

SCOMM

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STATE OF ALASKA  
FIELD WARRANT

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429645 <sup>89-1</sup>/<sub>1252</sub>

PAYABLE THROUGH  
THE B.M. BEHREND'S BANK  
JUNEAU, ALASKA

QUANTITY	ITEM DESCRIPTION	UNIT PRICE	TOTALS
	House Power Alternatives Study - Honorarium for Testimony-April 1980		350.00
1	31 92 1 208 293		350.00
2	VENDOR NUMBER	INVOICE DATE MO DAY YEAR	INVOICE NUMBER OR BREF DESCRIPTION
		04.11.80	HONORARIUM
			350.00

DATE April 11, 1980

VOID AFTER 90 DAYS

AMOUNT **\*\*350.00\*\***

NOT MORE THAN \$100

PAY TO THE ORDER OF:

Amory Lovins

TOTAL

02-401TC  
3/78

CERTIFYING OFFICER

⑆ 1 25 2000 1 5 ⑆ ⑆ 30000000000 ⑆ ⑆

4/8/80

April 7, 1980

To: Rep. Brian Rogers *gr*

From: Janelle Parker, Special Assistant to Myrt Charney

Enclosed for your records is a copy of the signed contract between Gregg Erickson and the House Power Alternatives Study Committee. Please let me know if I can be of further assistance.

STATE OF ALASKA  
THE LEGISLATURE

LEGISLATIVE AFFAIRS AGENCY

POUCH Y - STATE CAPITOL  
JUNEAU, ALASKA 99811  
907-465-3800

CONTRACT BETWEEN

STATE OF ALASKA - LEGISLATIVE AFFAIRS AGENCY  
Pouch Y - State Capitol  
Juneau, Alaska 99811

AND

GREGG ERICKSON  
316 Coleman Drive  
Juneau, Alaska 99801

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, on behalf of the Legislative Council's House Power Alternatives Study Committee, hereinafter referred to as the "AGENCY", and GREGG ERICKSON, hereinafter referred to as the "Consultant".

THE PURPOSE OF THIS AGREEMENT is to provide the House Power Alternatives Study Committee with the consulting services of Gregg Erickson for a study of the feasibility of coal-fired power generation for the Railbelt area of Alaska.

IT IS THEREFORE MUTUALLY AGREED THAT:

CLAUSE I. - STATEMENT OF WORK

- (A) The Consultant shall prepare and deliver a written report on the economic, political and technical feasibility of coal-fired power generation for the Railbelt area of Alaska. The report shall specifically address the following points:
- (1) Previous work on potential of coal-fired generation for the Railbelt.
  - (2) Potential of existing Healy operation.
  - (3) Present institutional barriers to coal generation, and their possible resolution.
  - (4) Economic, social and environmental costs and benefits of coal generation in comparison with other forms of power production.

- (5) The potential for coal generation in the Railbelt during the next twenty-five years -- how much power could coal be expected to provide, with what attendant costs?
- (6) The feasibility of coal generation with and without related coal development possibilities.

CLAUSE II. - PERIOD AND DATES OF PERFORMANCE

- (A) Unless extended or terminated by mutual agreement, this contract is effective March 30, 1980 and expires May 10, 1980.
- (B) A written report is to be submitted by May 2, 1980, in print-ready form. If report is not submitted by May 9, 1980, 5 p.m. PST, no payment will be made. If report is submitted between May 2, 1980 and May 9, 1980, 10% of total contract fee shall be deducted for each day the report is late.
- (C) This contract may be terminated by either party upon written notice to the other.

CLAUSE III. - PROJECT DIRECTORS

The Project Directors shall be Representative Brian Rogers and Representative Hugh Malone, acting on behalf of the House Power Alternatives Study Committee.

CLAUSE IV. - COMPENSATION AND METHOD OF PAYMENT

- (A) For the work specified in this contract, the Consultant shall be compensated at the rate of \$7,000.00 (Seven Thousand Dollars).
- (B) Payment shall be made at the completion of the report.
- (C) Total payments under this contract, including expenses shall not exceed \$7,000.00.

CLAUSE V. - OFFICE SPACE, EQUIPMENT

Office space, equipment of the Contractor that will be necessary to carry out his obligations under this contract shall be supplied by the Contractor at no cost to the Agency.

CLAUSE VI. - RECORDS, DOCUMENTS, AUDIT

The Consultant shall maintain accurate records, including detailed time records, as may be required by the Project Directors. The records are subject to inspection by the Agency or the Project Directors at all reasonable times. All documents, reports and writings generated as a consequence of work done under this contract shall become the property of the State of Alaska and, on completion of the work or at the termination of this contract, shall be delivered to the Project Directors.

CLAUSE VII. - REPORTS

The Consultant shall keep the Project Directors informed as to the progress of the work performed under this agreement and shall provide progress reports as specified by the Project Director.

CLAUSE VIII. - CONFLICT OF INTEREST

The Contractor affirms that he does not now have any consulting or professional business relationships with anyone with whom it could be construed as having a conflict of interest.

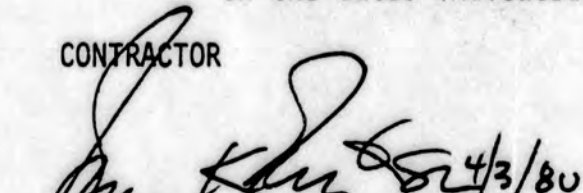
CLAUSE IX. - ALL WRITINGS CONTAINED HEREIN

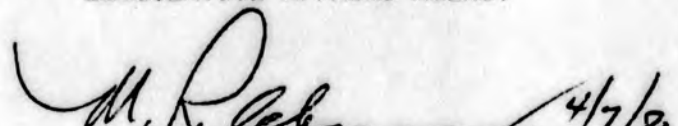
This agreement contains all the terms and conditions agreed upon by the parties. No other understanding, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties of this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated.

CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY


  
GREG R. ERICKSON Date 4/3/80  
(Ak. Business License 73957)

  
M. R. CHARNEY Date 4/7/80  
Executive Director

Accepted:

Approved as to form:

  
Rep. Brian Rogers Date 4/3/80

  
Billy G. Berrier Date March 28, 1980  
Agency Legal Counsel

  
Rep. Hugh Malone Date

February 18, 1980

To: Representative Hugh Malone

From: Lynn Ager, Spec. Assist. to Myrt Charney

Enclosed for your files is a signed copy of the amendment to the contract between House Power Alternatives Study Committee and Mark Wittow.

AMENDMENT NO. 1  
CONTRACT BETWEEN  
STATE OF ALASKA - LEGISLATIVE AFFAIRS AGENCY  
AND  
MARK WITTON  
302 West 3rd Street  
Juneau, Alaska 99801

IT IS MUTUALLY AGREED THAT THE CONTRACT BETWEEN THE ABOVE PARTIES DATED JANUARY 18, 1980, IS HEREBY AMENDED AS FOLLOWS:

CLAUSE IV, Paragraph (A), page 2, is amended to read:

- (A) Payment for the work performed under this agreement shall be at the rate of \$2550 (Two Thousand Five Hundred Fifty Dollars) per month, to be paid before the last working day of each month for work carried out between the 15th day of the preceding month and the 15th day of the current month. Time sheets shall be approved monthly by the Project Director. Total compensation for work performed under Clause I of this agreement shall not exceed \$12,750 (Twelve Thousand Seven Hundred Fifty Dollars). The Agency shall deduct from each monthly payment income tax and other deductions required by law.

IN WITNESS WHEREOF, the parties have executed this amendment to this agreement on the dates indicated below.

CONSULTANT

LEGISLATIVE AFFAIRS AGENCY

Mark Witton 2/12/80  
MARK WITTON Date  
Ak. Bus. Lic. 98004

M.R. Charney 2/18/80  
M.R. CHARNEY Date

Accepted:

Approved as to form:

Brian Rogers 2/12/80  
Rep. Brian Rogers Date  
Co-Chairman, House Power  
Alternatives Study Committee

Billy G. Berrier 2/11, 1980  
BILLY G. BERRIER Date  
Agency Legal Counsel

Hugh Malone 2/14/80  
Rep. Hugh Malone Date  
Co-Chairman, House Power  
Alternatives Study Committee

CONTRACT BETWEEN

STATE OF ALASKA  
LEGISLATIVE AFFAIRS AGENCY  
Pouch Y, State Capitol  
Juneau, Alaska 99811

and

ALASKA CENTER FOR POLICY STUDIES  
221 E. 7th Ave. #204  
Anchorage, Alaska 99501

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, on behalf of the Alaska State Legislature's House Power Alternatives Study Committee, hereinafter referred to as the AGENCY, and the Alaska Center for Policy Studies, hereinafter referred to as the CONTRACTOR.

THE ABOVE PARTIES TO THIS CONTRACT, in consideration of the covenants hereinafter contained, hereby mutually agree to the terms and conditions hereinafter set forth:

CLAUSE I - SCOPE OF WORK

(A) General Tasks - The Contractor shall accomplish the following:

1. End Use Structure -  
Establish the general end uses of energy by category for the Anchorage-Cook Inlet and Fairbanks-Tanana Valley power planning regions.
2. Potential for Energy Conservation -  
Establish the varying levels of energy savings in the Railbelt area that would be realized from conservation measures taken by utilities, consumers, businesses and government. The numbers from this portion of the study will be used in the second stage of the University of Alaska Institute of Social and Economic Research power demand analysis, also being undertaken by the AGENCY.

3. Potential for Renewable Energy sources - Establish the contribution the available renewable energy sources can make towards satisfying energy demand in the Railbelt area. The numbers from this portion of the study will be used in the second stage of the University of Alaska Institute of Social and Economic Research power demand analysis, also being undertaken by the AGENCY.
4. Policy Development and Implementation - discuss the social, political and economic measures necessary to realize the potential described in numbers 2 and 3 above. These measures would include a draft legislative package and suggestions for market incentives, consumer education and state programs. The possible role of state agencies in developing and implementing these programs will also be discussed. A discussion of the employment effects of conservation and renewable energy programs will be included in this section.
5. Prepare one or more final reports as specified by the Project Director.

(B) Phase One

CONTRACTOR shall prepare a detailed plan of study including allocation of work responsibilities, designation of any subcontractors and related activities. The detailed study will be subjected to review by the Project Director and such parties as he may designate.

(C) Phase Two

Phase Two will consist of implementation of the study plan developed in Phase One, as approved by the Project Director.

(D) Schedule

1. Phase One shall be completed by November 15, 1979.
2. Phase Two shall be commenced as soon as possible, but no later than November 15, 1979.
3. Task A(1) shall be completed by February 1, 1980.
4. Tasks A(2) and A(3) shall be completed by March 1, 1980.
5. Tasks A(4) and A(5) shall be completed by April 2, 1980.

The draft legislative package shall be submitted to the Project Director or his designee by January 7, 1980.

CLAUSE II - PERIOD OF PERFORMANCE

The Period of Performance shall be October 1, 1979 through June 30, 1980.

CLAUSE III - TERMINATION

This contract may be terminated by either party upon 30 days notice to the other party.

CLAUSE IV - PROJECT DIRECTOR

The Project Director shall be the Honorable Brian Rogers, Co-Chairman of the House Power Alternatives Study Committee.

CLAUSE V - PRINCIPAL INVESTIGATOR

The principal investigator shall be Vic Fischer.

