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ALLON POWER AUTOR

### SUSITNA HYDROELECTRIC PROJECT

NOTES ON MEETINGS WITH APA, COLUMBIA, MARYLAND AUGUST 3RD

PREPARATION OF FERC LICENSE EXHIBITS

AUGUST 6, 1982

Prepared by:



ALASKA POWER AUTHORITY

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#### SUSITNA HYDROELECTRIC PROJECT

### NOTES ON MEETINGS WITH APA, COLUMBIA, MARYLAND AUGUST 3PD

The meetings were called at the request of The Power Authority to review Acres work plans for preparation of FERC license documents for Susitna. Attendees were as follows:

APA: R. Mohn

D. Wozniak

Acres: J. Lawrence

P. Hoover

J. Hayden

K. Young

M. Grubb | Absent for initial discussions

D. Willett)

#### Item 1: Proposed Work Plans

The attached work plans for Exhibits A through G and associated schedules were tabled for discussion. Specific questions raised by APA were as follows:

#### a) Land Questions

The Power Authority tabled the attached list of 10 questions which were discussed and generally responded to as noted on the attachment. No written response is required.

#### b) Water Rights

The submission as prepared by Acres is probably over-conservative in terms of project boundary definitions. Acres did not take the lead in identifying baseline land use conditions for the project boundary and some of this work will require tightening up for the license exhibit. It is important to define as soon as possible the land requirements and boundaries for access, transmission and recreation, all of which are the subject of continuing work. The 200 ft. boundary is generally a maximum and should not be exceeded without clear documentation of valid reasons for doing so. Acres proposal to employ Land Field Services to prepare Exhibit G was generally approved by The Power Authority. However a draft of the proposed subcontract defining scope and budget must receive APA approval prior to signature. It was noted that the native corporations had expressed an interest in constructing recreation facilities and access roads thereto for subsequent lease back to APA.

### Supplementary Reports

A number of supplementary reports will be required in addition to the license application. It was agreed that three copies of all referenced documents should be forwarded to FERC with the license application. In special cases such as the supplementary design report, 6 copies were required. A number of these reference reports had already been printed and issued to APA in accordance with the stated requirements. Acres should prepare as soon as possible an inventory of available stocks of these reports so that any additional printing requirements can be identified.

#### d) Access

Final selection of the access route is a prerequisite to finalization of transmission and recreation plans. (See separate meeting notes)

#### e) Transmission

Acres proposes that LGL/Tetratech will prepare the Exhibit E documents for transmission. It should be noted that Land Field Services have an excellent data base for geotechnical and aesthetic information for the intertie. Buffalo office will undertake the transmission line design as soon as the access route is selected. This should be done in a manner compatible with that done for the interties by Commonwealth. Once completed the route should be flown and finally fixed for the license and the right-of-way boundaries defined. The Power Authority requires that Acres prepare and submit as soon as possible a work plan for transmission.

#### f) Mitigation Plans

No specific schedule was currently indicated for submission of mitigation plans to agencies for comment. It was generally agreed that drafts of the relevant documentation must be available to the agencies by mid-November at the latest. It is clearly important that consultation with the agencies should be on a continuing basis since by mid-November it will not be possible to incorporate all the results of ongoing field studies particularly for fisteries. Acres should issue letters to the agencies as soon as possible referring to documents already issued and tactfully request agency comment which could then be factored into the drafts to be issued mid-November. The proposed December workshops should be established as part of the ongoing process of obtaining agency input to the final Exhibit E which is to be filed mid-February.

### g) Project Operation

It is clearly essential that a decision be made on the mode of operation of the project for inclusion in the license application by late August. Meetings in Anchorage later this month should be structured to provide the necessary information in terms of energy and environmental trade-offs that allow this decision to be made jointly by Acres and The Power Authority. The Power Authority requires Acres to provide as soon as possible a detailed plan for making this decision. It was agreed that new load forecasts would be treated in the application essentially as another sensitivity run rather than a new base case.

### h) Exhibit E

A date of August 19th was established for the next Power Authority review of Acres progress on Exhibit E. It was proposed by The Power Authority that preparation of chapters 1, 4, 5, 10 and possibly 5 should be initiated immediately in order to spread the work over a longer period of time. APA expressed concern that Stielstra who is shown responsible for chapters 7, 8 and 9 (recreation, aesthetics, and land use) may be overloaded and even not qualified to undertake

all three items. D. Wozniak suggested consideration of Sullivan to assume some of this responsibility. Fleming of APA is to interview Stielstra and make recommendations.

AEIDC is delaying its contribution on fisheries: APA will apply appropriate pressure and try to overcome this problem. Although strictly not necessary the recreation plan in the Exhibit E format should be forwarded to the agencies for comment when available. The chapter 10 on alternatives must include a description of access and transmission alternatives considered and details of the substantial amount of agency consultation which has taken place and any mitigation plans which have developed.

The Power Authority expressed concern that Moulton of WCC who is the author of parts of chapter 3 has also been nominated for an assignment for the state which R. Mohn had recently been involved in. John Hayden will check into this.

In general, The Power Authority expressed concern that John Hayden not be overloaded with administrative work which might conflict with preparation of Exhibit E.

