

ALASKA POWER AUTHORITY

334 WEST 5th AVENUE - ANCHORAGE, ALASKA 99501

Phone: (907) 277-7641
(907) 276-0001

October 7, 1983

ALASKA DEPT. OF
FISH & GAME

OCT 10 1983

HABITAT
REGIONAL OFFICE

The Honorable Don Collinsworth
Commissioner
Department of Fish & Game
Support Building
Juneau, Alaska 99811

Re: Susitna Hydroelectric Project Settlement Process

Dear Commissioner Collinsworth:

On July 29, 1983, the Federal Energy Regulatory Commission (FERC) accepted the Application for License for the Susitna Hydroelectric Project. With acceptance of the License Application, FERC has begun its licensing process which, among other things, requires agency and public consultation and review of the application, preparation and review of a draft and final environmental impact statement, need for power hearings, and environmental hearings, if ordered.

This project, because of its magnitude and complexity, has raised many concerns related to fish, wildlife and socioeconomic impacts. Your agency has been in the forefront with respect to identification of issues and concerns and has provided the Alaska Power Authority with recommendations related to study plans, impact assessment and regulatory matters for the past several years. The ultimate goal of our interaction has been to identify both the beneficial and undesirable potentials of the project, and through appropriate design and operation bring them to acceptable balance. This balancing act is no simple task considering the diverse, and sometimes conflicting interests represented by the various resource agencies. We hope, however, that with diligent effort we should be able to resolve outstanding issues. We hope you will join with us in setting as a goal for this and next year, achieving equitable settlement of remaining issues.

The FERC licensing process incorporates a prehearing "settlement process" during which the applicant and other participants settle their differences, and hopefully, eliminate the necessity for administrative hearings. If major matters remain unsettled, FERC holds administrative hearings in which the participants present their cases to an administrative law judge who renders a decision. Based upon these hearings which will include consideration of the final EIS, the FERC Commissioners make their decision on project licensing.

FERC may condition a license as it deems appropriate. Consequently, a license may carry stipulations or conditions which are not fully satisfactory to either the applicant resource agencies or intervenor. Prehearing settlement allows for developing an "Alaskan solution" rather than one emanating from Washington, D.C. Hearings can also be an expensive and time consuming process. The current FERC schedule allows approximately 20 months for the environmental hearing process.

We hope that your agency agrees that it is necessary to devote considerable energy toward reaching an equitable settlement and avoid hearings. Our first step in this effort has been to research all correspondence from your agency to the Power Authority regarding the Susitna project as well as your testimony to our Board of Directors, to identify issues your agency has raised related to the project. A listing of these issues appears as Appendix A to this letter. We would appreciate your review of this listing. It is our perception that as studies have continued and more data become available, some of your agency's issues have been dealt with adequately while others have gained greater prominence. We see this trend continuing during the future, but hope that it is now possible for your agency to determine which issues remain outstanding.

The second item we wish to discuss with you is your statutory responsibility with respect to the Susitna licensing and project review process.

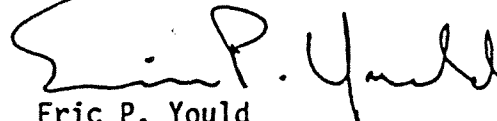
We have reviewed the Alaska Statutes Title 16, although not exhaustively, and understand your mandate is to manage, protect, maintain, improve and extend the fish, game and aquatic plant resources of the state in the interest of the economy and general well-being of the state (Sec. 16.05.020. Functions of the commissioner,). Further review of A.S. Title 16 and Title 5, Alaska Administrative Code leads us to believe, more specifically, your mandate relates to management and allocation (recognizing the roles of the Boards of Fish & Game) of fish and game resources and with respect to anadromous fisheries, protection of habitat and the management of state game refuges, sanctuaries and critical habitat areas.

We also recognize your role in the National Environmental Protection Act (NEPA) (42 USC 4332(c), 40 CFR 1500-1508) process The Fish & Wildlife Coordination Act (16 USC 662) (Reorganization Plan 4-1970), and the Federal Power Act (16 USC 797(c) 799-803, 18 CFR 4-40(d) and 4.31(f).

