

1 IN THE SENATE

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SENATE BILL NO. 232

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IN THE LEGISLATURE OF THE STATE OF ALASKA

4

FIFTEENTH LEGISLATURE - FIRST SESSION

5

A BILL

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For an Act entitled: "An Act relating to a science, natural resource, and
7 engineering policy; and providing for an effective
8 date."

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

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* Section 1. FINDINGS AND PURPOSE. (a) The legislature finds that

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(1) a continuing state effort is needed to ensure the efficient
12 acquisition, storage, retrieval, transfer, and dissemination of current and
13 research-derived scientific and engineering knowledge concerning the
14 natural resources, environments, communities, and human conditions present
15 in the state;

16

(2) there is no formal organization uniting state, federal
17 municipal, and university information centers, libraries, and data systems;

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(3) the state has made a considerable investment in the opera-
19 tion of information and data systems through its funding of resource man-
20 agement and scientific enterprise, and the preservation of the information
21 represents an investment that the state should protect by the inclusion of
22 the information within an accessible system;

23

(4) it is incumbent on each recipient of state funding, whether
24 an individual grantee or the administrator of a state program, to make
25 information available for state purposes;

26

(5) the interagency Council on Northern Resources Information
27 Management has as its objective the efficient management and sharing of
28 scientific, natural resource, and engineering information and data;

29

(6) plans for the termination or curtailment of information

1 centers, libraries, and data systems in government and at the University of
2 Alaska threaten seriously the enhancement and growth of the economy of the
3 state; the efficient interagency management and sharing of scientific,
4 natural resource, and engineering information; the capacity of state gov-
5 ernment to use accumulated information and to make technically correct
6 decisions involving science, natural resources, and engineering; and the
7 ability of the public to secure necessary information; and

8 (7) the collective knowledge and information available in li-
9 braries and information centers in the state represent wealth to the state
10 and profoundly affect the well-being of the state and its residents.

11 (b) The legislature intends that

12 (1) engineering and information resources be efficiently and
13 cost-effectively managed through the appropriate unification, combination,
14 or interconnection of the diverse scientific, natural resource, and engi-
15 neering information systems and libraries of the state;

16 (2) policies and processes for cooperative management, transfer,
17 and dissemination of information be developed between federal, state,
18 municipal, and university systems and libraries;

19 (3) an information network to provide information services to
20 state, federal, municipal, and university research organizations and the
21 public and private sectors of the state be promoted and supported;

22 (4) appropriate roles within the information network established
23 in this Act be designated to state agencies and the University of Alaska.

24 * Sec. 2. AS 44.19.253 is amended to read:

25 Sec. 44.19.253. STATEMENT OF POLICY. It is the policy of the
26 state in AS 44.19.251 - 44.19.270 [AS 44.19.251 - 44.19.265,] to
27 recognize the important role that science, natural resources, [SCIEN-
28 TIFIC] and engineering research and [SCIENCE] education play for the
29 people of the state and the entire nation. The policy will make it

1 possible to

2 (1) find, develop, and manage the natural renewable and
3 nonrenewable resources of the state's land and water economically and
4 in an environmentally acceptable fashion;

5 (2) manage the unique features of the environment, fauna,
6 and flora of the state and protect them from harmful man-made and
7 natural influences;

8 (3) investigate and mitigate the effects of natural hazards
9 such as earthquakes, volcanic eruptions, avalanches, permafrost, and
10 other hazards that occur in the state;

11 (4) construct, operate, and maintain transportation sys-
12 tems, communications, housing, and other facilities suited to the
13 state's conditions;

14 (5) develop new technologies adapted to the unique con-
15 ditions and needs of the state;

16 (6) improve the health and well being through the life
17 cycle of the state's inhabitants; and

18 (7) identify and address future social and economic chal-
19 lenges facing the state.

20 * Sec. 3. AS 44.19.257(a) is amended to read:

21 (a) The commission is composed of seven [FIVE] members appointed
22 by the governor as follows:

23 (1) one member [IS TO BE] appointed from individuals from
24 the academic institutions of the state with expertise in areas of
25 research relating to the state including the physical, biological,
26 health, environmental, social, and behavioral sciences;

27 (2) one member [IS TO BE] appointed from individuals who
28 are engaged in activities furthering the welfare of the human and
29 physical environment and who have expertise in areas of research

1 relating to the state, including the physical, biological, health,
2 environmental, social, and behavioral sciences;

3 (3) one member [IS TO BE] appointed from state departments
4 with research needs; [AND]

5 (4) one member [IS TO BE] appointed from individuals famil-
6 iar with the state and representative of the needs and interests of
7 private industry;

8 (5) the individual who serves as the [SENIOR] science
9 advisor to the governor [IN THE GOVERNOR'S OFFICE, WHO SERVES AS
10 CHAIRMAN AND DIRECTOR OF THE COMMISSION];

11 (6) the state librarian; and

12 (7) one member appointed from individuals nominated by the
13 Council on Northern Resources Information Management.

