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Alaska State Legislature
House of Representatives
COMMITTEE ON HEALTH, EDUCATION
AND SOCIAL SERVICES

OFFICIAL BUSINESS

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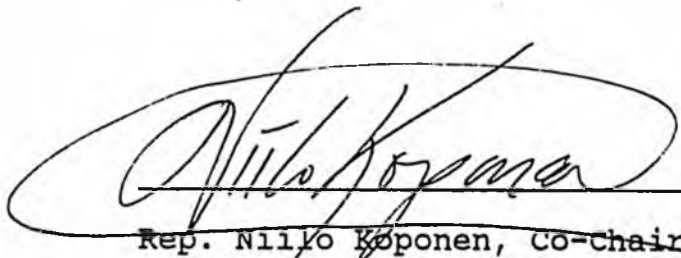
LETTER OF INTENT

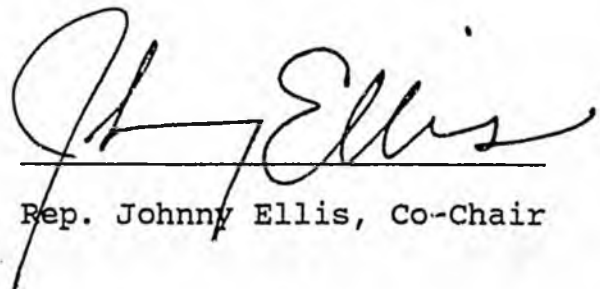
CSHB 54 (HESS)

"AN ACT CREATING AN ALASKA EARTHQUAKE AND VOLCANO HAZARDS
ASSESSMENT PROJECT"

It is the intent of the House Health, Education and Social Services Committee that a request be made for federal monies from the Federal Earthquake Hazards Reduction Act of 1977 (Public Law 95-124) and other applicable federal sources to help offset the costs of The Alaska Earthquake and Volcano Hazards Assessment Project. The amount requested should match the state funding level for this program.

In an effort to save the State both time and expense, this letter is offered in place of a resolution to Congress and shall be delivered to the members of the Alaska Congressional Delegation with appropriate backup information.


Rep. Niilo Koponen, Co-Chair


Rep. Johnny Ellis, Co-Chair

February 18, 1986

Prepared by: Brian Rogers, Director of Budget Development Phone: 907 474-6490
 Division: University of Alaska Date: February 20, 1987
 Approved by ^{Vice President} [Signature] Date: February 20, 1987
 Agency: University of Alaska

Distribution (by preparer):

- Legislative Finance
- Legislative Sponsor
- Requestor
- Office of Management and Budget
- Impacted Agency(ies)
- Senate Secretary

Date _____ of _____

CONTINUATION OF FISCAL NOTE ANALYSIS

For Bill/Resolution No. CSHB54 (HESS)

In August 1986, the UAF Geophysical Institute agreed to take over the seismic hazard program from the Alaska Department of Natural resources. The FY88 UA budget contains \$130.5 in partial funding for this program. The additional funding contained in this fiscal note provides funding of Alaska's program for collection, recording and archiving of seismic data at an annual level equivalent to the level when the program was transferred to UAF.

HB 54 -- An Act Creating an Alaska Earthquake and Volcano
Hazards Assessment Project.

File Contents

- 1) Copy of HB 54
- 2) Work Draft of Sponsor Substitute, HB 54
- 3) Position Paper
- 4) Memo to Reps. Koponen and Davis from John Davies,
2/16/87
- 5) Copy of AS 41.08.020

5-0253R
Utermohle
2/16/87

1 IN THE HOUSE

BY KOPONEN AND DAVIS

2 SPONSOR SUBSTITUTE FOR HOUSE BILL NO. 54

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 FIFTEENTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act creating an Alaska earthquake and volcano
7 hazards assessment project."

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

9 * Section 1. FINDINGS. The legislature finds that the systematic
10 collecting, recording, processing, and archiving of seismic data on earth-
11 quakes and volcanic eruptions and the evaluation of the data to identify
12 and assess potential earthquake and volcanic hazards throughout the state
13 are in the public interest and necessary to orderly, safe, and cost-effec-
14 tive economic development and land-use planning.