We would appreciate meeting with you and/or your staff to discuss Appendix A to add or delete issues as is appropriate and to discuss your role in the settlement process. We propose that we

meet sometime during the period October 24 - November 4, 1983. It might be helpful to have your assistant attorney general in attendance when discussing mandates and responsibilities related to the FERC process. Our contact person in this effort will be Mr. Thomas J. Arminski, and he will contact you to arrange a specific meeting time and place. Please do not hesitate to contact him if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric P. Yould". The signature is fluid and cursive, with the first name "Eric" and last name "Yould" being the most prominent parts.

Eric P. Yould
Executive Director

Attachment as stated.

cc; Carl Yanagawa, Alaska Dept. Fish & Game, Anchorage
Jeff Lowenfels, Birch, Bittner, Horton et al
Jack Robinson, Harza-Ebasco

APPENDIX A

Contents

Introduction

List of Issues Raised by Your Agency

Master Bibliography of Sources

Introduction

Each issue on the attached list bears an alphanumeric designation for ease of identification. The system used for the alpha part of the designation is as follows:

<u>Subtask</u>	<u>Alpha Designation</u>
Aquatic Resources	A
Terrestrial Resources	T
Social Sciences	
Cultural	SC
Socioeconomics	SS
Recreation	SR
Aesthetics	SA
Land Use	SL

Within each subtask (Aquatic Resources, Terrestrial Resources, Social Sciences) each issue bears a different number. The resulting alphanumeric designation is unique for each issue and at the same time indicates the general topic with which each issue deals.

As issues are resolved during the settlement process, the alphanumeric designations for those issues will be retired, and will not be used for any new issues which may later be added to the list. Instead, any new issues will be assigned their own unique alphanumeric designation.

The list of issues raised by your agency was developed from a master list which also contains the issues raised by a number of other agencies. Thus, your agency's list of issues does not necessarily contain issues from all

the subtask categories referred to above, nor do the issues on your list necessarily conserve strict numerical order within the subtask categories.

Your issues list indicates in abbreviated form the source used to identify each issue. At the end of this Appendix, we have provided a master bibliography with more complete information on each of the sources cited.

SUSITNA HYDROELECTRIC PROJECT: AGENCY-RAISED ISSUES

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ISSUE	SOURCE
A-5. Water quality effects of waste materials discharged into the river by communities and industrial operations downstream of the dam during construction and operation.	5. Dwight & Trihey 81 Survey
A-6. Temperature conditions in all reaches of the river affected by construction and operation.	6. Dwight & Trihey 81 Survey
A-7. Sediment levels and turbidity affected by construction and operation.	7. Dwight & Trihey 81 Survey
A-8. Effects of construction and operation of project on aquatic animal organisms.	8. Dwight & Trihey 81 Survey
A-9. Effects of construction activities on fishery resources in the access road corridor.	9. Dwight & Trihey 81 Survey
A-10. Effects of construction activities on fishery resources in transmission line corridors.	10. Dwight & Trihey 81 Survey
A-11. Effects of construction and operation on ice conditions upstream of the dams.	11. Dwight & Trihey 81 Survey
A-12. Effects of construction and operation on ice conditions downstream of the dams.	12. Dwight & Trihey 81 Survey
A-13. What is the life of the reservoir?	13. Dwight & Trihey 81 Survey
A-14. What effect will release of sediment and glacial flour to prolong the life of the reservoir (if this is done) have downstream?	14. Dwight & Trihey 81 Survey
A-15. Effects of operation of reservoir(s) on dissolved nitrogen concentrations downstream of dam(s).	15. Dwight & Trihey 81 Survey
A-16. Effect of altered flows on winter icing in Cook Inlet.	16. Dwight & Trihey 81 Survey

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ISSUE	SOURCE
A-17. Estuary impacts need evaluation.	17. Dwight & Trihey 81 Survey
A-18. Overwintering of resident and juvenile anadromous fish in the mainstem needs to be evaluated.	18. Dwight & Trihey 81 Survey
A-19. Impacts on access of juvenile salmon to east side tributaries below Talkeetna for rearing.	19. Dwight & Trihey 81 Survey
A-20. Water quality impacts downstream from Talkeetna.	20. Dwight & Trihey 81 Survey
A-21. Water quantity impacts downstream from Talkeetna.	21. Dwight & Trihey 81 Survey
A-22. Sediment transport conditions at the confluence of the Susitna, Chulitna and Talkeetna Rivers.	22. Dwight & Trihey 81 Survey
A-23. Adequate mitigation studies.	23. Dwight & Trihey 81 Survey
A-24. Impacts on rearing, fish passage, and egg incubation in the mainstem river from its mouth upstream.	24. Letter Trent to Carson Oct 13, 1980
A-25. A cost/benefit analysis of potential mitigation alternatives must be made.	25. Letter Trent to Carson Oct 13, 1980
A-26. Access of the public and commercial interests to fisheries provided by mitigation program.	26. Letter Trent to Carson Oct 13, 1980