#### i) FERC Review

P. Hoover is to be established as the single point of contact for questions which exhibit preparers may wish to raise with FERC. At the meeting August 4th with Paul Carrier it was proposed that FERC be advised of The Power Authority's intentions to forward drafts for comment given an indication of the schedule for the submission. John Lawrence would be meeting R. Corso informally August 9th and would request how FERC would prefer to handle the informal consultation process between exhibit preparers and FERC staff.

P. Hoover is to be finally responsible for review of all exhibits for general consistency in style and format.

#### Item 2: Amendment #4

The Power Authority requested that Amendment #4 include for handing-over by Acres to a new engineer in the event this was necessary. For example; maps, photographs, design calculations and relevant correspondence files should be identified as elements to be handed-over by mid-to-late November so that they would be available to the new engineer in December or January.

Acres will forward to APA a copy of the current file index checked off with those files which Acres believe should be transferred for approval by The Power Authority before any action is taken. Reference should be made to original correspondence from The Power Authority regarding other study products which APA requires.

The Amendment should include formal language relating to the transistion period with the new engineer and cover such items as: briefing meetings, contract closing-out, final payments, billings, audits etc. The Amendment

should cover an appropriate period past January 1st and also quote unit rates for services of personnel as and when needed in the future.

Acres were requested to explore the possibility of providing file and design calculation information on microfiche or microfilm, 2 to 3 copies being required. In general however computer printout should not be microfiched but originals of applicable sheets should be handed over.

A signed and executed document for Amendment #4 is required by September 10th.

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### SUSITNA HYDROELECTRIC PROJECT ACCESS ROAD DECISION PROCESS

The meeting in Columbia August 3rd also dealt with the preparation of a "decision paper" to be finalized by August 16th as a basis for the APA Board decision on access. The supplementary access road report would follow on the basis of this decision paper.

It is imperative that a team of people assemble in Anchorage the week of August 9th to 13th to prepare this report. The team will comprise the following:

J. Hayden J. Plummer

R. Chamberlain

M. Grubb

LGL

R. Fleming

Referring to The Power Authority report outline, responsibilities are as follows:

Chapter 1 and 2, John Hayden to write, APA review.

Chapter 3, Mike Grubb/LGL to write, R. Fleming to review. Acres should consult Banfield to obtain his reaction to the possibility of a Denali route. Dave Wozniak will contact BLM for their input. R. Fleming will deal with ADF&G input. Acres will contact Dr. Leopold as necessary.

Chapter 4 and 5, The Power Authority will obtain agency input which will be summarized by John Hayden.

Chapter 6, Jim Plummer assisted by Chamberlain and R&M will deal with costs.

Chapter 7. Jim Plummer will deal with schedule/rates. The Power Authority concerns were expressed regarding the railroad options. Stated hazards for the railroad options also apply to roads. It is essential that each be fully evaluated and compared in the study to properly establish the advantage of road access. Inadequate attention had been paid to the current rail restrictions and duty cycle requirements from Whittier to Cantwell which are believed to be quite restricted. The railroad staff in Anchorage must be contacted to obtain historical data which should be presented in the report.

Chapter 8, Environmental Aspects, and Land Use should be prepared by M. Grubb and LGL and reviewed by R. Fleming. The Matanuska-Susitna Burrough plans must be factored in together with the DNR Land Use plans. (A Carson)

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### **ALASKA POWER AUTHORITY**

8/3/95

334 WEST 5th AVENUE - ANCHORAGE, ALASKA 99501

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

#### SUSITNA LAND QUESTIONS FOR F.E.R.C.

- the APA is beside bounce
- May project facilities of the type listed below be placed on leased Land?
  - a. Dam and penstock
  - Inpoundment area plus up to 200 feet surrounding the impoundment area.
  - Village sites, construction camps, air strips and service areas.
- No kuman

witerland

- If such facilities cannot be placed on leased land, can they be conveyed to the Power Authority subject to a reversionary clause to take effect at such time as the area is no longer used for power project purposes.
- rature in
- 3. The Power Authority is required by FERC to control a maximum area of up to 200 feet surrounding the impoundment area. What is the minimum number of feet around the impoundment area that the Power Authority must control?
- T Half gen
- 4. Will the aliquot parts method of land description as currently being used by the Power Authority to describe the 200 foot surrounding the impoundment area be acceptable?
- to white
- May the Power Authority award control of any or all recreational development within the project boundaries to a private corporation, and if so, with what restrictions?
- a lan as in likely
- FERC regulations require that land ownership and proposed uses be identified "within and abutting the project boundary". What size area is meant to be included by this clause?

How general a statement of future anticipated land uses will FERC accept from private owners (i.e., native corporations) of lands in and abutting the project area?

Would access to project facilities obtained by leasing a private road be acceptable.

- Pobally 700 feer 9.
- What is the width of the transmission line Right-of-Way which must be identified upon submission of the FERC License Application?
- No. Is it necessary to include in the FERC License Application a project land acquisition scheme and schedule?

Ne written response needed

### AGENDA

Subject: Preparation of FERC License Application

Item 1 Schedule Summary Tech./Env.