CLAUSE VI- COMPENSATION AND METHOD OF PAYMENT

- (A) Total compensation shall not exceed \$68,500.
- (B) Payment for Clause I(B) shall not exceed \$8,500.00 and shall be payable immediately upon billing by the CONTRACTOR.
- (C) Payment for Clause I(C) shall not exceed \$60,000, and shall be on the basis of monthly billing.
- (D) The CONTRACTOR shall receive no payment in addition to that specified in Clause VI(A) for travel and related expenses unless the Project Director requests that the CONTRACTOR travel between the CONTRACTOR'S place of business and Juneau.

CLAUSE VII - RECORDS, DOCUMENTS, AUDIT

The CONTRACTOR shall maintain accurate records, including detailed time records, as may be required by the AGENCY. The records are subject to inspection by the Project Director of the AGENCY at all reasonable times. All documents, reports and writings produced in the course of the work performed under this contract are, upon delivery to the Project Director or the AGENCY or at termination of this agreement, the property of the AGENCY, and/or in the public domain; provided that the CONTRACTOR will have the right to use any such materials for purposes of writing about or discussing the issues.

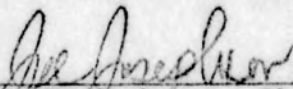
CLAUSE VII - ALL WRITINGS CONTAINED HEREIN

This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties to this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated.

CONTRACTOR


LEGISLATIVE AFFAIRS AGENCY

  
\_\_\_\_\_  
Joe Josephson, Chairman      Date  
Board of Directors, Alaska      Oct 19/1979.  
Center for Policy Studies

\_\_\_\_\_  
Myrton R. Charney      Date  
Executive Director

Accepted:

Approved as to Form:

  
\_\_\_\_\_  
Rep. Brian Rogers      Date  
Co-Chairman, House Power Alternatives      10/23/79  
Study Committee

\_\_\_\_\_  
Agency Legal Counsel      Date

PLEASE NOTE: THE FOLLOWING PAGES WERE TREATED  
AS A UNIT IN THE ORIGINAL DOCUMENT.

draft

CONTRACT BETWEEN

STATE OF ALASKA  
LEGISLATIVE AFFAIRS AGENCY  
Pouch Y, State Capitol  
Juneau, Alaska 99811

and

UNIVERSITY OF ALASKA  
INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH  
700 "A" St.  
Anchorage, Alaska 99501

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, on behalf of the Alaska State Legislature's House Power Alternatives Study Committee, hereinafter referred to as the AGENCY, and the University of Alaska Institute of Social and Economic Research, hereinafter referred to as the CONTRACTOR.

THE ABOVE PARTIES TO THIS CONTRACT, in consideration of the covenants hereinafter contained, hereby mutually agree to the terms and conditions hereinafter set forth:

CLAUSE I - STATEMENT OF WORK

(A) Scope of Work

Set out in Attachment A

(B) Work Products

1. A detailed work plan of I(A) shall be completed by November 15, 1979.
2. A Workshop on the input assumptions, as described in 1(C) of Attachment A, shall be held on approximately December 11, 1979 for the purpose of gauging the validity of those assumptions
3. A draft report shall be completed by March 1, 1980.
4. A final report, as described in 1(G) of Attachment A, shall be completed by May 15, 1980.

April 1  
May 1

4 round-trips  
Toronto & Alaska

CLAUSE II - PERIOD OF PERFORMANCE

The Period of Performance shall be October 1, 1979 through June 30, 1980.

CLAUSE III - TERMINATION

This contract may be terminated by mutual consent.

CLAUSE IV - PROJECT DIRECTOR

The Project Director shall be the Honorable Brian Rogers, co-Chairman of the House Power Alternatives Study Committee.

CLAUSE V - COMPENSATION AND METHOD OF PAYMENT

- (A) The CONTRACTOR shall be compensated \$60,000 for the work specified in Clause I of this Agreement.
- (B) Payment shall be on the basis of monthly billings of not more than \$7,000.
- (C) The CONTRACTOR shall receive no payment in addition to that specified in Clause V (A) for travel and related expenses unless the Project Director requires more than four total trips between the CONTRACTOR'S place of business and Juneau, Alaska. The four trips may be four trips by one individual, two trips by two individuals, etc.

CLAUSE VI - RECORDS, DOCUMENTS, AUDIT

The CONTRACTOR shall maintain accurate records, including detailed time records, as may be required by the AGENCY. The records are subject to inspection by the Project Director or the AGENCY at all reasonable times. All documents, reports and writings produced in the course of the work performed under this contract are, upon delivery to the Project Director or the AGENCY or at termination of this agreement, the property of the AGENCY, and/or in the public domain; provided that the CONTRACTOR will have the right to use any such materials for purposes of writing about or discussing the issues.

CLAUSE VII - ALL WRITINGS CONTAINED HEREIN

This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties to this agreement. IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated.

CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY

\_\_\_\_\_  
Lee Gorsuch                      Date  
Director, Institute of Social  
and Economic Research

\_\_\_\_\_  
Myrton R. Charney                      Date  
Executive Director

\_\_\_\_\_  
Howard Cutler                      Date  
Chancellor, University of Alaska

Accepted:

Approved as to Form:

\_\_\_\_\_  
Rep. Brian Rogers                      Date  
Co-Chairman, House Power  
Alternatives Committee

\_\_\_\_\_  
Agency Legal Counsel                      Date

ATTACHMENT A

1. Scope of Work

A. Methodological Review and Data Collection

Review methods available for projecting the level of economic activity in the railbelt and for estimating the level of electricity consumption. Review the existing work on both subjects with special reference to strengths and shortcomings and relevance to present study. Prepare a detailed work plan for review by the Project Director or consultant of his choice.

Collect the economic and electricity consumption data required for the study. The economic data is readily available to the Institute, and it is only required that it be properly formatted for this study. The Institute has a large amount of historical data on electric power consumption in Alaska through 1974 which must be updated through more recent years. This data will be obtained directly from the utilities, the Alaska Public Utilities Commission, and the Federal Energy Regulatory Commission.

B. Economic Model Specification

Incorporate 1978 economic data into the Man-in-the-Arctic Program (MAP) econometric model which will be used to project economic activity in Alaska and the railbelt regions. The most recent economic data is important for providing the best information on the structure of the economy.

Develop a procedure which regionalizes the economic projections in a manner consistent with the three potential service areas of a Susitna hydroelectric facility. These regions will be:

1. Anchorage-Cook Inlet
2. Fairbanks-Tanana Valley
3. Glennallen-Valdez

#### C. Economic Projections

Develop the input scenarios required to run the economic model. Specify the assumptions upon which each scenario is built. Several alternative scenarios will be generated which will provide both a most likely case as well as a likely range of outcomes. The scenarios will include not only estimates of exogenous basic sector activity but also of state government activity. A workshop will be held in early December to familiarize the Project Director with the scenarios and to obtain suggestions regarding corrections and additions to scenarios from invited experts on the various sectors of the Alaskan economy.

Generate the economic projections from the scenarios. The projections will be by region and will be through the year 2005. The sensitivity of the results to both variations in the scenarios as well as the specification of the equations will be tested and reported.

#### D. Assessment of Interfuel Substitution Possibilities

Conduct an econometric analysis of the sensitivity of electricity consumption to changes in prices of fuels and of income. This analysis will concentrate on the residential sector for which the best data is

available. It is recognized that severe technical problems exist in attempting to estimate a "demand function" for electricity within Alaska, but the best and most appropriate techniques will be applied to this analysis. The results will be interpreted in relation to their relevance for the overall study objective.

Conduct a case study-type analysis of interfuel substitution possibilities, again concentrating primarily on the residential component use. This study will attempt to define the relative fuel prices at which it becomes economically rational for consumers to substitute among fuels for various purposes. It will further attempt, on the basis of present and future inventories of durable goods used in energy-related functions, to determine the aggregate electricity-use impact such interfuel substitution could have. This analysis will concentrate on space heating which is the largest energy user in the home and which can be supplied by a variety of energy sources. It will attempt to define the limits of substitution possibilities by investigating the extreme cases of all electric space heating and all gas (or other nonelectric alternative) space heating in the residential sector. This study will attempt to draw upon and integrate previous work done on this subject in Alaska and elsewhere.

#### E. Electricity Use Projections

Develop electricity use projections for the following categories of consumers:

1. Residential
2. Commercial
3. Non-self-supplied industrial

4. Self-supplied industrial, presently operating in railbelt market areas
5. Potential industrial consumers, not presently operating in the railbelt area
6. Residential and commercial electricity users who cannot be integrated into the urban power grid.

The projections, through the year 2005, will be for total kilowatt hours of electricity consumed. They will not include projections of peak load, capacity requirements, or the load curve over the year or for representative days during the year. Projections will be provided for each of the market areas described in Task B. Several electricity-use projections will necessarily be developed in order to incorporate the results of the analysis of interfuel substitutability. The sensitivity of projection results to this factor as well as to other factors affecting per-customer usage will be analyzed.

The analysis of electricity consumption requirements of potential industrial consumers will not be directly integrated into the results for other sectors since this is recognized to be a highly speculative and uncertain component of demand. Probable electric power requirements for more likely alternatives will be identified, but "scenarios" for such industrial development will not be generated. In this category will also fall estimates of energy requirements for unconventional uses of electricity such as railroad electrification.

The projections will be constructed in such a way that estimates of the impact of various conservation measures could be integrated into the analysis. Such measures would derive from other studies.

F. Assess Projection Probabilities

Subjectively evaluate the probability of each of the projections generated by a combination of an economic projection and an electricity-use projection. Choose a most likely case and analyze the sensitivity of that case to key economic and energy-use factors. Compare the results of the analysis to previous work.

G. Prepare Final Report

The final report will be written in nontechnical language with appendixes containing the required technical backup information necessary not only to critically evaluate the work but to serve as a guide for updating the analysis periodically. As Tasks A and C are completed, a draft of each will be written and made available to the Project Director.

The final report will include a discussion of all tasks outlined in the Scope of Work. It will specifically document the choice of methodology for the analysis including not only a discussion of its strengths but also of its weaknesses and indicating the proper interpretation of results that these weaknesses require.

2. Additional Considerations

A. Coordination

This analysis of electricity requirements forms a portion of a larger study of alternatives for supplying electricity to the railbelt market in future years. It is important for this analysis to be consistent with the requirements of this larger study and also for the methodology

and assumptions used in the analysis to have as broad a consensus as possible. Thus, the Institute will seek to coordinate with the following groups and solicit suggestions and criticisms of methods and assumptions from them. Final decision on all matters discussed with regard to these efforts will remain with the Institute.

1. The Army Corps of Engineers (or their representative) or Acres American Incorporated (or their representative) - review of methodologies used in economic projections and demand analysis.
2. Energy Probe (or other consultants of the Project Director's choosing) - review of methodologies used in economic projections and demand analysis.
3. Dr. Bradford Tuck (or other consultants of the Project Director's choosing) - review the economic assumptions underlying the econometric model and the demand analysis.
4. Other consultants of the Project Director's choosing.
5. Alaskan utilities - consultation concerning electricity demand projections.
6. Center for Policy Studies - consultation concerning conservation possibilities.

In addition, the study will coordinate with the Alaska Power Authority and the Division of Energy and Power Development through the Project Director or his representative.

#### B. Updating

The analysis will be conducted in a manner which, as much as possible, will allow for updating of the results in a straightforward and consistent manner as factors affecting the projections change over time. All relevant methodological steps will be outlined in technical appendixes to the final report.

PLEASE NOTE: THE PRECEDING PAGES WERE TREATED  
AS A UNIT IN THE ORIGINAL DOCUMENT.