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ISSUE	SOURCE
A-27. Access road impacts on fisheries including access for fishing.	27. Letter Trent to Carson Oct. 13, 1980
A-28. The entire length of the river should be evaluated for project impacts.	28. Letter Trent to Carson Oct. 13, 1980
A-29. Effects of T-Line corridor to maintain watershed integrity.	29. Memo from Yanagawa to Trent August 6, 1981
A-30. Effects of the alignment of T-Line corridors on aquatic resources.	30. Memo from Yanagawa to Trent August 6, 1981
A-31. Change in the bed characteristics of areas utilized by chum salmon for mainstem spawning.	31. Letter Trent to Weltzin Jan. 19, 1982 and April 16, 1982 Board testimony
A-32. Influence of changes to sediment transport patterns on productivity of the aquatic community.	32. Letter Trent to Weltzin Jan. 19, 1982 and April 16, 1982 Board testimony
A-33. Post-project effects on downstream turbidity.	33. Letter Trent to Weltzin Jan. 19, 1982 and April 16, 1982 Board testimony
A-34. The costs of aquatic mitigation specified.	34. Testimony before APA Board April 16, 1982

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ISSUE	SOURCE
A-35. Instream flows required to maintain present populations of fish below the two dams. The areas immediately below the dam sites as well as areas further downstream should be included.	35. Letter to APA Board July 27, 1982
A-36. Temperature regimes should be evaluated concurrently with stream flows.	36. Letter to APA Board July 27, 1982
A-37. Compare options for onsite mitigation of fisheries impacts with possibilities for hatcheries.	37. Letter to APA Board July 27, 1982
A-38. Impacts from construction and maintenance of the transmission corridor should be evaluated.	38. Letter to APA Board July 27, 1982
A-39. Impacts from construction and maintenance of access road corridor should be evaluated.	39. Letter to APA Board July 27, 1982
A-40. Grayling hatchery for impoundment losses.	40. Comments at December 2, 1982 Workshop
A-41. Slough modification plans.	41. Comments at December 2, 1982 Workshop
A-42. Instream flow analysis on sloughs to look at the mitigation options.	42. Letter to APA June 3, 1983
A-43. Instream analysis on side channels to look at the mitigation options.	43. Letter to APA June 3, 1983
A-44. Instream analysis on mouths of tributaries to look at the mitigation options.	44. Letter to APA June 3, 1983

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ISSUE	SOURCE
<p>T-1 <u>Downstream Effects</u></p> <p>The assessment of the extent and severity of downstream habitat alteration needs to be refined. Need to continue hydrologic and vegetation succession modelling and additional field studies where necessary, in order to refine impact assessment and mitigation planning for downstream effects. Should use geomorphological cross-sections information and possibly monitor these cross-sections.</p>	<p>1. Testimony before APA Board 4/16/82 p.1 (FWS) Draft Ex. E Comments p. 34, 35, 37, 58 68, 69, 98 (FWS) Feb/Mar '83 Workshop Recommendation p. 155, 162 (FWS) Draft Ex. E Comments B-6, B-7 (ADFG) Feb/Mar '83 Workshop Recommendation p. 155, 162 (ADFG)</p>
<p>T-3 <u>Matrix Approach to Summarize Impacts/Mitigation Measures</u></p> <p>Need to evaluate impacts and especially mitigation measures for each species relative to all others using a matrix format. Consider aquatic resources in this matrix analysis.</p>	<p>3. Draft Ex. E Comments p. 18-19 (FWS) Feb/Mar '83 Workshop Recommendation p. 163 (ADFG)</p>
<p>T-11 <u>Estimates of Project Area Recreational Use</u></p> <p>Need better estimates of current and future recreational use of the project area.</p>	<p>11. Feb/Mar '83 Workshop Recommendation p. 154</p>
<p>T-16 <u>Traffic-related Impacts</u></p> <p>Extent of and effects of increased traffic on various road and railroad segments have not adequately been evaluated and related to big game disturbance and collision mortality.</p>	<p>16. Draft Ex. E Comments p. B-52</p>