Item 2 Review Exhibit Schedules Responsibilities

Item 3 Exhibit E Agency Revised Schedule

Item 4 Supplementary Reports

Item 5 Formats - References

Item 6 FERC Meeting of 8/3/82

Senior aditor - ?. Hower.

### SUPPLEMENTAL REPORTS \*

Title	Schedule	Prime Responsibility
Land Status (2.04) Land Acquisition Analysis (2.05) Supplementary Feasibility Report 1982 Geotechnical Report Water Quality Report Ground Water Dynamics Report Sedimentation Study Report Wildlife Quarterly Reports Data Reports Aquatic Systems Reservoir Modeling Downstream Modeling	Aug. 1 Sept. 1 Dec. 1 Dec. 1 Oct. 1 Oct. 1 Oct. 1 July 30/Oct. 30 Oct. 25 Nov. 15 Nov. 15	Hayden Hayden/Subcontractor Lawrence Thompson R&M R&M R&M ADF&G U of A Dyok Dyok Dyok

<sup>\*</sup>Not completed

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# EXHIBIT E SUMMARY OF RESPONSIBILITY

		Author	Reviewer	Senior Reviewer
hapter	<u>Title</u>		J. Lawrence	C. Debelius
1	Description	M. Grubb  W. Dvok Not available?		J. Hayden
2	Water Quality	W. Dyok Net available.		AT-1 AND PERSON
- 7	Fish, Wildlife, Botanical	R. Sener(L. Moulton)	M. Grubb/K. Young	J. Hayden
3		J. Dixon	K. Young/D. Follows	J. Hayden
4	Historic and Archaeological	STATE AND ADDRESS.	M. Grubb	J. Hayden
5	Socioeconomics	P. Rogers Notgoalifed		S. Thompson
6	Geology and Soils	L. Duncan	D. W. Lamb	A
0		S. Stielstra	K. Young	J. Hayden
7	Recreation	S. Stielstra	K. Young	J. Hayden
8	Aesthetics	- V	J. Gill/C. Debelius	J. Hayden
9	Land Use	S. Stielstrald. Sullivan	J. G111/C. Debe1103	- 10
10	Alternatives	C. Debelfus/P. Hoover	J. Lawrence	G. Warnock

EXHIBIT E
CHAPTER 1 GENERAL DESCRIPTION

Responsibility	Activity	Begin	Duration	End
M. Grubb	Initial Draft	Sept 6	1 week	Sept 10
Clerical Staff	Production	Sept 13	2 days	Sept 15
J. Lawrence	Internal Review	Sept 16	3 days	Sept 20
M. Grubb	Revised Draft	Sept 21	3 days	Sept 24
Clerical Staff	Production	Sept 27	2 days	Sept 29
-	APA Review	Oct 1	1 week	Oct 8
M. Grubb C. Debelius Clerical Staff	Final Draft Final Review Final Production	Oct 12 Oct. 21 Jan 10	1 week 1 week 1 week	Oct 19 Gct. 128 Jan 15
Contractor	Printing	Jan 20	3 weeks	Feb 9
	Submit	Feb 10	1 week	Feb 15

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EXHIBIT E CHAPTER 2 WATER QUALITY

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W. Dyok	Initial Draft	0ct 1	3 weeks	-1.0
Clerical Staff	Production	Oct 25		Oct 22
A. Coniglio	Review		1 week	Nov 1
W. Dyok	National Contract of the Contr	Nov 2	1 week	Nov 9
	Revised Draft	Nov 10	2 weeks	Nov 24
Clerical Staff	Production	Nov 29	1 week	
J. Hayden	Review	Dec 7		Dec 6
	APA Review		3 days	Dec 10
W. Dyok		Dec 13	1 week	Dec 20
TOTAL STREET	Final Draft	Dec 21	1 week	Dec 28
J. Hayden	Final Review	Jan 1	1 week	
Clerical Staff	Final Production	10101110000		Jan 11
Contractor	O W	Jan 12	3 days	Jan 15
	Printing	Jan 20	3 weeks	Feb 9
	Submit	Feb 10	1 week	Feb 15

### KEY INPUTS REQUIRED/MILESTONES

Responsibility	Action	Date Position
AEIDC Staff Staff R&M R&M W. Dyok APA W. Dyok	Aquatic Systems Model Reservoir Modeling Results Downstream Modeling Results Water Quality Report Groundwater Dynamics Report Sedimentation Study Report Initial Draft Review Final Draft	Date Required  Oct 1  Oct 1/Nov 15  Oct 1/Nov 15  Oct 1  Oct 1/Nov 15  Oct 1  Oct 22  Dec 14
		Dec 28

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### EXHIBIT E CHAPTER 3 FISH, WILDLIFE, AND BOTANICAL FISHERIES ONLY

End

Oct 22

Jan 4

Jan 12

Duration

	Activities	Begin	Duration	End
Responsibility L. Moulton (WCC) Clerical Staff K. Young L. Moulton Clerical Staff K. Young	Initial Draft Production Review Revised Draft Production Review	Aug 1 Sept 27 Oct 13 Oct 25 Nov 9 Nov 22	8 weeks 2 weeks 1 week 2 weeks 1 week 1 week	Sept 24 Oct 11 Oct 20 Nov 8 Nov 16 Nov 29
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Sedimentation Study Report