CONTRACT BETWEEN  
LEGISLATIVE AFFAIRS AGENCY  
AND  
GREGG K. ERICKSON

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, Pouch Y, Juneau, Alaska 99811, on behalf of the Alaska State Legislature, hereinafter referred to as the "Agency," and GREGG K. ERICKSON, 316 Coleman Drive, Juneau, Alaska 99801, hereinafter referred to as the "Contractor."

IT IS MUTUALLY AGREED THAT:

CLAUSE I. STATEMENT OF WORK

A. The Contractor shall be responsible for preparation and submission to the Project Director of a written report on the economic, political, and technical feasibility of future development of a natural gas based electrical economy in the railbelt area of Alaska. The report shall specifically address the following points:

1. The constraints on natural gas usage imposed by the federal "Powerplant and Industrial Fuel Use Act of 1978," and associated administrative regulation.
2. The constraints imposed by the act on the use of state-owned royalty natural gas.
3. The strategies of utilities, both in and outside of Alaska, for obtaining exemptions from the Act.
4. The status and effects of federal natural gas price regulation on the prices of natural gas produced and consumed in Alaska.
5. The effects of pipeline investments which make existing sources of Alaska natural gas available to demand centers in the state.
6. The prospects for, and effect of new gas discoveries on natural gas prices.
7. The significance for future gas prices of existing price escalation provisions in current electrical utility natural gas contracts.
8. The extent to which Alaska gas prices can be expected to respond to changes in world energy price levels.

9. The technical alternatives for implementing a natural gas based electrical economy, and the thermal efficiency to be expected from them, with the implications of these for electrical energy costs.

10. The extent to which electrical demand growth could be moderated by substitution of natural gas for electricity in direct consumer applications, including on-site power generation, with separate consideration of those areas already served by gas utilities and those where gas service is prospective.

11. The institutional and economic means of implementing decisions to substitute natural gas powered generation for other forms of generation.

12. Identification of additional studies that may be appropriate in addressing the viability of an electrical economy based on natural gas.

B. The Contractor shall, at the request of the Project Director, provide up to four days of additional work to be specified by the Project Director. It is contemplated that this work would include testimony for legislative committees on the subject matter of the report prepared under Paragraph (A) of this clause, and related subjects.

#### CLAUSE II. PERIOD AND DATES OF PERFORMANCE

A. This contract shall commence on 1 December 1979 and shall terminate on 30 June 1980, unless terminated earlier by mutual written agreement of the Contractor and the Agency.

B. A preliminary draft of the report described in Clause I(A) shall be submitted to the Project Director on or before 31 January 1980. The final report shall be submitted to the Project Director on or before 7 March 1980.

#### CLAUSE III. COMPENSATION AND PAYMENT

A. Total payments for the work described in Clause I shall be \$20,000, inclusive of all expenses and costs, including travel expenses.

B. Payments to the Contractor shall be made in three installments. The first of these shall be in the amount of \$6,000 due on the date this contract is executed by the Agency. The second and third installments shall be of \$7,000 each, and shall be due on submission of the preliminary and final reports, respectively.

CLAUSE IV. PROJECT DIRECTOR

The Project Director shall be Representative Brian Rogers, Box K, Fairbanks, Alaska 99708, or his designee.

CLAUSE V. COORDINATION WITH OTHER WORK

The Contractor shall be responsible for insuring the maximum degree of coordination between the work described in this contract and related work being carried out by Arlon R. Tussing and Associates, Inc., and by other contractors working under the direction of Rep. Rogers. The Contractor shall consult with Tussing, coordinate research and writing with him, and so far as practical, endeavor to make the reports submitted by Contractor and Tussing consistent in assumptions and complementary in scope.

CLAUSE VI. OFFICE SPACE, EQUIPMENT, CLERICAL SUPPORT

A. Office space, equipment, clerical support and all other goods and services necessary to carry out the Contractor's obligations under this contract shall be supplied by the Contractor at no cost to the Agency.

CLAUSE VII. RECORDS, DOCUMENTS, AUDIT

A. The Contractor shall maintain accurate records as may be required by the Project Director. The records are subject to inspection by the Agency or the Project Director at all reasonable times. All documents, reports and writings generated as a consequence of work done under this contract shall become the property of the State of Alaska, and on completion of the work or at the termination of this contract shall be delivered to the Agency. The Contractor shall keep the Project Director informed as to the progress of the work performed under this agreement and shall provide progress reports as specified by the Project Director.

CLAUSE VIII. CONFLICT OF INTEREST

A. The Contractor affirms that he is not now engaged in any professional business relationship that could reasonably be construed to constitute a conflict of interest relative to this obligation under this contract, and that he will notify the Project Director before undertaking any such professional business relationship.

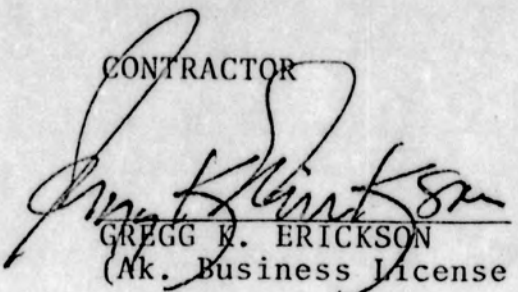
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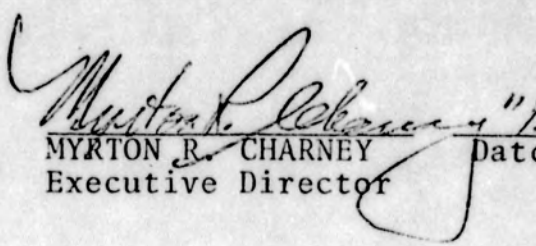
IN WITNESS WHEREOF, the parties have executed this agreement on the dates noted.

CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY

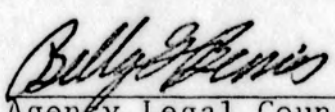
  
GREGG R. ERICKSON  
(Ak. Business License 73957)

11/5/77  
Date

  
MYRTON R. CHARNEY  
Executive Director


11/20/77  
Date

Approved as to form:

  
Agency Legal Counsel

11/20/77  
Date

Accepted:

  
Rep. Brian Rogers

11/15/77  
Date

Energy Probe,  
43 Queen's Park Crescent East,  
Toronto, Ontario,  
M5S 2C3.

January 29, 1980.

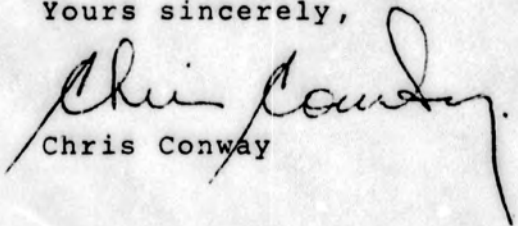
Representative Brian Rogers,  
Co-Chairman,  
House Power Alternatives Study  
Committee,  
Alaska State Legislature,  
Pouch V,  
Juneau, Alaska,  
99811.

Dear Representative Rogers,

With respect to the payment of state taxes resulting from Energy Probe's contract with HPASC, this is to indicate that the total salaries payable to Energy Probe staff in the performance of its contract while in the State of Alaska, will, in our estimation, not exceed \$2000 (US), or about 17% of the total value of the contract.

Upon completion of the contract, we will be able to provide a final figure.

Yours sincerely,

  
Chris Conway

Energy Probe,  
43 Queen's Park Crescent East,  
Toronto, Ontario,  
M5S 2C3.

January 29, 1980.

Mr. Mark Wittow,  
c/o Rep. Brian Rogers,  
Alaska State Legislature,  
Pouch V,  
Juneau, Alaska,  
99811.

Dear Mark,

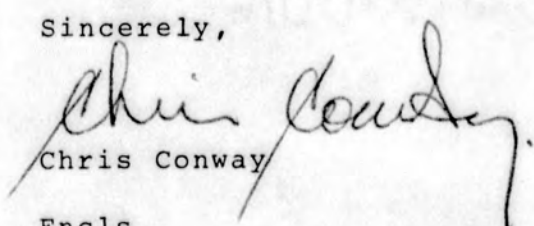
Enclosed are the materials relating to Energy Probe's contract with HPASC:

- (a) an application for an Alaska Business License;
- (b) a cheque for \$25 (US) or \$29 (Cdn) to accompany application;
- (c) the signed contract;
- (d) a letter in respect of payment of state taxes;
- (e) a billing for Part (A) and (B) of the contract.

Because some of the costs for this contract were incurred as long ago as November, we hope that it will be possible to arrange prompt payment for Parts (A) and (B).

I look forward to meeting with you when we return to Alaska in, I believe, late February or early March.

Sincerely,

  
Chris Conway

Encls.

Energy Probe,  
43 Queen's Park Crescent East,  
Toronto, Ontario,  
M5S 2C3.

January 29, 1980.

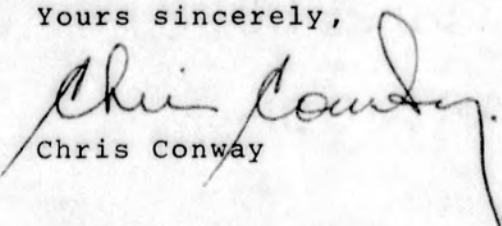
Representative Brian Rogers,  
Co-Chairman,  
House Power Alternatives Study  
Committee,  
Alaska State Legislature,  
Pouch V,  
Juneau, Alaska,  
99811.

Dear Representative Rogers,

With respect to the payment of state taxes resulting from Energy Probe's contract with HPASC, this is to indicate that the total salaries payable to Energy Probe staff in the performance of its contract while in the State of Alaska, will, in our estimation, not exceed \$2000 (US), or about 17% of the total value of the contract.

Upon completion of the contract, we will be able to provide a final figure.

Yours sincerely,

  
Chris Conway

Memo to Mr. Mark Wittow and/or Department of Revenue

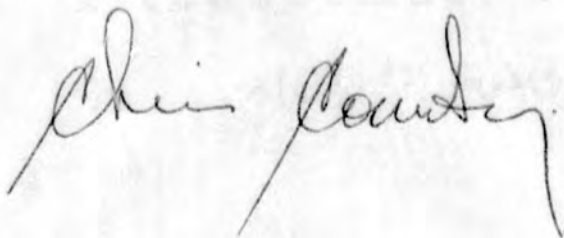
Energy Probe is a project of The Pollution Probe Foundation, a registered charitable Canadian foundation (Registration # 0384750 - 53 - 13). Funded jointly by private organizations, membership revenue and government agencies, a portion of Foundation revenue is derived from the performance of contracts for various provincial, national and in this case, foreign governments.

Energy Probe does not and will not conduct activities of a business nature in the State of Alaska except those directly related to the performance of a contract with The House Power Alternatives Study Committee, Alaska State Legislature, Co-chairman Representative Brian Rogers.

I have completed the Business License Application to the extent that the questions are related to the above considerations, and have attached a cheque in the amount of \$29 (Cdn), \$25 (US).

I have stated that the "New Business - Date Started" is December 31, 1979, which is the date above the name of Brian Rogers on the said contract.

If my responses to any of the questions are inadequate, and if the appropriate response can be derived from the above information, I hereby authorize Mr. Mark Wittow to make appropriate changes to the form before forwarding it to The Department of Revenue.

A handwritten signature in cursive script, appearing to read "Chris Country". The signature is written in dark ink and is positioned below the typed text.

CONTRACT BETWEEN  
LEGISLATIVE AFFAIRS AGENCY

AND

ARLON R. TUSSING & ASSOCIATES, INC.

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, Pouch Y, Juneau, Alaska 99811, on behalf of the Alaska State Legislature, hereinafter referred to as the "Agency," and ARLON R. TUSSING & ASSOCIATES, INC., 880 H Street, Suite 208, Anchorage, Alaska 99501.