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ISSUE	SOURCE
<p>T-18 <u>Secondary Effects of Improved Access</u></p> <p>Effects of secondary development and increased recreational use resulting from improved access have not been fully evaluated.</p>	<p>18. Draft Ex. E Comments - p. B-6 (ADFG) Testimony before APA Board 4/16/82 p. 1 (FWS)</p>
<p>T-19 <u>Cumulative Impacts</u></p> <p>Effects of cumulative impacts have generally not been adequately addressed.</p>	<p>19. Draft Ex. E Comments - p. 19 (FWS) Draft Ex. E Comments - p. B-5, B-55 (ADFG)</p>
<p>T-20 <u>Quantification of Impacts</u></p> <p>In general, impacts have not been adequately quantified and determinations of significance have not been well-documented.</p>	<p>20. Draft Ex. E Comments - p. B-3 (ADFG) Draft Ex. E Comments - p. 17 (FWS) Testimony before APA Board 4/16/82 p. 1 (FWS)</p>
<p>T-21 <u>Impacts Based on Current Populations</u></p> <p>Impact evaluations should be based on the range of population levels that could reasonably be expected to occur during the life of the project rather than on current population levels as is generally done.</p>	<p>21. Draft Ex. E Comments - p. B-3, B-4, B-5</p>
<p>T-28 <u>Snow Accumulation Data</u></p> <p>Need data on snow accumulation by elevation in the upper Susitna Basin.</p>	<p>28. Feb/Mar '83 Workshop Recommendations p. 154</p>

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ISSUE	SOURCE
<p>T-30 <u>Moose Browse Mapping</u></p> <p>Need to provide a quantifiable data base for precise type and areal extent of moose browse within the direct impact area to support carrying capacity modeling.</p>	<p>30. Draft Ex. E Comments p. 45 (FWS) Feb/Mar '83 Workshop Recommendations p. 160 (ADFG)</p>
<p>T-34 <u>Moose Carrying Capacity Model</u></p> <p>Need to conduct a habitat-based assessment of moose habitat loss/modification impacts as the basis for impact prediction and mitigation planning.</p>	<p>34. Draft Ex. E Comments p. 17, 18 52, 72 (FWS) Feb/Mar '83 Workshop Recommendation p. 161 (ADFG)</p>
<p>T-35 <u>Moose Habitat Enhancement</u></p> <p>Need to evaluate techniques for increasing moose carrying capacity through habitat enhancement and identify candidate areas for habitat enhancement in order to mitigate for project-induced carrying capacity reductions.</p>	<p>35. Draft Ex. E. Comments p. 40, 72 (FWS) Letter 10/5/82 p. 4 (FWS) Feb/Mar '83 Workshop Recommendations p. 161, 162, 177 (ADFG)</p>
<p>T-36 <u>Moose Browse Inventory</u></p> <p>Need to conduct a moose browse inventory in the impoundment areas to support the moose carrying capacity modeling efforts.</p>	<p>36. Draft Ex. E Comments p. 34 (FWS) Feb/Mar '83 Workshop Recommendation p. 160 (ADFG)</p>

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ISSUE	SOURCE
<p>T-37 <u>Moose Food Habits</u></p> <p>Need to conduct a limited moose food habits study to support the moose carrying capacity modeling efforts.</p>	<p>37. Draft Ex. E Comments p. 45 (FWS) Feb/Mar '83 Workshop Recommendation p. 160 (ADFG)</p>
<p>T-38 <u>Spring Plant Phenology</u></p> <p>Need to determine the temporal and spatial pattern of spring plant green-up in and adjacent to the impoundment zones in order to assess the significance of this seasonal forage resource to moose and bear reproduction and carrying capacity and to assess the portion of the resource to be lost due to impoundments. Also, need this information to refine the evaluation of microclimate changes, due to the reservoirs, on spring green-up.</p>	<p>38. Draft Ex. E Comments p. 36, 53 (FWS) Feb/Mar '83 Workshop Recommendation p. 159, 160 (ADFG)</p>
<p>T-39 <u>Upstream Moose Field Studies</u></p> <p>Need more data on moose numbers, herd composition, calf mortality and movements (especially during the critical winter and spring periods) relative to the impoundment areas to refine impact assessment and mitigation planning.</p>	<p>39. Feb/Mar '83 Workshop Recommendation p. 175, 176 (ADFG) Draft Ex. E Comments p. 47 (FWS)</p>
<p>T-40 <u>Downstream Moose Field Studies</u></p> <p>Need more data on moose use of downstream riparian areas during winter and spring to refine impact assessment and mitigation planning, especially because of the annual variability in this use. Also need more data on moose population, sex, and age composition on the downstream disturbed sites.</p>	<p>40. Feb/Mar '83 Workshop Recommendation p. 177</p>