Chapter 2 Draft

Review

R&M

APA

W. Dyok

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EXHIBIT E

CHAPTER 3 FISH, WILDLIFE, AND BOTANICAL

WI! IFE AND BOTANICAL SECTIONS

Responsibility	Activities	Begin	Duration	End
	Initial Draft	Sept 13	4 weeks	Oct 8
R. Sener (LGL)	Production	Oct 11	1 week	Oct 15
Clerical Staff	Review	Oct 18	1 week	Oct 22
M. Grubb	Revised Draft	Oct 25	2 weeks	Nov 8
R. Sener	Production	Nov 9	3 days	Nov 12
Clerical Staff	Review	Nov 15	1 week	Nov 19

### WORKSHOP

E 20000	Third Draft	Dec 6	1 week	Dec 10
R. Sener	Production	Dec 13	1 week	Dec 17
Clerical Staff	Third Review	Dec 20	2 weeks	Jan 4
M. Grubb	APA Review	Dec 20	2 weeks	Jan 4
	Final Draft	Jan 5	1 week	Jan 12
R. Sener	Senior Review	Jan 12	2 days	Jan 14
J. Hayden	Final Production	Jan 17	4 days	Jan 21
Clerical Staff	Printer	Jan 22	3 weeks	Feb 9
Contract	Submit	Feb 10	1 week	Feb 15

### KEY INPUTS REQUIRED/MILESTONES

Responsibility	Action	Date Required
Responsibility ADF&G R. Sener U of A ADF&G Agencies R. Sener APA	Quarterly Reports Initial Report Data Reports Quarterly Reports Comments From Workshop Final Draft	July 30 Oct 8 Oct 25 Oct 30 Dec 3 Dec 10 Jan 4
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# EXHIBIT E CHAPTER 4 CULTURAL RESOURCES

Responsibility	Activity	Begin	Duration	End
J. Dixon (UofA)	Initial Draft	Oct 4	4 weeks	Nov 1
K. Young/ D. Follows	Review	Nov 2	3 days	Nov 5
J. Dixon	Revised Draft	Nov 8	3 weeks	Nov 29
K. Young/ D. Follows	Review	Dec 1	1 week	Dec 8
Clerical Staff	Production	Dec 10	1 week	Dec 17
(1.e)	APA Review	Dec 20	2 weeks	Jan 2
K. Young/ D. Follows	Final Draft	Jan 3	1 week	Jan 10
J. Hayden	Senior Review	Jan 11	2 days	Jan 13
Clerical Staff	Final Production	Jan 14	3 days	Jan 14
Contractor	Printing	Jan 20	3 weeks	Feb 9
-	Submit	Feb 10	1 week	Feb 15

### KEY INPUTS REQUIRED/MILESTONES

Responsibility	Action	Date Required
J. Dixon	Initial Draft	Nov 1
APA	APA Review	Jan 2
D. Follows	Final Draft	Jan 10

NOTE: Assumes Exhibit E will be based on field studies through 1981 only. Results of 1982 field season will be ready December 22 and issued as an appendix. This will permit concentration on cultural resources mitigation plan in license application.

Suggest advance start I wouth

SCHEDULE SHEET 2. Cf. - O. -CHLOSE No . 5700.60 GIN ALASKA POWER AUTHORITY PREPARED B. \_\_\_OA'E PROJECT SUSITIVA EXHIBIT "E"- ENVIRONMENTAL REPORT PROJECT APPROVAL JULY AUG. SEPT. NOV. DEC. JAU. OCT. WORK DESCRIPTION PACKAGE CULTURAL RESOURCES INITIAL DEAFT REVIEW REVISED DRAFT REVIEW PRODUCTION APA REVIEW FINAL DEAFT SENIOR REVIEW FINAL PRODUCTION PRINTING SUBMIT KEY INPUTS TE O'D HILESTONES MITIAL DEAFT APA REVIEW FINAL PRAFT

# EXHIBIT E CHAPTER 5 SOCIOECONOMICS

454744	Activity	Begin	Duration	End
Responsibility	Initial Draft	Oct 4	4 weeks	Nov 1
P. Rogers (FOA)	Review	Nov 3	1 week	Nov 10
M. Grubb	Revised Draft	Nov 11	1 week	Nov 18
P. Rogers	Review	Nov 22	1 week	Nov 26
M. Grubb	APA Review	Nov 29	1 week	Dec 6
7	Final Draft	Dec 8	2 weeks	Dec 22
P. Rogers	Senior Review	Dec 27	1 week	Jan 5
J. Hayden	Camera Ready Copy	Jan 10	1 week	Jan 17
P. Rogers	Printing	Jan 20	3 weeks	Feb 9
Contractor	Submit	Feb 10	1 week	Feb 13

### KEY INPUTS REQUIRED/MILESTONES

Action	Date Required
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	Dec 22
	Action Initial Draft APA Review Final Draft

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# EXHIBIT E CHAPTER 6 GEOLOGY AND SOILS

