

COMMITTEE REPORT
HOUSE

4/23/81

FURTHER:

(11)

Date: 5/11/81

Mr. Speaker:

The Committee on FINANCE has had CSB 26(Fin)

"An Act making special appropriations to the Alaska Power Authority for energy projects and for the power production cost assistance program; and providing for an effective date."

under consideration and reports it back as follows:

- do pass do not pass
- do pass with attached amendments(s)
- replace with CS for CSB 26(Fin) same title
 new title
- and recommends CSB 26(Fin)
- 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:

CHAIRMAN

Original sponsors: Kerttula, Ziegler,
Ferguson, et al

Funding Information

General Fund \$559,944,550
Other Funds -0-
\$559,944,550

1 IN THE SENATE BY THE FINANCE COMMITTEE

2 HOUSE CS FOR CS FOR SENATE BILL NO. 26 (Finance)

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 TWELFTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act making appropriations to various state agencies
7 for energy-related programs and projects, and repealing
8 a 1980 appropriation for a power project; and pro-
9 viding for an effective date."

10 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

11 * Section 1. The sum of \$265,900,000 is appropriated from the general
12 fund to the power project fund of the Alaska Power Authority (AS 44.83.170)
13 for the following projects in the amounts specified after each:

| | | |
|----|-------------------|--------------|
| 14 | (1) Bradley Lake | \$40,000,000 |
| 15 | (2) Port Lions | 1,400,000 |
| 16 | (3) Solomon Gulch | 45,000,000 |
| 17 | (4) Swan Lake | 53,000,000 |
| 18 | (5) Terror Lake | 81,500,000 |
| 19 | (6) Tyee Lake | 45,000,000 |

20 * Sec. 2. The sum of \$76,000,000 is appropriated from the general fund
21 to the power project fund of the Alaska Power Authority (AS 44.83.170) for
22 acquisition of a right-of-way for and design and construction of a high
23 voltage electrical transmission system connecting Anchorage and Fairbanks.

24 * Sec. 3. The sum of \$750,000 is appropriated from the general fund to
25 the power project fund of the Alaska Power Authority (AS 44.83.170) for
26 acquisition of a right-of-way for and design and construction of an electri-
27 cal transmission system connecting Craig and Klawock.

28 * Sec. 4. The sum of \$200,000 is appropriated from the general fund to
29 the power project fund of the Alaska Power Authority (AS 44.83.170) for

1 construction of a single wire ground return transmission line between Kobuk
2 and Shungnak.

3 * Sec. 5. The sum of \$3,250,000 is appropriated from the general fund to
4 the power project fund of the Alaska Power Authority (AS 44.83.170) for
5 phase I of a transmission line between Barrow and Atkasook.

6 * Sec. 6. The sum of \$60,618,000 is appropriated from the general fund
7 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
8 loan to the City and Borough of Sitka for completion of the Green Lake
9 hydroelectric project, to defease or to provide for the payment of debt
10 service on revenue bonds issued by the City and Borough of Sitka for the
11 Green Lake hydroelectric project, and for other costs incidental to the
12 Green Lake hydroelectric project.

13 * Sec. 7. The sum of \$4,000,000 is appropriated from the general fund to
14 the power project fund of the Alaska Power Authority (AS 44.83.170) for a
15 loan to the City of Fairbanks for district heating.

16 * Sec. 8. The sum of \$4,000,000 is appropriated from the general fund to
17 the power project fund of the Alaska Power Authority (AS 44.83.170) for a
18 loan to Alaska Electric Light and Power Company for construction of trans-
19 mission and distribution facilities.

20 * Sec. 9. The sum of \$3,000,000 is appropriated from the general fund to
21 the power project fund of the Alaska Power Authority (AS 44.83.170) for a
22 loan to Alaska Electric Light and Power Company for rehabilitation of Salmon
23 Creek II.

24 * Sec. 10. The sum of \$9,000,000 is appropriated from the general fund
25 to the power project fund of the Alaska Power Authority (AS 44.83.170) for
26 rural electrification loans.

27 * Sec. 11. The sum of \$1,000,000 is appropriated from the general fund
28 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
29 loan to the Bethel Utilities Corporation for construction of waste heat

1 facilities.

2 * Sec. 12. The sum of \$36,900,000 is appropriated from the general fund
3 to the Alaska Power Authority for feasibility studies, preconstruction
4 design, and engineering, to be allocated to the following proposed power
5 projects:

| | | |
|----|---|------------|
| 6 | (1) Black Bear Lake | 2,000,000 |
| 7 | (2) Chester Lake | 1,000,000 |
| 8 | (3) Chakachamna Lake | 1,000,000 |
| 9 | (4) Grant Lake | 1,000,000 |
| 10 | (5) Bethel regional study/Kisaralik | 1,000,000 |
| 11 | (6) Power Creek | 700,000 |
| 12 | (7) Snettisham (Crater Lakes) | 4,500,000 |
| 13 | (8) Susitna | 18,100,000 |
| 14 | (9) Tazimina Lake | 2,000,000 |
| 15 | (10) Rural community feasibility studies: Akhiok, | |
| 16 | Ambler, Angoon, Atka, Chignik, Chignik | |
| 17 | Lagoon, Chignik Lake, Chuathbaluk, Cold Bay, | |
| 18 | Elim, False Pass, Goodnews Bay, Grayling, | |
| 19 | Gustavus, Ivanoff Bay, Kaltag, Karluk, | |
| 20 | Kiana, King Cove, Larsen Bay, Nikolski, | |
| 21 | Old Harbor, Perryville, Scammon Bay, | |
| 22 | Shungnak, Tenakee Springs, Togiak, | |
| 23 | Unalaska | 5,600,000 |

24 * Sec. 13. The sum of \$560,000 is appropriated from the general fund to
25 the Alaska Power Authority for reconnaissance studies for proposed energy
26 project sites for the following rural communities: Alatna, Aniak, Atkasook,
27 Brevig Mission, Chefnak, Craig, Dikwede, Galena, Golovin, Hooper Bay,
28 Kalskag, Kotlik, Koyuk, Lower Kalskag, Mekoryuk, New Chenega, Newtok,
29 Nightmute, Ouzinkie, Ruby, Saint George, Saint Mary's, Saint Michael, Saint

1 Paul, Shageluk, Shishmaref, Stebbins, Teller, Toksook Bay, Tununak,
2 Unalakleet, and Yakutat.

3 * Sec. 14. The sum of \$996,000 is appropriated from the general fund to
4 the Alaska Power Authority for a feasibility study examining design and
5 construction of an electrical transmission system between Hoonah and Juneau.

6 * Sec. 15. The sum of \$42,000 is appropriated from the general fund to
7 the Alaska Power Authority for a feasibility study regarding improvements to
8 hydroelectric facilities for Pelican.

9 * Sec. 16. The sum of \$4,500,000 is appropriated from the general fund
10 to the Alaska Power Authority for design, engineering, implementation, and
11 construction of the Lake Elva hydroelectric project.

12 * Sec. 17. The sum of \$50,000 is appropriated from the general fund to
13 the Alaska Power Authority for a feasibility study relating to reactivation
14 of an abandoned hydroelectric site at Chitina.

15 * Sec. 18. The sum of \$440,000 is appropriated from the general fund to
16 the Alaska Power Authority for a feasibility study of the Fairbanks district
17 heating extension.

18 * Sec. 19. The sum of \$1,400,000 is appropriated from the general fund
19 to the Alaska Power Authority for a feasibility study and for advanced
20 design and engineering of an electrical transmission system between Valdez
21 and Cordova, and for a feasibility study and advanced design and engineering
22 of an electrical transmission system between Valdez and Cordova, and for a
23 feasibility study and advanced design and engineering of small-scale hydro-
24 electric sites along the route of the transmission system.

25 * Sec. 20. The sum of \$600,000 is appropriated from the general fund to
26 the Alaska Power Authority for a feasibility study of a coal-fired power
27 plant for Cordova.

28 * Sec. 21. The sum of \$8,000,000 is appropriated from the general fund
29 to the Alaska Power Authority for the power production cost assistance fund

1 (AS 44.83.162).

2 * Sec. 22. The sum of \$125,000 is appropriated from the general fund to
3 the Alaska Power Authority as grants for waste heat projects in Crooked
4 Creek and Chuathbaluk.

5 * Sec. 23. The sum of \$150,000 is appropriated from the general fund to
6 the Alaska Power Authority as a grant for a waste heat project at McGrath.

7 * Sec. 24. The sum of \$380,000 is appropriated from the general fund to
8 the Alaska Power Authority as a grant for design and construction of a waste
9 heat project at Unalaska.

10 * Sec. 25. The sum of \$961,000 is appropriated from the general fund to
11 the Alaska Power Authority as a grant for an electrical transmission system
12 at Nondalton.

13 * Sec. 26. The sum of \$4,245,300 is appropriated from the general fund
14 to the Department of Administration for payment as grants in accordance with
15 AS 37.05.315 to the following cities for the purposes and in the amounts set
16 out after each:

| | | |
|----|---|---------|
| 17 | (1) Allakaket generator | 12,600 |
| 18 | (2) Atmautluak electrification | 625,000 |
| 19 | (3) Diomede electrification | 106,000 |
| 20 | (4) Ekwok generator | 25,000 |
| 21 | (5) Golovin electrification | 225,200 |
| 22 | (6) Hooper Bay generator | 34,000 |
| 23 | (7) Kotlik electrification | 65,000 |
| 24 | (8) Napaskiak electrification | 215,000 |
| 25 | (9) Newhalen generators and electrification | 730,000 |
| 26 | (10) Newtok electrification | 190,000 |
| 27 | (11) Nome electric utility facilities upgrade | 943,000 |
| 28 | (12) Ruby electrification | 73,000 |
| 29 | (13) Russian Mission generator | 30,000 |

| | | |
|---|-------------------------------------|---------|
| 1 | (14) Shaktoolik power lines | 53,500 |
| 2 | (15) Tuluksak electrification | 148,000 |
| 3 | (16) Unalaska electrification | 600,000 |
| 4 | (17) White Mountain electrification | 170,000 |

5 * Sec. 27. The sum of \$12,000,000 is appropriated from the general fund
6 to the Department of Commerce and Economic Development, division of energy
7 conservation and management, for energy conservation assistance and weather-
8 ization.

9 * Sec. 28. The sum of \$2,050,000 is appropriated from the general fund
10 to the Department of Commerce and Economic Development, division of energy
11 conservation and management, for energy planning, to be allocated as follows:

| | | |
|----|---|-----------|
| 12 | preparation of state energy plan | \$700,000 |
| 13 | regional energy planning under contract | |
| 14 | with nonprofit corporations | 600,000 |
| 15 | energy emergency contingency planning | 150,000 |
| 16 | municipal energy management and | |
| 17 | planning contracts | 600,000 |

18 * Sec. 29. The sum of \$250,000 is appropriated from the general fund to
19 the Department of Commerce and Economic Development, division of energy
20 conservation and management for energy activities as follows:

| | | |
|----|-----------------------|-----------|
| 21 | state-federal liaison | \$125,000 |
| 22 | energy information | 125,000 |

23 * Sec. 30. The sum of \$10,000,000 is appropriated from the general fund
24 to the Department of Commerce and Economic Development, division of energy
25 conservation and management, for energy conservation refunds, grants, and
26 residential energy audits.

27 * Sec. 31. The sum of \$2,430,500 is appropriated from the general fund
28 to the Department of Commerce and Economic Development, division of energy
29 conservation and management, for a grant to the Fairbanks North Star Borough

1 for phase I of an energy management program.

2 * Sec. 32. The sum of \$2,400,000 is appropriated from the general fund
3 to the Department of Commerce and Economic Development, division of energy
4 conservation and management, for the bulk fuel storage facilities grant fund
5 (AS 44.33.100).

6 * Sec. 33. The sum of \$15,000,000 is appropriated from the general fund
7 to the Department of Commerce and Economic Development, division of small
8 business loans, for alternative energy and energy conservation loan programs.

9 * Sec. 34. The sum of \$1,879,100 is appropriated from the general fund
10 to the Department of Community and Regional Affairs for payment as grants in
11 accordance with AS 37.05.315(f) to the following unincorporated communities
12 for the purposes and in the amounts set out after each:

| | | |
|----|----------------------------------|---------|
| 13 | (1) Alatna generator | 36,000 |
| 14 | (2) Arctic Village generator | 26,400 |
| 15 | (3) Chalkyitsik electrification | 103,000 |
| 16 | (4) Circle electrification | 81,700 |
| 17 | (5) Dot Lake generator | 12,000 |
| 18 | (6) Kongiganak electrification | 135,000 |
| 19 | (7) Kwigillingok electrification | 120,000 |
| 20 | (8) Levelock electrification | 450,000 |
| 21 | (9) Perryville electrification | 145,000 |
| 22 | (10) Pilot Point electrification | 450,000 |
| 23 | (11) Tatitlek generator | 70,000 |
| 24 | (12) Tuntutuliak electrification | 250,000 |

25 * Sec. 35. The sum of \$400,000 is appropriated from the general fund to
26 the Department of Community and Regional Affairs for payment as a grant in
27 accordance with AS 37.05.315 to the Kuskokwim Native Association for elec-
28 trification of Chuathbaluk, Crooked Creek, Sleetmute, and Stony River.

29 * Sec. 36. The sum of \$1,708,000 is appropriated from the general fund

1 to the Department of Community and Regional Affairs for payment as a grant
2 in accordance with AS 37.05.315 to the Mauneluk Association for energy
3 conservation systems in Ambler, Deering, Kiana, Kivalina, Kobuk, Noatak,
4 Noorvik, Selawik, and Shungnak.

5 * Sec. 37. The sum of \$100,000 is appropriated from the general fund to
6 the Department of Natural Resources for a coal resource investigation on
7 Saint Lawrence Island.

8 * Sec. 38. The sum of \$1,300,000 is appropriated from the general fund
9 to the Department of Natural Resources for phases III and IV of the North-
10 west Alaska Coal Resources Investigation, including reconnaissance drilling
11 at the Chicago Creek, Point Hope, Point Lay, and Kiana (Kobuk River) areas.

12 * Sec. 39. The sum of \$5,000,000 is appropriated from the general fund
13 to the Department of Natural Resources, division of geological and geo-
14 physical surveys, for geothermal well drilling at Unalaska.

15 * Sec. 40. The sum of \$550,000 is appropriated from the general fund to
16 the Department of Transportation and Public Facilities for installation of
17 coal-fired heating systems in the Railbelt regional educational attendance
18 area schools.

19 * Sec. 41. The sum of \$250,000 is appropriated from the general fund to
20 the Office of the Governor for the fuel emergency fund (AS 44.19.052).

21 * Sec. 42. The sum of \$350,000 is appropriated from the general fund to
22 the University of Alaska for energy conservation improvements.

23 * Sec. 43. The sum of \$150,000 is appropriated from the general fund to
24 the University of Alaska for upper division and graduate course curriculum
25 development for energy courses and energy-related studies.

26 * Sec. 44. The sum of \$200,000 is appropriated from the general fund to
27 the University of Alaska, division of community colleges and rural educa-
28 tion, for development of energy studies within community college curricula.

29 * Sec. 45. The sum of \$200,000 is appropriated from the general fund to

1 the University of Alaska, division of community colleges and rural education,
2 for vocational and job training programs related to renewable energy and
3 energy conservation.

4 * Sec. 46. The sum or \$200,000 is appropriated from the general fund to
5 the University of Alaska, energy alternatives program (School of Agriculture
6 and Land Resources Management) for teacher training and curriculum develop-
7 ment and for television programming relating to energy-related subjects in
8 elementary and secondary school curricula.

9 * Sec. 47. The sum of \$1,664,650 is appropriated from the general fund
10 to the Alaska Energy Center for a grant to the Fairbanks North Star Borough
11 for the following purposes:

| | | |
|----|---------------------------|------------|
| 12 | solar collector retrofit, | |
| 13 | phase I | \$ 404,000 |
| 14 | waste heat greenhouses | 1,260,650 |

15 * Sec. 48. The sum of \$6,400,000 is appropriated from the general fund
16 to the Alaska Energy Center for research, development, and demonstration
17 projects under AS 37.25.030.

18 * Sec. 49. The sum of \$1,500,000 is appropriated from the general fund
19 to the Alaska Energy Center for an economic feasibility study and precon-
20 struction costs for a plant in southcentral Alaska which uses developed
21 technology to process peat for fuel for export and domestic use.

22 * Sec. 50. The sum of \$75,000 is appropriated from the general fund to
23 the Alaska Energy Center for a grant to the Fairbanks North Star Borough for
24 a solar energy system for the Mary Siah Recreation Center.