15 * Sec. 2. AS 14.40 is amended by adding a new section to read:

16 Sec. 14.40.075. ESTABLISHMENT OF ALASKA EARTHQUAKE AND VOLCANIC
17 HAZARDS ASSESSMENT PROJECT. (a) The University of Alaska shall
18 establish an Alaska earthquake and volcano hazards assessment project
19 within the seismology program of the geophysical institute. The
20 project shall

21 (1) collect, record, process, and archive seismic data on
22 earthquakes and volcanic eruptions in the state;

23 (2) conduct seismological studies relating to earthquake
24 and volcano hazards assessment;

25 (3) evaluate earthquake and volcanic seismic data to assist
26 in the identification and assessment of earthquake and volcanic haz-
27 ards that may pose a significant risk to lives and property in the
28 state;

29 (4) inform public officials, industry, and private citizens

1 of potential earthquake or volcanic risks and assist in planning to
2 reduce risks to lives and property; and

3 (5) coordinate its activities with other organizations and
4 agencies that monitor, collect, assess, and conduct research on earth-
5 quake and volcano hazards in order to avoid duplication of effort.

6 (b) The administration and management of the project is under a
7 university employee designated the state seismologist. The state
8 seismologist shall provide timely information concerning earthquake
9 and volcano hazards to public officials, industry, and private citi-
10 zens and serve as liaison to state and federal agencies in the event
11 of emergencies due to seismic and volcanic activities.

12 * Sec. 3. AS 41.08.017(b) is repealed and reenacted to read:

13 (b) Systematic collecting, evaluation, archiving, and distribu-
14 tion of geologic data and information on earthquakes, volcanic erup-
15 tions, and engineering geology and identification of potential seis-
16 mic, volcanic, and other geological hazards throughout the state are
17 in the public interest and necessary to orderly, safe, and cost-effec-
18 tive development.

19 * Sec. 4. AS 41.08.020(b) is amended to read:

20 (b) In addition, the division of geological and geophysical
21 surveys shall:

22 (1) collect, record, evaluate, and distribute data on the
23 quantity, quality, and location of underground, surface, and coastal
24 water of the state;

25 (2) publish or have published data on the water of the
26 state;

27 (3) require the filing with it of the results and findings
28 of surveys of water quality, quantity, and location;

29 (4) require of water well contractors, the filing with it

1 of basic water and aquifer data normally obtained, including but not
 2 limited to well location, estimated elevation, well driller's logs,
 3 pumping tests and flow measurements, and water quality determinations;

4 (5) accept and spend funds for the purposes of this sec-
 5 tion, AS 41.08.017, and 41.08.035 and enter into agreements with
 6 individuals, public or private agencies, communities, private indus-
 7 try, state agencies, and agencies of the federal government;

8 (6) collect, [RECORD,] evaluate, [ARCHIVE] and distribute
 9 geologic data on seismic events and engineering geology of the state;

10 (7) identify potential seismic hazards that might affect
 11 development in the state;

12 (8) inform public officials and industry about potential
 13 seismic hazards that might affect development in the state.
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Alaska State Legislature
Representative Niilo Koponen

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POSITION PAPER
HB 54 "AN ACT CREATING AN ALASKA EARTHQUAKE
AND VOLCANO HAZARDS ASSESSMENT PROJECT"
FEBRUARY 17, 1987

From the International impact of the 1912 Katmai explosion and 1964 earthquake to the more recent eruptions of Mount St. Augustine last year and in 1976, the State of Alaska has been noted for its seismic activity.

The purpose of this legislation is to ensure that the State maintains a viable seismographic network to record Alaska's earthquake and volcanic eruptions, by establishing the Alaska earthquake and volcanic hazards assessment project within the University of Alaska's Geophysical Institute's seismology program.

To implement this project, the Department of Geological and Geophysical Survey has agreed to transfer to this project the money for seismic monitoring and seismic hazard mitigation for the state of Alaska. DGGS will continue to be responsible for the geological aspects of seismic hazard mitigation.

HB 54 amends AS.14.40 (University of Alaska and Community Colleges) by adding the Alaska Earthquake and Volcanic Hazards Assessment project within the University. AS 41.08.020 (Geological and Geophysical Survey) will maintain it's same responsibilities except for section (6) which will now read "collect, evaluate and distribute geologic data on seismic events and engineering geology of the state".

The creation of the hazards assessment project will place the state of Alaska at the forefront of seismic studies within the nation and the world and provide the data necessary to protect lives and property and preserve safe, cost-effective economic development and land use planning.