	000000000000000000000000000000000000000	Begin	Duration	End
L. Duncan Clerical Staff D. W. Lamb L. Duncan Clerical Staff L. Duncan Clerical Staff C. Duncan Clerical Staff L. Duncan	Activity Initial Draft Production Review Revised Draft Production APA Review Final Draft Final Review Final Production Printing Submit	Dec 17 Jan 5 Jan 15 Jan 20 Feb 10	3 weeks 1 week 1 week 2 weeks 1 weel: 2 weeks 1 week 1 day 4 days 3 weeks 1 week	Nov 5 Nov 12 Nov 19 Dec 6 Dec 15 Jan 3 Jan 12 Jan 14 Jan 19 Feb 9

## KEY INPUTS REQUIRED/MILESTONES

		Date Required
Responsibility	Document	Nov 5
L. Duncan	Initial Draft 1982 Field Season Results	As Available
Staff		Jan 3
APA	APA Review Final Draft	Jan 12
L. Duncan	Final Diese	

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SCHEDULE SHEET

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PROJECT SHEIT B' ENVIRONMENTAL REPORT

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PREJECT APPROVAL DATE

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### EXHIBIT E CHAPTER 7 RECREATION

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# KEY INPUTS REQUIRED/MILESTONES

Responsibility		
S. Stielstra	Action	
ADA	Initial Draft	Date Required
S. Stielstra Winder	40.4	Oct 4
Attenda	Final Draft	Dec 6
		Dec 14

Esticit agency comment on current draft as soon as

CL.	MANUEL SUSTINA EXHIBIT "E"-ENVIRONMENTAL REPORT							PROJECT APPROVALDATE				
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# EXHIBIT E CHAPTER 8 AESTHETICS

Responsibility	Activities	Begin	Duration	End
? CS. Stielstra (HP)	Initial Draft	Gct 1	3 weeks	Oct 22
Clerical Staff	Production	Oct 25	1 week	Oct 29
K. Young	Review	Nov 1	1 week	Nov 5
S. Stielstra	Revised Draft	Nov 8	1 week	Nov 12
Clerical Staff	Production	Nov 15	1 week	Nov 19
K. Young	Review	Nov 22	3 days	Nov 25
-	APA Review	Nov 29	2 weeks	Dec 13
S. Stielstra	Final Draft	Dec 13	1 week	Dec 20
J. Hayden	Senior Review	Dec 20	2 days	Dec 22
Clerical Staff	Final Production	Dec 27	1 week	Jan 3
Contract	Printing	Jan 20	3 weeks	Feb 9
-	Submit	Feb 10	1 week	Feb 15

### KEY INPUTS REQUIRED/MILESTONES

Responsibility	Action	Date Required
S. Stielstra	Initial Draft	Oct 22
APA Moder	APA Review	Dec 13
S. Stielstra	Final Draft	Dec 20

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### EXHIBIT E CHAPTER 9 LAND USE

Responsibility	Activities	Begin	Duration	End
Clerical Staff  J. Gill  S. Stielstra  Clerical Staff	Initial Draft Production Review Revised Draft Production	Oct 18 Nov 9 Nov 15 Nov 22 Dec 7	3 weeks 4 days 1 week 2 weeks 3 days	Nov 8 Nov 12 Nov 19 Dec 6 Dec 10
C. Debelius  S. Stielstra  J. Hayden  Clerical Staff  Contractor	Review  APA Review  Final Draft  Final Review  Final Production  Printing	Dec 13 Dec 17 Jan 3 Jan 10 Jan 17 Jan 20	2 days 2 weeks 1 week 2 days 3 days	Dec 15 Dec 31 Jan 7 Jan 12 Jan 20
	Submit	Feb 10	3 weeks 1 week	Feb 9 Feb 15

### KEY INPUTS REQUIRED/MILESTONES

Responsibility	Action	Date Required
J. Sullivan (LUS)	Exhibit G Input	Oct 18
S. Stielstra Junden	Initial Draft	Nov 8
APA	Initial Review	Dec 31
(S. Stielstra	Final Draft	Jan 7

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# EXHIBIT E CHAPTER 10 ALTERNATIVES

Responsibility	Activity	Begin	Duration	End
C. Debelius/ P. Hoover	Initial Draft	Sept 6	4 weeks	Oct 1
Clerical Staff	Production	Oct 4	1 week	Oct 8
J. Hayden	Review	Oct 10	4 days	Oct 15
C. Debelius/ P. Hoover	Revised Draft	Oct 16	2 weeks	Oct 30
Clerical Staff	Production	Nov 1	1 week	Nov 8
J. Lawrence	Review	Nov 10	1 week	Nov 17
1.5	APA Review	Nov 22	2 weeks	Dec 6
C. Debelius/ P. Hoover	Final Draft	Dec 8	1 week	Dec 15
G. Warnock	Final Review	Dec 20	2 weeks	Jan 3
Clerical Staff	Final Production	Jan 4	1 week	Jan 11
Contractor	Printing	Jan 20	3 weeks	Feb 9
14	Submit	Feb 10	1 week	Feb 15