25 * Sec. 51. The sum of \$4,030,000 is appropriated from the general fund
26 to the Alaska Energy Center for the following feasibility studies relating
27 to energy projects of the center:

| | | |
|----|--|-----------|
| 28 | (1) Angoon tidal power project | 500,000 |
| 29 | (2) Kodiak waste heat cogeneration project | 2,500,000 |

| | | |
|----|--|---------|
| 1 | (3) Kotzebue district heating and | |
| 2 | power feasibility and design | 120,000 |
| 3 | (4) Kotzebue coal utilization study | 100,000 |
| 4 | (5) Mary's Igloo -- design of an energy | |
| 5 | efficient community in conjunction with | |
| 6 | relocation | 50,000 |
| 7 | (6) Ouzinkie waste heat project | 700,000 |
| 8 | (7) Port Alexander wind project | 30,000 |
| 9 | (8) Saint Mary's waste heat and district | |
| 10 | heating study | 30,000 |

11 * Sec. 52. The sum of \$1,340,000 is appropriated from the general fund
 12 to the Alaska Energy Center for the following projects:

| | | |
|----|--|---------|
| 13 | (1) Holy Cross wind project | 40,000 |
| 14 | (2) Kotzebue wind generator | 200,000 |
| 15 | (3) Pilgrim Hot Springs geothermal project | 700,000 |
| 16 | (4) Sheldon Point wind project | 300,000 |
| 17 | (5) Skagway construction of wind | |
| 18 | generating system | 100,000 |

19 * Sec. 53. The sum of \$400,000 is appropriated from the general fund to
 20 the Alaska Energy Center for the Bering Straits wind project, including
 21 design and construction of wind energy systems in Golovin, Shishmaref,
 22 Teller, and White Mountain, and planning for project expansion to Brevig
 23 Mission, Buckland, Diomede, Savoonga, and Wales.

24 * Sec. 54. The sum of \$300,000 is appropriated from the general fund to
 25 the Legislative Council for the Joint Gas Pipeline Committee for a study of
 26 alternative methods of transporting Prudhoe Bay natural gas to market.

27 * Sec. 55. The sum of \$150,000 is appropriated from the general fund to
 28 the Legislative Council for a study of alternatives for consolidating or
 29 coordinating state agencies and state agency programs relating to energy.

1 * Sec. 56. The sum of \$600,000 is appropriated from the general fund to
2 the Legislative Council for the House Special Committee on Coal for a feasi-
3 bility study on site selection and rail and road connections for a major
4 coal export facility.

5 * Sec. 57. Section 1(1), ch. 54, SLA 1980 is repealed.

6 * Sec. 58. Sections 1 - 11 and 27 - 32 of this Act take effect on the
7 effective date of a version of Senate Bill No. 25' entitled "An Act relating
8 to energy; and providing for an effective date.", in which the maximum
9 interest rate on loans from the power project fund (AS 44.83.170) is set at
10 alternative rates of three percent or six percent, and in which an energy
11 conservation and management program is established in the Department of
12 Commerce and Economic Development.

13 * Sec. 59. Sections 12 - 26 and 33 - 57 of this Act take effect immedi-
14 ately in accordance with AS 01.10.070(c).

Terror Lake is an \$85 million 20 mw project that would provide power to Kodiak. Construction start is estimated for the Summer of 1981, and the project consists of an earth fill dam, four miles of power tunnel and 17 miles of transmission line. Funding to date (\$3. million) has been provided through the Power Authority Loan Fund, and long term financing is otherwise envisioned to be revenue bonds and Rural Electrification Administration. Power on line would be 1983 assuming a FERC license this summer.

Tyee Lake is a 20 mw project that would provide power to Petersburg, Wrangell and possibly Kake. The project consists of a high head lake tap, underground power tunnel, surface power house, and 80 miles of transmission line. Present day cost of the project is \$60 million of which \$17 million has been provided through a Power Authority loan for engineering, design, FERC license application and ordering of long lead time equipment. Power on line would be 1983 with major construction start in September, 1981. Original long term financing had been envisioned as Power Authority revenue bonds.

Green Lake is a 16.5 mw project presently under construction. Power from the project will be absorbed in the Sitka area with power on line estimated to be late 1981. To date, the state has provided roughly \$8 million toward the cost of construction with the remainder coming from revenue bonds (\$47 million). The project consists of a 200 foot high thin arch dam, 2000 foot of underground power tunnel, and attendant transmission line.

Swan Lake is presently under construction, and when complete, will provide 22 mw of power to the Ketchikan area. The project will consist of a thin arch dam, underground power tunnel and 25 miles of transmission line. Power on line is scheduled for late 1983. To date, \$21 million has been provided to the community through loans from the Power Project Loan Fund, and it had originally been envisioned that the balance of the (\$75 million) project financing would be provided by Power Authority revenue bonds. The latest bid on a portion of the project has been

received and interim financing is being sought by the Power Authority until a decision is reached on a long term plan of finance. Funds to date have been used for engineering and design, reservoir clearing and ordering of long lead time equipment.

Bradley Lake is a 70 mw project authorized for construction in 1961 by the Corps of Engineers. Present day cost of the project as estimated by the Corps of Engineers is \$180 million. The Corps has programmed another year of field explorations which would support a Corps request from Congress of construction funds in October 1982 with construction beginning in Spring 1983 if funds are forthcoming. State funding using the Corps may accelerate construction by a year. The project consists of a conventional lake tap, 17,000 feet of underground tunnel, a 100 foot high concrete gravity dam and attendant transmission line. Power market center would be the Kenai, Homer area. Power on line date under the State funded program would be 1985.

Chester Lake is a 2.5 mw project which would provide power to Metlakatla. The original cost estimated was provided by Retherford Engineers for the Community of Metlakatla. The project is basically in the reconnaissance stage, however, because all of the land is in private ownership, a Federal Energy Regulatory Commission license to construct would not be required. The reconnaissance study, cost estimate and method of construction have not been reviewed by the Power Authority, however, a detailed analysis would be conducted by the Authority if funds were forthcoming, before a commitment to construct were made.

Solomon Gulch is a 12 mw project that would provide power to Valdez and Glenallen. The project is presently under construction and power-on-line is estimated to be Summer of 1981. The project consists of a 200 foot high earthfill dam, surface mounted penstock and powerhouse and 100 miles of transmission line. Financing for the \$62 million project has been provided to date by the Rural Electrification Administration, the Federal Financing Bank, with roughly \$20 million yet to be provided by the Power Authority through revenue bonds.

Snettisham Ph. II would consist of a lake tap of Long Lake underground power tunnel, and generating units in the existing powerhouse. The project would be constructed by the Corps of Engineers, and has a present day cost of \$40 million. The Alaska Power Administration (Federal) projects a need for the project by 1987. This is a result of conversion in Juneau to electric heating.

Port Lyons would consist of a 250 kw project at a cost of \$1.5 million for the community of Port Lyons. Funds to date have been provided through the Power Authority loan fund (\$260,000) and the Federal Government (\$107,000). Absent a State program, the balance of funds needed for construction would come from the Federal REA and from Power Authority revenue bonds.

The Intertie would consist of a 345 kv transmission line operated originally at 138 kv between Anchorage and Fairbanks. Estimated cost of the project in present day dollars is \$70 million. The project would allow economy energy to be transferred from Anchorage to Fairbanks and would defer capital investments in Anchorage of roughly 60 mw of additional capacity. The project would consist of lines capable of providing for future major generation in the "railbelt" area and would secure sufficient right-of-way for future needs. Funding to date has consisted of \$3 million to the Power Authority for engineering, design, and right-of-way selection.

EY/mc2/5

STATE OF ALASKA
THE LEGISLATURE

POUCH Y - STATE CAPITOL
JUNEAU, ALASKA 99811
9C7-465-3800

LEGISLATIVE AFFAIRS AGENCY

MEMORANDUM

June 2, 1981

SUBJECT: HCS CSSSSB 26 (Finance)

TO: House Finance Committee
Attn: Bob Speed, House Resources Committee

FROM: John B. Chenoweth
Legislative Counsel

Former Secs. 8, 9, and 10 appear as Secs. 22 - 24. With reference to them and to Secs. 21 and 25, where in AS 44.83 is the Alaska Power Authority authorized to pay grants for projects? Also, with reference to each of them, to what party is an appropriation payable "as a grant"? You would be better advised to use the municipal grant fund to carry these off.

As to your first changes in the material last appearing as Sec. 1 of HCS CSSB 205 -- now Sec. 28 -- be advised that your total was incorrect.

You asked that former Sec. 37 be deleted, and I did so. However, that leaves Sec. 27 of this bill, and some of the following sections, dependent on the adoption of bills presently under consideration which may or may not pass. If this appropriation alone is approved, and the other legislation on which it depends is not adopted, you will have several appropriations in this legislation without companion authorizations. Please consider reinserting cross-reference effective date provisions back into this legislation.

JBC:ljb

Enclosure

Original sponsors: Kerttula, Ziegler,
Ferguson, et al

| | |
|----------------------------|----------------------|
| <u>Funding Information</u> | |
| General Fund | \$559,294,550 |
| Other Funds | -0- |
| | <u>\$559,294,550</u> |

1 IN THE SENATE BY THE FINANCE COMMITTEE

2 HOUSE CS FOR CS FOR SENATE BILL NO. 26 (Finance)

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 TWELFTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act making appropriations to various state agencies
7 for energy-related programs and projects, and repealing
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9 viding for an effective date."

10 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

11 * Section 1. The sum of \$265,900,000 is appropriated from the general
12 fund to the power development fund of the Alaska Power Authority (AS 44.83.-
13 400 - 44.83.510) for the following projects in the amounts specified after
14 each:

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|----|-------------------|--------------|
| 15 | (1) Bradley Lake | \$40,000,000 |
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| 18 | (4) Swan Lake | 53,000,000 |
| 19 | (5) Terror Lake | 81,500,000 |
| 20 | (6) Tyee Lake | 45,000,000 |

21 * Sec. 2. The sum of \$76,000,000 is appropriated from the general fund
22 to the power development fund of the Alaska Power Authority (AS 44.83.400 -
23 44.83.510) for acquisition of a right-of-way for and design and construction
24 of a high voltage electrical transmission system connecting Anchorage and
25 Fairbanks.

26 * Sec. 3. The sum of \$700,000 is appropriated from the general fund to
27 the power development fund of the Alaska Power Authority (AS 44.83.400 -
28 44.83.510) for acquisition of a right-of-way for and design and construction
29 of an electrical transmission system connecting Craig and Klawock.

1 * Sec. 4. The sum of \$200,000 is appropriated from the general fund to
 2 the power development fund of the Alaska Power Authority (AS 44.83.400 -
 3 44.83.510) for construction of a single wire ground return transmission line
 4 between Kobuk and Shungnak.

5 * Sec. 5. The sum of \$3,250,000 is appropriated from the general fund to
 6 the power development fund of the Alaska Power Authority (AS 44.83.400 -
 7 44.83.510) for phase I of a transmission line between Barrow and Atkasook.

8 * Sec. 6. The sum of \$60,618,000 is appropriated from the general fund
 9 to the power development fund of the Alaska Power Authority (AS 44.83.400 -
 10 44.83.510) for a loan to the City and Borough of Sitka for completion of the
 11 Green Lake hydroelectric project, to defease or to provide for the payment
 12 of debt service on revenue bonds issued by the City and Borough of Sitka for
 13 the Green Lake hydroelectric project, and for other costs incidental to the
 14 Green Lake hydroelectric project.

15 * Sec. 7. The sum of \$36,900,000 is appropriated from the general fund
 16 to the Alaska Power Authority for feasibility studies, preconstruction
 17 design, and engineering, to be allocated to the following proposed power
 18 projects:

| | | |
|----|---|------------|
| 19 | (1) Black Bear Lake | 2,000,000 |
| 20 | (2) Chester Lake | 1,000,000 |
| 21 | (3) Chakachamna Lake | 1,000,000 |
| 22 | (4) Grant Lake | 1,000,000 |
| 23 | (5) Bethel regional study/Kisaralik | 1,000,000 |
| 24 | (6) Power Creek | 700,000 |
| 25 | (7) Snettisham (Crater Lakes) | 4,500,000 |
| 26 | (8) Susitna | 18,100,000 |
| 27 | (9) Tazimina Lake | 2,000,000 |
| 28 | (10) Rural community feasibility studies: Akhiok, | |
| 29 | Ambler, Angoon, Atka, Chignik, Chignik | |

1 Lagoon, Chignik Lake, Chuathbaluk, Cold Bay,
 2 Elim, False Pass, Goodnews Bay, Grayling,
 3 Gustavus, Ivanoff Bay, Kaltag, Karluk,
 4 Kiana, King Cove, Larsen Bay, Nikolski,
 5 Old Harbor, Perryville, Scammon Bay,
 6 Shungnak, Tenakee Springs, Togiak,
 7 Unalaska 5,600,000

8 * Sec. 8. The sum of \$560,000 is appropriated from the general fund to
 9 the Alaska Power Authority for reconnaissance studies for proposed energy
 10 project sites for the following rural communities: Alatna, Aniak, Atkasook,
 11 Brevig Mission, Chefnak, Craig, Diomede, Galena, Golovin, Hooper Bay,
 12 Kalskag, Kotlik, Koyuk, Lower Kalskag, Mekoryuk, New Chenega, Newtok,
 13 Nightmute, Ouzinkie, Ruby, Saint George, Saint Mary's, Saint Michael, Saint
 14 Paul, Shageluk, Shishmaref, Stebbins, Teller, Toksook Bay, Tununak,
 15 Unalakleet, and Yakutat.

16 * Sec. 9. The sum of \$996,000 is appropriated from the general fund to
 17 the Alaska Power Authority for a feasibility study examining design and
 18 construction of an electrical transmission system between Hoonah and Juneau.

19 * Sec. 10. The sum of \$42,000 is appropriated from the general fund to
 20 the Alaska Power Authority for a feasibility study regarding improvements to
 21 hydroelectric facilities for Pelican.

22 * Sec. 11. The sum of \$4,500,000 is appropriated from the general fund
 23 to the Alaska Power Authority for design and engineering for the Lake Elva
 24 hydroelectric project.

25 * Sec. 12. The sum of \$50,000 is appropriated from the general fund to
 26 the Alaska Power Authority for a feasibility study relating to reactivation
 27 of an abandoned hydroelectric site at Chitina.

28 * Sec. 13. The sum of \$440,000 is appropriated from the general fund to
 29 the Alaska Power Authority for a feasibility study of the Fairbanks district

1 heating extension.

2 * Sec. 14. The sum of \$1,400,000 is appropriated from the general fund
3 to the Alaska Power Authority for a feasibility study and for advanced
4 design and engineering of an electrical transmission system between Valdez
5 and Cordova, and for a feasibility study and advanced design and engineering
6 of an electrical transmission system between Valdez and Cordova, and for a
7 feasibility study and advanced design and engineering of small-scale hydro-
8 electric sites along the route of the transmission system.

9 * Sec. 15. The sum of \$600,000 is appropriated from the general fund to
10 the Alaska Power Authority for a feasibility study of a coal-fired power
11 plant for Cordova.

12 * Sec. 16. The sum of \$4,000,000 is appropriated from the general fund
13 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
14 loan to the City of Fairbanks for district heating.

15 * Sec. 17. The sum of \$4,000,000 is appropriated from the general fund
16 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
17 loan to Alaska Electric Light and Power Company for construction of trans-
18 mission and distribution facilities.

19 * Sec. 18. The sum of \$3,000,000 is appropriated from the general fund
20 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
21 loan to Alaska Electric Light and Power Company for rehabilitation of Salmon
22 Creek II.

23 * Sec. 19. The sum of \$10,000,000 is appropriated from the general fund
24 to the power project fund of the Alaska Power Authority (AS 44.83.170) for
25 rural electrification loans.

26 * Sec. 20. The sum of \$8,000,000 is appropriated from the general fund
27 to the Alaska Power Authority for the power production cost assistance fund
28 (AS 44.83.162).

29 * Sec. 21. The sum of \$125,000 is appropriated from the general fund to

1 the Alaska Power Authority as grants for waste heat projects in Crooked
2 Creek and Chuathbaluk.

3 * Sec. 22. The sum of \$150,000 is appropriated from the general fund to
4 the Alaska Power Authority as a grant for a waste heat project at McGrath.

5 * Sec. 23. The sum of \$380,000 is appropriated from the general fund to
6 the Alaska Power Authority as a grant for design and construction of a waste
7 heat project at Unalaska.

8 * Sec. 24. The sum of \$961,000 is appropriated from the general fund to
9 the Alaska Power Authority as a grant for an electrical transmission system
10 at Nondalton.

11 * Sec. 25. The sum of \$5,000,000 is appropriated from the general fund
12 to the Alaska Power Authority for geothermal well drilling at Unalaska.

13 * Sec. 26. The sum of \$4,245,300 is appropriated from the general fund
14 to the Department of Administration for payment as grants in accordance with
15 AS 37.05.315 to the following cities for the purposes and in the amounts set
16 out after each:

| | | |
|----|---|---------|
| 17 | (1) Allakaket generator | 12,600 |
| 18 | (2) Atmautluak electrification | 625,000 |
| 19 | (3) Diomedea electrification | 106,000 |
| 20 | (4) Ekwok generator | 25,000 |
| 21 | (5) Golovin electrification | 225,200 |
| 22 | (6) Hooper Bay generator | 34,000 |
| 23 | (7) Kotlik electrification | 65,000 |
| 24 | (8) Napaskiak electrification | 215,000 |
| 25 | (9) Newhalen generators and electrification | 730,000 |
| 26 | (10) Newtok electrification | 190,000 |
| 27 | (11) Nome electric utility facilities upgrade | 943,000 |
| 28 | (12) Ruby electrification | 73,000 |
| 29 | (13) Russian Mission generator | 30,000 |

1 (14) Shaktoolik power lines 53,500

2 (15) Tuluksak electrification 148,000

3 (16) Unalaska electrification 600,000

4 (17) White Mountain electrification 170,000

5 * Sec. 27. The sum of \$12,000,000 is appropriated from the general fund
6 to the Department of Commerce and Economic Development, division of energy
7 and power development, for energy conservation assistance and weatheri-
8 zation.