IT IS MUTUALLY AGREED THAT:

SECTION I. STATEMENT OF WORK

A. Contractor will submit a report to Representatives Brian Rogers and Hugh Malone on the technical, economic, financial, legal, and policy issues that Alaskans should consider in connection with the Susitna hydroelectric project or alternative measures for meeting the anticipated demand for electric power. The report will:

1. Survey and relate the policy issues that concern Alaskans with regard to the Susitna project or possible alternatives. The issues to be considered include but need not be limited to:

a. The availability, reliability, and cost of electricity to meet projected residential, commercial, and industrial demand;

b. Opportunities to substitute electricity in residential, commercial, and industrial energy applications that would otherwise require more costly, less reliable, or environmentally inferior fossil fuels;

c. Opportunities to use the availability of electrical power to attract new industry to Alaska; and

d. The cost and risks to the state treasury, demands on the administrative capabilities of state government, the effectiveness and economic impact of various forms of state support for construction and operation of electrical generating facilities (or for alternative measures such as conservation).

2. Identify the different technologies available to meet the expected growth of demand for electricity in the market area that would be served by the proposed Susitna hydroelectric project. The technologies and measures considered will include but need not be limited to:

- a. Major hydro plants;
- b. Small hydro plants;
- c. Nuclear, coal, oil, gas, and biomass-fired steam generation plants;
- d. Oil, gas, and biomass-fired combustion turbines (including combined-cycle plants);
- e. Unconventional electrical generation technologies, including solar, geothermal, tidal, and wind power;
- f. Conservation by load management;
- g. Conservation by rate design; and
- h. Conservation by other means, including regulation and growth management.

3. Describe and relate the factors and principles that govern the planning of electrical generation and distribution systems, including the choice of generation technologies, and relate them to the market area that would be served by the proposed Susitna hydroelectric project. Factors to be considered include but need not be limited to:

- a. Expected growth of demand, and the degree of uncertainty in projections of demand growth;

- b. Current and expected load profiles (peaking, etc.);
- c. Scale and nature of existing plant;
- d. Scale, capital costs, and fuel requirements for different generating technologies;
- e. Expected availability and prices for different fuels;
- f. Likelihood of adverse engineering or environmental surprises, licensing and permitting difficulties, litigation, and other causes of delay, cost overruns, or non-completion, for different generating technologies; and
- g. Operational reliability of different generating technologies.

4. Describe and relate the factors and principles governing the organization and financing of electrical generating and distribution systems, with particular reference to options for the Alaska Power Authority and the utilities currently serving the areas that would be served by the Susitna project. Factors to be considered include but need not be limited to:

- a. Characteristics, advantages and disadvantages of various forms of business organization (investor-owned utilities, cooperatives, government agencies, government-owned corporations, etc.);
- b. Characteristics, advantages and disadvantages of various financing arrangements (conventional balance sheet financing, project financing, leveraged leasing, joint ventures, etc.);
- c. Capital structure (proportions of various forms of debt and equity), and the cost of capital;
- d. Tax liabilities, if any;
- e. Accounting practices (treatment of depreciation, taxes, and earnings, etc.);

- f. Implications for rates and rate structures;
- g. Costs and risks to the state treasury; demands on the policy-making and administrative capabilities of state government, the Alaska Power Authority, or existing utilities; the effectiveness and economic implications of various forms of state assistance to construction or operation of electrical generation facilities;
- h. Relevance to current deliberations over institutions for the distribution or management of surplus state revenues (Alaska, Inc., AGSOC, the Permanent Fund, etc.); and
- i. Relation to energy credit proposals and other proposals for energy subsidies.

The report will not necessarily involve any original technical research or quantitative engineering or cost analyses, and the topics listed need not be presented in the order set out above. The report is to be as brief as is compatible with its scope, and written in plain English with a minimum of technical jargon.

B. Contractor shall be available during the term of the contract for:

1. General consulting services to Representatives Rogers and Malone concerning electrical facilities planning and related topics; and
2. Appearances at the request of Representatives Rogers and Malone before appropriate bodies of the Legislature concerning the report and related topics.

In the event that the Agency awards a contract to Gregg K. Erickson during the term of this contract, regarding a natural gas-based electric economy in South-central Alaska (or some related topic), Contractor shall consult with Erickson, coordinate research and writing with him, and so far as practical, endeavor to make the reports submitted by Contractor and Erickson consistent in assumptions and complementary in scope.

## SECTION II. PERIOD AND DATES OF PERFORMANCE

A. This contract shall have retroactive effect as of 15 October, 1979, and work under this contract shall be accomplished between that date and 30 June, 1980.

B. This contract terminates on 30 June, 1980, unless terminated earlier in accordance with subsection (C) of this section.

C. This contract may be terminated on written notice of the terminating party to the terminated party at the address stated in this agreement.

D. Contractor shall submit a review draft of the report described in section I(A) to the Project Director not later than 31 December, 1979, and a final photoready version not later than February 15, 1980.

## SECTION III. PROJECT DIRECTOR

A. The Project Director shall be Representative Brian Rogers, Box K, College, Alaska 99708.

## SECTION IV. COMPENSATION AND METHOD OF PAYMENT

A. The Contractor shall be compensated at a rate of \$85.00 per hour, but not more than \$680.00 shall be payable for any 24 hour period, regardless of the number of hours worked under this contract during that period.

B. The Contractor shall submit time statements with each billing on which there shall be certified the time worked under this contract, the subject of the work, and the starting and ending time of the work to the nearest one-tenth of an hour. The Contractor shall certify that the time billed under this contract has not been billed to or paid for by any other party.

C. The Contractor is authorized to commence billing for services under this contract at the time he submits the review draft pursuant to Section II(D), and thereafter at monthly intervals.

D. The costs of necessary and appropriate travel shall be reimbursable to the Contractor on the basis of state per diem rates and coach class air fare.

E. Total compensation for work performed under Section I of this contract, inclusive of travel costs, shall not exceed \$12,500.00.

SECTION V. OFFICE SPACE, EQUIPMENT, CLERICAL SUPPORT

A. Office space, equipment and clerical support necessary to carry out the Contractor's obligations under this contract shall be supplied by the Contractor at no cost to the Agency.

SECTION VI. RECORDS, DOCUMENTS, AUDIT

A. The Contractor shall maintain accurate records as may be required by the Project Director. The records are subject to inspection by the Agency or the Project Director at all reasonable times. All documents, reports and writings generated as a consequence of work done under this contract shall become the property of the State of Alaska, and on completion of the work or at the termination of this contract shall be delivered to the Agency. The Contractor shall keep the Project Director informed as to the progress of the work performed under this agreement and shall provide progress reports as specified by the Project Director.

SECTION VII. CONFLICT OF INTEREST

A. The Contractor affirms that he is not now engaged in any professional business relationship that could reasonably be construed to constitute a conflict of interest relative to this obligation under this contract, and that he will notify the Project Director before undertaking any such professional business relationship.

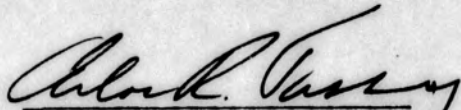
SECTION VIII. ALL WRITINGS CONTAINED HEREIN

A. This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties of this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement.

CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY

  
Arlon R. Tussing  
Date: 23 Oct, 1979

  
Representative Brian Rogers  
Project Director  
Date: 4/1/79

\_\_\_\_\_  
Myrt Charney  
Executive Director  
Date: \_\_\_\_\_

LEGISLATIVE AFFAIRS AGENCY

MEMORANDUM

February 11, 1980

FEB 13 RECD

To: Representative Brian Rogers

From: Lynn Ager

*Mark*

Enclosed is a copy for your records of the executed contract with ENERGY PROBE. Please let us know if we can be of further assistance.

CONTRACT BETWEEN

STATE OF ALASKA  
LEGISLATIVE AFFAIRS AGENCY  
Pouch Y, State Capitol  
Juneau, Alaska 99811

and

ENERGY PROBE  
43 Queens Park Cres. E.  
Toronto, Ontario M5S 2C3

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, on behalf of the Alaska State Legislature's House Power Alternatives Study Committee, hereinafter referred to as the AGENCY, and ENERGY PROBE, hereinafter referred to as the CONTRACTOR.

THE ABOVE PARTIES TO THIS CONTRACT, in consideration of the covenants hereinafter contained, hereby mutually agree to the terms and conditions hereinafter set forth:

CLAUSE I - STATEMENT OF WORK

- (A) Scope of Work  
Set out in Attachment A
- (B) Schedule
  - 1. Task 1(A) of Attachment A shall be completed by December 10, 1979.
  - 2. Task 1(B) of Attachment A shall be completed by January 7, 1980.
  - 3. Task 1(C) of Attachment A shall be completed by April 1, 1980.
  - 4. Task 1(D) of Attachment A shall be completed by May 1, 1980.

CLAUSE II - PERIOD OF PERFORMANCE

The period of Performance shall be retroactive to November 1, 1979, and terminate on July 1, 1980.

CLAUSE III - TERMINATION

This contract may be terminated by either party upon 30 days notice to the other party.

CLAUSE IV - PROJECT DIRECTOR

The Project Director shall be the Honorable Brian Rogers, Co-Chairman of the House Power Alternatives Study Committee.

CLAUSE V - COMPENSATION AND METHOD OF PAYMENT

- (A) Payment for Task 1(A) and 1(B) of Attachment A shall not exceed U.S.\$4,000.00 and shall be payable immediately upon billing by the CONTRACTOR.
- (B) Payment for Task 1(C) of Attachment A shall not exceed U.S.\$4,000.00 and shall be payable immediately upon billing by the CONTRACTOR.
- (C) Payment for Task 1(D) of Attachment A shall not exceed U.S.\$2,000.00 and shall be payable immediately upon billing by the CONTRACTOR.
- (D) Total compensation shall not exceed U.S.\$10,000.00.
- (E) The CONTRACTOR shall receive no payment in addition to that specified in Clause V(D) for travel and related expenses unless the Project Director requests that the CONTRACTOR travel between the CONTRACTOR'S place of business and Juneau.

CLAUSE VI - RECORDS, DOCUMENTS, AUDITS

The CONTRACTOR shall maintain accurate records, including detailed time records, as may be required by the AGENCY. The records are subject to inspection by the Project Director of the AGENCY at all reasonable times. All documents, reports and writings produced in the course of the work performed under this contract are, upon delivery to the Project Director or the AGENCY or at termination of this agreement, the property of the AGENCY, and/or in the public domain; provided that the CONTRACTOR will have the right to use any such materials for purposes of writing about or discussing the issues.

CLAUSE VII - ALL WRITING CONTAINED HEREIN

This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties to this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated.

CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY

Chris Conway Jan 25/80 Myrton R. Charney 7/1/80  
Chris Conway Date Myrton R. Charney Date  
Energy Probe Executive Director

Accepted:

Approved as to Form:

Brian Rogers 12/31/79 Billy G. Evans 7/11, 1980  
Rep. Brian Rogers Date Agency Legal Counsel Date  
Co-Chairman, House Power  
Alternatives Study Committee

## ATTACHMENT A

### 1. Scope of Work

A. Examine current state and structure of the ISER electricity demand forecast. Collect data and information in order to perform a more detailed investigation of the forecast in conjunction with ISER forecasting personnel.

B. Prepare report to ISER forecasting staff which states an evaluation of the current model, identifying areas in which it should be revised and improved. Outline any additional data requirement necessary for an in-depth analysis of the forecast.

