instructional program;

28 (G) meet an educational need not specified in (A) - (F) of this  
29 paragraph, identified by the department;

30 (2) prepare an estimate of the amount of money needed to finance each  
31 project;

1 (3) provide to the governor, by November 1, and to the legislature  
2 within the first 10 days of each regular legislative session, a revised and updated six-  
3 year capital improvement project grant schedule, together with a proposed schedule of  
4 appropriations.

5 \* **Sec. 3.** AS 14.11.013(d) is amended to read:

6 (d) The department shall reduce a project budget by the cost of those portions  
7 of a project design that the department determines (1) are for construction of student  
8 residential space, planetariums, hockey rinks, saunas, and other facilities for single  
9 purpose sporting or recreational uses that are not suitable for other activities; or (2) do  
10 not meet the criteria developed under AS 14.11.014(b) **or 14.11.104** that are  
11 applicable to the project. This subsection does not apply to funding for swimming  
12 pools that meet criteria established by the department.

13 \* **Sec. 4.** AS 14.11.013 is amended by adding new subsections to read:

14 (f) In reviewing projects under (a) of this section for compliance with the  
15 criteria established under AS 14.11.104, the department shall consult with the Alaska  
16 Energy Authority.

17 (g) In this section, "life-cycle cost" has the meaning given in AS 46.11.900.

18 \* **Sec. 5.** AS 14.11.014(b) is amended to read:

19 (b) The committee shall

20 (1) review the department's priorities among projects for which school  
21 construction grants are requested;

22 (2) make recommendations to the board concerning school  
23 construction grants and make recommendations to the commissioner concerning  
24 projects for which bond reimbursement is requested;

25 (3) develop criteria for construction of schools in the state; criteria  
26 developed under this paragraph must include requirements intended to achieve cost-  
27 effective school construction;

28 (4) analyze existing prototypical designs for school construction  
29 projects, **including designs acquired by the department under AS 14.11.104;**

30 (5) establish a form for grant applications;

31 (6) establish a method of ranking grant projects;

1 (7) recommend to the board necessary changes to the approval process  
2 for school construction grants and for projects for which bond reimbursement is  
3 requested;

4 (8) set standards, **based on the standards adopted by the**  
5 **department under AS 14.11.104**, for energy efficiency for school construction and  
6 major maintenance to provide energy efficiency benefits for all school locations in the  
7 state and that address energy efficiency in design and energy systems that minimize  
8 long-term energy and operating costs.

9 \* **Sec. 6.** AS 14.11.017(a) is amended to read:

10 (a) The department shall require in the grant agreement that a municipality  
11 that is a school district or a regional educational attendance area

12 (1) agree to construction of a facility of appropriate size and use that  
13 meets criteria adopted by the department, **including criteria developed under**  
14 **AS 14.11.014(b) and 14.11.104**, if the grant is for school construction;

15 (2) provide reasonable assurance by a means acceptable to the  
16 department, that the cost of the project will **not exceed the maximum cost standards**  
17 **established by the department under AS 14.11.104 for** [BE UNIFORM WITH THE  
18 COSTS OF THE MOST CURRENT CONSTRUCTION OR MAJOR  
19 MAINTENANCE PROJECTS, AS APPROPRIATE, IN] the area;

20 (3) agree to limit equipment purchases to that required for the  
21 approved project plan submitted under (5) of this subsection and account for all  
22 equipment purchased for the project under a fixed asset inventory system approved by  
23 the department;

24 (4) submit project budgets for department approval and agree that the  
25 grant amount may, at the discretion of the department, be reduced or increased by  
26 amounts equal to the amounts by which contracts vary from the budget amounts  
27 approved by the department; [AND]

28 (5) submit to the department for approval, before award of the  
29 contract, a plan for the project that includes educational specifications, final drawings,  
30 and contract documents; **and**

31 **(6) for a construction or major maintenance project that receives a**

1 **grant in an amount equal to 50 percent or more of the cost of the project, agree**  
2 **that the municipality or regional educational attendance area and any**  
3 **contractors, architects, or designers involved in designing and building the**  
4 **facility will not apply for an architectural or design award for the facility; in this**  
5 **paragraph, "architectural or design award" does not include an award for**  
6 **energy efficient or innovative design.**

7 \* **Sec. 7.** AS 14.11.017 is amended by adding a new subsection to read:

8 (d) Notwithstanding (b)(2) of this section, if the cost of a school construction  
9 or major maintenance project exceeds the maximum cost standards established by the  
10 department under AS 14.11.104, the municipality or regional educational attendance  
11 area shall pay the excess from funding sources other than state funding.