9 * Sec. 28. The sum of \$2,050,000 is appropriated from the general fund
10 to the Department of Commerce and Economic Development, division of energy
11 and power development, for energy planning, to be allocated as follows:

12 preparation of state energy plan \$700,000

13 regional energy planning under contract

14 with nonprofit corporations 600,000

15 energy emergency contingency planning 150,000

16 municipal energy management and

17 planning contracts 600,000

18 * Sec. 29. The sum of \$250,000 is appropriated from the general fund to
19 the Department of Commerce and Economic Development, division of energy and
20 power development, for energy activities as follows:

21 state-federal liaison \$125,000

22 energy information 125,000

23 * Sec. 30. The sum of \$10,000,000 is appropriated from the general fund
24 to the Department of Commerce and Economic Development, division of energy
25 and power development, for energy conservation refunds, grants, and residen-
26 tial energy audits.

27 * Sec. 31. The sum of \$15,000,000 is appropriated from the general fund
28 to the Department of Commerce and Economic Development, division of small
29 business loans, for alternative energy and energy conservation loan programs.

1 * Sec. 32. The sum of \$2,430,500 is appropriated from the general fund
 2 to the Department of Commerce and Economic Development, division of energy
 3 and power development, for a grant to the Fairbanks North Star Borough for
 4 phase I of an energy management program.

5 * Sec. 33. The sum of \$2,400,000 is appropriated from the general fund
 6 to the Department of Community and Regional Affairs for the bulk fuel storage
 7 facilities grant fund (AS 44.47.145).

8 * Sec. 34. The sum of \$1,879,100 is appropriated from the general fund
 9 to the Department of Community and Regional Affairs for payment as grants in
 10 accordance with AS 37.05.315(f) to the following unincorporated communities
 11 for the purposes and in the amounts set out after each:

| | | |
|----|----------------------------------|---------|
| 12 | (1) Alatna generator | 36,000 |
| 13 | (2) Arctic Village generator | 26,400 |
| 14 | (3) Chalkyitsik electrification | 103,000 |
| 15 | (4) Circle electrification | 81,700 |
| 16 | (5) Dot Lake generator | 12,000 |
| 17 | (6) Kongiganak electrification | 135,000 |
| 18 | (7) Kwigillingok electrification | 120,000 |
| 19 | (8) Levelock electrification | 450,000 |
| 20 | (9) Perryville electrification | 145,000 |
| 21 | (10) Pilot Point electrification | 450,000 |
| 22 | (11) Tatitlek generator | 70,000 |
| 23 | (12) Tuntutuliak electrification | 250,000 |

24 * Sec. 35. The sum of \$400,000 is appropriated from the general fund to
 25 the Department of Community and Regional Affairs for payment as a grant in
 26 accordance with AS 37.05.315 to the Kuskokwim Native Association for electri-
 27 fication of Chuathbaluk, Crooked Creek, Sleetmute, and Stony River.

28 * Sec. 36. The sum of \$1,708,000 is appropriated from the general fund
 29 to the Department of Community and Regional Affairs for payment as a grant

1 in accordance with AS 37.05.315 to the Mauneluk Association for energy
2 conservation systems in Ambler, Deering, Kiana, Kivalina, Kobuk, Noatak,
3 Noorvik, Selawik, and Shungnak.

4 * Sec. 37. The sum of \$100,000 is appropriated from the general fund to
5 the Department of Natural Resources for a coal resource investigation on
6 Saint Lawrence Island.

7 * Sec. 38. The sum of \$1,300,000 is appropriated from the general fund
8 to the Department of Natural Resources for a northwest Alaska coal resources
9 investigation.

10 * Sec. 39. The sum of \$550,000 is appropriated from the general fund to
11 the Department of Transportation and Public Facilities for installation of
12 coal-fired heating systems in the schools of the Railbelt and Delta-Greely
13 regional educational attendance areas.

14 * Sec. 40. The sum of \$250,000 is appropriated from the general fund to
15 the Office of the Governor for the fuel emergency fund (AS 44.19.052).

16 * Sec. 41. The sum of \$350,000 is appropriated from the general fund to
17 the University of Alaska for energy conservation improvements.

18 * Sec. 42. The sum of \$150,000 is appropriated from the general fund to
19 the University of Alaska for upper division and graduate course curriculum
20 development for energy courses and energy-related studies.

21 * Sec. 43. The sum of \$200,000 is appropriated from the general fund to
22 the University of Alaska, division of community colleges and rural education,
23 for development of energy studies within community college curricula.

24 * Sec. 44. The sum of \$200,000 is appropriated from the general fund to
25 the University of Alaska, division of community colleges and rural education,
26 for vocational and job training programs related to renewable energy and
27 energy conservation.

28 * Sec. 45. The sum of \$200,000 is appropriated from the general fund to
29 the University of Alaska, energy alternatives program (School of Agriculture

1 and Land Resources Management) for teacher training and curriculum develop-
 2 ment and for television programming relating to energy-related subjects in
 3 elementary and secondary school curricula.

4 * Sec. 46. The sum of \$1,664,650 is appropriated from the general fund
 5 to the Alaska Energy Center for a grant to the Fairbanks North Star Borough
 6 for the following purposes:

| | | |
|---|---------------------------|------------|
| 7 | solar collector retrofit, | |
| 8 | phase I | \$ 404,000 |
| 9 | waste heat greenhouses | 1,260,650 |

10 * Sec. 47. The sum of \$6,400,000 is appropriated from the general fund
 11 to the Alaska Energy Center for research, development, and demonstration
 12 projects under AS 37.25.030.

13 * Sec. 48. The sum of \$1,500,000 is appropriated from the general fund
 14 to the Alaska Energy Center for an economic feasibility study and precon-
 15 struction costs for a plant in southcentral Alaska which uses developed
 16 technology to process peat for fuel for export and domestic use.

17 * Sec. 49. The sum of \$75,000 is appropriated from the general fund to
 18 the Alaska Energy Center for a grant to the Fairbanks North Star Borough for
 19 a solar energy system for the Mary Siah Recreation Center.

20 * Sec. 50. The sum of \$4,030,000 is appropriated from the general fund
 21 to the Alaska Energy Center for the following feasibility studies relating
 22 to energy projects of the center:

| | | |
|----|--|-----------|
| 23 | (1) Angoon tidal power project | 500,000 |
| 24 | (2) Kodiak waste heat cogeneration project | 2,500,000 |
| 25 | (3) Kotzebue district heating and | |
| 26 | power feasibility and design | 120,000 |
| 27 | (4) Kotzebue coal utilization study | 100,000 |
| 28 | (5) Mary's Igloo -- design of an energy | |
| 29 | efficient community in conjunction with | |

| | | |
|---|--|---------|
| 1 | relocation | 50,000 |
| 2 | (6) Ouzinkie waste heat project | 700,000 |
| 3 | (7) Port Alexander wind project | 30,000 |
| 4 | (8) Saint Mary's waste heat and district | |
| 5 | heating study | 30,000 |

6 * Sec. 51. The sum of \$1,340,000 is appropriated from the general fund
7 to the Alaska Energy Center for the following projects:

| | | |
|----|--|---------|
| 8 | (1) Holy Cross wind project | 40,000 |
| 9 | (2) Kotzebue wind generator | 200,000 |
| 10 | (3) Pilgrim Hot Springs geothermal project | 700,000 |
| 11 | (4) Sheldon Point wind project | 300,000 |
| 12 | (5) Skagway construction of wind | |
| 13 | generating system | 100,000 |

14 * Sec. 52. The sum of \$400,000 is appropriated from the general fund to
15 the Alaska Energy Center for the Bering Straits wind project, including
16 design and construction of wind energy systems in Golovin, Shishmaref,
17 Teller, and White Mountain, and planning for project expansion to Brevig
18 Mission, Buckland, Diomedes, Savoonga, and Wales.

19 * Sec. 53. The sum of \$300,000 is appropriated from the general fund to
20 the Legislative Council for the Joint Gas Pipeline Committee for a study of
21 alternative methods of transporting Prudhoe Bay natural gas to market.

22 * Sec. 54. The sum of \$150,000 is appropriated from the general fund to
23 the Legislative Council for a study of an energy agency organization.

24 * Sec. 55. Section 1(1), ch. 54, SLA 1980 is repealed.

25 * Sec. 56. Sections 1 - 6 of this Act take effect on the effective date
26 of a version of Senate Bill No. 25 entitled "An Act relating to energy
27 projects and programs of the Alaska Power Authority; and providing for an
28 effective date.", in which the power development fund is established.

29 * Sec. 57. Section 29 of this Act takes effect on the effective date of

1 a version of an Act entitled "An Act establishing assistance and information
2 programs on energy in the Department of Commerce and Economic Development;
3 and providing for an effective date."

4 * Sec. 58. Sections 7 - 28 and 30 - 55 of this Act take effect immedi-
5 ately in accordance with AS 01.10.070(c).

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AMENDMENT

OFFERED IN THE HOUSE:

By: Adams

To: _____ HOUSE BILL No. HCS CSSSSB 26

Sec. 38

SENATE BILL No. _____

PAGE: 8

LINE: 8

The sum of \$1,300,000 is appropriated from the general fund to the Dept. of Natural Resources for After "for" delete the remainder of the section, and add "phases III and IV of the Northwest Alaska Coal Resources Investigation, including reconnaissance drilling at the Chicago Creek, Point Hope, Point Lay and Kiana (Kobuk River) areas."

House CS ~~SB~~ 26 (Finance)

Amendment by Buchholdt
moved by Cotten

5 ⁵⁶ * Sec. ~~44~~ The sum of ^{600,000} ~~999,000~~ is appropriated from the general fund
6 to the Legislative Council for the House Special Committee on Coal for a
7 feasibility study concerning site selection and rail and road connections
8 for a major coal export facility.

1 to the Department of Community and Regional Affairs for payment as a grant
2 in accordance with AS 37.05.315 to the Mauneluk Association for energy
3 conservation systems in Ambler, Deering, Kiana, Kivalina, Kobuk, Noatak,
4 Noorvik, Selawik, and Shungnak.

5 * Sec. 37. The sum of \$100,000 is appropriated from the general fund to
6 the Department of Natural Resources for a coal resource investigation on
7 Saint Lawrence Island.

8 ~~* Sec. 38. The sum of \$1,300,000 is appropriated from the general fund~~
9 ~~to the Department of Natural Resources for a Northwest Alaska Coal Resources~~
10 ~~investigation including drilling~~
ADD NEW SEC 38 (COPY ATTACH 25))
phases III + IV of the

11 * Sec. 39. The sum of \$5,000,000 is appropriated from the general fund
12 to the Department of Natural Resources, division of geological and geo-
13 physical surveys, for geothermal well drilling at Unalaska.

14 * Sec. 40. The sum of \$550,000 is appropriated from the general fund to
15 the Department of Transportation and Public Facilities for installation of
16 coal-fired heating systems in the schools of the Railbelt [and Delta-Greely]
17 regional educational attendance areas.

18 * Sec. 41. The sum of \$250,000 is appropriated from the general fund to
19 the Office of the Governor for the fuel emergency fund (AS 44.19.052).

20 * Sec. 42. The sum of \$350,000 is appropriated from the general fund to
21 the University of Alaska for energy conservation improvements.

22 * Sec. 43. The sum of \$150,000 is appropriated from the general fund to
23 the University of Alaska for upper division and graduate course curriculum
24 development for energy courses and energy-related studies.

25 * Sec. 44. The sum of \$200,000 is appropriated from the general fund to

THE LEGISLATURE OF THE STATE OF ALASKA
ELEVENTH LEGISLATURE

FISCAL NOTE

I. REQUEST

Bill/Resolution No. HCSCSSB 26 (Finance) (EFD Failed)
 Title An Act making appropriations to various State agencies for energy
 Requested by related programs and projects and repeal Date June 18, 1981
ing a 1980 appropriations for poer projects

II. FISCAL DETAIL

Agency Affected Department of Commerce and Economic Development
 Program Category Affected Development
 BRU, Program, or Subprogram(s) Affected Division of Business Loans
 (Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

| | FY 80 | FY 81 | FY 82 | FY 83 | FY 84 | FY 85 |
|--------------------------|-------|-------|-------|-------|-------|-------|
| 100 PERSONAL SERVICES | | | 157.3 | 24.7 | | |
| 200 TRAVEL | | | 21.2 | | | |
| 300 CONTRACTUAL | | | 35.9 | | | |
| 400 COMMODITIES | | | 1.5 | | | |
| 500 EQUIPMENT | | | | | | |
| 600 LAND & STRUCTURES | | | | | | |
| 700 GRANTS, CLAIMS, ETC. | | | | | | |
| TOTAL | | | 215.9 | 24.7 | | |

FUNDING (Thousands of Dollars)

| | | | | | | |
|-----------------------------|--|--|-------|------|--|--|
| GENERAL FUND | | | 215.9 | 24.7 | | |
| FEDERAL FUNDS | | | | | | |
| OTHER (Specify Fund Source) | | | | | | |

POSITIONS

| | | | | | | |
|-----------|--|--|---|---|--|--|
| FULL TIME | | | 5 | 1 | | |
| PART TIME | | | | | | |
| TEMPORARY | | | | | | |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

HCSCSSB 26 provides a total of \$10,000,000 for energy loans. To administer these loan funds, this division will require: A Loan Examiner I/II in each regional office, a Documents Processing Clerk III to handle this volume in Anchorage and an Accounting Clerk III in Juneau to handle the loan disbursements and receipt of payments. If no further funding is appropriated for FY 83, the loans generated from this \$10,000,000 can be serviced by one Accounting Clerk III in Juneau.

IV. DATE June 18, 1981

PREPARED BY [Signature] Hostler, Acting Director
 AGENCY Department of Commerce & Economic Development
 PHONE Division of Business Loans 2510

Original: Legislative Finance
 cc: Budget and Management
 Prime Sponsor (First Legislator Named)

FISCAL NOTE DETAIL

HCSCSSB 26 (Finance) (EFD Failed) Energy Appropriations

| | | | |
|-----|---|--------------|--------------|
| 100 | 2 Loan Examiner I/II's @\$2,455/mo. ea. | 68.0 | |
| | 1 Loan Examiner I/II @\$2,837/mo. | 34.1 | |
| | 1 Documents Processing Clerk III @\$1,564/mo. | 18.8 | |
| | 1 Accounting Clerk III @\$1,564/mo. | 18.8 | |
| | TOTAL WAGES | <u>139.7</u> | |
| | Standard Benefits (Wages x .1555) | 21.7 | |
| | Supplemental Benefits (Wages x .0613) | 8.6 | |
| | Health Insurance (man months x \$150) | <u>9.0</u> | |
| | TOTAL PERSONAL SERVICES | | 157.3 |
| 200 | Trips to Inspect Projects and Close Loans | | |
| | 36 Trips @\$450 | 16.2 | |
| | 72 Days Per Diem @\$70 | <u>5.0</u> | |
| | TOTAL TRAVEL | | 21.2 |
| 300 | Telephone and Postage | 16.5 | |
| | Printing and Advertising | 5.5 | |
| | Office Space | <u>13.9</u> | |
| | TOTAL CONTRACTUAL | | 35.9 |
| 400 | Office Supplies (Commodities) | | <u>1.5</u> |
| | TOTAL OPERATING COSTS | | <u>215.9</u> |

THE LEGISLATURE OF THE STATE OF ALASKA
TWELFTH LEGISLATURE

FISCAL NOTE

I. REQUEST

Bill/Resolution No. House CS for CS for Senate Bill No. 26 (Resources)
 Title Appropriations to State agencies for energy-related programs and projects.
 Requested by House Finance Committee Date May 28, 1981

II. FISCAL DETAIL

Agency Affected Department of Community and Regional Affairs
 Program Category Affected Development
 BRU, Program, or Subprogram(s) Affected Local Government Assistance
 (Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)
EXPENDITURES (Thousands of Dollars)

| | FY 81 | FY 82 | FY 83 | FY 84 | FY 85 | FY 86 |
|--------------------------|-------|--------------|--------------|--------------|--------------|--------------|
| 100 PERSONAL SERVICES | | 87.6 | 94.6 | 102.2 | 110.4 | 119.2 |
| 200 TRAVEL | | 20.7 | 22.3 | 24.1 | 26.0 | 28.1 |
| 300 CONTRACTUAL | | 10.8 | 11.6 | 12.6 | 13.6 | 14.6 |
| 400 COMMODITIES | | .4 | .4 | .5 | .5 | .5 |
| 500 EQUIPMENT | | 3.4 | -0- | -0- | -0- | -0- |
| 600 LAND & STRUCTURES | | -0- | -0- | -0- | -0- | -0- |
| 700 GRANTS, CLAIMS, ETC. | | | | | | |
| TOTAL | | 122.9 | 128.9 | 139.4 | 150.5 | 162.4 |

FUNDING (Thousands of Dollars)

| | | | | | | |
|-----------------------------|--|-------|-------|-------|-------|-------|
| GENERAL FUND | | 122.9 | 128.9 | 139.4 | 150.5 | 162.4 |
| FEDERAL FUNDS | | -0- | -0- | -0- | -0- | -0- |
| OTHER (Specify Fund Source) | | -0- | -0- | -0- | -0- | -0- |

POSITIONS

| | | | | | | |
|-----------|--|-----|-----|-----|-----|-----|
| FULL TIME | | 2 | 2 | 2 | 2 | 2 |
| PART TIME | | -0- | -0- | -0- | -0- | -0- |
| TEMPORARY | | -0- | -0- | -0- | -0- | -0- |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

See attached back-up information.