MEMO February 16, 1987

TO: Niilo Koponen and Mike Davis

FROM: John Davies

SUBJECT: Background for HB 54

Background: In 1981 I was hired by DGGS to create a Seismic Hazards Mitigation Program. In February, 1982 DGGS sponsored a workshop in Wassila to suggest the scope of such a program. Resolution 1 from that workshop called for DGGS to establish a seismic program to:

- a) Ensure the operation of a statewide seismographic network, including instrumentation to record strong ground motion in areas of significant earthquake potential;
- b) Establish a statewide seismic-data center; and
- c) Coordinate the collection and dissemination of seismic data for Alaska.

In July of 1983 the Governor signed into law HB 379 which established a seismic hazard program within DNR. The projects specifically outlined in the proposed objectives for HB 379(1983) were:

- 1) Cook Inlet - Seismic Network;
- 2) Interior Alaska Seismic Network;
- 3) Stations in SE, SC, and SW Alaska;
- 4) Seismic Instrumentation in Anchorage Buildings;
- 5) Cook Inlet Volcano Observatory;
- 6) Alaska Seismological Data Center; and
- 7) Engineering Geological Studies in Municipal Areas

The total budget proposed for these projects was \$503K, \$300K was approved for FY 84.

In August of 1986 the UAF and the Institute agreed to take over the seismic hazard program from DGGS, effective October 1, 1986 I resigned from DGGS and was hired as a research associate by the Institute. After my arrival here Syun, Merritt, Mike Davis, Niilo Koponen and I met to discuss how to fund the program at UAF. We agreed that legislation or

an executive order would be required to "create" the program at UAF and to eliminate any resulting duplication in the DNR statutes. Syun coordinated this with O'Rourke and they agreed that we would seek line-item funding for the program. Mike Davis and Nille Koponen drafted a proposed bill to establish an "Alaskan Seismic Hazard Center" at UAF and to delete responsibility for the collection, recording and archiving of seismic data by DNR.

The question was raised as to exactly what did DGGGS intend to transfer to the UAF. To resolve this issue Merritt and I met with Pedro Denton (then Director of DGGGS) and Dick Reger in October. We asked them if the understanding that Syun had communicated to us was correct; i.e., DGGGS intended to transfer to us not only the money for seismic monitoring in the restricted sense, but also the responsibility for the state of Alaska for seismic hazards mitigation in the larger sense. This was correct, they only asked that they be allowed to have early input on the language of any proposed legislation since they wished to retain statutory responsibility for certain geological aspects of seismic hazard mitigation. We agreed to a division of responsibility whereby we would in general restrict ourselves to seismological aspects and they would focus on geological aspects. The details of who will do what can be left to an MOU.

Budget: The history of State of Alaska Support for DNR seismic hazard mitigation is summarized in the following table:

FISCAL YEAR	AUTHORIZED BUDGET	EFFECTIVE BUDGET	NOTES
82	\$ 59K	\$ 59K	a
83	108	108	
84	300	560	b
85	440	444	b, c
86	256	230	c
87	116	104	c, d
88	(75)	(54)	e, f

- Notes:
- a) partial year
 - b) salary in Eng. Geol.
 - c) minus 10% internal overhead
 - d) later further reduced to 74K
 - e) proposed DNR C-4 transfer to UAF
 - f) adjusted for GI 40% overhead

The total budget proposed for FY 88 is as follows:

C-4 transfer from DNR	130,000
new general fund money	100,000
capital re-appropriation	80,000
TOTAL	310,000

Proposed Budget for The Alaska Earthquake and Volcanic Hazards Assessment Project

February 16, 1987

TASK A Maintain Remote Seismic Stations

	Operating	Capital
Fairbanks VHF (6 @ 1300)	9,000	
Fairbanks local (2 @ 250)	500	
Northern AK (2 @ 500)	1,500	
Highway sys. (20 @ 500)	5,000	30,000
Cook Inlet/Aug. (12 @ 2000)	24,000	
Kodiak (9 @ 2,500)	22,500	20,000
Staff Benefits	2,800	
Juneau (3 @ 1000)	<u>3,000</u>	<u>30,000</u>
Subtotal A	68,300	80,000

TASK B Maintain Seismic Lab/Process Routine Data

Supervisor (3mo @ 4800)	14,400
Programmer (3mo @ 3200)	9,600
Grad. Student (12mo @ 1850)	22,200
Electronics (4mo @ 7500)	30,200
Staff Benefits (@ 19%)	4,600
Supplies	12,000
Software maint.	9,000
Hardware maint.	<u>14,400</u>
Subtotal B	116,400

TASK C Seismic and Volcanic Hazard Analysis

Seismologist (3mo @ 4800)	28,800
Travel	6,000
Supplies, services	5,000
Staff benefits	<u>5,500</u>
Subtotal C	45,300

TOTAL (A-C) 230,000

public interest and necessary to orderly, safe and cost-effective development in the state. (§ 1 ch 41 SLA 1977; am § 1 ch 101 SLA 1983)

Effect of amendments. — The 1983 amendment designated the former provision as subsection (a) and added subsection (b).