C. Maintain an ongoing analysis and development of alternative coefficient and independent variable values and an ongoing analysis of structural adequacy of model.

Continue involvement and discussions with ISER personnel resulting in development and evaluation of alternative model structure and components.

Perform a sensitivity analysis on electricity demand as it relates to different market share and efficiency assumptions.

D. Examine normative context within which the ISER forecast will be introduced, with specific reference to the effects of proposed or potential policies on electricity growth and the impact of these policies on preferred model structure and interpretation.

Submit final report outlining: the revisions (if any) that were made to the ISER forecast during the course of Energy Probe's involvement and the rationale for these revisions, changes that were recommended by Energy Probe but which were not incorporated into the model and the effects (if any) of these, the appropriate role and interpretations of the model results given these revisions.

### 2. Other Considerations

A. CONTRACTOR may provide additional services upon the request of the Project Director.

B. Scope of Work will include travel for 4 round-trips between Toronto and Alaska.

CONTRACT

STATE OF ALASKA  
LEGISLATIVE AFFAIRS AGENCY  
Pouch Y, State Capitol  
Juneau, Alaska 99811

and

Sim Van der Ryn  
P. O. Box 605  
Inverness, California 94937

The parties of this agreement are the LEGISLATIVE AFFAIRS AGENCY, on behalf of the Alaska State Legislature's House Power Alternatives Study Committee, hereinafter referred to as the AGENCY, and SIM VAN DER RYN, hereinafter referred to as the CONTRACTOR.

THE ABOVE PARTIES TO THIS CONTRACT, in consideration of the covenants hereinafter contained, hereby mutually agree to the terms and conditions hereinafter set forth:

CLAUSE I - STATEMENT OF WORK

- (A) The Contractor shall provide the committee with professional consulting services with regard to issues relating to energy conservation.

CLAUSE II - PERIOD OF PERFORMANCE

The Period of Performance shall be November 8, 1979 through November 11, 1979.

CLAUSE III - TERMINATION

This contract may be terminated by either party on written notice to the other.

CLAUSE IV - PROJECT DIRECTOR

The Project Director shall be the Honorable Brian Rogers, Co-Chairman of the House Power Alternatives Study Committee.

CLAUSE V - COMPENSATION AND METHOD OF PAYMENT

- (A) Total compensation under this contract, inclusive of all expenses, shall not exceed \$2,000.

- (B) The CONTRACTOR shall be compensated at the rate of \$500 per day for two days, November 9 and 10, 1979, for his services.
- (C) The CONTRACTOR shall be reimbursed for all expenses incurred which are authorized in advance by the Project Director. The CONTRACTOR shall be reimbursed on the basis of coach class airfare and prevailing state employee per diem rates for all travel expenses authorized in advance by the Project Director. Travel expense claims shall be submitted on forms provided by the Agency.

CLAUSE VI - RECORDS, DOCUMENTS, AUDIT

The CONTRACTOR shall maintain accurate records, including detailed time records, as may be required by the AGENCY. The records are subject to inspection by the Project Director of the AGENCY at all reasonable times. All documents, reports and writings produced in the course of the work performed under this contract are, upon delivery to the Project Director or the AGENCY or at termination of this agreement, the property of the AGENCY, and/or in the public domain; provided that the CONTRACTOR will have the right to use any such materials for purposes of writing about or discussing the issues.

CLAUSE VII - ALL WRITINGS CONTAINED HEREIN

This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties to this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated.

CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY

\_\_\_\_\_  
 Sim Van der Ryn Date

\_\_\_\_\_  
 Myrton R. Charney Date  
 Executive Director

Accepted:

Approved as to Form:

\_\_\_\_\_  
 Rep. Brian Rogers Date  
 Co-Chairman, House Power  
 Alternatives Study Committee

\_\_\_\_\_  
 Agency Legal Counsel Date

CONTRACT BETWEEN

STATE OF ALASKA  
LEGISLATIVE AFFAIRS AGENCY  
Pouch Y, State Capitol  
Juneau, Alaska 99811

and

BRADFORD H. TUCK  
1822 CINDYLEE LANE  
ANCHORAGE, ALASKA 99507

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, on behalf of the Alaska State Legislature's House Power Alternatives Study Committee, hereinafter referred to as the AGENCY, and Bradford H. Tuck, hereinafter referred to as the CONTRACTOR.

THE ABOVE PARTIES TO THIS CONTRACT, in consideration of the covenants hereinafter contained, hereby mutually agree to the terms and conditions hereinafter set forth:

CLAUSE I - SCOPE OF WORK

- (A) General Tasks - The Contractor shall accomplish the following:
1. Review of forecasts of future electric power demand in areas potentially served by the Susitna Hydroelectric Project. Specific forecasts to be reviewed: work done by the Alaska Power Authority, forecasts contained in the Interim Feasibility Report for the Susitna Project, forecasts by ISER, and other forecasts that may be relevant. Particular emphasis will be given to ISER forecasts that will be under development concurrently with this study. Special attention will be given to the properties of the MAP model and to the data scenarios used to generate the forecasts.
  2. Review criteria will include type of forecast and methodology used, quality and reliability of input data, critical assumptions, and level of detail in components of demand, and consideration of price elasticity and conservation.
  3. Synopsis of findings and usefulness of findings for a decision concerning the Susitna Hydroelectric Project.

(B) Schedule

1. Interim report due January 21, 1979
2. Final report to be completed by March 1, 1980.

CLAUSE II - PERIOD OF PERFORMANCE

The Period of Performance shall be November 1, 1979 through June 30, 1980.

CLAUSE III - TERMINATION

This contract may be terminated by either party on written notice to the other.

CLAUSE IV - PROJECT DIRECTOR

The Project Director shall be the Honorable Brian Rogers, Co-Chairman of the House Power Alternatives Study Committee.

CLAUSE V - COMPENSATION AND METHOD OF PAYMENT

- (A) The CONTRACTOR shall be compensated \$5,500 for the work specified in Clause I of this agreement.
- (B) Payment shall be payable upon completion of work specified in Clause I of this agreement.
- (C) The CONTRACTOR shall be reimbursed on the basis of coach class airfare and prevailing state employee per diem rates for all travel expenses authorized in advance by the Project Director. Travel expense claims shall be submitted on forms provided by the AGENCY.
- (D) Total compensation under this contract, inclusive of all expenses, shall not exceed \$6,000.

CLAUSE VI - RECORDS, DOCUMENTS, AUDIT

The CONTRACTOR shall maintain accurate records, including detailed time records, as may be required by the AGENCY. The records are subject to inspection by the Project Director of the AGENCY at all reasonable times. All documents, reports and writings produced in the course of the work performed under this contract are, upon delivery to the Project Director or the AGENCY or at termination of this agreement, the property of the AGENCY, and/or in the public domain; provided that the CONTRACTOR will have the right to use any such materials for purposes of writing about or discussing the issues.

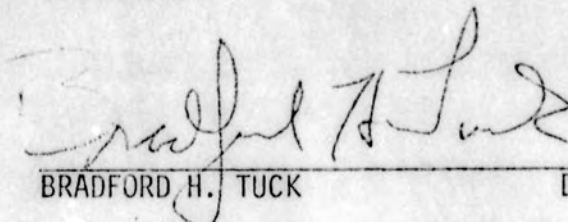
CLAUSE VII - ALL WRITINGS CONTAINED HEREIN

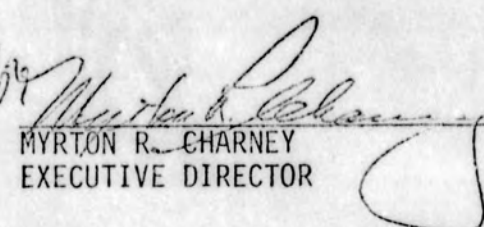
This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties to this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated.

CONTRACTOR


LEGISLATIVE AFFAIRS AGENCY


 11/9/79  
BRADFORD H. TUCK Date

 11/14/79  
MYRTON R. CHARNEY Date  
EXECUTIVE DIRECTOR

Accepted:

Approved as to Form:

 11/17  
REP. BRIAN ROGERS DATE  
CO-CHAIRMAN, HOUSE POWER  
ALTERNATIVES STUDY COMMITTEE

 11/14/79  
AGENCY LEGAL COUNSEL DATE

STATE OF ALASKA  
THE LEGISLATURE

LEGISLATIVE AFFAIRS AGENCY

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

INTER-AGENCY ROUTING SLIP

TO

Rep. Rogers

REMARKS:

*For your information  
a Feb.*

FROM

John Landy

DATE

12-28-79

# STATE OF ALASKA THE LEGISLATURE

POUCH Y - STATE CAPITOL  
JUNEAU, ALASKA 99811  
907-465-3800

## LEGISLATIVE AFFAIRS AGENCY

CONTRACT BETWEEN

STATE OF ALASKA - LEGISLATIVE AFFAIRS AGENCY  
Pouch Y - State Capitol  
Juneau, Alaska 99811

AND

ARLON R. TUSSING & ASSOCIATES, INC.  
880 H Street, Suite 208  
Anchorage, Alaska 99501

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, on behalf of the House Power Alternatives Project, hereinafter referred to as the "AGENCY," and ARLON R. TUSSING & ASSOCIATES, hereinafter referred to as the "CONSULTANT."

THE PURPOSE OF THIS AGREEMENT is to provide the Legislature with consulting services related to the electric utility industry currently serving the Railbelt area of Alaska, the state and federal governmental agencies that promote, plan and regulate the generation and distribution of electricity in Alaska, the history and status of the proposed Susitna hydroelectric project, and related topics.

IT IS THEREFORE MUTUALLY AGREED THAT:

### CLAUSE I - STATEMENT OF WORK

The Consultant will prepare a report intended as a background document for legislative staff, consultants and contractors in a brief, concise, and nontechnical format; the report is not intended for public distribution in the form produced pursuant to this contract. The report shall contain the following:

- (A) Description of the major electric utilities of the Railbelt area of Alaska with regard to type of organization/ownership; size, character and growth of market; generating facilities in existence, under construction or planned; interties; identity of decision-makers on rate policy and new construction; utility policies and management philosophy.
- (B) Description of the main characteristics of different types of utility organization and ownership with respect to administration and management; regulation; access to capital and other pertinent distinctions.
- (C) Description of the regulatory framework for the electric utility industry in Alaska with respect to the Federal Energy Regulatory Commission, the Alaska Public Utilities Commission, the Economic Regulatory Administration and other significant agencies.

Questions to be addressed in this section for each agency are the following:

1. What is its legal jurisdiction, and what is the main statutory derivation of that authority?
  2. What is its decision-making process?
  3. What important state, federal, and local certificates, licenses, permits and other documents would be required for construction in Alaska of new electrical generating facilities?
  4. What are the history, governing legislation, current status, plans and proposals of the Alaska Power Authority?
- (D) History of the Susitna River hydroelectric project with regard to studies conducted, promotion activities, legislation, and past and pending proposals for the project; description of significant legislation related to the hydroelectric project and legislation pertaining to alternatives to the project currently pending before the U.S. Congress or the Alaska legislature.

CLAUSE II - PERIOD AND DATES OF PERFORMANCE

- (A) This contract shall have a retroactive starting date of November 15, 1979 and shall expire on December 31, 1979 at which time the final report described in Clause I of this contract is due.
- (B) This agreement may be terminated by either party upon written notice to the other.

CLAUSE III - PROJECT DIRECTOR

The Project Director shall be Representative Brian Rogers, Box K, College, Alaska 99708.