IV. DATE May 28, 1981 PREPARED BY Mckie Campbell
 AGENCY Department of Community & Regional Affairs
 PHONE 465-4735
 Original: Legislative Finance
 cc: Budget and Management
 Prime Sponsor (First Legislator Named)

Fiscal Note Continued -- HCS for CS for SB #26 (Resources)

III ANALYSIS

Costs of this bill are shown by section.

PERSONAL SERVICES

Section 28 - Unless SB 422, which would raise the limit on individual bulk fuel storage facility grants from \$60,000 to \$100,000, becomes law, raising the bulk fuel storage facility grant fund appropriation above the Governor's budget request of \$1.08 million would cause severe administrative problems.

If SB 422 passes, the appropriation could be raised to \$1.8 million without creating a need for additional staff. This amount would fund approximately the same number of grants with a \$100,000 upper limit as \$1.08 million would with a \$60,000 grant limit.

At a funding level of either \$1.08 million or \$1.8 million with a \$100,000 grant limit, the Public Facilities Planner II position listed below would not be needed.

If the program is funded at \$2.4 million, a Public Facilities Planner II position would be required. The person in this position would be in charge of the bulk fuel program and existing bulk fuel positions and would bring additional engineering expertise to the program.

| | |
|------------------------------|--------------------|
| Public Facilities Planner II | |
| Range 21 | Step A |
| Salary | \$39,816.00 |
| Benefits | 6,119.72 |
| SBS | 2,004.00 |
| Health Insurance | 1,848.00 |
| | <u>\$49,787.72</u> |

Section 29 - This section would create a new program in the department (though we are currently funding rural electrification under the R.D.A. and Legislative Grant programs). One local Government Specialist position would be necessary to administer these funds.

Local Government Specialist III

| | |
|------------------|-----------------|
| Range 17 | Step A |
| Salary | \$29,460 |
| Benefits | 4,528 |
| SBS | 2,004 |
| Health Insurance | 1,848 |
| | <u>\$37,840</u> |

TRAVEL

Section 28

| | |
|--|----------------|
| 14 trips at an average price of \$390 each | \$5,460 |
| 28 days x \$70 per diem (state average) | <u>\$1,960</u> |

Section 29

| | |
|--|-----------------|
| 25 trips at an average price of \$390 each | \$ 9,750 |
| 50 days x \$70 per diem (state average) | \$ 3,500 |
| Total Travel | <u>\$20,670</u> |

EQUIPMENT (one time cost)

Section 28

| | |
|---------------------|----------------|
| 1 desk | \$483 |
| 1 chair | \$154 |
| 1 calculator | \$250 |
| 1 dictating machine | \$740 |
| 1 plastic floor mat | \$ 40 |
| 1 trash can | \$ 10 |
| | <u>\$1,677</u> |

Section 29

SAME TOTAL EQUIPMENT \$3,354

Section 28

Space for 1 person
\$1.50 x 150 square feet x 12 months = \$2,700

Telephone
Basic Service \$285 per year
Long Distance \$1,800 per year TOTAL \$2,085

Printing \$200
Advertising \$200
Postage \$200

Section 29

SAME

TOTAL CONTRACTUAL \$11,770

COMMODITIES

Section 28

\$200 per year

Section 29

\$200 per year TOTAL COMMODITIES \$400

Rec'd 6/10/81

THE LEGISLATURE OF THE STATE OF ALASKA
ELEVENTH LEGISLATURE

FISCAL NOTE

I. REQUEST

Bill/Resolution No. HCSCSSB 26 (Finance) (EFD Failed)
Title An Act making appropriations to various State agencies for energy related programs
Requested by and projects and repealing a 1980 appropriation Date
for a power project.

II. FISCAL DETAIL

Agency Affected Department of Commerce and Economic Development
Program Category Affected Development
BRU, Program, or Subprogram(s) Affected Division of Business Loans
(Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

| | FY 80 | FY 81 | FY 82 | FY 83 | FY 84 | FY 85 |
|--------------------------|-------|--------------|--------------|--------------|--------------|--------------|
| 100 PERSONAL SERVICES | | 180.7 | 198.8 | 218.6 | 240.5 | 264.6 |
| 200 TRAVEL | | 11.2 | 12.3 | 13.6 | 14.9 | 16.4 |
| 300 CONTRACTUAL | | 36.5 | 40.2 | 44.2 | 48.6 | 53.4 |
| 400 COMMODITIES | | 2.1 | 2.3 | 2.5 | 2.8 | 3.7 |
| 500 EQUIPMENT | | | | | | |
| 600 LAND & STRUCTURES | | | | | | |
| 700 GRANTS, CLAIMS, ETC. | | | | | | |
| TOTAL | | 230.5 | 253.6 | 278.9 | 306.8 | 338.1 |

FUNDING (Thousands of Dollars)

| | | | | | | |
|-----------------------------|--|-------|-------|-------|-------|-------|
| GENERAL FUND | | 230.5 | 253.6 | 278.9 | 306.8 | 338.1 |
| FEDERAL FUNDS | | | | | | |
| OTHER (Specify Fund Source) | | | | | | |

POSITIONS

| | | | | | | |
|-----------|--|---|---|---|---|---|
| FULL TIME | | 5 | 5 | 5 | 5 | 5 |
| PART TIME | | | | | | |
| TEMPORARY | | | | | | |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

This fiscal note is the same as fiscal note #1 for CSSSHB 9 (SA) prepared by Representative Oral Freeman, Vice Chairman House Finance Committee. This fiscal note is based on the \$15,000,000 this bill appropriates to the Alternative Technology and Energy and Residential Energy Conservation Loan Programs. If this fiscal note passes with HCSCSSB 26 (Finance) (EFD failed), we will not need the funding fiscal note #1 for CSSSHB 9 (SA) provides.

IV. DATE June, 1981 PREPARED BY D. A. Hostak, Acting Director
AGENCY Div. of Business Loans, Dept. of Com. & Eco. Dev.
PHONE 465-2510
Original: Legislative Finance
cc: Budget and Management
Prime Sponsor (First Legislator Named)

Original sponsors: Kerttula, Ziegler,
Ferguson, et al

Funding Information

General Fund \$559,944,550
Other Funds -0-
\$559,944,550

1 IN THE SENATE

BY THE FINANCE COMMITTEE

2 HOUSE CS FOR CS FOR SENATE BILL NO. 26 (Finance)

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 TWELFTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act making appropriations to various state agencies
7 for energy-related programs and projects, and repealing
8 a 1980 appropriation for a power project; and pro-
9 viding for an effective date."

10 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

11 * Section 1. The sum of \$265,900,000 is appropriated from the general
12 fund to the power project fund of the Alaska Power Authority (AS 44.83.170)
13 for the following projects in the amounts specified after each:

| | | |
|----|-------------------|--------------|
| 14 | (1) Bradley Lake | \$40,000,000 |
| 15 | (2) Port Lions | 1,400,000 |
| 16 | (3) Solomon Gulch | 45,000,000 |
| 17 | (4) Swan Lake | 53,000,000 |
| 18 | (5) Terror Lake | 81,500,000 |
| 19 | (6) Tyee Lake | 45,000,000 |

20 * Sec. 2. The sum of \$76,000,000 is appropriated from the general fund
21 to the power project fund of the Alaska Power Authority (AS 44.83.170) for
22 acquisition of a right-of-way for and design and construction of a high
23 voltage electrical transmission system connecting Anchorage and Fairbanks.

24 * Sec. 3. The sum of \$750,000 is appropriated from the general fund to
25 the power project fund of the Alaska Power Authority (AS 44.83.170) for
26 acquisition of a right-of-way for and design and construction of an electri-
27 cal transmission system connecting Craig and Klawock.

28 * Sec. 4. The sum of \$200,000 is appropriated from the general fund to
29 the power project fund of the Alaska Power Authority (AS 44.83.170) for

1 construction of a single wire ground return transmission line between Kobuk
2 and Shungnak.

3 * Sec. 5. The sum of \$3,250,000 is appropriated from the general fund to
4 the power project fund of the Alaska Power Authority (AS 44.83.170) for
5 phase I of a transmission line between Barrow and Atkasook.

6 * Sec. 6. The sum of \$60,618,000 is appropriated from the general fund
7 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
8 loan to the City and Borough of Sitka for completion of the Green Lake
9 hydroelectric project, to defease or to provide for the payment of debt
10 service on revenue bonds issued by the City and Borough of Sitka for the
11 Green Lake hydroelectric project, and for other costs incidental to the
12 Green Lake hydroelectric project.

13 * Sec. 7. The sum of \$4,000,000 is appropriated from the general fund to
14 the power project fund of the Alaska Power Authority (AS 44.83.170) for a
15 loan to the City of Fairbanks for district heating.

16 * Sec. 8. The sum of \$4,000,000 is appropriated from the general fund to
17 the power project fund of the Alaska Power Authority (AS 44.83.170) for a
18 loan to Alaska Electric Light and Power Company for construction of trans-
19 mission and distribution facilities.

20 * Sec. 9. The sum of \$3,000,000 is appropriated from the general fund to
21 the power project fund of the Alaska Power Authority (AS 44.83.170) for a
22 loan to Alaska Electric Light and Power Company for rehabilitation of Salmon
23 Creek II.

24 * Sec. 10. The sum of \$9,000,000 is appropriated from the general fund
25 to the power project fund of the Alaska Power Authority (AS 44.83.170) for
26 rural electrification loans.

27 * Sec. 11. The sum of \$1,000,000 is appropriated from the general fund
28 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
29 loan to the Bethel Utilities Corporation for construction of waste heat

1 facilities.

2 * Sec. 12. The sum of \$36,900,000 is appropriated from the general fund
3 to the Alaska Power Authority for feasibility studies, preconstruction
4 design, and engineering, to be allocated to the following proposed power
5 projects:

| | | |
|----|---|------------|
| 6 | (1) Black Bear Lake | 2,000,000 |
| 7 | (2) Chester Lake | 1,000,000 |
| 8 | (3) Chakachamna Lake | 1,000,000 |
| 9 | (4) Grant Lake | 1,000,000 |
| 10 | (5) Bethel regional study/Kisaralik | 1,000,000 |
| 11 | (6) Power Creek | 700,000 |
| 12 | (7) Snettisham (Crater Lakes) | 4,500,000 |
| 13 | (8) Susitna | 18,100,000 |
| 14 | (9) Tazimina Lake | 2,000,000 |
| 15 | (10) Rural community feasibility studies: Akhiok, | |
| 16 | Ambler, Angoon, Atka, Chignik, Chignik | |
| 17 | Lagoon, Chignik Lake, Chuathbaluk, Cold Bay, | |
| 18 | Elim, False Pass, Goodnews Bay, Grayling, | |
| 19 | Gustavus, Ivanoff Bay, Kaltag, Karluk, | |
| 20 | Kiana, King Cove, Larsen Bay, Nikolski, | |
| 21 | Old Harbor, Perryville, Scammon Bay, | |
| 22 | Shungnak, Tenakee Springs, Togiak, | |
| 23 | Unalaska | 5,600,000 |

24 * Sec. 13. The sum of \$560,000 is appropriated from the general fund to
25 the Alaska Power Authority for reconnaissance studies for proposed energy
26 project sites for the following rural communities: Alatna, Aniak, Atkasook,
27 Brevig Mission, Chefornak, Craig, Diomede, Galena, Golovin, Hooper Bay,
28 Kalskag, Kotlik, Koyuk, Lower Kalskag, Mekoryuk, New Chenega, Newtok,
29 Nightmute, Ouzinkie, Ruby, Saint George, Saint Mary's, Saint Michael, Saint

1 Paul, Shageluk, Shishmaref, Stebbins, Teller, Toksook Bay, Tununak,
2 Unalakleet, and Yakutat.

3 * Sec. 14. The sum of \$996,000 is appropriated from the general fund to
4 the Alaska Power Authority for a feasibility study examining design and
5 construction of an electrical transmission system between Hoonah and Juneau.

6 * Sec. 15. The sum of \$42,000 is appropriated from the general fund to
7 the Alaska Power Authority for a feasibility study regarding improvements to
8 hydroelectric facilities for Pelican.

9 * Sec. 16. The sum of \$4,500,000 is appropriated from the general fund
10 to the Alaska Power Authority for design, engineering, implementation, and
11 construction of the Lake Elva hydroelectric project.

12 * Sec. 17. The sum of \$50,000 is appropriated from the general fund to
13 the Alaska Power Authority for a feasibility study relating to reactivation
14 of an abandoned hydroelectric site at Chitina.

15 * Sec. 18. The sum of \$440,000 is appropriated from the general fund to
16 the Alaska Power Authority for a feasibility study of the Fairbanks district
17 heating extension.

18 * Sec. 19. The sum of \$1,400,000 is appropriated from the general fund
19 to the Alaska Power Authority for a feasibility study and for advanced
20 design and engineering of an electrical transmission system between Valdez
21 and Cordova, and for a feasibility study and advanced design and engineering
22 of an electrical transmission system between Valdez and Cordova, and for a
23 feasibility study and advanced design and engineering of small-scale hydro-
24 electric sites along the route of the transmission system.

25 * Sec. 20. The sum of \$600,000 is appropriated from the general fund to
26 the Alaska Power Authority for a feasibility study of a coal-fired power
27 plant for Cordova.

28 * Sec. 21. The sum of \$8,000,000 is appropriated from the general fund
29 to the Alaska Power Authority for the power production cost assistance fund

1 (AS 44.83.162).

2 * Sec. 22. The sum of \$125,000 is appropriated from the general fund to
3 the Alaska Power Authority as grants for waste heat projects in Crooked
4 Creek and Chuathbaluk.

5 * Sec. 23. The sum of \$150,000 is appropriated from the general fund to
6 the Alaska Power Authority as a grant for a waste heat project at McGrath.

7 * Sec. 24. The sum of \$380,000 is appropriated from the general fund to
8 the Alaska Power Authority as a grant for design and construction of a waste
9 heat project at Unalaska.

10 * Sec. 25. The sum of \$961,000 is appropriated from the general fund to
11 the Alaska Power Authority as a grant for an electrical transmission system
12 at Nondalton.

13 * Sec. 26. The sum of \$4,245,300 is appropriated from the general fund
14 to the Department of Administration for payment as grants in accordance with
15 AS 37.05.315 to the following cities for the purposes and in the amounts set
16 out after each:

| | | |
|----|---|---------|
| 17 | (1) Allakaket generator | 12,600 |
| 18 | (2) Atmautluak electrification | 625,000 |
| 19 | (3) Diomedea electrification | 106,000 |
| 20 | (4) Ekwok generator | 25,000 |
| 21 | (5) Golovin electrification | 225,200 |
| 22 | (6) Hooper Bay generator | 34,000 |
| 23 | (7) Kotlik electrification | 65,000 |
| 24 | (8) Napaskiak electrification | 215,000 |
| 25 | (9) Newhalen generators and electrification | 730,000 |
| 26 | (10) Newtok electrification | 190,000 |
| 27 | (11) Nome electric utility facilities upgrade | 943,000 |
| 28 | (12) Ruby electrification | 73,000 |
| 29 | (13) Russian Mission generator | 30,000 |

| | | |
|---|-------------------------------------|---------|
| 1 | (14) Shaktoolik power lines | 53,500 |
| 2 | (15) Tuluksak electrification | 148,000 |
| 3 | (16) Unalaska electrification | 600,000 |
| 4 | (17) White Mountain electrification | 170,000 |

5 * Sec. 27. The sum of \$12,000,000 is appropriated from the general fund
6 to the Department of Commerce and Economic Development, division of energy
7 conservation and management, for energy conservation assistance and weather-
8 ization.