12 \* **Sec. 8.** AS 14.11.100 is amended by adding a new subsection to read:

13 (t) The commissioner may not approve an application for bond reimbursement  
14 for indebtedness authorized by the qualified voters of a municipality on or after July 1,  
15 2020, unless the municipality, as a condition of reimbursement,

16 (1) agrees to construction of a facility of appropriate size and use that  
17 meets criteria developed by the department, including criteria adopted under  
18 AS 14.11.104, if the bond reimbursement is for school construction; in reviewing a  
19 project for compliance with criteria established under AS 14.11.104, the commissioner  
20 shall consult with the Alaska Energy Authority;

21 (2) provides reasonable assurance, by a means acceptable to the  
22 department, that the project cost will not exceed the maximum cost standards  
23 established by the department under AS 14.11.104 for the area; if the cost of a project  
24 exceeds the maximum cost standards, the municipality shall pay indebtedness  
25 attributable to the excess from funding sources other than state funding; and

26 (3) for a project that receives bond reimbursement in an amount equal  
27 to 50 percent or more of the cost of the project, agrees that the municipality and any  
28 contractors, architects, or designers involved in designing and building the facility will  
29 not apply for an architectural or design award for the facility; in this paragraph,  
30 "architectural or design award" does not include an award for energy efficient or  
31 innovative design.

1 \* **Sec. 9.** AS 14.11 is amended by adding a new section to article 1 to read:

2 **Sec. 14.11.104. School facility design and maintenance standards.** (a) The  
3 department shall

4 (1) establish, by regulation, energy efficiency standards, including  
5 standardized options for building and equipment components, appropriate to each  
6 climate zone in the state for the construction and major maintenance of school  
7 facilities that receive funding under AS 14.11.005 - 14.11.102; the regulations must  
8 include, for each climate zone in the state,

9 (A) energy efficiency standards, consistent with relevant  
10 building, plumbing, and electrical codes that will reduce long-term operating  
11 costs;

12 (B) standardized options for energy efficient building and  
13 equipment components from which a school district may choose when  
14 designing a school facility or renovating or upgrading an existing school  
15 facility;

16 (C) best practices for improving energy efficiency for existing  
17 and newly constructed school facilities; and

18 (D) the maximum acceptable costs for each square foot for  
19 construction or major maintenance of an energy efficient school facility; the  
20 department shall base the maximum acceptable costs on designs that prioritize  
21 classroom infrastructure and functional design; the maximum acceptable cost  
22 must be adjusted for different regions within each climate zone;

23 (2) create and make available to school districts a maintenance manual  
24 that provides information about maintaining and repairing the standardized options for  
25 building and equipment components identified in the energy efficiency standards;

26 (3) consider establishing a statewide maintenance and support team to  
27 assist school districts in maintaining and repairing the standardized options for  
28 building and equipment components identified in the energy efficiency standards; the  
29 department may enter into a contract with a regional or local organization, the Alaska  
30 Energy Authority, the Department of Transportation and Public Facilities, or another  
31 state agency to establish the maintenance and support team;

1 (4) require a school district, and, if the department establishes a  
2 maintenance and support team under (a)(3) of this section, the maintenance and  
3 support team, to report the following information at intervals determined by the  
4 department:

5 (A) maintenance and repairs performed on school facilities and  
6 the date the maintenance or repairs are performed;

7 (B) the condition of school facilities in the school district;

8 (C) monitoring data regarding facility occupancy, electricity  
9 and fuel usage, temperature, and other information related to energy usage and  
10 efficiency;

11 (5) acquire or retain ownership of the design for any school facility for  
12 which a grant or bond reimbursement is approved under AS 14.11.005 - 14.11.102 in  
13 an amount equal to 50 percent or more of the cost of construction of the facility;

14 (6) assess, in consultation with the Department of Administration and  
15 the Department of Transportation and Public Facilities, state lease payments,  
16 payments for state-owned facilities, and the use of school facilities in rural areas to  
17 determine whether other state or local services can be located in the same facility as a  
18 school to reduce state funding needs; a state or local service may only be located in the  
19 same facility as a school if all employees of the state or local service are required to  
20 meet background check requirements equivalent to the requirements for teachers  
21 under AS 14.20.020(c) and (f).

22 (b) In this section,

23 (1) "rural" has the meaning given in AS 14.43.700; and

24 (2) "state or local service" includes a library, an emergency operations  
25 center, a fire department, a health facility, and a similar entity.

26 \* **Sec. 10.** The uncodified law of the State of Alaska is amended by adding a new section to  
27 read:

28 PUBLIC SCHOOL ENERGY EFFICIENCY AND STANDARDIZED  
29 COMPONENTS WORKING GROUP. (a) A working group is established in the Department  
30 of Education and Early Development for the purpose of recommending energy efficiency  
31 standards and standardized options for energy efficient building and equipment components



1 for public school facilities construction and major maintenance projects approved under  
2 AS 14.11.005 - 14.11.102 for a grant or reimbursement in an amount equal to 50 percent or  
3 more of the cost of the project. The working group consists of 11 members appointed by the  
4 commissioner as follows:

- 5 (1) one member from the Department of Education and Early Development;
- 6 (2) one member from the Alaska Housing Finance Corporation;
- 7 (3) one member from the Alaska Energy Authority;
- 8 (4) one member from the Cold Climate Housing Research Center;
- 9 (5) one member from the Department of Transportation and Public Facilities;
- 10 (6) a superintendent from a rural public school;
- 11 (7) a superintendent from an urban public school;
- 12 (8) three members from the construction industry, one with expertise in  
13 construction in urban areas and two with expertise in construction in rural areas; and
- 14 (9) one member from the architecture and design industry.