CLAUSE IV - COMPENSATION AND METHOD OF PAYMENT

- (A) The Consultant shall be compensated at the following rates for work performed by professional personnel, provided, however, that not more than 8 hours shall be charged for any one person in any 24 hour period:

Arlon Tussing	\$85.00
Lois S. Kramer	\$50.00
Barbara F. Morse	\$30.00

- (B) The Consultant shall submit time statements with billing on which there shall be certified the time worked under this contract, the subject of the work, and the starting and ending time of the work to the nearest one-tenth of an hour. The Contractor shall certify that the time billed under this contract has not been billed to or paid for by any other party. The Consultant may present the billing for work under this contract at the time he submits the final report.

- (C) The Consultant shall be reimbursed for travel and other expenses authorized in advance by the Project Director, except that per diem shall be paid at prevailing State rates and all air travel shall be reimbursed on the basis of coach class fares.
- (D) Total payments under this contract, including expenses, shall not exceed \$5,000.00 (Five Thousand Dollars).

CLAUSE V - OFFICE SPACE, EQUIPMENT, CLERICAL SUPPORT

Office space, equipment and clerical support necessary to carry out the Consultant's obligations under this contract shall be supplied by the Consultant at no cost to the Agency.

CLAUSE VI - RECORDS, DOCUMENTS, AUDIT

The Consultant shall maintain accurate records as may be required by the Project Director. The records are subject to inspection by the Agency or the Project Director at all reasonable times. All documents, reports and writings generated as a consequence of work done under this contract shall become the property of the State of Alaska and, on completion of the work or at the termination of this agreement, shall be delivered to the Agency. The Consultant shall keep the Project Director informed as to the progress of the work performed under this agreement and shall provide progress reports as specified by the Project Director.

CLAUSE VII - CONFLICT OF INTEREST

The Consultant affirms that he is not now engaged in any professional business relationship that could reasonably be construed to constitute a conflict of interest relative to this obligation under this contract and that he will notify the Project Director before undertaking any such professional business relationship.

CLAUSE VIII - ALL WRITINGS CONTAINED HEREIN

This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties of this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated.

CONSULTANT:

Arlon R. Tussing 12/20  
ARLON R. TUSSING Date  
Business License No. 46323

LEGISLATIVE AFFAIRS AGENCY

M. R. Charney 12/25/79  
M. R. CHARNEY Date  
Executive Director

Accepted:

Brian Rogers 12/18/79  
Rep. Brian Rogers Date  
Project Director

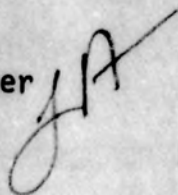
Approved as to form:

Billy G. Berrier 12/14/79  
Billy G. Berrier Date  
Agency Legal Counsel

To Representative Rogers:

Enclosed for your records is a copy of the amendment to the contract between House Power Alternatives and Arlon Tussing.

Lynn Ager

A handwritten signature in black ink, appearing to be 'LA', written over the printed name 'Lynn Ager'.

AMENDMENT NO.1  
TO THE CONTRACT BETWEEN  
STATE OF ALASKA  
LEGISLATIVE AFFAIRS AGENCY  
AND  
ARLON R. TUSSING AND ASSOCIATES, INC.

IT IS MUTUALLY AGREED THAT THE CONTRACT EFFECTIVE NOVEMBER 15,  
1979 BETWEEN THE ABOVE PARTIES IS HEREBY AMENDED AS FOLLOWS:


SECTION II. PERIODS AND DATES OF PERFORMANCE is  
amended to add:

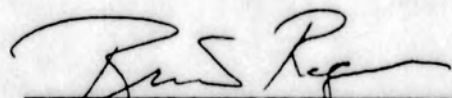
(E) Lois S. Kramer's professional services  
will neither be in effect nor billable prior to  
December 4, 1979.

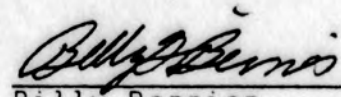
IN WITNESS WHEREOF, the parties have executed this amendment  
to this agreement on the date indicated below.

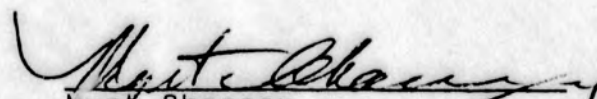
CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY

  
Arlon R. Tussing  
Date: 27 November 1979

  
Representative Brian Rogers  
Project Director  
Date: 12/1/79

  
Billy Berrier  
Legal Counsel  
Date: 12/6/79

  
Myrle Charney  
Executive Director  
Date: 12/17/78

CONTRACT BETWEEN

STATE OF ALASKA - LEGISLATIVE AFFAIRS AGENCY  
Pouch Y - State Capitol  
Juneau, Alaska 99811

AND

MARK WITTOW  
302 W. 3rd Street  
Juneau, Alaska 99801

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, on behalf of the House Power Alternatives Study Committee, hereinafter referred to as the "AGENCY," and MARK WITTOW, hereinafter referred to as the CONTRACTOR.

THE PURPOSE OF THIS AGREEMENT is to provide assistance and consulting services to the Committee.

IT IS THEREFORE MUTUALLY AGREED THAT:

CLAUSE I - STATEMENT OF WORK

- (A) The Contractor shall coordinate the work of the various contractors to the Committee.
- (B) The Contractor shall assist the committee in preparing its report to the Legislature, as described in Section 3, Chapter 76 of the 1979 Session Laws of Alaska.
- (C) The Contractor shall provide general assistance to the committee as directed by the project director.

CLAUSE II - PERIOD OF PERFORMANCE

- (A) The work under this contract shall be performed between January 3, 1980 and May 31, 1980, unless extended or terminated in accordance with (B) below.
- (B) This contract may be terminated by either party upon 15 days' written notice to the other.

CLAUSE III - PROJECT DIRECTOR

The Project Directors shall be the Honorable Hugh Malone and the Honorable Brian Rogers, Co-Chairmen of the House Power Alternatives Study Committee.

**CLAUSE IV - COMPENSATION AND METHOD OF PAYMENT**

- (A) Payment for the work performed under this agreement shall be at the rate of \$2100 (Twenty-one Hundred Dollars) per month, to be paid before the last working day of each month for work carried out between the 15th day of the preceding month and the 15th day of the current month. Time sheets shall be approved monthly by the Project Director. Total compensation for work performed under Clause I of this agreement shall not exceed \$10,500 (Ten Thousand Five Hundred Dollars). The Agency shall deduct from each monthly payment income tax and other deductions required by law.
- (B) The Contractor shall be reimbursed on the basis of coach class fares and prevailing state employee per diem rates for all travel expenses authorized by either of the Project Directors. Total compensation authorized for travel expenses is \$2000 (TWO THOUSAND DOLLARS).
- (C) Total payments under this contract, including expenses, shall not exceed \$12,500 (Twelve Thousand Five Hundred Dollars).

**CLAUSE V - OFFICE SPACE, EQUIPMENT, CLERICAL SUPPORT**

Office space, equipment and clerical support of the Contractor that will be necessary to carry out his obligations under this contract shall be supplied by the Agency at no cost to the Contractor.

**CLAUSE VI - RECORDS, DOCUMENTS, AUDIT**

The Consultant shall maintain accurate records, including detailed time records, as may be required by the Project Director. The records are subject to inspection by the Agency or the Project Director at all reasonable times. All documents, reports and writings generated as a consequence of work done under this contract shall become the property of the State of Alaska and, on completion of the work or at the termination of this contract, shall be delivered to the Project Director.

**CLAUSE VII - REPORTS**

The Contractor shall keep the Project Director informed as to the progress of the work performed under this agreement and shall provide progress reports as specified by the Project Director.

**CLAUSE VIII - ALL WRITINGS CONTAINED HEREIN**

This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties of this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated.

**CONTRACTOR**

Mark Wittow 1-17-80  
MARK WITTOW Date  
Alaska Business License No. 98004

**LEGISLATIVE AFFAIRS AGENCY**

M. B. Charney 1/18/80  
M. B. CHARNEY Date  
Executive Director

Accepted:

Brian Rogers 1-17-80  
Representative Brian Rogers Date  
Co-Chairman, House Power Alternatives  
Study Committee

Approved as to form:

Billy G. Berrier Jan. 16, 1980  
Billy G. Berrier Date  
Agency Legal Counsel

Hugh Malone 1/17/80  
Representative Hugh Malone, Date  
Co-Chairman, House Power Alternatives  
Study Committee

ARLON R. TUSSING & ASSOCIATES / 880 H St., Suite No. 210, Anchorage, Alaska 99501

4 January, 1980

rec'd  
1/9  
MW

Representative Brian Rogers  
Box K  
College, Alaska 99708

Dear Brian:


Here is a copy of our first report, ". . . on the electric utility industry currently serving the Railbelt area of Alaska; the state and federal government agencies that promote, plan, and regulate the generation and distribution of electricity in Alaska; the history and status of the proposed Susitna hydroelectric project; and related topics."

As we stated in our proposal, and as the contract provided, the paper is "a background document for legislative staff, [etc.] . . . and is not intended for public distribution in its present form." I believe, however, that it meets the specification in the proposal and contract that it be "brief, concise, and easily understood by non-specialists."

I plan to include the same material in perfected and annotated form in the main report, so whatever is of value here will not be lost to the larger audience.

The research and writing for this paper overlapped that required for our other report so much that it is meaningless to try to segregate them strictly. For this reason, I shall shortly send you a statement covering the first \$5,000 in effort on the two projects together, in the form of a statement reflecting effort on this project alone.

Very truly yours,



Arlon R. Tussing

enclosure

cc: Hugh Malone  
Lois Kramer

AMENDMENT NO. 1  
CONTRACT BETWEEN  
STATE OF ALASKA - LEGISLATIVE AFFAIRS AGENCY  
AND

MARK WITTOU  
302 West 3rd Street  
Juneau, Alaska 99801

IT IS MUTUALLY AGREED THAT THE CONTRACT BETWEEN THE ABOVE PARTIES DATED JANUARY 18, 1980, IS HEREBY AMENDED AS FOLLOWS:

CLAUSE IV, Paragraph (A), page 2, is amended to read:

- (A) Payment for the work performed under this agreement shall be at the rate of \$2550 (Two Thousand Five Hundred Fifty Dollars) per month, to be paid before the last working day of each month for work carried out between the 15th day of the preceding month and the 15th day of the current month. Time sheets shall be approved monthly by the Project Director. Total compensation for work performed under Clause I of this agreement shall not exceed \$12,750 (Twelve Thousand Seven Hundred Fifty Dollars). The Agency shall deduct from each monthly payment income tax and other deductions required by law.

IN WITNESS WHEREOF, the parties have executed this amendment to this agreement on the dates indicated below.

CONSULTANT

LEGISLATIVE AFFAIRS AGENCY

*Mark Wittou* 2/12/80  
MARK WITTOU Date  
Ak. Bus. Lic. 98004

*M.R. Charney* 2/18/80  
M.R. CHARNEY Date

Accepted:

Approved as to form:

*Brian Rogers* 2/12/80  
Rep. Brian Rogers Date  
Co-Chairman, House Power  
Alternatives Study Committee

*Billy G. Berrier* Feb 11, 1980  
Billy G. Berrier Date  
Agency Legal Counsel

*Hugh Malone* 2/14/80  
Rep. Hugh Malone Date  
Co-Chairman, House Power  
Alternatives Study Committee

AMENDMENT NO. 1  
CONTRACT BETWEEN

STATE OF ALASKA - LEGISLATIVE AFFAIRS AGENCY

AND

ARLON R. TUSSING & ASSOCIATES, INC.