### KEY INPUTS REQUIRED/MILESTONES

Responsibility	Document	Date Required
C. Debelius/ P. Hoover	Initial Draft	Oct 1
APA	Review	Dec 6
D. Debelius/ P. Hoover	Final Draft	Dec 5

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#### EXHIBIT A & B

#### DESCRIPTION OF THE PROJECT PROJECT OPERATION

Input Responsibility	Activity	Begin	Duration	End
Columbia Staff	Initial Draft	July 1	5 weeks	Aug. 6
Columbia Clerical Staff	Production/Typing & Drafting	Aug. 6	1 week	Aug. 13
Buffalo Project Staff	Address Deficiencies/Revise.	Aug. 16	3 weeks	Sept. 3
Sr. Acres Staff	Internal Review*	Sept. 7	1 week	Sept. 10
Col/Buff Clerical	Finalize Draft/Repro	Sept. 10	1 week	Sept. 17
	Send to APA	Sept. 17	-	-
	APA Review	Sept. 20	4 weeks	Oct. 20
Anch/Buffalo Staff	Incorporate Project Changes** Finalize Draft FERC Draft Submission FERC Review Float	Oct. 10 Nov. 1 Nov. 10 Nov. 15 Dec. 15	3 weeks 1½ weeks - 4½ weeks 2½ weeks	Oct. 30 Nov. 10 Dec. 15 Jan. 1
Columbia Staff	Incorporate FERC Comments	Jan. 1	15 weeks	Jan. 10
Buffalo Staff Contractor	Finalize Production Printing Submit	Jan. 10 Jan. 20 Feb. 10	1½ weeks 3 weeks 1 week	Jan. 20 Feb. 9 Feb. 15

Key Milestones		Overall Responsibility
Initial Draft Production	Aug. 13	Hoover
Internal Review Copy	Sept. 3	Lawrence
APA Submittal	Sept. 17	Lawrence
Submit FERC Draft	Nov. 10	Marchan Langueuce
Complete/Finaline Prod.	Jan. 20	Lawrence

\*Internal Review

Critical Issues for Completion	Critical	Issues	for	Completion
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A. Access Transmission Route - Oct. 10 B. Project Operation Scheme

C. Intake Structures

Debelfus. Willett

<sup>\*\*</sup> Resulting from field investigations/design revisions/APA comments

	Compile Rough Draft Columbia	Revision and Design Changes	Internal Review
XHIBIT A - WATANA	1		
. Project Structure	-		
- Main Dam		R. Miller	D. Lamb
- Outlet Facility/Diversion		R. Ibbotson	
- Main Spillway			
- Emergency Spillway		'	
- Power Intake		M. Dumont	
- Penstock	26	'	J. Lawrence
- Powerhouse	Pardo Pardo	'	
- Tailrace		'	
- Access Roads	- in	J. Plummer	
Reservoir Data		G. Kirshnan	A. Coniglia
Turbines and Generators	Review:	P. Rodrique	J. Sinclair
Transmission Lines	200	R. Sarofim	E. Shadeed
Appurtenant Equipment			
- Misc. Mechanical Equipment		P. Rodrique	J. Sinclair
- Accessory Electrical Equipment		L. Pereira	A. Jex
- Switchyard Structures and Equip.		L. Pereira	A. Jex
Project Lands	+	J. G111	J. Hayden

	Compile Rough Draft Columbia	Revisions and Design Changes	Internal Review
EXHIBIT A (Continued) DEVIL CANYON			
7. Project Structure			
- General Arrangement		R. Ibbotson	J. Lawrence
- Arch Dam		"	H. Gichembaum
- Saddle Dam	Name and Additional Property of the	R. Miller	O. Lamb
- Primary Out (et		R. Ibbotson	
- Main Spillway		"	
- Emergency Spillway		"	
- Devil Canyon Power Facilities		M. Dumont	J. Lawrence
- Penstocks	5	"	
- Powerhouse and Related Structures	Rudy	"	
- Tailrace Tunnel	20	"	
- Access Roads	Ι Ξ	J. Plummer	
. Devil Canyon Reservoir	d.	G. Krishnan	A. Coniglio
. Turbines and Generators	Prepare: Review:	P. Rodrique	J. Sinclair
O. Transmission Lines	Rev	R. Sarofim	E. Shadeed
1. Appurtenant Equipment			
- Misc. Mechanical Equipment		P. Rodrique	J. Sinclair
- Accessory Electrical Equipment		L. Pereira	A. Jex
- Switchyard Structures and Equip.		L. Pereira	A. Jex
2. Project Lands		J. 6111	J. Hayden