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ISSUE

SOURCE

T-41 Severe Winter Field Studies41. Feb/Mar '83 Workshop
Recommendation p. 177

Need to gather intensive data on moose distribution, habitat selection and wolf predation during a severe winter.

T-43 Wolf Field Studies43. Feb/Mar '83 Workshop
Recommendation p. 176

Need to gather more information on movements, territory locations, predation rates, etc., of wolves in upstream zone of impact to refine assessment and mitigation planning.

T-44 Black and Brown Bear Field Studies44. Feb/Mar '83 Workshop
Recommendation
p. 171, 172, 179,
180, 181 (ADFG)
Draft Ex. E
Comments p. 57, 63
(FWS)

Need to gather more information on habitat use (especially relative to the impoundments), denning habitats and availability of food habits to refine impact assessment and mitigation planning. Need to better evaluate importance of salmon to area bears. Overall, need to better quantify impacts and discuss cumulative impacts on brown bears.

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ISSUE	SOURCE
SS-15 The costs of educating the project-induced population need to be examined as well as the effects of the education costs on Mat-Su Borough tax rates.	15. Socioeconomic Workshop (19 July 1983)
SS-16 Impacts to fish and wildlife users have not been adequately addressed.	16. Letter to APA, 13 Jan 1983 (Vol. 10B)
SS-17 Some description should be provided on the relative importance of natural resource harvests as part of household income.	17. Letter to APA, 13 Jan 1983 (Vol. 10B)
SS-18 Indirect and direct impacts to commercial businesses dependent upon fish and wildlife resources are undefined.	18. Letter to APA, 13 Jan 1983 (Vol. 10B)
SS-19 Impacts to subsistence and recreation user groups and to fish and wildlife resources should be addressed.	19. Letter to APA, 13 Jan 1983 (Vol. 10B)
SS-20 A survey of community usage of wildlife resources by Cantwell residents would be useful in assessing levels of use and importance of salmon, moose, and caribou.	20. Letter to APA, 13 Jan 1983 (Vol. 10B)
SS-21 Additional assessment of user groups should be made for the domestic use of salmon.	21. Letter to APA, 13 Jan 1983 (Vol. 10B)
SS-22 The assessment of trapping activity and its importance to users in the Local Impact Area should be more extensive.	22. Letter to APA, 13 Jan 1983 (Vol. 10B)
SS-50 Effects of project construction and operation on instream flow as it relates to socioeconomics should be examined.	50. Dwight & Trihey 81 Survey

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ISSUE	SOURCE
SR-52 Many of the recreational use projections are underestimated.	52. Letter to APA, 13 Jan 1983 (Vol. 10B)
SR-53 Management of lands for public recreation and appreciation requires additional clarification.	53. Letter to APA, 13 Jan 1983 (Vol. 10B)
SR-54 The discussion of wildlife and recreation fails to address impacts to inundated tributaries to the Susitna River.	54. Letter to APA, 13 Jan 1983 (Vol. 10B)
SR-55 There is inadequate discussion of construction worker policies regarding use of recreation resources.	55. Letter to APA, 13 Jan 1983 (Vol. 10B)
SR-56 A definition of wildlife species and recreational uses is needed.	56. Letter to APA, 13 Jan 1983 (Vol. 10B)
SR-58 Discuss impacts on recreation to east-side tributaries below Talkeetna.	58. Dwight & Trihey 81 Survey
SR-78 Effects of project construction and operation on instream flow as it relates to recreation resources should be examined.	78. Dwight & Trihey 81 Survey
SA-83 Effects of project construction and operation on instream flow as it relates to aesthetic resources should be examined.	83. Dwight & Trihey 81 Survey
SL-84 Potential railroad impacts to land use and access downstream from Gold Creek should be addressed.	84. Letter to APA, 13 Jan 1983 (Vol. 10B)
SL-85 Proposed mitigation measures and their implementation need to be more clearly outlined.	85. Letter to APA 13 Jan 1983 (Vol. 10B)
SL-86 Proposed mitigation for the loss of public use of project lands should identify alternatives such as replacing opportunities lost with lands that provide equal value.	86. Letter to APA, 13 Jan 1983 (Vol. 10B)