14 * Sec. 4. AS 44.19.257 is amended by adding a new subsection to read:

15 (c) The governor shall designate the presiding officer and
16 director of the commission.

17 * Sec. 5. AS 44.19.263 is amended to read:

18 Sec. 44.19.263. DUTIES OF THE COMMISSION. The commission shall

19 (1) [WITH THE SENIOR SCIENCE ADVISOR,] develop and recom-
20 mend an integrated state research policy;

21 (2) provide policy information to the governor and the
22 legislature on matters that have scientific, natural resource, and
23 engineering significance;

24 (3) receive scientific, natural resource, and engineering
25 information from the academic and industrial communities;

26 (4) act in an advocacy role for scientific, natural re-
27 source, and engineering issues and science education important to the
28 state that might otherwise be overlooked;

29 (5) assist state agencies in assessing research needs and

- 1 establishing priorities among them;
- 2 (6) facilitate cooperation between state agencies and the
3 University of Alaska and other academic institutions and industry;
- 4 (7) recommend methods to improve logistical planning and
5 support for needed state research;
- 6 (8) suggest methods for improving efficient sharing and
7 dissemination of data and information in the state among interested
8 public and private institutions;
- 9 (9) promote science education and training for young scien-
10 tists and engineers to pursue careers in the state and the Arctic;
- 11 (10) cooperate with the Federal Arctic Research Commission
12 in the formulation of the Arctic research policy; and
- 13 (11) not later than September 30 of each year, present to
14 the governor the commission's recommended research priorities of the
15 state for the next fiscal year.
- 16 * Sec. 6. AS 44.19.263 is amended by adding new subsections to read:
- 17 (b) The commission shall conduct an annual review of the pro-
18 grams of agencies of the state and the University of Alaska concerned
19 with the acquisition, management, transfer, circulation, and dissemi-
20 nation of scientific, natural resource, and engineering information,
21 data, or materials. The commission in its conduct of the annual
22 review may develop and recommend appropriate policies for libraries
23 and information and data management organizations, and may recommend
- 24 (1) changes in the structure of an agency responsible for
25 information services and management to increase efficiency, coordina-
26 tion, or cooperation with agencies of the federal, state, and municipi-
27 pal governments, and universities conducting research on Alaskan or
28 arctic subjects;
- 29 (2) means to ensure access to information and data in the

1 fields of natural resources, science, and engineering;

2 (3) appropriate budgetary allocations by organization or
3 function;

4 (4) other matters considered necessary by the commission.

5 (c) The commission shall conduct an annual review of state
6 agency and University of Alaska programs and organizations concerned
7 with the acquisition, management, transfer, circulation, and dissemin-
8 ation of science, natural resource, and engineering information, data,
9 or materials. Each annual review shall develop and recommend appro-
10 priate goals and responsibilities for each library and information and
11 data management organization and program with regard to

12 (1) changes in substantive or functional organizational
13 responsibility;

14 (2) continued access by others to information and data;

15 (3) efficient and cost-effective management;

16 (4) appropriate budgetary allocations;

17 (5) implementation of information networking, transfer, and
18 dissemination;

19 (6) improvements in information program coordination and
20 cooperation with the federal and municipal governments, including
21 space and facility sharing and a collaborative assignment of person-
22 nel;

23 (7) other matters.

24 (d) The commission shall assist in

25 (1) library information collection management;

26 (2) natural resource data management;

27 (3) scientific and engineering research data management;

28 (4) coordination of data systems, standards, and technol-

29 ogies; and

1 (5) information liaison, consultation, and referral ser-
2 vices.

3 * Sec. 7. AS 44.19 is amended by adding a new section to read:

4 Sec. 44.19.264. DESIGNATION OF INFORMATION COLLECTION REPOSI-
5 TORIES. (a) The Alaska state library and the Rasmusson Library of
6 the University of Alaska-Fairbanks are designated as primary library
7 information collection repositories and centers.

8 (b) The Alaska Resources Library of the U.S. Department of the
9 Interior in Anchorage may be designated as a primary library informa-
10 tion collection repository if the Department of the Interior agrees to
11 its designation.

12 (c) The director of each library designated as a primary library
13 information collection repository under this section shall adopt
14 uniform procedures that, for each library, specify

- 15 (1) collection management objectives;
- 16 (2) priority subjects for each major collection;
- 17 (3) rules for the circulation of the collection;
- 18 (4) agreements for the cataloging of the materials within
19 the collection;
- 20 (5) development of bibliographic data bases and data base
21 access;
- 22 (6) periodicals or journals available;
- 23 (7) terms and conditions of use;
- 24 (8) other matters.

25 (d) The commission may, in consultation with agencies affected,
26 make recommendations for the reduction or elimination of duplications
27 of effort, cost-effective management of multiple-user access, and
28 maximum public and private sector access.

29 (e) The commission may participate with other agencies of the

1 state or federal government and with educational or research insti-
2 tutions for the development of the science, natural resource, and
3 engineering management.