9 * Sec. 28. The sum of \$2,050,000 is appropriated from the general fund
10 to the Department of Commerce and Economic Development, division of energy
11 conservation and management, for energy planning, to be allocated as follows:

| | | |
|----|---|-----------|
| 12 | preparation of state energy plan | \$700,000 |
| 13 | regional energy planning under contract | |
| 14 | with nonprofit corporations | 600,000 |
| 15 | energy emergency contingency planning | 150,000 |
| 16 | municipal energy management and | |
| 17 | planning contracts | 600,000 |

18 * Sec. 29. The sum of \$250,000 is appropriated from the general fund to
19 the Department of Commerce and Economic Development, division of energy
20 conservation and management for energy activities as follows:

| | | |
|----|-----------------------|-----------|
| 21 | state-federal liaison | \$125,000 |
| 22 | energy information | 125,000 |

23 * Sec. 30. The sum of \$10,000,000 is appropriated from the general fund
24 to the Department of Commerce and Economic Development, division of energy
25 conservation and management, for energy conservation refunds, grants, and
26 residential energy audits.

27 * Sec. 31. The sum of \$2,430,500 is appropriated from the general fund
28 to the Department of Commerce and Economic Development, division of energy
29 conservation and management, for a grant to the Fairbanks North Star Borough

1 for phase I of an energy management program.

2 * Sec. 32. The sum of \$2,400,000 is appropriated from the general fund
3 to the Department of Commerce and Economic Development, division of energy
4 conservation and management, for the bulk fuel storage facilities grant fund
5 (AS 44.33.100).

6 * Sec. 33. The sum of \$15,000,000 is appropriated from the general fund
7 to the Department of Commerce and Economic Development, division of small
8 business loans, for alternative energy and energy conservation loan programs.

9 * Sec. 34. The sum of \$1,879,100 is appropriated from the general fund
10 to the Department of Community and Regional Affairs for payment as grants in
11 accordance with AS 37.05.315(f) to the following unincorporated communities
12 for the purposes and in the amounts set out after each:

| | | |
|----|----------------------------------|---------|
| 13 | (1) Alatna generator | 36,000 |
| 14 | (2) Arctic Village generator | 26,400 |
| 15 | (3) Chalkyitsik electrification | 103,000 |
| 16 | (4) Circle electrification | 81,700 |
| 17 | (5) Dot Lake generator | 12,000 |
| 18 | (6) Kongiganak electrification | 135,000 |
| 19 | (7) Kwigillingok electrification | 120,000 |
| 20 | (8) Levelock electrification | 450,000 |
| 21 | (9) Perryville electrification | 145,000 |
| 22 | (10) Pilot Point electrification | 450,000 |
| 23 | (11) Tatitlek generator | 70,000 |
| 24 | (12) Tuntutuliak electrification | 250,000 |

25 * Sec. 35. The sum of \$400,000 is appropriated from the general fund to
26 the Department of Community and Regional Affairs for payment as a grant in
27 accordance with AS 37.05.315 to the Kuskokwim Native Association for elec-
28 trification of Chuathbaluk, Crooked Creek, Sleetmute, and Stony River.

29 * Sec. 36. The sum of \$1,708,000 is appropriated from the general fund

1 to the Department of Community and Regional Affairs for payment as a grant
2 in accordance with AS 37.05.315 to the Mauneluk Association for energy
3 conservation systems in Ambler, Deering, Kiana, Kivalina, Kobuk, Noatak,
4 Noorvik, Selawik, and Shungnak.

5 * Sec. 37. The sum of \$100,000 is appropriated from the general fund to
6 the Department of Natural Resources for a coal resource investigation on
7 Saint Lawrence Island.

8 * Sec. 38. The sum of \$1,300,000 is appropriated from the general fund
9 to the Department of Natural Resources for phases III and IV of the North-
10 west Alaska Coal Resources Investigation, including reconnaissance drilling
11 at the Chicago Creek, Point Hope, Point Lay, and Kiana (Kobuk River) areas.

12 * Sec. 39. The sum of \$5,000,000 is appropriated from the general fund
13 to the Department of Natural Resources, division of geological and geo-
14 physical surveys, for geothermal well drilling at Unalaska.

15 * Sec. 40. The sum of \$550,000 is appropriated from the general fund to
16 the Department of Transportation and Public Facilities for installation of
17 coal-fired heating systems in the Railbelt regional educational attendance
18 area schools.

19 * Sec. 41. The sum of \$250,000 is appropriated from the general fund to
20 the Office of the Governor for the fuel emergency fund (AS 44.19.052).

21 * Sec. 42. The sum of \$350,000 is appropriated from the general fund to
22 the University of Alaska for energy conservation improvements.

23 * Sec. 43. The sum of \$150,000 is appropriated from the general fund to
24 the University of Alaska for upper division and graduate course curriculum
25 development for energy courses and energy-related studies.

26 * Sec. 44. The sum of \$200,000 is appropriated from the general fund to
27 the University of Alaska, division of community colleges and rural educa-
28 tion, for development of energy studies within community college curricula.

29 * Sec. 45. The sum of \$200,000 is appropriated from the general fund to

1 the University of Alaska, division of community colleges and rural education,
2 for vocational and job training programs related to renewable energy and
3 energy conservation.

4 * Sec. 46. The sum of \$200,000 is appropriated from the general fund to
5 the University of Alaska, energy alternatives program (School of Agriculture
6 and Land Resources Management) for teacher training and curriculum develop-
7 ment and for television programming relating to energy-related subjects in
8 elementary and secondary school curricula.

9 * Sec. 47. The sum of \$1,664,650 is appropriated from the general fund
10 to the Alaska Energy Center for a grant to the Fairbanks North Star Borough
11 for the following purposes:

| | | |
|----|---------------------------|------------|
| 12 | solar collector retrofit, | |
| 13 | phase I | \$ 404,000 |
| 14 | waste heat greenhouses | 1,260,650 |

15 * Sec. 48. The sum of \$6,400,000 is appropriated from the general fund
16 to the Alaska Energy Center for research, development, and demonstration
17 projects under AS 37.25.030.

18 * Sec. 49. The sum of \$1,500,000 is appropriated from the general fund
19 to the Alaska Energy Center for an economic feasibility study and precon-
20 struction costs for a plant in southcentral Alaska which uses developed
21 technology to process peat for fuel for export and domestic use.

22 * Sec. 50. The sum of \$75,000 is appropriated from the general fund to
23 the Alaska Energy Center for a grant to the Fairbanks North Star Borough for
24 a solar energy system for the Mary Siah Recreation Center.

25 * Sec. 51. The sum of \$4,030,000 is appropriated from the general fund
26 to the Alaska Energy Center for the following feasibility studies relating
27 to energy projects of the center:

| | | |
|----|--|-----------|
| 28 | (1) Angoon tidal power project | 500,000 |
| 29 | (2) Kodiak waste heat cogeneration project | 2,500,000 |

| | | |
|----|--|---------|
| 1 | (3) Kotzebue district heating and | |
| 2 | power feasibility and design | 120,000 |
| 3 | (4) Kotzebue coal utilization study | 100,000 |
| 4 | (5) Mary's Igloo -- design of an energy | |
| 5 | efficient community in conjunction with | |
| 6 | relocation | 50,000 |
| 7 | (6) Ouzinkie waste heat project | 700,000 |
| 8 | (7) Port Alexander wind project | 30,000 |
| 9 | (8) Saint Mary's waste heat and district | |
| 10 | heating study | 30,000 |

11 * Sec. 52. The sum of \$1,340,000 is appropriated from the general fund
 12 to the Alaska Energy Center for the following projects:

| | | |
|----|--|---------|
| 13 | (1) Holy Cross wind project | 40,000 |
| 14 | (2) Kotzebue wind generator | 200,000 |
| 15 | (3) Pilgrim Hot Springs geothermal project | 700,000 |
| 16 | (4) Sheldon Point wind project | 300,000 |
| 17 | (5) Skagway construction of wind | |
| 18 | generating system | 100,000 |

19 * Sec. 53. The sum of \$400,000 is appropriated from the general fund to
 20 the Alaska Energy Center for the Bering Straits wind project, including
 21 design and construction of wind energy systems in Golovin, Shishmaref,
 22 Teller, and White Mountain, and planning for project expansion to Brevig
 23 Mission, Buckland, Diomede, Savoonga, and Wales.

24 * Sec. 54. The sum of \$300,000 is appropriated from the general fund to
 25 the Legislative Council for the Joint Gas Pipeline Committee for a study of
 26 alternative methods of transporting Prudhoe Bay natural gas to market.

27 * Sec. 55. The sum of \$150,000 is appropriated from the general fund to
 28 the Legislative Council for a study of alternatives for consolidating or
 29 coordinating state agencies and state agency programs relating to energy.

1 * Sec. 56. The sum of \$600,000 is appropriated from the general fund to
2 the Legislative Council for the House Special Committee on Coal for a feasi-
3 bility study on site selection and rail and road connections for a major
4 coal export facility.

5 * Sec. 57. Section 1(1), ch. 54, SLA 1980 is repealed.

6 * Sec. 58. Sections 1 - 11 and 27 - 32 of this Act take effect on the
7 effective date of a version of Senate Bill No. 25 entitled "An Act relating
8 to energy; and providing for an effective date.", in which the maximum
9 interest rate on loans from the power project fund (AS 44.83.170) is set at
10 alternative rates of three percent or six percent, and in which an energy
11 conservation and management program is established in the Department of
12 Commerce and Economic Development.

13 * Sec. 59. Sections 12 - 26 and 33 - 57 of this Act take effect immedi-
14 ately in accordance with AS 01.10.070(c).

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Original sponsors: Kerttula, Ziegler,
Ferguson, et al

Funding Information

| | |
|--------------|----------------------|
| General Fund | \$559,344,550 |
| Other Funds | -0- |
| | <u>\$559,344,550</u> |

1 IN THE SENATE BY THE FINANCE COMMITTEE

2 HOUSE CS FOR CS FOR SENATE BILL NO. 26 (Finance)

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 TWELFTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act making appropriations to various state agencies
7 for energy-related programs and projects, and repealing
8 a 1980 appropriation for a power project; and pro-
9 viding for an effective date."

10 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

11 * Section 1. The sum of \$265,900,000 is appropriated from the general
12 fund to the power development fund of the Alaska Power Authority (AS 44.83.-
13 400 - 44.83.510) for the following projects in the amounts specified after
14 each:

- | | | |
|----|-------------------|--------------|
| 15 | (1) Bradley Lake | \$40,000,000 |
| 16 | (2) Port Lions | 1,400,000 |
| 17 | (3) Solomon Gulch | 45,000,000 |
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| 19 | (5) Terror Lake | 81,500,000 |
| 20 | (6) Tyee Lake | 45,000,000 |

21 * Sec. 2. The sum of \$76,000,000 is appropriated from the general fund
22 to the power development fund of the Alaska Power Authority (AS 44.83.400 -
23 44.83.510) for acquisition of a right-of-way for and design and construction
24 of a high voltage electrical transmission system connecting Anchorage and
25 Fairbanks.

26 * Sec. 3. The sum of \$750,000 is appropriated from the general fund to
27 the power development fund of the Alaska Power Authority (AS 44.83.400 -
28 44.83.510) for acquisition of a right-of-way for and design and construction
29 of an electrical transmission system connecting Craig and Klawock.

1 * Sec. 4. The sum of \$200,000 is appropriated from the general fund to
 2 the power development fund of the Alaska Power Authority (AS 44.83.400 -
 3 44.83.510) for construction of a single wire ground return transmission line
 4 between Kobuk and Shungnak.

5 * Sec. 5. The sum of \$3,250,000 is appropriated from the general fund to
 6 the power development fund of the Alaska Power Authority (AS 44.83.400 -
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8 * Sec. 6. The sum of \$60,618,000 is appropriated from the general fund
 9 to the power development fund of the Alaska Power Authority (AS 44.83.400 -
 10 44.83.510) for a loan to the City and Borough of Sitka for completion of the
 11 Green Lake hydroelectric project, to defease or to provide for the payment
 12 of debt service on revenue bonds issued by the City and Borough of Sitka for
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 14 Green Lake hydroelectric project.

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|----|---|------------|
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 2 Elim, False Pass, Goodnews Bay, Grayling,
 3 Gustavus, Ivanoff Bay, Kaltag, Karluk,
 4 Kiana, King Cove, Larsen Bay, Nikolski,
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 12 Kalskag, Kotlik, Koyuk, Lower Kalskag, Mekoryuk, New Chenega, Newtok,
 13 Nightmute, Ouzinkie, Ruby, Saint George, Saint Mary's, Saint Michael, Saint
 14 Paul, Shageluk, Shishmaref, Stebbins, Teller, Toksook Bay, Tununak,
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4 design and engineering of an electrical transmission system between Valdez
5 and Cordova, and for a feasibility study and advanced design and engineering
6 of an electrical transmission system between Valdez and Cordova, and for a
7 feasibility study and advanced design and engineering of small-scale hydro-
8 electric sites along the route of the transmission system.

9 * Sec. 15. The sum of \$600,000 is appropriated from the general fund to
10 the Alaska Power Authority for a feasibility study of a coal-fired power
11 plant for Cordova.

12 * Sec. 16. The sum of \$4,000,000 is appropriated from the general fund
13 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
14 loan to the City of Fairbanks for district heating.

15 * Sec. 17. The sum of \$4,000,000 is appropriated from the general fund
16 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
17 loan to Alaska Electric Light and Power Company for construction of trans-
18 mission and distribution facilities.

19 * Sec. 18. The sum of \$3,000,000 is appropriated from the general fund
20 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
21 loan to Alaska Electric Light and Power Company for rehabilitation of Salmon
22 Creek II.

23 * Sec. 19. The sum of \$10,000,000 is appropriated from the general fund
24 to the power project fund of the Alaska Power Authority (AS 44.83.170) for
25 rural electrification loans.

26 * Sec. 20. The sum of \$8,000,000 is appropriated from the general fund
27 to the Alaska Power Authority for the power production cost assistance fund
28 (AS 44.83.162).

29 * Sec. 21. The sum of \$125,000 is appropriated from the general fund to

1 the Alaska Power Authority as grants/ for waste heat projects in Crooked
2 Creek and Chuathbaluk.

3 * Sec. 22. The sum of \$150,000 is appropriated from the general fund to
4 the Alaska Power Authority as a grant for a waste heat project at McGrath.

5 * Sec. 23. The sum of \$380,000 is appropriated from the general fund to
6 the Alaska Power Authority as a grant for design and construction of a waste
7 heat project at Unalaska.

8 * Sec. 24. The sum of \$961,000 is appropriated from the general fund to
9 the Alaska Power Authority as a grant for an electrical transmission system
10 at Nondalton.

11 * Sec. 25. The sum of \$5,000,000 is appropriated from the general fund
12 to the Alaska Power Authority for geothermal well drilling at Unalaska.

13 * Sec. 26. The sum of \$4,245,300 is appropriated from the general fund
14 to the Department of Administration for payment as grants in accordance with
15 AS 37.05.315 to the following cities for the purposes and in the amounts set
16 out after each:

| | | |
|----|---|---------|
| 17 | (1) Allakaket generator | 12,600 |
| 18 | (2) Atmautluak electrification | 625,000 |
| 19 | (3) Diomede electrification | 106,000 |
| 20 | (4) Ekwok generator | 25,000 |
| 21 | (5) Golovin electrification | 225,200 |
| 22 | (6) Hooper Bay generator | 34,000 |
| 23 | (7) Kotlik electrification | 65,000 |
| 24 | (8) Napaskiak electrification | 215,000 |
| 25 | (9) Newhalen generators and electrification | 730,000 |
| 26 | (10) Newtok electrification | 190,000 |
| 27 | (11) Nome electric utility facilities upgrade | 943,000 |
| 28 | (12) Ruby electrification | 73,000 |
| 29 | (13) Russian Mission generator | 30,000 |

| | | |
|---|-------------------------------------|---------|
| 1 | (14) Shaktoolik power lines/ | 53,500 |
| 2 | (15) Tuluksak electrification | 148,000 |
| 3 | (16) Unalaska electrification | 600,000 |
| 4 | (17) White Mountain electrification | 170,000 |

5 * Sec. 27. The sum of \$12,000,000 is appropriated from the general fund
6 to the Department of Commerce and Economic Development, division of energy
7 and power development, for energy conservation assistance and weatheri-
8 zation.

9 * Sec. 28. The sum of \$2,050,000 is appropriated from the general fund
10 to the Department of Commerce and Economic Development, division of energy
11 and power development, for energy planning, to be allocated as follows:

| | | |
|----|---|-----------|
| 12 | preparation of state energy plan | \$700,000 |
| 13 | regional energy planning under contract | |
| 14 | with nonprofit corporations | 600,000 |
| 15 | energy emergency contingency planning | 150,000 |
| 16 | municipal energy management and | |
| 17 | planning contracts | 600,000 |

18 * Sec. 29. The sum of \$250,000 is appropriated from the general fund to
19 the Department of Commerce and Economic Development, division of energy and
20 power development, for energy activities as follows:

| | | |
|----|-----------------------|-----------|
| 21 | state-federal liaison | \$125,000 |
| 22 | energy information | 125,000 |

23 * Sec. 30. The sum of \$10,000,000 is appropriated from the general fund
24 to the Department of Commerce and Economic Development, division of energy
25 and power development, for energy conservation refunds, grants, and residen-
26 tial energy audits.

27 * Sec. 31. The sum of \$15,000,000 is appropriated from the general fund
28 to the Department of Commerce and Economic Development, division of small
29 business loans, for alternative energy and energy conservation loan programs.