IT IS MUTUALLY AGREED THAT THE CONTRACT BETWEEN THE ABOVE PARTIES DATED NOVEMBER 6, 1979, IS HEREBY AMENDED AS FOLLOWS:

SECTION I, Paragraph (A), page 4, is amended by adding the following subparagraph:

5. Examine and evaluate how effectively the plan of study prepared by Acres American Incorporated for the proposed Susitna Hydroelectric Project addresses the issues below. In addition, the Consultant will address and analyze these issues as they specifically relate to decisions concerning electric power generation in the Railbelt during the next twenty years.
  - a. Possibilities for conservation through load management (due to increased load factors) and for involvement of regulatory agencies and existing utilities;
  - b. Determination of plant mix and necessary reserve margins;
  - c. Anticipated retirement of existing capacity and its effects on system capacity and facility planning;
  - d. Need for generation and transmission system reliability, establishing appropriate and compatible standards;
  - e. Effect of interest and discount rates on project costs;
  - f. Likelihood and effect of cost overruns;
  - g. Significance of other northern hydroelectric power projects.

SECTION II, Paragraph (D), page 5, is amended to read:

- D. The Contractor shall submit a review draft of the report described in Clause I to the Project Director not later than 15 April, 1980, and a final photo ready version not later than three weeks after receiving comments from the Project Director.

SECTION III, Paragraph (A), page 5, is amended to read:

The Project Directors shall be Representatives Brian Rogers and Hugh Malone.

SECTION IV, Paragraph (A), page 5, is amended to read:

- A. The Contractor shall be compensated at the following rates for professional services of principal and associate; provided that not more than eight hours shall be chargeable for any one person in any 24 hour period:

Arlon R. Tussing	\$85.00 per hour
Lois S. Kramer	\$50.00 per hour.


SECTION IV, Paragraph (E), page 6, is amended to read:

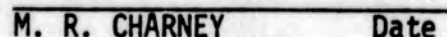
Total compensation for work performed under this agreement, inclusive of all expenses, shall not exceed \$20,000 (Twenty Thousand Dollars).

IN WITNESS WHEREOF, the parties have executed this amendment to this agreement on the dates indicated below.

CONSULTANT

LEGISLATIVE AFFAIRS AGENCY

  
ARLON R. TUSSING Date  
IRS No. 91-1078282

  
M. R. CHARNEY Date  
Executive Director

Accepted:

Approved as to form:

  
Rep. Brian Rogers Date 3/7/80

  
Billy G. Berrier Date March 6, 1980  
Agency Legal Counsel

  
Rep. Hugh Malone Date 3/7/80

March 18, 1980

To: Representative Malone

From: Lynn Ager

Enclosed for your records is a copy of the signed amendment to Arlon Tussing's contract with the Power Alternatives Study Committee. Please let us know if we can be of further assistance.

AMENDMENT NO. 1  
CONTRACT BETWEEN

STATE OF ALASKA - LEGISLATIVE AFFAIRS AGENCY

AND

ARLON R. TUSSING & ASSOCIATES, INC.

IT IS MUTUALLY AGREED THAT THE CONTRACT BETWEEN THE ABOVE PARTIES DATED NOVEMBER 6, 1979, IS HEREBY AMENDED AS FOLLOWS:

SECTION I, Paragraph (A), page 4, is amended by adding the following subparagraph:

5. Examine and evaluate how effectively the plan of study prepared by Acres American Incorporated for the proposed Susitna Hydroelectric Project addresses the issues below. In addition, the Consultant will address and analyze these issues as they specifically relate to decisions concerning electric power generation in the Railbelt during the next twenty years.
  - a. Possibilities for conservation through load management (due to increased load factors) and for involvement of regulatory agencies and existing utilities;
  - b. Determination of plant mix and necessary reserve margins;
  - c. Anticipated retirement of existing capacity and its effects on system capacity and facility planning;
  - d. Need for generation and transmission system reliability, establishing appropriate and compatible standards;
  - e. Effect of interest and discount rates on project costs;
  - f. Likelihood and effect of cost overruns;
  - g. Significance of other northern hydroelectric power projects.

SECTION II, Paragraph (D), page 5, is amended to read:

- D. The Contractor shall submit a review draft of the report described in Clause I to the Project Director not later than 15 April, 1980, and a final photo ready version not later than three weeks after receiving comments from the Project Director.

SECTION III, Paragraph (A), page 5, is amended to read:

The Project Directors shall be Representatives Brian Rogers and Hugh Malone.

SECTION IV, Paragraph (A), page 5, is amended to read:

- A. The Contractor shall be compensated at the following rates for professional services of principal and associate; provided that not more than eight hours shall be chargeable for any one person in any 24 hour period:

Arlon R. Tussing	\$85.00 per hour
Lois S. Kramer	\$50.00 per hour.

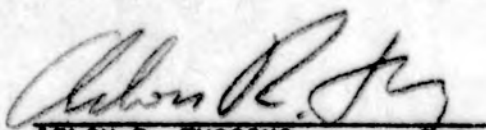
SECTION IV, Paragraph (E), page 6, is amended to read:

Total compensation for work performed under this agreement, inclusive of all expenses, shall not exceed \$20,000 (Twenty Thousand Dollars).

IN WITNESS WHEREOF, the parties have executed this amendment to this agreement on the dates indicated below.

CONSULTANT

LEGISLATIVE AFFAIRS AGENCY

  
ARLON R. TUSSING      Date  
IRS No. 91-1078282

 3/18/80  
M. R. CHARNEY      Date  
Executive Director

Accepted:

Approved as to form:

 3/7/80  
Rep. Brian Rogers      Date

 March 6, 1980  
Billy G. Berrier      Date  
Agency Legal Counsel

 3/7/80  
Rep. Hugh Malone      Date

April 7, 1980

To: Rep. Hugh Malone



From: Janelle Parker, Special Assistant to Myrt Charney

Enclosed for your records is a copy of the signed contract between Gregg Erickson and the House Power Alternatives Study Committee. Please let me know if I can be of further assistance.

**CONTRACT BETWEEN**

**STATE OF ALASKA - LEGISLATIVE AFFAIRS AGENCY  
Pouch Y - State Capitol  
Juneau, Alaska 99811**

**AND**

**GREGG ERICKSON  
316 Coleman Drive  
Juneau, Alaska 99801**

The parties to this agreement are the LEGISLATIVE AFFAIRS AGENCY, on behalf of the Legislative Council's House Power Alternatives Study Committee, hereinafter referred to as the "AGENCY", and GREGG ERICKSON, hereinafter referred to as the "Consultant".

THE PURPOSE OF THIS AGREEMENT is to provide the House Power Alternatives Study Committee with the consulting services of Gregg Erickson for a study of the feasibility of coal-fired power generation for the Railbelt area of Alaska.

IT IS THEREFORE MUTUALLY AGREED THAT:

**CLAUSE I. - STATEMENT OF WORK**

- (A) The Consultant shall prepare and deliver a written report on the economic, political and technical feasibility of coal-fired power generation for the Railbelt area of Alaska. The report shall specifically address the following points:
- (1) Previous work on potential of coal-fired generation for the Railbelt.
  - (2) Potential of existing Healy operation.
  - (3) Present institutional barriers to coal generation, and their possible resolution.
  - (4) Economic, social and environmental costs and benefits of coal generation in comparison with other forms of power production.

- (5) The potential for coal generation in the Railbelt during the next twenty-five years -- how much power could coal be expected to provide, with what attendant costs?
- (6) The feasibility of coal generation with and without related coal development possibilities.

CLAUSE II. - PERIOD AND DATES OF PERFORMANCE

- (A) Unless extended or terminated by mutual agreement, this contract is effective March 30, 1980 and expires May 10, 1980.
- (B) A written report is to be submitted by May 2, 1980, in print-ready form. If report is not submitted by May 9, 1980, 5 p.m. PST, no payment will be made. If report is submitted between May 2, 1980 and May 9, 1980, 10% of total contract fee shall be deducted for each day the report is late.
- (C) This contract may be terminated by either party upon written notice to the other.

CLAUSE III. - PROJECT DIRECTORS

The Project Directors shall be Representative Brian Rogers and Representative Hugh Malone, acting on behalf of the House Power Alternatives Study Committee.

CLAUSE IV. - COMPENSATION AND METHOD OF PAYMENT

- (A) For the work specified in this contract, the Consultant shall be compensated at the rate of \$7,000.00 (Seven Thousand Dollars).
- (B) Payment shall be made at the completion of the report.
- (C) Total payments under this contract, including expenses shall not exceed \$7,000.00.

CLAUSE V. - OFFICE SPACE, EQUIPMENT

Office space, equipment of the Contractor that will be necessary to carry out his obligations under this contract shall be supplied by the Contractor at no cost to the Agency.

CLAUSE VI. - RECORDS, DOCUMENTS, AUDIT

The Consultant shall maintain accurate records, including detailed time records, as may be required by the Project Directors. The records are subject to inspection by the Agency or the Project Directors at all reasonable times. All documents, reports and writings generated as a consequence of work done under this contract shall become the property of the State of Alaska and, on completion of the work or at the termination of this contract, shall be delivered to the Project Directors.

CLAUSE VII. - REPORTS

The Consultant shall keep the Project Directors informed as to the progress of the work performed under this agreement and shall provide progress reports as specified by the Project Director.

CLAUSE VIII. - CONFLICT OF INTEREST

The Contractor affirms that he does not now have any consulting or professional business relationships with anyone with whom it could be construed as having a conflict of interest.


CLAUSE IX. - ALL WRITINGS CONTAINED HEREIN

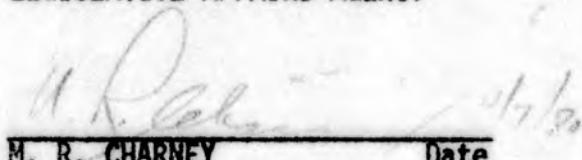
This agreement contains all the terms and conditions agreed upon by the parties. No other understanding, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties of this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated.

CONTRACTOR


LEGISLATIVE AFFAIRS AGENCY


  
\_\_\_\_\_  
GREGG K. ERICKSON Date  
(Ak. Business License 73957)

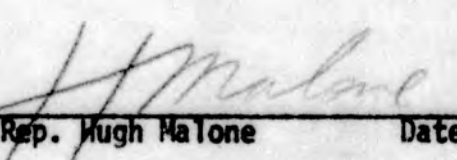
  
\_\_\_\_\_  
M. R. CHARNEY Date  
Executive Director

Accepted:

Approved as to form:

  
\_\_\_\_\_  
Rep. Brian Rogers Date

  
\_\_\_\_\_  
Billy G. Berrier Date  
Agency Legal Counsel

  
\_\_\_\_\_  
Rep. Hugh Malone Date

April 14, 1980

Gregg Erickson  
316 Coleman Drive  
Juneau, AK 99801

Dear Gregg,

To clarify your contract with the committee on the potential of coal-fired power generation in the Railbelt, I will ask that this letter be attached to your contract in the Legislative Affairs Agency files. The committee understands that:

1. Except for the consideration of institutional constraints, your paper will largely review and analyze existing studies on the potential for coal-fired generation in the Railbelt. We do not expect you to do more than this, given the funding and time constraints set out in your contract.
2. Fred Boness will be assisting you, and that you will be subcontracting with him for a portion of the study. Although Mr. Boness has clients who have a possible interest in the use of Alaska's coal reserves, these clients have no current interests in Alaska. The committee does not feel that Mr. Boness' involvements constitute a conflict of interest for his work with you.

Full responsibility for the meeting of the terms of the contract is retained by you. The two points above are for clarification only, and in no way constitute any attempt to alter your contract.