		Compile Rough Draft Columbia	Revisions and Design Changes	Internal Review
XH	IBIT B			
	Energy Resource Alternatives	-	1	K WOY-FF
	- Railbelt System and Future Alternative - Susitna Basin Alternatives		P. Hoover	D. Willett
	Alternative Facility Design			
	- Watana Project Formulation		1	1.100000
	- Watana Scheme Development		R. Ibbotson	J. Lawrence
	- Devil Canyon Project Formulation - Devil Canyon Scheme Development		-	
	- Devil Callyon Scheme Development	Rudy	1	
	State of Project Operation	HO M	D. Crawford	J. Hayden
	The state of the s	si d		
	Energy Production and Supporting Info	- Table		
	- Basin Hydrology - Reservoir Data	9 ::	1	
	- Operating Capability of Susitna Units	Prepare Review	D. Crawford	
	- Tailwater Rating	2 2		
	- Powerplant Capability			
	Shakarash of Davies Hoods and Hoo			
	Statement of Power Needs and Use - Railbelt Load Forecasts		1	
	- Rate Programs	-	P. Hoover	C. Debellus
	- Sale of Power			
	Future Susitna Basin Development	1	G. Kirshnan	"

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CHERGE NO P.5700.60

GENT ALASKA TOWER AUTHORITY

MOJEC SUSITING EXHIBIT A

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# EXHIBIT C CONSTRUCTION SCHEDULE

Input Responsibility	Activity	Begin	Duration	End
Columbia Staff	Prepare Initial Draft	July 1	2 weeks	July 15
Buffalo Staff	Address Deficiencies/Revise	Aug. 1	2 weeks	Aug. 10
Sr. Acres Staff	Internal Review*	Aug. 11	1 week	Aug. 18
Buffalo Staff	Finalize/Typing & Draft APA Submittal	Aug. 19 Sept. 1	1 week	Aug. 26
	APA Review	Sept. 1	2 weeks	Sept. 15
Anch/Buff Staff	Incorporate Project changes** FERC Draft Submission	Sept. 15 Nov. 10	8 weeks	Nov. 10
	FERC Review	Nov. 15	4 weeks	Dec. 15
Buffalo Staff	Incorporate FERC Comments	Jan. 1	14 weeks	Jan. 10
Buffalo Staff Contractor	Finalize Production Print Submit	Jan. 10 Jan. 20 Feb. 10	14 weeks 3 weeks 1 week	Jan. 20 Feb. 9 Feb. 15
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Key Milestones		Responsibility
Initial Draft Production Internal Review Copy APA Submittal FERC Draft Submittal	July 15 Aug. 10 Sept. 1 Nov. 10	Rives Plummer Lawrence Plummer
Complete/Finalize Prod.	Jan. 20	Lawrence

## Critical Issues for Completion

A. Access Route Schedule

#### \*Internal Review

MacDonald Vanderburgh

<sup>\*\*</sup> Resulting from field investigations/design revisions/APA Comments

	Compile Rough Draft	Incorporate Addendum	Review 1st Draft
	Columbia		
EXHIBIT C - CONSTRUCTION SCHEDULE	ives		
- Text	~ <del>~</del>	J. Plumner	M. Vanderburgh
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#### EXHIBIT D

#### PROJECT COSTS AND FINANCING

Input Responsibility	Acitivity	Begin	Duration	End
Columbia Staff	Initial Draft	July 26	4 weeks	Aug. 20
Col. Cler. Staff	Production/Typing & Drafting	Aug. 20	1 week	Aug. 25
Buff/Toronto Staff	Address Deficiencies/Revise	Aug. 20	3 weeks	Sept. 10
Sr. Acres Staff	Internal Review*	Sept. 10	1 week	Sept. 17
Buff. Cler. Staff	Finalize Draft/Repro.	Sept. 20	1 week	Sept. 24
-	MPA Submittal	Sept. 27	•	·
	APA Review	Sept. 27	4 weeks	Oct. 22
Anch/Buff Staff	Incorporate Project Changes**	Sept. 27	6 weeks	Nov. 5
Col. Cler. Staff	Incorporate Final Changes Finalize Draft FERC Draft Submission FERC Review	Nov. 8 Nov. 15 Nov. 22 Nov. 22	1 week 1 week - 4 weeks	Nov. 15 Nov. 22 Dec. 20
Columbia Staff	Incorporate FERC Comments	Jan. 1	15 weeks	Jan. 10
Buff. Cler. Staff Contractor	Finalize Production Printing Submit	Jan. 10 Jan. 20 Feb. 10	15 weeks 3 weeks 1 week	Jan. 20 Feb. 9 Feb. 15
Key Milestones		Overal'	1	

Key Milestones		Overall Responsibility
Initial Draft Production Internal Review Copy (APA Submittal	Aug. 25 Sept. 10 Sept. 27	Hoover Debelfus
Submit FERC Draft Complete/Finalize Prod.	Nov. 22 Jan. 20	Warnock Debelius Lawrence

## Critical Issues for Completion

A. Financing Plan Finalization B. Project Operation Changes

### \*Internal Review

Milne Vanderburgh Warnock

<sup>\*\*</sup> Resulting from field investigations/design revisions/APA Comments

	Compile	1	11 201
EXHIBIT D - COSTS AND FINANCING	Rough Draft Columbia	Revisions and Design Changes	Internal Rweview
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- Statement of Cost Estimates	Hobver	1	
- COSC OF Financing	200	J. Plummer	I. Milne
- Value of Project Power - Other Electric Alternatives	ĬĎ.	C. Debelius	G. Warnock
- Consequences of Denial of Application	0.0	"	"