Sec. 41.08.020. Powers and duties. (a) The state geologist shall conduct geological and geophysical surveys to determine the potential of Alaskan land for production of metals, minerals, fuels, and geothermal resources; the locations and supplies of groundwater and construction materials; the potential geologic hazards to buildings, roads, bridges and other installations and structures; and shall conduct such other surveys and investigations as will advance knowledge of the geology of Alaska. With the approval of the commissioner, the state geologist may acquire, by gift or purchase, geological and geophysical reports, surveys and similar information.

(b) In addition, the division of geological and geophysical surveys shall:

(1) collect, record, evaluate, and distribute data on the quantity, quality and location of underground, surface and coastal water of the state;

(2) publish or have published data on the water of the state;

(3) require the filing with it of the results and findings of surveys of water quality, quantity, and location;

(4) require of water well contractors, the filing with it of basic water and aquifer data normally obtained, including but not limited to well location, estimated elevation, well driller's logs, pumping tests and flow measurements and water quality determinations;

(5) accept and spend funds for the purposes of this section, AS 41.08.017 and 41.08.035 and enter into agreements with individuals, public or private agencies, communities, private industry, state agencies and agencies of the federal government;

(6) collect, record, evaluate, archive and distribute data on seismic events and engineering geology of the state;

(7) identify potential seismic hazards that might affect development in the state;

(8) inform public officials and industry about potential seismic hazards that might affect development in the state. (§ 1 ch 93 SLA 1972; am § 2 ch 41 SLA 1977; am § 7 ch 176 SLA 1980; am § 2 ch 101 SLA 1983)

Cross references. — For declaration of legislative policy on geothermal resources, see § 1, ch. 176, SLA 1980, in the Temporary and Special Acts.

Effect of amendments. — The 1980 amendment added "geothermal resources"

to the first clause of subsection (a). The 1983 amendment added paragraphs (6), (7) and (8) of subsection (b).

Sec. 41.08.030. Printing and distribution of reports. The state geologist shall print and publish an annual report and such other special and topical reports and maps as may be desirable for the benefit of the state, including the printing or reprinting of reports and maps made by other persons or agencies, where authorization to do so is obtained. Reports and maps may be sold and all money received from these sales shall be paid into the general fund. (§ 1 ch 93 SLA 1972)

Sec. 41.08.035. Regulations by Department of Natural Resources. The Department of Natural Resources may adopt regulations relating to and providing for the systematic collection, recording, and distribution of data on the water of the state. (§ 3 ch 41 SLA 1977)

Sec. 41.08.040. Cooperation with other agencies. The state geologist, with the consent of the commissioner, may enter into cooperative agreements with federal, state, and local governmental agencies to perform geological and geophysical surveys, studies, investigations, and services. (§ 1 ch 93 SLA 1972)

Chapter 10. Soil Conservation District Law.

Section	Section
10. Declaration of policy	80. Vacancies
20. Creation and boundaries of soil conservation district	90. Compensation and per diem
30. Purpose of chapter	100. Duty of board to advise commissioner of natural resources
40. Soil and water conservation board	110. Powers of commissioner of natural resources relating to soil and water conservation
45. Executive director	120. Approval of land user
50. Appointment	130. Creation and boundaries of soil and water conservation districts
60. Qualifications of board members	140. Definitions
65. Major land areas of the state	
70. Term of office	
75. Board meetings	

Collateral references. — 3 Am. Jur. 2d, Agriculture, §§ 16, 22, 34 — 37. 3 C.J.S., Agriculture, §§ 3, 5 — 7. Measure of damages for wrongful removal of earth, sand, or gravel from land. 1 ALR3d 801.

Sec. 41.10.010. Declaration of policy. The farm, forest and grazing land of the state is a basic asset of the state. It is the policy of this chapter, in the interest of the health, safety, and general welfare of the people of the state, to provide for the development, use and conservation of this land in accordance with its capabilities. (§ 47-4-2 ACLA 1949)

Sec. 41.10.020. Creation and boundaries of soil conservation district. (Repealed, § 14 ch 69 SLA 1983.)