Sincerely,

Mark Wittow  
Study Coordinator  
for Representatives Malone and Rogers  
Co-Chairmen and Project Directors

MW/jk

# ALASKA POWER AUTHORITY

333 WEST 4th AVENUE - SUITE 31 - ANCHORAGE, ALASKA 99501

Phone: (907) 277-7641  
(907) 276-2715

October 17, 1979

The Honorable Brian Rogers  
Co-Chairman  
House Power Alternatives  
Committee  
Post Office Box K  
College Branch  
Fairbanks, Alaska 99708

Dear Representative Rogers:

I am writing to confirm an understanding reached between the Alaska Power Authority and your committee staff relating to the electrical load forecast study for the Railbelt area.

The Power Authority will utilize the results of the load forecast developed under contract by the Institute of Social and Economic Research to the extent that the forecast meets acceptable standards of professional quality and objectivity. Further, the Power Authority will pay up to \$30,000 for accomplishment of the work, if such funds are made available to the Power Authority for such purposes. Appropriated funds earmarked for Susitna feasibility studies will be available to the Power Authority upon release by Governor Hammond and thereafter can properly be applied to help defray the cost of the load forecast study.

Sincerely,



Eric P. Yould  
Executive Director

CONTRACT BETWEEN

STATE OF ALASKA  
LEGISLATIVE AFFAIRS AGENCY  
Pouch Y  
Juneau, Alaska 99811

AND

DYNAMIC RESEARCH CORPORATION  
SR Box 10612  
Fairbanks, Alaska 99701

The parties to this Agreement are the LEGISLATIVE AFFAIRS AGENCY, hereinafter referred to as the "Agency", and DYNAMIC RESEARCH CORPORATION, hereinafter referred to as the "Contractor."

THE PURPOSE OF THIS AGREEMENT is to provide the Interim Susitna Study Committee, through the Agency, professional services relating to issues studied by the committee.

IT IS THEREFORE MUTUALLY AGREED THAT:

CLAUSE I. STATEMENT OF WORK

- (A) The Contractor shall examine and evaluate the geotechnical portions of three (3) proposals for detailed feasibility studies for the Susitna Hydroelectric Project; prepare a written report consisting of an evaluation of each proposal, a comparative evaluation, and suggestions for questions during oral presentations on September 27 and 28, 1979; and other tasks as may be directed by the project director. The Contractor shall attend the oral presentations on September 27 and 28, 1979.

CLAUSE II. TERM OF CONTRACT

- (A) The period of this contract shall begin September 11, 1979 and terminate September 30, 1979, unless extended, or terminated in accordance with (B) of this Clause.
- (B) This contract may be terminated by either party on written notice to the other.

CLAUSE III. PROJECT DIRECTOR

The project director shall be Representative Brian Rogers, co-chairman of the Interim Susitna Study Committee.

CLAUSE IV. COMPENSATION AND METHOD OF PAYMENT

- (A) The Contractor shall be compensated at the rate of \$15 per hour for his own services.
- (B) The Contractor shall be reimbursed on the basis of coach class airfare and prevailing state employee per diem rates for all travel expenses authorized in advance by the Project Director. Travel expense claims shall be submitted on forms provided by the Agency. Contractor shall be reimbursed for long distance telephone charges incurred in the course of the Contractor's work under this contract.
- (C) Total compensation under this contract, inclusive of all expenses, shall not exceed \$1,100.00.

CLAUSE V. OFFICE SPACE, EQUIPMENT, CLERICAL SUPPORT

Office space, equipment and clerical support necessary to carry out the Contractor's obligations under this contract shall be supplied by the Contractor at no cost to the Agency, unless authorized by the Project Director.

CLAUSE VI. RECORDS, DOCUMENTS, AUDIT

The Contractor shall maintain accurate records, including detailed time records as may be required by the Agency. The records are subject to inspection by the Agency at all reasonable times. All documents, reports and writings performed under this contract are, upon delivery to the Agency or at termination of this agreement, the property of the Agency.

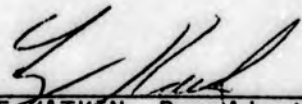
CLAUSE VII. ALL WRITINGS CONTAINED HEREIN

This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties to this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated below.

CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY  
(by direction of the Executive Director)

  
 \_\_\_\_\_  
 LAWRENCE KATKIN, President  
 DYNAMIC RESEARCH CORPORATION  
 Dated: 9/11/79  
 IRS Identification No. \_\_\_\_\_  
 Alaska Business License \_\_\_\_\_

\_\_\_\_\_  
 MYRTON R. CHARNEY  
 LEGISLATIVE AFFAIRS AGENCY  
 Dated: \_\_\_\_\_

Accepted:

Approved as to form:

  
 \_\_\_\_\_  
 REP. BRIAN ROGERS  
 SUSITNA STUDY COMMITTEE  
 Dated: 9/11/79

\_\_\_\_\_  
 AGENCY LEGAL COUNSEL  
 Dated: \_\_\_\_\_

**Department of the Treasury  
Internal Revenue Service**

29262300 L

DYNAMIC RESEARCH CORPORATION  
SR BOX 10612  
FAIRBANKS

AK 99701

Date of This Notice

If you inquire about  
your account, please  
refer to this  
number or attach a  
copy of this notice

05-29-79  
Employer Identification Number  
92-0071645

575 B 010155555  
15555555

**NOTICE OF NEW EMPLOYER IDENTIFICATION NUMBER ASSIGNED**

Thank you for your application for an employer identification number. The number above has been assigned to you. We will use it to identify your business tax returns and any other related documents, even if you have no employees.

Please keep this number in your permanent records. Use the number and your name, exactly as shown above, on all Federal tax forms that require this information, and refer to the number in all tax payments and in tax-related correspondence or documents. You may wish to make a record of the number for reference in case this notice is lost or destroyed.

We appreciate your cooperation.

AMENDMENT NO. 1

CONTRACT BETWEEN  
STATE OF ALASKA - LEGISLATIVE AFFAIRS AGENCY

AND

DYNAMIC RESEARCH CORPORATION  
SR Box 10612  
Fairbanks, Alaska 99701

IT IS MUTUALLY AGREED THAT THE CONTRACT BETWEEN THE ABOVE PARTIES  
DATED SEPTEMBER 14, 1979, IS HEREBY AMENDED AS FOLLOWS:

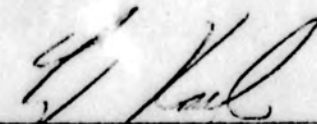
CLAUSE II, Paragraph (A), page 1 is amended to read:


- (A) The period of this contract shall begin September 11, 1979  
and expire December 31, 1979, unless extended or  
terminated in accordance with (B) of this Clause.

IN WITNESS WHEREOF, the parties have executed this amendment  
to this agreement on the dates indicated below.

CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY


  
\_\_\_\_\_  
LAWRENCE KATKIN, Pres. Date  
DYNAMIC RESEARCH CORPORATION  
IRS Ident. No. 92-0071645

  
\_\_\_\_\_  
M.R. CHARNEY Date  
Executive Director

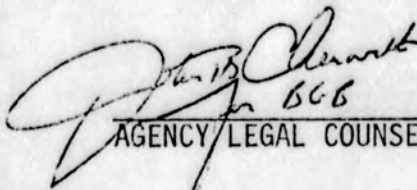
10/15/79

Accepted:

Approved as to form:

  
\_\_\_\_\_  
Rep. BRIAN ROGERS Date  
Susitna Study Committee

10/15/79

  
\_\_\_\_\_  
AGENCY LEGAL COUNSEL Date

10/15/79

*Susitna  
Alternatives*

CONTRACT BETWEEN

STATE OF ALASKA  
LEGISLATIVE AFFAIRS AGENCY  
Pouch Y  
Juneau, Alaska 99811

AND

DYNAMIC RESEARCH CORPORATION  
SR Box 10612  
Fairbanks, Alaska 99701

The parties to this Agreement are the LEGISLATIVE AFFAIRS AGENCY, hereinafter referred to as the "Agency", and DYNAMIC RESEARCH CORPORATION, hereinafter referred to as the "Contractor."

THE PURPOSE OF THIS AGREEMENT is to provide the Interim Susitna Study Committee, through the Agency, professional services relating to issues studied by the committee.

IT IS THEREFORE MUTUALLY AGREED THAT:

CLAUSE I. STATEMENT OF WORK

- (A) The Contractor shall examine and evaluate the geotechnical portions of three (3) proposals for detailed feasibility studies for the Susitna Hydroelectric Project; prepare a written report consisting of an evaluation of each proposal, a comparative evaluation, and suggestions for questions during oral presentations on September 27 and 28, 1979; and other tasks as may be directed by the project director. The Contractor shall attend the oral presentations on September 27 and 28, 1979.

CLAUSE II. TERM OF CONTRACT

- (A) The period of this contract shall begin September 11, 1979 and terminate September 30, 1979, unless extended, or terminated in accordance with (B) of this Clause.
- (B) This contract may be terminated by either party on written notice to the other.

CLAUSE III. PROJECT DIRECTOR

The project director shall be Representative Brian Rogers, co-chairman of the Interim Susitna Study Committee.

CLAUSE IV. COMPENSATION AND METHOD OF PAYMENT

- (A) The Contractor shall be compensated at the rate of \$15 per hour for his own services.
- (B) The Contractor shall be reimbursed on the basis of coach class airfare and prevailing state employee per diem rates for all travel expenses authorized in advance by the Project Director. Travel expense claims shall be submitted on forms provided by the Agency. Contractor shall be reimbursed for long distance telephone charges incurred in the course of the Contractor's work under this contract.
- (C) Total compensation under this contract, inclusive of all expenses, shall not exceed \$1,100.00.

CLAUSE V. OFFICE SPACE, EQUIPMENT, CLERICAL SUPPORT

Office space, equipment and clerical support necessary to carry out the Contractor's obligations under this contract shall be supplied by the Contractor at no cost to the Agency, unless authorized by the Project Director.

CLAUSE VI. RECORDS, DOCUMENTS, AUDIT

The Contractor shall maintain accurate records, including detailed time records as may be required by the Agency. The records are subject to inspection by the Agency at all reasonable times. All documents, reports and writings performed under this contract are, upon delivery to the Agency or at termination of this agreement, the property of the Agency.

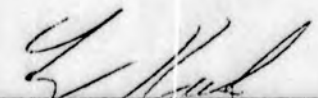
CLAUSE VII. ALL WRITINGS CONTAINED HEREIN


This agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this agreement shall be deemed to exist or to bind either of the parties to this agreement.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates indicated below.

CONTRACTOR

LEGISLATIVE AFFAIRS AGENCY  
(by direction of the Executive Director)

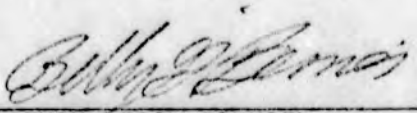
  
\_\_\_\_\_  
LAWRENCE KATKIN, President  
DYNAMIC RESEARCH CORPORATION  
Dated: 9/11/79  
IRS Identification No. 92-0071645  
Alaska Business License Applied For

  
\_\_\_\_\_  
MYRTON R. CHARNEY  
LEGISLATIVE AFFAIRS AGENCY  
Dated: 9/14/79

Accepted:

Approved as to form:

  
\_\_\_\_\_  
REP. BRIAN ROGERS  
SUSITNA STUDY COMMITTEE  
Dated: 9/11/79

  
\_\_\_\_\_  
AGENCY LEGAL COUNSEL  
Dated: Sept 14, 1979