SCHEDULE SHEET

CHARGE No. P.5700.50

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PROJECT APPROVAL

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# EXHIBIT F GENERAL DESIGN DRAWINGS

11.27.6	Activity	Begin	Duration	End
Input Responsibility Columbia Staff	Prepare Drawings List with Changes	Aug. 9	1 week	Aug. 13
Buff Drafting Staff	Update Dwgs & Formats with transmission/access info	Aug. 13	1 month	Sept. 13
Sr. Acres Staff	Correct Deficiencies Internal Review* Submit to APA APA Review	Sept. 13 Sept. 20 Sept. 28 Sept. 28	1 week 1 week 2 weeks	Sept. 17 Sept. 24 Oct. 10
Buffalo Staff	Incorporate Changes	Oct. 10	3 weeks	Oct. 29
Buffalo Staff	FERC Submittal FERC Review Incorporation of FERC Comments and other design changes	Nov. 10 Nov. 15 Dec. 8	34 weeks 44 weeks	Dec. 8 Jan. 8
Contractor	Printing Submit	Jan. 8 Feb. 10	3 weeks 1 week	Jan. 29 Feb. 15

Key Milestones		Overall Responsibility
Completion of Drawings	Sept. 13	Giusiana
Internal review copies	Sept. 20	Numont
Submit to APA	Sept. 28	Gill
Submit draft to FERC	Nov. 10	Lawrence
Complete/Finalize Prod.	Jan. 8	Lawrence

## Critical Issues for Completion

A. Site Access B. Transmission

C. Final Project Changes

### \*Internal Review

M. Vanderburgh H. Eichenbaum

6. Thomson

EXHIBIT F
SUPPORTING DESIGN REPORT

	Activity	Begin	Duration	End
Input Responsibility Columbia Staff	Review of Existing Material	July 26	1 week	July 30
Columbia acaii	Develop Reference List	Aug. 1	1 week	Aug. 8
	Provide "Front End" Report	Aug. 9	4 weeks	Sept. 3
Col/Buff Staff	Initial Production	Sept. 6	1 week	Sept. 10
Col. Cler. Staff	Internal Review*	Sept. 13	3 weeks	Oct. 1
Sr. Acres Staff Anch/Buff Staff	Finalize Draft/Repro. Send to APA APA Review Incorporate Changes**	Oct. 4 Oct. 11 Oct. 11 Nov. 15	1 week - 4½ weeks 7 weeks	Oct. 11 Nov. 12 Jan. 4
Buff Cler. Staff Contractor	Correct/Finalize References Printing Submit	Jan. 4 Jan. 13 Feb. 10	15 weeks 3 weeks 1 week	Jan. 13 Feb. 2 Feb. 15

Key Milestones		Overall Responsibility
Initial Production	Sept. 10	Hoover
Submit to APA	Oct. 11	Gill
Complete/Finalize Prod.	Jan. 13	Lawrence

Note: No draft will be submitted to FERC

Critical Issues for Completion	*Internal Review
A. Site Access B. Final Project Changes	D. Willett G. Thomson H. Eichenbaum D. MacDonald

<sup>\*\*</sup> Resulting from field investigations/design revisions/APA Comments

	Compile Rough Draft Columbia	Incorporate Addendum	Review 1st D.aft
EXHIBIT F -			
- Design Report			
- Logs, Geologic Reports, Lab asts - Borrow and Quarry Sites, Materials		} L. Duncan	} S. Thompson
- Stability and Stress Analysis for Structures and Slopes	H H H H H H H H H H H H H H H H H H H	N. Bond	J. Gill
- Basis for Seismic Loading	200	J. G111	H. Eichenbaum
- Basis for Design Flood		G. Krishnan	A. Coniglio
Design Drawings	vi a		
- Format		J. Guistana	M. Vanderburgh
- Civil		M. Dumont	5. Thomson
- Electrical		L. Pereira	A. Jex
- Mechanical		R. Rodrique	J. Sinclair

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## EXHIBIT G PROJECT MAPS

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Input Responsibility	Activity	Begin	Duration	End
Columbia Staff	Review of existing Mat'l from R&M	July 26	2 weeks	Aug. E
Subcontractor	Production of First Draft	Aug. 6	1 month	Sept. 3
Buff/Anch Staff	Internal review*	Sept. 6	14 weeks	Sept. 15
Subcontractor	Revisions	Sept. 15	2 weeks	Sept. 30
	Submit to APA	Oct. 1	-	-
Buffalo Staff	APA Review Revise/Project Changes Submit to FERC FERC Review	Oct. 4 Oct. 18 Nov. 1 Nov. 1	2 weeks 1 week - 6 week	Oct. 15 Oct. 22 Dec. 15
Buffalo Staff	Incorporation of Final Changes	Jan. 4	3 weeks	Jan. 25
	Printing	Jan. 26	2 weeks	Feb. 9
	Submit	F:5. 10	1 week	Feb. 15
Key Milestones	_	Overal Responsibi		
First Draft APA Submittal FERC Draft Complete	Sept. 3 Oct. 1 Nov. 1 Jan. 25	J. Gill J. Hayden Lawrence Lawrence		

#### \*Internal Review

J. Gill J. Hayden

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