MASTER BIBLIOGRAPHY

Aquatic Resources

Alaska Department Of Environmental Conservation (ADEC)

1. Dwight, L.P. and E.W. Trihey. 1981. A Survey of Questions and Concerns Pertaining to Instream Flow Aspects of the Proposed Susitna Dam Feasibility Study with Initial Comments Toward Preparation of an Instream Flow Study Plan. Acres American Inc., 23p.
2. Letter to APA, 6 June 1983. Letter from R. Neve, Commissioner, ADEC to Eric Yould, Executive Director, APA.

Alaska Department Of Fish And Game (ADFG)

1. Dwight, L.P. and E.W. Trihey. 1981. A survey of Questions and Concerns Pertaining to Instream Flow Aspects of the Proposed Susitna Dam Feasibility Study with Initial Comments Toward Preparation of an Instream Flow Study Plan. Acres American Inc., 23 p.
2. Letter from Tom Trent, Region 2 Supervisor, Habitat Protection Section, ADFG to Al Carson, Chairman, Su Hydro Steering Committee, ADNR. 13 October 1980.
3. Memo from Carl Yanagawa, Region 2 Supervisor, Habitat Protection Section, ADFG to Tom Trent, Aquatic Studies Coordinator, ADFG. 6 August 1981.
4. Letter from Ron Skoog, Commissioner, ADFG to J. Weltzin, Energy Coordinator, Fairbanks Environmental Center. 19 January 1982. Included in Board Testimony of 16 April 1982. 9p.
5. Testimony before APA Board. 16 April 1982. Ron Skoog, Commissioner ADFG. 7p.
6. Letter to APA Board. 27 July 1982. Letter from R. Skoog, Commissioner, ADFG to Eric Yould, Executive Director, APA. 3p.
7. Aquatic Resources Workshop. 2 December 1982. Workshop on review of Draft Ex. E of Draft License Application, Anchorage.
8. Letter to APA. 3 June 1983. Letter from Don Collinsworth, Acting Commissioner, ADFG to Eric Yould, Executive Director, APA. 2p.

Alaska Department Of Natural Resources (ADNR)

1. Dwight, L.P. and E.W. Trihey. 1981 A survey of Questions and Concerns Pertaining to Instream Flow Aspects of the Proposed Susitna Dam Feasibility Study with Initial Comments Toward Preparation of an Instream Flow Study Plan. Acres American Inc., 23 p.
2. Letter to APA: 13 May 1982. Letter from A. Carson, Deputy Director, Division of Research and Development, ADNR to D. Wozniak, Project Manager, APA. 2p.
3. Testimony before APA Board. 16 April 1982. Delivered by A. Carson, ADNR.

U.S. Bureau Of Land Management (BLM)

1. Dwight, L.P. and E.W. Trihey. 1981 A survey of Questions and Concerns Pertaining to Instream Flow Aspects of the Proposed Susitna Dam Feasibility Study with Initial Comments Toward Preparation of an Instream Flow Study Plan. Acres American Inc., 23 p.

National Marine Fisheries Service (NMFS)

1. Testimony before APA Board. 16 April 1982. R. McVey, Regional Director, NMFS. 4p.
2. Letter to APA. 15 October 1982. Letter from R. McVey, Regional Director, NMFS to Eric Yould, Executive Director, APA. 3p.
3. Draft Ex. E Comments from Letter to APA. 25 January 1983. Letter from R. McVey, Regional Director, NMFS to Eric Yould, Executive Director, APA. 13p.