1 * Sec. 32. The sum of \$2,430,500 is appropriated from the general fund
 2 to the Department of Commerce and Economic Development, division of energy
 3 and power development, for a grant to the Fairbanks North Star Borough for
 4 phase I of an energy management program.

5 * Sec. 33. The sum of \$2,400,000 is appropriated from the general fund
 6 to the Department of Community and Regional Affairs for the bulk fuel storage
 7 facilities grant fund (AS 44.47.145).

8 * Sec. 34. The sum of \$1,879,100 is appropriated from the general fund
 9 to the Department of Community and Regional Affairs for payment as grants in
 10 accordance with AS 37.05.315(f) to the following unincorporated communities
 11 for the purposes and in the amounts set out after each:

| | | |
|----|----------------------------------|---------|
| 12 | (1) Alatna generator | 36,000 |
| 13 | (2) Arctic Village generator | 26,400 |
| 14 | (3) Chalkyitsik electrification | 103,000 |
| 15 | (4) Circle electrification | 81,700 |
| 16 | (5) Dot Lake generator | 12,000 |
| 17 | (6) Kongiganak electrification | 135,000 |
| 18 | (7) Kwigillingok electrification | 120,000 |
| 19 | (8) Levelock electrification | 450,000 |
| 20 | (9) Perryville electrification | 145,000 |
| 21 | (10) Pilot Point electrification | 450,000 |
| 22 | (11) Tatitlek generator | 70,000 |
| 23 | (12) Tuntutuliak electrification | 250,000 |

24 * Sec. 35. The sum of \$400,000 is appropriated from the general fund to
 25 the Department of Community and Regional Affairs for payment as a grant in
 26 accordance with AS 37.05.315 to the Kuskokwim Native Association for electri-
 27 fication of Chuathbaluk, Crooked Creek, Sleetmute, and Stony River.

28 * Sec. 36. The sum of \$1,708,000 is appropriated from the general fund
 29 to the Department of Community and Regional Affairs for payment as a grant

1 in accordance with AS 37.05.315 to the Mauneluk Association for energy
2 conservation systems in Ambler, Deering, Kiana, Kivalina, Kobuk, Noatak,
3 Noorvik, Selawik, and Shungnak.

4 * Sec. 37. The sum of \$100,000 is appropriated from the general fund to
5 the Department of Natural Resources for a coal resource investigation on
6 Saint Lawrence Island.

7 * Sec. 38. The sum of \$1,300,000 is appropriated from the general fund
8 to the Department of Natural Resources for a northwest Alaska coal resources
9 investigation.

10 * Sec. 39. The sum of \$550,000 is appropriated from the general fund to
11 the Department of Transportation and Public Facilities for installation of
12 coal-fired heating systems in the schools of the Railbelt and Delta-Greely
13 regional educational attendance areas.

14 * Sec. 40. The sum of \$250,000 is appropriated from the general fund to
15 the Office of the Governor for the fuel emergency fund (AS 44.19.052).

16 * Sec. 41. The sum of \$350,000 is appropriated from the general fund to
17 the University of Alaska for energy conservation improvements.

18 * Sec. 42. The sum of \$150,000 is appropriated from the general fund to
19 the University of Alaska for upper division and graduate course curriculum
20 development for energy courses and energy-related studies.

21 * Sec. 43. The sum of \$200,000 is appropriated from the general fund to
22 the University of Alaska, division of community colleges and rural education,
23 for development of energy studies within community college curricula.

24 * Sec. 44. The sum of \$200,000 is appropriated from the general fund to
25 the University of Alaska, division of community colleges and rural education,
26 for vocational and job training programs related to renewable energy and
27 energy conservation.

28 * Sec. 45. The sum of \$200,000 is appropriated from the general fund to
29 the University of Alaska, energy alternatives program (School of Agriculture

and Land Resources Management) for teacher training and curriculum development and for television programming relating to energy-related subjects in elementary and secondary school curricula.

* Sec. 46. The sum of \$1,664,650 is appropriated from the general fund to the Alaska Energy Center for a grant to the Fairbanks North Star Borough for the following purposes:

| | |
|---------------------------|------------|
| solar collector retrofit, | |
| phase I | \$ 404,000 |
| waste heat greenhouses | 1,260,650 |

* Sec. 47. The sum of \$6,400,000 is appropriated from the general fund to the Alaska Energy Center for research, development, and demonstration projects under AS 37.25.030.

* Sec. 48. The sum of \$1,500,000 is appropriated from the general fund to the Alaska Energy Center for an economic feasibility study and preconstruction costs for a plant in southcentral Alaska which uses developed technology to process peat for fuel for export and domestic use.

* Sec. 49. The sum of \$75,000 is appropriated from the general fund to the Alaska Energy Center for a grant to the Fairbanks North Star Borough for a solar energy system for the Mary Siah Recreation Center.

* Sec. 50. The sum of \$4,030,000 is appropriated from the general fund to the Alaska Energy Center for the following feasibility studies relating to energy projects of the center:

| | |
|---|-----------|
| (1) Angoon tidal power project | 500,000 |
| (2) Kodiak waste heat cogeneration project | 2,500,000 |
| (3) Kotzebue district heating and power feasibility and design | 120,000 |
| (4) Kotzebue coal utilization study | 100,000 |
| (5) Mary's Igloo -- design of an energy efficient community in conjunction with | |

| | | |
|---|--|---------|
| 1 | relocation | 50,000 |
| 2 | (6) Ouzinkie waste heat project | 700,000 |
| 3 | (7) Port Alexander wind project | 30,000 |
| 4 | (8) Saint Mary's waste heat and district | |
| 5 | heating study | 30,000 |

6 * Sec. 51. The sum of \$1,340,000 is appropriated from the general fund
7 to the Alaska Energy Center for the following projects:

| | | |
|----|--|---------|
| 8 | (1) Holy Cross wind project | 40,000 |
| 9 | (2) Kotzebue wind generator | 200,000 |
| 10 | (3) Pilgrim Hot Springs geothermal project | 700,000 |
| 11 | (4) Sheldon Point wind project | 300,000 |
| 12 | (5) Skagway construction of wind | |
| 13 | generating system | 100,000 |

14 * Sec. 52. The sum of \$400,000 is appropriated from the general fund to
15 the Alaska Energy Center for the Bering Straits wind project, including
16 design and construction of wind energy systems in Golovin, Shishmaref,
17 Teller, and White Mountain, and planning for project expansion to Brevig
18 Mission, Buckland, Diomede, Savoonga, and Wales.

19 * Sec. 53. The sum of \$300,000 is appropriated from the general fund to
20 the Legislative Council for the Joint Gas Pipeline Committee for a study of
21 alternative methods of transporting Prudhoe Bay natural gas to market.

22 * Sec. 54. The sum of \$150,000 is appropriated from the general fund to
23 the Legislative Council for a study of alternatives for consolidating or
24 coordinating state agencies and state agency programs relating to energy.

25 * Sec. 55. Section 1(1), ch. 54, SLA 1980 is repealed.

26 * Sec. 56. Sections 1 - 6 of this Act take effect on the effective date
27 of a version of Senate Bill No. 25 entitled "An Act relating to energy
28 projects and programs of the Alaska Power Authority; and providing for an
29 effective date.", in which the power development fund is established.

1 * Sec. 57. Section 29 of this Act takes effect on the effective date of
2 a version of an Act entitled "An Act establishing assistance and information
3 programs on energy in the Department of Commerce and Economic Development;
4 and providing for an effective date."

5 * Sec. 58. Sections 7 - 28 and 30 - 55 of this Act take effect immedi-
6 ately in accordance with AS 01.10.070(c).
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Official Business

Alaska State Legislature

Senate

Office of the President

Pouch V
State Capitol
Juneau, Alaska 99811

MEMORANDUM

TO: House Finance Committee

FROM: Senator Jay Kerttula

DATE: June 2, 1981

A handwritten signature in dark ink, appearing to be "Jay Kerttula", written over the "FROM" line.

I understand that the work draft on SB 26, from which your committee is working, contains only \$45 million for the Solomon Gulch project. The cost of that project is \$68 million, but the amount was reduced in this draft on the assumption that an arrangement with REA could be worked out similar in principle to defeasance of bonds.

There is no assurance at all that such an agreement can be reached with REA. Construction of Solomon Gulch will be completed later this year, and full funding of this project is needed to permit the consumers in that area to benefit from the Energy Program for Alaska.

JK/DG/skt



Alaska State Legislature

House of Representatives

MEMORANDUM

Pouch V
State Capitol
Juneau, Alaska 99811

Official Business

June 2, 1981

TO: Representative Sam Cotten, Chairman
House Finance Committee
And All Committee Members

FROM: Representative Vern Hurlbert

Vern

After SB 26 had been reported out of the House Resources Committee, I became aware of the great potential benefits to rural Alaska that can be provided by using Organic Rankine Cycle systems for generating electricity. This technology will make it possible to use low temperature geothermal resources or local fuels such as coal, wood or peat.

We need to try this technology in Bush Alaska. It will take \$5 million to purchase, do the applications engineering, and install two ORC systems using two different frame sizes and two different heat sources.

I understand that Rep. Adams has prepared an amendment to add \$5 million to SB 26 for this program, and I hope you will support this amendment.

Thank you.

FISCAL NOTE

I. REQUEST

Bill/Resolution No. House CS for CS for Senate Bill No. 26
 Title Appropriations to various state agencies for energy related programs and projects
 Requested by Kerttula, Ziegler, Ferguson, et al Date _____

II. FISCAL DETAIL

Agency Affected Department of Transportation and Public Facilities
 Program Category Affected Highways and Design and Construction
 BRU, Program, or Subprogram(s) Affected _____
 (Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

| | FY 81 | FY82 | FY83 | FY84 | FY 85 | FY 86 |
|--------------------------|-------|------|------|------|-------|-------|
| 100 PERSONAL SERVICES | | | | | | |
| 200 TRAVEL | | | | | | |
| 300 CONTRACTUAL | | | | | | |
| 400 COMMODITIES | | | | | | |
| 500 EQUIPMENT | | | | | | |
| 600 LAND & STRUCTURES | | | | | | |
| 700 GRANTS, CLAIMS, ETC. | | | | | | |
| TOTAL | | | | | | |

FUNDING (Thousands of Dollars)

| | | | | | | |
|-----------------------------|--|-----------|--|--|--|--|
| GENERAL FUND | | 3,200,000 | | | | |
| FEDERAL FUNDS | | | | | | |
| OTHER (Specify Fund Source) | | | | | | |
| | | | | | | |

POSITIONS

| | | | | | | |
|-----------|--|--|--|--|--|--|
| FULL TIME | | | | | | |
| PART TIME | | | | | | |
| TEMPORARY | | | | | | |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

See Attached.

IV. DATE 5/11/81 PREPARED BY John C. Bates
 AGENCY Trans. & Public Facilities
 PHONE 465-3900

Original: Legislative Finance
 cc: Budget and Management
 Prime Sponsor (First Legislator Named)

THE LEGISLATURE OF THE STATE OF ALASKA
TWELFTH LEGISLATURE

FISCAL NOTE

I. REQUEST

Bill/Resolution No. House CS for CS for Sen. Bill 26, PG, Section 34

Title Appropriations to various state agencies for energy related programs & projects

Requested by Resources Committee Date 4-30-81

II. FISCAL DETAIL

Agency Affected DOT/PF

Program Category Affected Hwys and D & C

BRU, Program, or Subprogram(s) Affected _____

(Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

| | FY81 | FY82 | FY83 | FY84 | FY85 | FY86 |
|-------------------------|------|-------|------|------|------|------|
| 100 PERSONAL SERVICES | | | | | | |
| 200 TRAVEL | | | | | | |
| 300 CONTRACTUAL | | 550.0 | | | | |
| 400 COMMODITIES | | | | | | |
| 500 EQUIPMENT | | | | | | |
| 600 LAND & STRUCTURES | | | | | | |
| 700 GRANTS, CLAIMS, ETC | | | | | | |
| TOTAL | | 550.0 | | | | |

FUNDING (Thousands of Dollars)

| | | | | | | |
|-----------------------------|--|-------|--|--|--|--|
| GENERAL FUND | | 550.0 | | | | |
| FEDERAL FUNDS | | | | | | |
| OTHER (Specify Fund Source) | | | | | | |
| | | | | | | |

POSITIONS

| | | | | | | |
|-----------|--|--|--|--|--|--|
| FULL TIME | | | | | | |
| PART TIME | | | | | | |
| TEMPORARY | | | | | | |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

NOTES:

- (1) Amount referenced above is to be used for change order to existing construction contract between Railbelt R.E.A.A. and contractor to complete current coal conversion project @ Tri-Valley School. Project being done under R.E.A.A. grant.
- (2) Asst. Superintendent of Delta/Greely R.E.A.A. was contacted and subsequently contacted Rep. Moss to advise that this particular appropriation should be amended to delete Delta/Greely R.E.A.A.

IV. DATE May 5, 1981

PREPARED BY Dave Truax

AGENCY DOT/PF, Div. of Planning & Programming

PHONE 479-4284

Original: Legislative Finance

cc: Budget and Management

Prime Sponsor (First Legislator Named)

33-001 (Rev. 12/80)

THE LEGISLATURE OF THE STATE OF ALASKA
TWELFTH LEGISLATURE

FISCAL NOTE

I. REQUEST

Bill/Resolution No. 26 Sec. 33Title Road between the Nome Area Road System and Pilgrim Hot SpringsRequested by Kertulla, Ziegler, Ferguson, et. al. Date 4/30/81

II. FISCAL DETAIL

Agency Affected DOT/PFProgram Category Affected Highways

BRU, Program, or Subprogram(s) Affected _____

(Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

| | FY81 | FY82 | FY83 | FY84 | FY85 | FY86 |
|-------------------------|------|-------------|------|------|------|------|
| 100 PERSONAL SERVICES | | 250.0 | | | | |
| 200 TRAVEL | | | | | | |
| 300 CONTRACTUAL | | 2400.0 | | | | |
| 400 COMMODITIES | | | | | | |
| 500 EQUIPMENT | | | | | | |
| 600 LAND & STRUCTURES | | | | | | |
| 700 GRANTS, CLAIMS, ETC | | | | | | |
| TOTAL | | \$2,650,000 | | | | |

FUNDING (Thousands of Dollars)

| | | | | | | |
|----------------------------|--|-----------|--|--|--|--|
| GENERAL FUND | | 2,650,000 | | | | |
| FEDERAL FUNDS | | | | | | |
| OTHER(Specify Fund Source) | | | | | | |
| | | | | | | |

POSITIONS

| | | | | | | |
|-----------|--|--|--|--|--|--|
| FULL TIME | | | | | | |
| PART TIME | | | | | | |
| TEMPORARY | | | | | | |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

A. Assumptions: 8.3 miles of road, 14 feet wide with a 3 foot overlay.

B. Operational Summary:

- 1) No new positions would be needed.
- 2) No major expenditures are required because only summer maintenance will be performed.
- 3) N/A
- 4) N/A

IV. DATE May 4, 1981PREPARED BY Jonathan WiddisAGENCY DOT/PFPHONE 479-6138

Original: Legislative Finance

cc: Budget and Management

Prime Sponsor (First Legislator Named)

33-001 (Rev. 12/80)

THE LEGISLATURE OF THE STATE OF ALASKA
TWELFTH LEGISLATURE

FISCAL NOTE

Page 2

I. REQUEST

Bill/Resolution No. 26, Sec. 33

Title Road between the Nome Area Road system and Pilgrim Hot Springs

Requested by Kertulla, Ziegler, Ferguson, et. al. Date 4-30-81

III. ANALYSIS (continued)

C. Computations

| | | |
|--|----------|---------------------|
| 1. Furnish and maintain engineering facilities, lump sum | \$ | 20,000 |
| 2. Petroleum escalation, contingent sum | | 20,000 |
| 3. Mobilization, lump sum | | 200,000 |
| 4. Temporary erosion and pollution control, contingent sum | | 5,000 |
| 5. Construction engineering by the contractor, lump sum | | 100,000 |
| 6. Unclassified excavation, 86,118 yds @ \$4.00/yd. | | 344,472 |
| 7. Borrow, 146,860 yds @ \$9.00/yd. | | 1,321,740 |
| 8. 24" pipe conduit, 1,450 ft. @ \$65.00/l.f. | | 94,250 |
| 9. Culvert marker posts, 94 @ \$60.00/each | | 5,640 |
| 10. Guide markers, 330 @ \$65.00/each | | 21,450 |
| | Subtotal | <u>\$ 2,132,552</u> |
| 12% Engineering & Contingencies | | 255,910 |
| Preparation of Plans, Specifications and Engineering Documents | | 250,000 |
| | TOTAL | <u>\$ 2,638,462</u> |
| | USE | 2,650,000 |

D. Economic Impact: The project should provide short-term construction employment on the local level. Development of this known geothermal area would become more feasible when road access is established.