15 (b) The members of the working group shall select a chair and vice-chair. The  
16 working group meets at the call of the chair. A majority of the members of the working group  
17 constitute a quorum, and the working group shall make decisions based on a majority vote.

18 (c) The working group shall develop the following recommendations appropriate to  
19 each climate zone in the state:

20 (1) energy efficiency standards consistent with relevant building, plumbing,  
21 and electrical codes; in recommending energy efficiency standards under this section, the  
22 working group may develop standards appropriate for the state or base the standards on a  
23 professionally developed model code, such as the International Energy Conservation Code, or  
24 an energy code developed by the American Society of Heating, Refrigeration and Air-  
25 Conditioning Engineers;

26 (2) standardized options for energy efficient building and equipment  
27 components from which school districts may choose when designing new school facilities or  
28 renovating or retrofitting existing school facilities, including

- 29 (A) heating, ventilation, and air conditioning systems;
- 30 (B) plumbing, sewer, and water systems, including toilets and sinks;
- 31 (C) electrical systems;

- 1 (D) control systems;  
2 (E) fire alarm systems;  
3 (F) intercom systems;  
4 (G) insulation;  
5 (H) windows and doors;  
6 (I) backup generators;  
7 (J) weatherization; and  
8 (K) other components the working group identifies;

9 (3) best practices for improving energy efficiency for existing and newly  
10 constructed school facilities, including recommendations for motion sensor lights, automatic  
11 temperature settings for heating systems, and other recommendations to maximize the energy  
12 efficiency of building and equipment components;

13 (4) the maximum acceptable costs for each square foot for construction of an  
14 energy efficient school facility that uses components identified in (2) of this subsection; the  
15 working group shall base the maximum acceptable costs on designs that prioritize classroom  
16 infrastructure and functional design; the maximum acceptable costs for each square foot must  
17 be adjusted for different regions within each climate zone.

18 (d) The recommendations under (c)(2) of this section must

19 (1) result in designs for buildings with a 50-year life for new construction or a  
20 20-year life for renovations or energy efficiency upgrades;

21 (2) achieve economic savings, as measured by a life-cycle cost analysis,  
22 through the use of standardized options for building and equipment components and fuel cost  
23 reductions resulting from energy efficiency upgrades; and

24 (3) focus the state's investment in education facilities by prioritizing functional  
25 design and classroom infrastructure.

26 (e) The working group shall complete a report summarizing the working group's  
27 recommendations and submit the report electronically, on or before the date 18 months after  
28 the effective date of this section, to the senate secretary and the chief clerk of the house of  
29 representatives and notify the legislature that the report is available.

30 (f) The working group may meet by telephone or videoconference. Members of the  
31 working group serve without compensation and are not entitled to per diem or travel expenses

1 authorized for boards and commissions under AS 39.20.180.

2 (g) The working group terminates on the date 18 months after the effective date of  
3 this section.

4 \* **Sec. 11.** The uncodified law of the State of Alaska is amended by adding a new section to  
5 read:

6 APPLICABILITY. Sections 1 - 9 of this Act, and regulations adopted to implement  
7 secs. 1 - 9 of this Act, apply to

8 (1) a grant approved on or after the effective date of secs. 1 - 9 of this Act; and

9 (2) approval of bond debt reimbursement under AS 14.11.100 for  
10 indebtedness authorized by the qualified voters of the municipality on or after July 1, 2020.

11 \* **Sec. 12.** The uncodified law of the State of Alaska is amended by adding a new section to  
12 read:

13 TRANSITIONAL PROVISIONS: REGULATIONS. (a) The Department of Education  
14 and Early Development shall adopt regulations necessary to implement the changes made by  
15 this Act.

16 (b) The regulations required under AS 14.11.104, enacted by sec. 9 of this Act, must  
17 implement the recommendations of the public school energy efficiency and standardized  
18 components working group established in sec. 10 of this Act.

19 (c) The regulations take effect under AS 44.62 (Administrative Procedure Act), but  
20 not before the effective date of the law implemented by the regulation.

21 \* **Sec. 13.** Sections 1 - 9 and 11 of this Act take effect 24 months after the effective date of  
22 sec. 10 of this Act.

23 \* **Sec. 14.** Section 10 of this Act takes effect immediately under AS 01.10.070(c).

24 \* **Sec. 15.** Section 12 of this Act takes effect 18 months after the effective date of sec. 10 of  
25 this Act.