U.S. Fish And Wildlife Service (FWS)

1. Dwight, L.P. and E.W. Trihey. 1981 A survey of Questions and Concerns Pertaining to Instream Flow Aspects of the Proposed Susitna Dam Feasibility Study with Initial Comments Toward Preparation of an Instream Flow Study Plan. Acres American Inc., 23 p.
2. Letter to APA. 5 January 1982. Letter from John Morrison, Acting Assistant Regional Director, FWS to Eric Yould, Executive Director, APA. 5p.
3. Testimony before APA Board. 16 April 1982. LeRoy Sowl, FWS.
4. Letter to APA. 5 October 1982. Letter from L. Wohl, Assistant Regional Director, FWS to Eric Yould, Executive Director, APA. 7p.
5. Letter to APA. 17 August 1982. Letter from John Morrison, Acting Assistant Regional Director, FWS to Eric Yould, Executive Director, APA. 2p.
6. Draft Ex. E Comments from Letter to APA. 14 January 1983. Letter from Keith Bayha, Assistant Regional Director, FWS to Eric Yould, Executive Director, APA. 119p.

Terrestrial Resources

U.S. Fish and Wildlife Service (FWS)

1. Testimony before APA Board. 16 April 1982.
LeRoy Sowl, FWS.
2. Draft Ex. E Comments from Letter to APA. 14 January 1983.
Letter from Keith Bayha, Assistant Regional Director, FWS to Eric Yould, Executive Director, APA. 119 p.
3. Terrestrial Workshop. February/March 1983.
Workshop held in Anchorage. Comments in Draft Report, 243 p.
4. Letter to APA. 5 October 1982.
Letter from K. Wohl, Assistant Regional Director, FWS to Eric Yould, Executive Director, APA. 7 p.
5. Letter to APA. 24 January 1983.
Letter from Melvin Monson, Acting Assistant Regional Director, FWS to Eric Yould, Executive Director, APA. 20 p.
6. Letter to APA. 5 January 1982.
Letter from John Morrison, Acting Assistant Regional Director, FWS to Eric Yould, Executive Director, APA. 5 p.
7. Letter to APA. 23 June 1980.
Letter from Keith Schreiner, Area Director, FWS to Eric Yould, Executive Director, APA. 5 p.

FWS (cont'd)

8. Letter to APA. 15 November 1979.
Letter from FWS to Eric Yould, Executive Director, APA.
9. Letter to APA. 9 June 1983.
Letter from Jan Riffe, Acting Regional Director, FWS to Eric Yould,
Executive Director, APA. 5 p.

Alaska Department of Fish and Game (ADFG)

1. Draft Ex. E Comments from Letter to APA. 13 January 1983.
Letter from Don Collinsworth, Acting Commissioner, ADFG to Eric Yould,
Executive Director, APA. 110 p.
2. Terrestrial Workshop. February/March 1983.
Workshop held in Anchorage. Comments in Draft Report, 243 p.

Social Sciences

National Park Service (NPS)

1. Cultural Resources Workshop. 22 July 1983.
Workshop held in Anchorage.
2. Letter to APA. 3 December 1982.
Letter from Dr. Floyd Sharrock, Archeologist, NPS to APA.
3. Letter to APA. 4 February 1983.
Letter from Bill Welch, Associate Regional Director of Planning, Recreation, and Cultural Resources for Alaska Region, NPS to Eric Yould, Executive Director, APA. 1 p.
4. Letter to APA. 14 January 1983.
Letter from Bill Welch, Associate Regional Director of Planning, Recreation, and Cultural Resources for Alaska Region, NPS to Eric Yould, Executive Director, APA. 2 p.

Alaska Division of Parks (ADP)

1. Cultural Resources Workshop. 22 July 1983.
Workshop held in Anchorage.
2. Letter to APA. 3 December 1982.
Letter from Ty Dilliplane, State Historic Preservation Officer, ADP to Eric Yould, Executive Director, APA. 2 p.

Alaska Department of Natural Resources (ADNR)

1. Letter to APA. 13 January 1983.
Letter from Esther Wunnicke, Commissioner, ADNR to Eric Yould, Executive Director, APA. 6 p.
2. ADNR Memorandum. 23 December 1982.
Memorandum from Y.R. Nayudu, Chief, Water Management Section, ADNR to A. Carson, Acting Director, Division of Research and Development, ADNR. 7 p.
3. Task 41 Meeting. 10 May 1983.
Meeting with ADNR and ADP, held in Anchorage.
4. Aesthetics Workshop. 1 December 1982. Workshop on review of Draft Exhibit E of the Draft License Application, Anchorage.
5. Letter to APA. 3 February 1983.
Letter from Jerry Brossia, District Manager, Northcentral District, ADNR to Robert Mohn, Project Manager, APA. 9 p.