E. Attachments: N/A

THE LEGISLATURE OF THE STATE OF ALASKA
TWELFTH LEGISLATURE

FISCAL NOTE

I. REQUEST

Bill/Resolution No. House CS for CS for Sen. Bill 26, P6, Section 34

Title Appropriations to various state agencies for energy related programs & projects

Requested by Resources Committee

Date 4-30-81

II. FISCAL DETAIL:

Agency Affected DOT/PF

Program Category Affected Hwys and D & C

BRU, Program, or Subprogram(s) Affected _____

(Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

| | FY81 | FY82 | FY83 | FY84 | FY85 | FY86 |
|-------------------------|------|-------|------|------|------|------|
| 100 PERSONAL SERVICES | | | | | | |
| 200 TRAVEL | | | | | | |
| 300 CONTRACTUAL | | 550.0 | | | | |
| 400 COMMODITIES | | | | | | |
| 500 EQUIPMENT | | | | | | |
| 600 LAND & STRUCTURES | | | | | | |
| 700 GRANTS, CLAIMS, ETC | | | | | | |
| TOTAL | | 550.0 | | | | |

FUNDING (Thousands of Dollars)

| | | | | | | |
|----------------------------|--|-------|--|--|--|--|
| GENERAL FUND | | 550.0 | | | | |
| FEDERAL FUNDS | | | | | | |
| OTHER(Specify Fund Source) | | | | | | |

POSITIONS

| | | | | | | |
|-----------|--|--|--|--|--|--|
| FULL TIME | | | | | | |
| PART TIME | | | | | | |
| TEMPORARY | | | | | | |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

NOTES:

- (1) Amount referenced above is to be used for change order to existing construction contract between Railbelt R.E.A.A. and contractor to complete current coal conversion project @ Tri-Valley School. Project being done under R.E.A.A. grant.
- (2) Asst. Supertindent of Delta/Greely R.E.A.A. was contacted and subsequently contacted Rep. Moss to advise that this particular appropriation should be amended to delete Delta/Greely R.E.A.A.

IV. DATE May 5, 1981

PREPARED BY Dave Truax

AGENCY DOT/PF, Div. of Planning & Programming

PHONE 479-4284

Original: Legislative Finance

cc: Budget and Management

Prime Sponsor (First Legislator Named)

33-001 (Rev. 12/80)

THE LEGISLATURE OF THE STATE OF ALASKA
TWELFTH LEGISLATURE

FISCAL NOTE

I. REQUEST

Bill/Resolution No. 26 Sec. 33

Title Road between the Nome Area Road System and Pilgrim Hot Springs

Requested by Kertulla, Ziegler, Ferguson, et. al.

Date 4/30/81

II. FISCAL DETAIL

Agency Affected DOT/PF

Program Category Affected Highways

BRU, Program, or Subprogram(s) Affected

(Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

| | FY81 | FY82 | FY83 | FY84 | FY85 | FY86 |
|-------------------------|------|-------------|------|------|------|------|
| 100 PERSONAL SERVICES | | 250.0 | | | | |
| 200 TRAVEL | | | | | | |
| 300 CONTRACTUAL | | 2400.0 | | | | |
| 400 COMMODITIES | | | | | | |
| 500 EQUIPMENT | | | | | | |
| 600 LAND & STRUCTURES | | | | | | |
| 700 GRANTS, CLAIMS, ETC | | | | | | |
| TOTAL | | \$2,650,000 | | | | |

FUNDING (Thousands of Dollars)

| | | | | | | |
|-----------------------------|--|-----------|--|--|--|--|
| GENERAL FUND | | 2,650,000 | | | | |
| FEDERAL FUNDS | | | | | | |
| OTHER (Specify Fund Source) | | | | | | |
| | | | | | | |
| | | | | | | |

POSITIONS

| | | | | | | |
|-----------|--|--|--|--|--|--|
| FULL TIME | | | | | | |
| PART TIME | | | | | | |
| TEMPORARY | | | | | | |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

A. Assumptions: 8.3 miles of road, 14 feet wide with a 3 foot overlay.

- B. Operational Summary:
- 1) No new positions would be needed.
 - 2) No major expenditures are required because only summer maintenance will be performed.
 - 3) N/A
 - 4) N/A

IV. DATE May 4, 1981

PREPARED BY Jonathan Widdis

AGENCY DOT/PF

PHONE 479-6138

Original: Legislative Finance

cc: Budget and Management

Prime Sponsor (First Legislator Named)

33-001 (Rev. 12/80)

THE LEGISLATURE OF THE STATE OF ALASKA
TWELFTH LEGISLATURE

FISCAL NOTE

Page 2

I. REQUEST

Bill/Resolution No. 26, Sec. 33

Title Road between the Nome Area Road System and Pilgrim Hot Springs

Requested by Kertulla, Ziegler, Ferguson, et. al. Date 4-30-81

III. ANALYSIS (continued)

C. Computations

| | | |
|--|----------|--------------|
| 1. Furnish and maintain engineering facilities, lump sum | \$ | 20,000 |
| 2. Petroleum escalation, contingent sum | | 20,000 |
| 3. Mobilization, lump sum | | 200,000 |
| 4. Temporary erosion and pollution control, contingent sum | | 5,000 |
| 5. Construction engineering by the contractor, lump sum | | 100,000 |
| 6. Unclassified excavation, 86,118 yds @ \$4.00/yd. | | 344,472 |
| 7. Borrow, 146,860 yds @ \$9.00/yd. | | 1,321,740 |
| 8. 24" pipe conduit, 1,450 ft. @ \$65.00/l.f. | | 94,250 |
| 9. Culvert marker posts, 94 @ \$60.00/each | | 5,640 |
| 10. Guide markers, 330 @ \$65.00/each | | 21,450 |
| | Subtotal | \$ 2,132,552 |
| 12% Engineering & Contingencies | | 255,910 |
| Preparation of Plans, Specifications and Engineering Documents | | 250,000 |
| | TOTAL | \$ 2,638,462 |
| | USE | 2,650,000 |

D. Economic Impact: The project should provide short-term construction employment on the local level. Development of this known geothermal area would become more feasible when road access is established.

E. Attachments: N/A

FISCAL NOTE

I. REQUEST

Bill/Resolution No. House CS for CS for Senate Bill No. 26
 Title Appropriations to various state agencies for energy related programs and projects
 Requested by Kerttula, Ziegler, Ferguson, et al Date _____

II. FISCAL DETAIL

Agency Affected Department of Transportation and Public Facilities
 Program Category Affected Highways and Design and Construction
 BRU, Program, or Subprogram(s) Affected _____
 (Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

| | FY81 | FY82 | FY83 | FY84 | FY85 | FY86 |
|--------------------------|------|------|------|------|------|------|
| 100 PERSONAL SERVICES | | | | | | |
| 200 TRAVEL | | | | | | |
| 300 CONTRACTUAL | | | | | | |
| 400 COMMODITIES | | | | | | |
| 500 EQUIPMENT | | | | | | |
| 600 LAND & STRUCTURES | | | | | | |
| 700 GRANTS, CLAIMS, ETC. | | | | | | |

TOTAL

FUNDING (Thousands of Dollars)

| | | | | | | |
|-----------------------------|--|-----------|--|--|--|--|
| GENERAL FUND | | 3,200,000 | | | | |
| FEDERAL FUNDS | | | | | | |
| OTHER (Specify Fund Source) | | | | | | |

POSITIONS

| | | | | | | |
|-----------|--|--|--|--|--|--|
| FULL TIME | | | | | | |
| PART TIME | | | | | | |
| TEMPORARY | | | | | | |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

See Attached.

IV. DATE 5/11/81 PREPARED BY John C. Bates
 AGENCY Trans. & Public Facilities
 PHONE 465-3900

Original: Legislative Finance
 cc: Budget and Management
 Prime Sponsor (First Legislator Named)

Power Cost Comparison
(Cents/KWH)

| <u>Present Population</u> | <u>Project</u> | (SC SB 25 and 26) Direct State Funding | | Conventional Funding | |
|-------------------------------|----------------|---|-------------|----------------------|-------------|
| | | <u>1st Year</u> | <u>1991</u> | <u>1st Year</u> | <u>1991</u> |
| 1,190 | Chester Lake | 1.4 | 2.8 | 7.9 | 9.4 |
| 230 | Port Lyons | 4.9 | 9.7 | 18.0 | 23.0 |
| 13,500 | Swan Lake | 2.8 | 2.8 | 28.2 | 23.0 |
| 8,000 | Terror Lake | 1.0 | 1.5 | 13.7 | 11.3 |
| 7,200 | Tyee Lake | 2.9 | 3.4 | 30.8 | 22.0 |
| 26,000 | Bradley Lake | .7 | 1.4 | 9.1 | 9.8 |
| 8,800 | Green Lake | 1.3 | 2.3 | 13.0 | 10.9 |
| <u>7,000</u> | Solomon Gulch | 1.8 | 3.7 | 14.8 | 14.4 |
| <u>71,920</u> | | | | | |

FISCAL NOTE

I. REQUEST

Bill/Resolution No. CSSB 25

Title An act establishing a power project fund in the Alaska Power Authority

Requested by Kerttula, Dankworth, Zeigler, et al. Date _____

II. FISCAL DETAIL

Agency Affected Department of Commerce & Economic Development

Program Category Affected Energy Development

BRJ, Program, or Subprogram(s) Affected Alaska Power Authority

(Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

| | FY 81 | FY 82 | FY 83 | FY 84 | FY 85 | FY 86 |
|--------------------------|-------|--------------|--------------|--------------|--------------|-------|
| 100 PERSONAL SERVICES | | 104.0 | 111.3 | 111.9 | 127.4 | |
| 200 TRAVEL | | 8.0 | 8.6 | 9.3 | 10.0 | |
| 300 CONTRACTUAL | | 1.0 | 1.0 | 1.0 | 1.0 | |
| 400 COMMODITIES | | 6.0 | 1.0 | | | |
| 500 EQUIPMENT | | | | | | |
| 600 LAND & STRUCTURES | | | | | | |
| 700 GRANTS, CLAIMS, ETC. | | | | | | |
| TOTAL | | 119.0 | 121.9 | 129.3 | 138.4 | |

FUNDING (Thousands of Dollars)

| | | | | | | |
|-----------------------------|--|-------|-------|-------|-------|--|
| GENERAL FUND | | 119.0 | 121.9 | 129.3 | 138.4 | |
| FEDERAL FUNDS | | | | | | |
| OTHER (Specify Fund Source) | | | | | | |
| | | | | | | |

POSITIONS

| | | | | | | |
|-----------|--|---|---|---|---|--|
| FULL TIME | | 2 | 2 | 2 | 2 | |
| PART TIME | | | | | | |
| TEMPORARY | | | | | | |

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

Funding would be used to insure compliance with provisions of economic criteria and to insure that sufficient funds are generated from project revenues to project operation, debt service and safety investigations.

IV. DATE March 4, 1981

PREPARED BY Terry McGuire

AGENCY Alaska Power Authority

PHONE 277-7641

Original: Legislative Finance

cc: Budget and Management

Prime Sponsor (First Legislator Named)

Original sponsors: Kerttula, Ziegler,
Ferguson, et al

Offered: 4/23/81
Referred: Finance

Funding Information

General Fund \$572,417,500
Other Funds -0-
\$572,417,500

1 IN THE SENATE

BY THE RESOURCES COMMITTEE

2 HOUSE CS FOR CS FOR SENATE BILL NO. 26 (Resources)

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 TWELFTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act making appropriations to various state agencies
7 for energy-related programs and projects, and repealing
8 an appropriation for a hydroelectric project; and pro-
9 viding for an effective date."

10 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

11 * Section 1. The sum of \$309,100,000 is appropriated from the general
12 fund to the power project fund of the Alaska Power Authority (AS 44.83.170)
13 for loans in the amounts specified for the following listed power projects:

| | | |
|----|-------------------------------|---------------|
| 14 | (1) Green Lake | \$ 52,500,000 |
| 15 | (2) Ouzinkie | 1,700,000 |
| 16 | (3) Port Lions | 1,400,000 |
| 17 | (4) Snettisham (Crater Lakes) | 4,500,000 |
| 18 | (5) Solomon Gulch | 29,000,000 |
| 19 | (6) Swan Lake | 65,000,000 |
| 20 | (7) Terror Lake | 100,000,000 |
| 21 | (8) Tyee Lake | 55,000,000 |

22 * Sec. 2. The sum of \$14,624,500 is appropriated from the general fund
23 to the power project fund of the Alaska Power Authority (AS 44.83.170) for a
24 loan to the Fairbanks North Star Borough for the following purposes:

| | | |
|----|-------------------------------|---------------|
| 25 | (1) energy management program | \$ 12,152,077 |
| 26 | (2) solar collector retrofit | 1,211,760 |
| 27 | (3) waste heat greenhouses | 1,260,663 |

28 * Sec. 3. The sum of \$6,795,000 is appropriated from the general fund to
29 the Alaska Power Authority for Fairbanks district heating.

1 * Sec. 4. The sum of \$4,000,000 is appropriated from the general fund to
2 the power project fund of the Alaska Power Authority (AS 44.83.170) for a
3 loan to Alaska Electric Light and Power Company for construction of trans-
4 mission lines.

5 * Sec. 5. The sum of \$3,000,000 is appropriated from the general fund to
6 the power project fund of the Alaska Power Authority (AS 44.83.170) for a
7 loan to Alaska Electric Light and Power Company for rehabilitation of Salmon
8 Creek II.

9 * Sec. 6. The sum of \$35,000,000 is appropriated from the general fund
10 to the Alaska Power Authority for acquisition of a right-of-way for and
11 design and construction of a high voltage electrical transmission system
12 connecting Anchorage and Fairbanks.

13 * Sec. 7. The sum of \$2,000,000 is appropriated from the general fund to
14 the power project fund of the Alaska Power Authority (AS 44.83.170) for
15 acquisition of a right-of-way for and design and construction of an electri-
16 cal transmission system connecting Craig and Klawock.

17 * Sec. 8. The sum of \$5,800,000 is appropriated from the general fund to
18 the power project fund of the Alaska Power Authority (AS 44.83.170) for
19 acquisition of a right-of-way for and design and construction of an electri-
20 cal transmission system connecting Petersburg (Tyee Lake power project) and
21 Kake.

22 * Sec. 9. The sum of \$200,000 is appropriated from the general fund to
23 the Alaska Power Authority for construction of a single ground wire return
24 between Kotzebue and Shungnak.

25 * Sec. 10. The sum of \$215,000 is appropriated from the general fund to
26 the Alaska Power Authority for construction of a single wire ground return
27 transmission line between Napaskiak and Oscarville.

28 * Sec. 11. The sum of \$215,000 is appropriated from the general fund to
29 the Alaska Power Authority for construction of a single wire ground return

1 transmission line between Bethel and Napaskiak.

2 * Sec. 12. The sum of \$5,600,000 is appropriated from the general fund
3 to the Alaska Power Authority for reconnaissance studies for proposed power
4 project sites for the following rural communities: Akhiok, Ambler, Angoon,
5 Aniak, Atka, Atkasook, Brevig Mission, Buckland, Chefornek, Chignik, Chignik
6 Lagoon, Chignik Lake, Chuathbaluk, Cold Bay, Craig, Diomede, Elim, False
7 Pass, Galena, Golovin, Goodnews Bay, Grayling, Gustavus, Hoonah, Hooper Bay,
8 Hydaburg, Ivanoff Bay, Kalskag, Kaltag, Karluk, Kiana, King Cove, Klawock,
9 Kotlik, Kotzebue, Koyuk, Larsen Bay, Lower Kalskag, Mekoryuk, Metlakatla,
10 Newtok, Nightmute, Nikolski, Nome, Old Harbor, Perryville, Ruby, St. Mary's,
11 St. Michael, St. Paul, Savoonga, Scammon Bay, Shageluk, Shishmaref, Shungnak,
12 Stebbins, Teller, Tenakee Springs, Togiak, Toksook Bay, Tununak, Unalakleet,
13 Unalaska, and White Mountain.

14 * Sec. 13. The sum of \$30,850,000 is appropriated from the general fund
15 to the Alaska Power Authority for feasibility studies under AS 44.83.181, to
16 be allocated to the following proposed power project sites:

| | | |
|----|---------------------------------------|------------|
| 17 | (1) Bethel regional study - Kisaralik | 1,000,000 |
| 18 | (2) Black Bear Lake | 2,000,000 |
| 19 | (3) Bradley Lake | 4,000,000 |
| 20 | (4) Chester Lake | 1,000,000 |
| 21 | (5) Chakachamna Lake | 1,000,000 |
| 22 | (6) Grant Lake | 1,000,000 |
| 23 | (7) Power Creek | 700,000 |
| 24 | (8) Susitna | 18,100,000 |
| 25 | (9) Takatz Lake | 50,000 |
| 26 | (10) Tazimina Lake | 2,000,000 |

27 * Sec. 14. The sum of \$440,000 is appropriated from the general fund to
28 the Alaska Power Authority for a feasibility study of the Fairbanks district
29 heating extension.

1 * Sec. 15. The sum of \$996,000 is appropriated from the general fund to
2 the Alaska Power Authority for a feasibility study examining design and
3 construction of an electrical transmission system between Hoonah and Juneau.