4 * Sec. 8. AS 44.19.265 is amended to read:

5 Sec. 44.19.265. SHORT TITLE. AS 44.19.251 - 44.19.270 [AS 44.-
6 19.251 - 44.19.265] may be cited as the Alaska Science, Natural Re-
7 sources, and Engineering [RESEARCH] Policy Act.

8 * Sec. 9. AS 44.19 is amended by adding new sections to read:

9 Sec. 44.19.266. COOPERATIVE INFORMATION AND DATA MANAGEMENT
10 SHARING. (a) A state agency may join the Council on Northern Re-
11 sources Information Management and participate in cooperative informa-
12 tion and data management sharing and dissemination programs.

13 (b) The commission shall use the Council on Northern Resources
14 Information Management as an advisory group for the development of
15 state policy on cooperative interagency information management, shar-
16 ing, and dissemination.

17 (c) The commission may use the Governor's Advisory Council on
18 Libraries for information management policy formulation and direction.

19 Sec. 44.19.267. NATURAL RESOURCE DATA MANAGEMENT. (a) Each
20 state agency and each organizational unit of the University of Alaska
21 shall maintain a listing and description with the commission of the
22 natural resource data bases that the agency or unit has developed and
23 is maintaining. The listing shall be revised and submitted to the
24 commission annually.

25 (b) The commission shall review the listing and description of
26 the natural resource data base provided under (a) of this section and,
27 in consultation with the agency or unit involved, may recommend appro-
28 priate policies designed to eliminate or reduce unnecessary duplica-
29 tion of effort, effective cost-management means of multiple-user

1 access, and provisions for maximum access. Proprietary data may be
2 protected under law.

3 Sec. 44.19.268. SCIENTIFIC AND ENGINEERING RESEARCH DATA MANAGE-
4 MENT. (a) Each state agency and each organizational unit of the
5 University of Alaska shall maintain a listing and description with the
6 commission of the scientific and engineering research data bases that
7 the agency or unit has developed and is maintaining. The listing
8 shall be revised and submitted to the commission annually.

9 (b) The commission shall review the listing and description of
10 the science and engineering research data base provided under (a) of
11 this section and, in consultation with the agency or unit involved,
12 may recommend appropriate policies designed to eliminate or reduce
13 unnecessary duplication of effort, effective cost-management means of
14 multiple-user access, and provisions for maximum access. Proprietary
15 data may be protected under law.

16 Sec. 44.19.269. COORDINATION OF DATA SYSTEMS, STANDARDS, AND
17 TECHNOLOGY. The office of information and technology at the Univer-
18 sity of Alaska-Anchorage may coordinate network advisory and con-
19 sultative services designed to

20 (1) coordinate multiple access and use of science, natural
21 resource, and engineering data bases developed and maintained by
22 agencies of the state, including the University of Alaska;

23 (2) develop common standards of data entry when applicable;

24 (3) aid in the achievement of multiple internodal commu-
25 nication technologies and procedures in cost-effective and efficient
26 ways that are consonant with the requirements of substantive data base
27 analysis;

28 (4) provide other services as appropriate.

29 Sec. 44.19.270. INFORMATION CONSULTATION AND REFERRAL SERVICES.

1 (a) The Arctic Environmental Information and Data Center shall pro-
2 vide professional information, consultation, and referral services
3 relating to

4 (1) natural resource management, development, and research;
5 and

6 (2) scientific and engineering research and development
7 knowledge.

8 (b) The service provided under (a) of this section may be pro-
9 vided to the commission, to an agency of the state or a unit of the
10 University of Alaska, or to the public.

11 (c) Services provided under (a) of this section include:

12 (1) consultative services for the design, operation, and
13 management of a specialized information collection for use by a state
14 agency or a unit of the University of Alaska;

15 (2) the location, accessing, and indexing for an agency of
16 the state or a unit of the University of Alaska of rare or obscure
17 reports useful for the enhancement of state and Arctic science, natu-
18 ral resource, and engineering research;

19 (3) maintenance of current directories of

20 (A) materials with library collections;

21 (B) science, natural resource, and engineering data
22 bases;

23 (C) current research projects;

24 (D) science, natural resource, and engineering experts
25 available for referral;

26 (4) facilitation of the operations, programs, and goals of
27 the Alaska offices of the U.S. Arctic Research Commission, the Alaska
28 Science and Engineering Advisory Commission, the Alaska Office of the
29 National Oceanic and Atmospheric Administration's National

1 Environmental Satellite, Data, and Information Service, and other
2 agencies of the state or federal government or a unit of the Uni-
3 versity of Alaska requesting services under reimbursable services
4 agreements;

5 (5) administration of the Alaska State Climate Center
6 established under AS 14.40.085 in coordination with the National
7 Weather Service and the National Climatic Data Center under coopera-
8 tive agreements authorized by law;

9 (6) conducting science, natural resource, and engineering
10 information analyses and investigations needed for public policy
11 development.

12 * Sec. 10. This Act takes effect July 1, 1987.

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