4 * Sec. 16. The sum of \$42,000 is appropriated from the general fund to
5 the Alaska Power Authority for a feasibility study and the design and con-
6 struction of improvements to hydroelectric facilities for Pelican.

7 * Sec. 17. The sum of \$4,500,000 is appropriated from the general fund
8 to the Alaska Power Authority for a feasibility study and design for the
9 Lake Elva hydroelectric project.

10 * Sec. 18. The sum of \$20,000 is appropriated from the general fund to
11 the Alaska Power Authority for payment as a grant to the City of Fairbanks
12 for sewer plant energy conservation and management.

13 * Sec. 19. The sum of \$400,000 is appropriated from the general fund to
14 the Alaska Power Authority for payment as a grant to the Kuskokwim Native
15 Association for electrification projects in Chuathbaluk, Crooked Creek,
16 Sleetmute, and Stony River.

17 * Sec. 20. The sum of \$4,800,000 is appropriated from the general fund
18 to the Alaska Power Authority for the power production cost assistance fund
19 (AS 44.83.162).

20 * Sec. 21. The sum of \$10,000,000 is appropriated from the general fund
21 to the Alaska Power Authority for the rural electrification revolving loan
22 fund.

23 * Sec. 22. The sum of \$5,000,000 is appropriated from the general fund
24 to the Alaska Power Authority for geothermal well drilling at Unalaska.

25 * Sec. 23. The sum of \$4,000,000 is appropriated from the general fund
26 to the Department of Administration for payment of rural electrification
27 grants to municipalities.

28 * Sec. 24. The sum of \$1,580,000 is appropriated from the general fund
29 to the Department of Commerce and Economic Development, division of energy

1 and power development, for programs under AS 44.33.030 - 44.33.060, to be
2 allocated as follows:

| | | |
|----|--------------------------------------|-----------|
| 3 | (1) preparation of state energy plan | \$500,000 |
| 4 | (2) regional energy planning | 100,000 |
| 5 | (3) state-federal liaison | 100,000 |
| 6 | (4) citizens' information and | |
| 7 | assistance | 100,000 |
| 8 | (5) data collection and computer | |
| 9 | application | 700,000 |
| 10 | (6) professional seminars | 80,000 |

11 * Sec. 25. The sum of \$12,800,000 is appropriated from the general fund
12 to the Department of Commerce and Economic Development, division of energy
13 and power development, for energy conservation refunds, grants and audits,
14 to be allocated as follows:

| | | |
|----|--|-------------|
| 15 | (1) performance of energy audits | \$4,000,000 |
| 16 | (2) energy conservation grants and refunds | 8,800,000 |

17 * Sec. 26. The sum of \$16,200,000 is appropriated from the general fund
18 to the Department of Commerce and Economic Development, division of energy
19 and power development, for regional energy planning, energy audits, weather-
20 ization and conservation, community training, and reconnaissance studies
21 under the low-income energy conservation program.

22 * Sec. 27. The sum of \$20,000,000 is appropriated from the general fund
23 to the Department of Commerce and Economic Development, division of small
24 business loans, for alternative energy and energy conservation loan pro-
25 grams, to be allocated as follows:

| | | |
|----|---------------------------------------|--------------|
| 26 | (1) alternative energy and energy | |
| 27 | conservation loans | \$10,000,000 |
| 28 | (2) alternative energy business loans | 10,000,000 |

29 * Sec. 28. The sum of \$2,400,000 is appropriated from the general fund

1 to the Department of Community and Regional Affairs for the bulk fuel
2 storage facilities grant fund (AS 44.47.145).

3 * Sec. 29. The sum of \$1,000,000 is appropriated from the general fund
4 to the Department of Community and Regional Affairs for payment of rural
5 electrification grants to unincorporated communities.

6 * Sec. 30. The sum of \$200,000 is appropriated from the general fund to
7 the Department of Education for teacher training and curriculum development
8 and for satellite television relating to energy-related subjects in elemen-
9 tary and secondary school curricula.

10 * Sec. 31. The sum of \$60,000 is appropriated from the general fund to
11 the Department of Natural Resources for an aquifer drilling project at
12 McGrath.

13 * Sec. 32. The sum of \$2,300,000 is appropriated from the general fund
14 to the Department of Natural Resources for a northwest Alaska coal resources
15 investigation.

16 * Sec. 33. The sum of \$2,650,000 is appropriated from the general fund
17 to the Department of Transportation and Public Facilities for construction
18 of a road between the Nome area road system and Pilgrim Hot Springs.

19 * Sec. 34. The sum of \$550,000 is appropriated from the general fund to
20 the Department of Transportation and Public Facilities for installation of
21 coal-fired heating systems in the schools of the Railbelt and Delta-Greeley
22 regional educational attendance areas.

23 * Sec. 35. The sum of \$250,000 is appropriated from the general fund to
24 the Office of the Governor for the fuel emergency fund (AS 44.19.052).

25 * Sec. 36. The sum of \$350,000 is appropriated from the general fund to
26 the University of Alaska for energy conservation improvements.

27 * Sec. 37. The sum of \$150,000 is appropriated from the general fund to
28 the University of Alaska for upper division and graduate courses related to
29 energy courses and professional studies.

1 * Sec. 38. The sum of \$200,000 is appropriated from the general fund to
2 the University of Alaska, division of community colleges and rural educa-
3 tion, for development of energy studies within community college curricula.

4 * Sec. 39. The sum of \$500,000 is appropriated from the general fund to
5 the University of Alaska, division of community colleges and rural education,
6 for vocational and job training programs related to energy.

7 * Sec. 40. The sum of \$6,400,000 is appropriated from the general fund
8 to the Alaska Energy Center for research, development, and demonstration
9 projects.

10 * Sec. 41. The sum of \$3,330,000 is appropriated from the general fund
11 to the Alaska Energy Center for the following feasibility studies relating
12 to energy projects of the center:

| | | |
|----|---|------------|
| 13 | (1) Angoon tidal power project | \$ 500,000 |
| 14 | (2) Kodiak waste heat cogeneration | |
| 15 | project | 2,500,000 |
| 16 | (3) Kotzebue district heating and | |
| 17 | coal utilization study | 100,000 |
| 18 | (4) Kotzebue waste heat study | 150,000 |
| 19 | (5) Mary's Igloo -- design of an energy | |
| 20 | efficient community in conjunction with | |
| 21 | relocation | 50,000 |
| 22 | (6) St. Mary's waste heat and district | |
| 23 | heating study | 30,000 |

24 * Sec. 42. The sum of \$500,000 is appropriated from the general fund to
25 the Alaska Energy Center for wind reconnaissance studies and research state-
26 wide.

27 * Sec. 43. The sum of \$1,100,000 is appropriated from the general fund
28 to the Alaska Energy Center for the following projects:

29 (1) Pilgrim Hot Springs geothermal

| | | |
|---|----------------------------------|------------|
| 1 | test well | \$ 700,000 |
| 2 | (2) Sheldon Point wind project | 300,000 |
| 3 | (3) Skagway construction of wind | |
| 4 | generating system | 100,000 |

5 * Sec. 44. The sum of \$2,000,000 is appropriated from the general fund
6 to the Legislative Council for the House Special Committee on Coal for a
7 feasibility study concerning site selection and rail and road connections
8 for a major coal export facility.

9 * Sec. 45. The sum of \$300,000 is appropriated from the general fund to
10 the Legislative Council for the Joint Gas Pipeline Committee for a study of
11 alternative methods of transporting Prudhoe Bay natural gas to market.

12 * Sec. 46. Section 1(1), ch. 5A, SLA 1980 is repealed.

13 * Sec. 47. Section 24 of this Act takes effect on the effective date of
14 an Act entitled "An Act establishing assistance and information programs on
15 energy in the Department of Commerce and Economic Development; and providing
16 for an effective date."

17 * Sec. 48. Sections 27 - 29 of this Act take effect on the effective
18 date of an Act entitled "An Act relating to departments and programs of
19 state government which are concerned with energy; and providing for an
20 effective date."

21 * Sec. 49. Section 45 of this Act takes effect on the effective date of
22 an Act or resolution by which the First Session of the Twelfth Legislature
23 directs its Joint Gas Pipeline Committee to prepare a report concerning
24 alternative methods of transporting Prudhoe Bay natural gas to markets.

25 * Sec. 50. This Act takes effect immediately in accordance with AS 01.-
26 10.070(c).

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28
29

Original sponsors: Kerttula, Ziegler,
Ferguson, et al

Offered: 3/5/81
Referred: Rules

Funding Information
General Fund \$512,500,000
Other Funds -0-
\$512,500,000

1 IN THE SENATE BY THE FINANCE COMMITTEE

2 CS FOR SENATE BILL NO. 26 (Finance)

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 TWELFTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act making special appropriations to the Alaska
7 Power Authority for energy projects and for the power
8 production cost assistance program; and providing for
9 an effective date."

10 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

11 * Section 1. The sum of \$354,900,000 is appropriated from the general
12 fund to the power project development fund of the Alaska Power Authority
13 (AS 44.83.400 - 44.83.480), to be expended by the authority in the amounts
14 specified for the following listed power projects:

| | | |
|----|-------------------|--------------|
| 15 | (1) Bradley Lake | \$40,000,000 |
| 16 | (2) Chester Lake | 6,000,000 |
| 17 | (3) Green Lake | 46,000,000 |
| 18 | (4) Port Lions | 1,400,000 |
| 19 | (5) Snettisham | 20,000,000 |
| 20 | (6) Solomon Gulch | 62,000,000 |
| 21 | (7) Swan Lake | 53,000,000 |
| 22 | (8) Terror Lake | 81,500,000 |
| 23 | (9) Tyee Lake | 45,000,000 |

24 * Sec. 2. The sum of \$40,000,000 is appropriated from the general fund
25 to the power project development fund of the Alaska Power Authority (AS 44.-
26 83.400 - 44.83.480) to be allocated by the authority to the following areas
27 for development and construction of power projects under AS 44.83.187:

28 (1) \$10,000,000 for projects in senate district M
29 (2) \$10,000,000 for projects in senate district N

1 (3) \$10,000,000 for projects in senate district P

2 (4) \$10,000,000 for projects in other areas of the state.

3 * Sec. 3. The sum of \$85,000,000 is appropriated from the general fund
4 to the Alaska Power Authority for acquisition of a right-of-way for and
5 design and construction of a high voltage electrical transmission system
6 connecting Anchorage and Fairbanks.

7 * Sec. 4. The sum of \$27,800,000 is appropriated from the general fund
8 to the Alaska Power Authority for feasibility studies under AS 44.83.181, to
9 be allocated to the following proposed power project sites:

| | | |
|----|---|--------------|
| 10 | (1) Black Bear Lake | \$ 1,400,000 |
| 11 | (2) Grant Lake | 1,000,000 |
| 12 | (3) Kisaralik | 1,000,000 |
| 13 | (4) Kotzebue | 850,000 |
| 14 | (5) Power Creek | 700,000 |
| 15 | (6) Scammon Bay | 200,000 |
| 16 | (7) Susitna | 15,000,000 |
| 17 | (8) Takatz Lake | 50,000 |
| 18 | (9) Tazimina Lake | 2,000,000 |
| 19 | (10) Rural community studies: Akhiok, | |
| 20 | Ambler, Angoon, Atka, Chignik, Chignik | |
| 21 | Lagoon, Chignik Lake, Cold Bay, Elim, | |
| 22 | False Pass, Goodnews Bay, Grayling, | |
| 23 | Gustavus, Ivanoff Bay, Kaltag, Karluk, | |
| 24 | Kiana, King Cove, Larsen Bay, Nikolski, | |
| 25 | Old Harbor, Ouzinkie, Perryville, | |
| 26 | Shungnak, Tenakee Springs, Togiak, | |
| 27 | Unalaska | 5,600,000 |

28 * Sec. 5. The sum of \$4,800,000 is appropriated from the general fund to
29 the Alaska Power Authority for the power production cost assistance fund

1 (AS 44.83.162).

2 * Sec. 6. Sections 1 and 2 of this Act take effect on the effective
3 date of an Act entitled "An Act establishing a power project development
4 fund in the Alaska Power Authority and amending the Alaska Power Authority
5 Act; and providing for an effective date."

6 * Sec. 7. Sections 3 - 5 of this Act take effect immediately in accor-
7 dance with AS 01.10.070(c).

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Funding Information
 General Fund \$4,560,000,000
 Other Funds -0-
\$4,560,000,000

Introduced: 1/13/81
 Referred: Resources and Finance

BY KERTTULA, ZIEGLER, FERGUSON, KELLY,
 BRADLEY, ELIASON AND FAHRENKAMP

1 IN THE SENATE

2 SENATE BILL NO. 26

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 TWELFTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act making special appropriations to the power
 7 project revolving loan fund of the Alaska Power Author-
 8 ity; and providing for an effective date."

9 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

10 * Section 1. The sum of \$1,500,000,000 is appropriated from the general
 11 fund to the power project revolving loan fund of the Alaska Power Authority
 12 (AS 44.83.400 - 44.83.470), to be allocated by the authority as loans for
 13 the following power projects:

| | | |
|----|---------------------------|---------------|
| 14 | (1) Black Bear Lake | \$ 5,000,000 |
| 15 | (2) Bradley Lake | 70,000,000 |
| 16 | (3) Lake Elva | 5,000,000 |
| 17 | (4) Green Lake | 17,000,000 |
| 18 | (5) Power Creek | 10,000,000 |
| 19 | (6) Snettisham, Phase II | 13,000,000 |
| 20 | (7) Solomon Gulch | 21,000,000 |
| 21 | (8) Susitna | 1,100,000,000 |
| 22 | (9) Swan Lake | 43,000,000 |
| 23 | (10) Tazimina Lake | 24,000,000 |
| 24 | (11) Terror Lake | 34,000,000 |
| 25 | (12) Tyee Lake | 25,000,000 |
| 26 | (13) Other power projects | 133,000,000 |

27 * Sec. 2. The sum of \$20,000,000 is appropriated from the general fund
 28 to the power project revolving loan fund of the Alaska Power Authority
 29 (AS 44.83.400 - 44.83.470) for the power production assistance program

1 (AS 44.83.162).

2 * Sec. 3. The sum of \$1,500,000,000 is appropriated from the general
3 fund to the power project revolving loan fund of the Alaska Power Authority
4 (AS 44.83.400 - 44.83.470) to be allocated by the authority as loans for the
5 following power projects:

| | | |
|----|---------------------------|---------------|
| 6 | (1) Black Bear Lake | \$ 5,000,000 |
| 7 | (2) Bradley Lake | 70,000,000 |
| 8 | (3) Lake Elva | 5,000,000 |
| 9 | (4) Green Lake | 17,000,000 |
| 10 | (5) Power Creek | 10,000,000 |
| 11 | (6) Snettisham, Phase II | 13,000,000 |
| 12 | (7) Solomon Gulch | 21,000,000 |
| 13 | (8) Susitna | 1,100,000,000 |
| 14 | (9) Swan Lake | 24,000,000 |
| 15 | (10) Tazimina Lake | 24,000,000 |
| 16 | (11) Terror Lake | 57,000,000 |
| 17 | (12) Tyee Lake | 25,000,000 |
| 18 | (13) Other power projects | 129,000,000 |

19 * Sec. 4. The sum of \$20,000,000 is appropriated from the general fund
20 to the power project revolving loan fund of the Alaska Power Authority
21 (AS 44.83.400 - 44.83.470) for the power production assistance program
22 (AS 44.83.162).

23 * Sec. 5. The sum of \$1,500,000,000 is appropriated from the general
24 fund to the power project revolving loan fund of the Alaska Power Authority
25 (AS 44.83.400 - 44.83.470) to be allocated by the authority as loans for the
26 following power projects:

| | | |
|----|---------------------|--------------|
| 27 | (1) Black Bear Lake | \$ 5,000,000 |
| 28 | (2) Bradley Lake | 70,000,000 |
| 29 | (3) Lake Elva | 5,000,000 |

| | | |
|---|---------------------------|-------------|
| 1 | (4) Green Lake | 17,000,000 |
| 2 | (5) Power Creek | 10,000,000 |
| 3 | (6) Snettisham, Phase II | 13,000,000 |
| 4 | (7) Solomon Gulch | 21,000,000 |
| 5 | (9) Swan Lake | 30,000,000 |
| 6 | (10) Tazimina Lake | 24,000,000 |
| 7 | (11) Terror Lake | 32,000,000 |
| 8 | (12) Tyee Lake | 20,000,000 |
| 9 | (13) Other power projects | 153,000,000 |

10 * Sec. 6. The sum of \$20,000,000 is appropriated from the general fund
11 to the power project revolving loan fund of the Alaska Power Authority
12 (AS 44.83.400 - 44.83.470) for the power production assistance program
13 (AS 44.83.162).

14 * Sec. 7. Sections 1 and 2 of this Act take effect July 1, 1981.

15 * Sec. 8. Sections 3 and 4 of this Act take effect July 1, 1982.

16 * Sec. 9. Sections 5 and 6 of this Act take effect July 1, 1983.

17 * Sec. 10. This Act takes effect on the effective date of an Act estab-
18 lishing a power project revolving loan fund in the Alaska Power Authority as
19 a source of money for loans to power projects.

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