

INTERNAL MANAGEMENT DOCUMENT

MARCH 1, 1983

HARZA-Ebasco

Susitna Joint Venture
Document Number

3534

SUSITNA Project Status Report



INTERNAL MANAGEMENT DOCUMENT

Federal Energy Regulatory Commission
— Data For Decisions

Foreword

The proposed Susitna Hydroelectric Project would be the most costly and complex hydroelectric project ever considered by the Federal Energy Regulatory Commission. The Alaska Power Authority proposes to construct, at a cost of 5.1 billion dollars (January, 1982 dollars), an 885 foot-high earthfill dam and a 645 foot-high concrete arch dam forming two reservoirs with a total surface area of 45,800 acres. Two underground powerhouses would have a total generating capacity of 1,620 MW.

Recognizing the significance of the project, the Commission has established a Project Manager to coordinate the processing of the license application. The Project Manager is the Commission's primary source of information on the progress of the Susitna Hydroelectric Project; the Susitna Project Status Report is the major vehicle for reporting that information. The Susitna Project Status Report will be updated monthly by the Project Management Team. Any comments should be directed to the Commission's Project Manager, William Wakefield at (202) 376-1909. An explanation of the logic networks can be found in Appendix C.

Table of Contents

	Page No.		Page No.
Foreword	I	Appendices	A-1
Table of Contents	II	Appendix A - Organization Chart	A-1
Project Management		Appendix B - Project Management Team: Mission and Functions	B-1
Project Manager Summary	1	Appendix C - Explanation of Logic Network	C-1
Actions Prior to Pre-Filing	2	Appendix D - Abbreviations	D-1
Pre-Filing Review Schedule	3	Appendix E - Project Description	E-1
Licensing Process	4	Appendix F - Location Map	F-1
Licensing Schedule		Appendix G - Site Arrangements	G-1
Level A	5	Appendix H - Key Personnel	H-1
Level B	6-7	Appendix I - Federal/State Permits Required	I-1
Level C	8-13	Appendix J - List of Agencies	J-1
	14-24		

Project Management

Susitna Hydroelectric Project

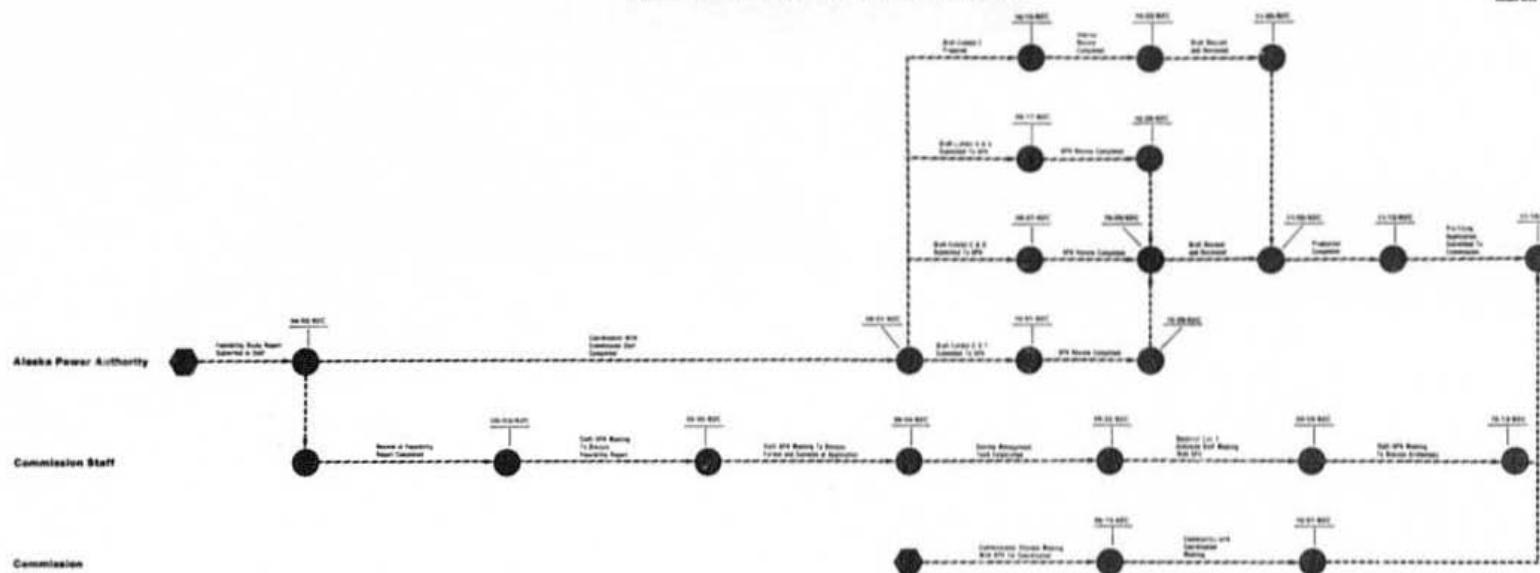
PROJECT MANAGER SUMMARY

On February 28, 1983, Governor William J. Sheffield submitted the Alaska Power Authority's application for the 1,620 MW Susitna Hydroelectric Project. Senator Ted Stevens, Senator Frank Murkowski, and Representative Don Young joined Governor Sheffield in a presentation ceremony held in Hearing Room A. Chairman Butler, Commissioner Georgiana Sheldon, Commissioner David Hughes, Commissioner Anthony Sousa, and Commissioner Rick Richard observed the filing of the application.

The application was then distributed to the Offices of Electric Power Regulation, General Counsel, and Regulatory Analysis for an adequacy review to determine if the application conforms to the Commission's regulations. The adequacy review is scheduled to be completed on April 14, 1983.

**Susitna Hydroelectric Project
ACTIONS PRIOR TO PRE-FILING**

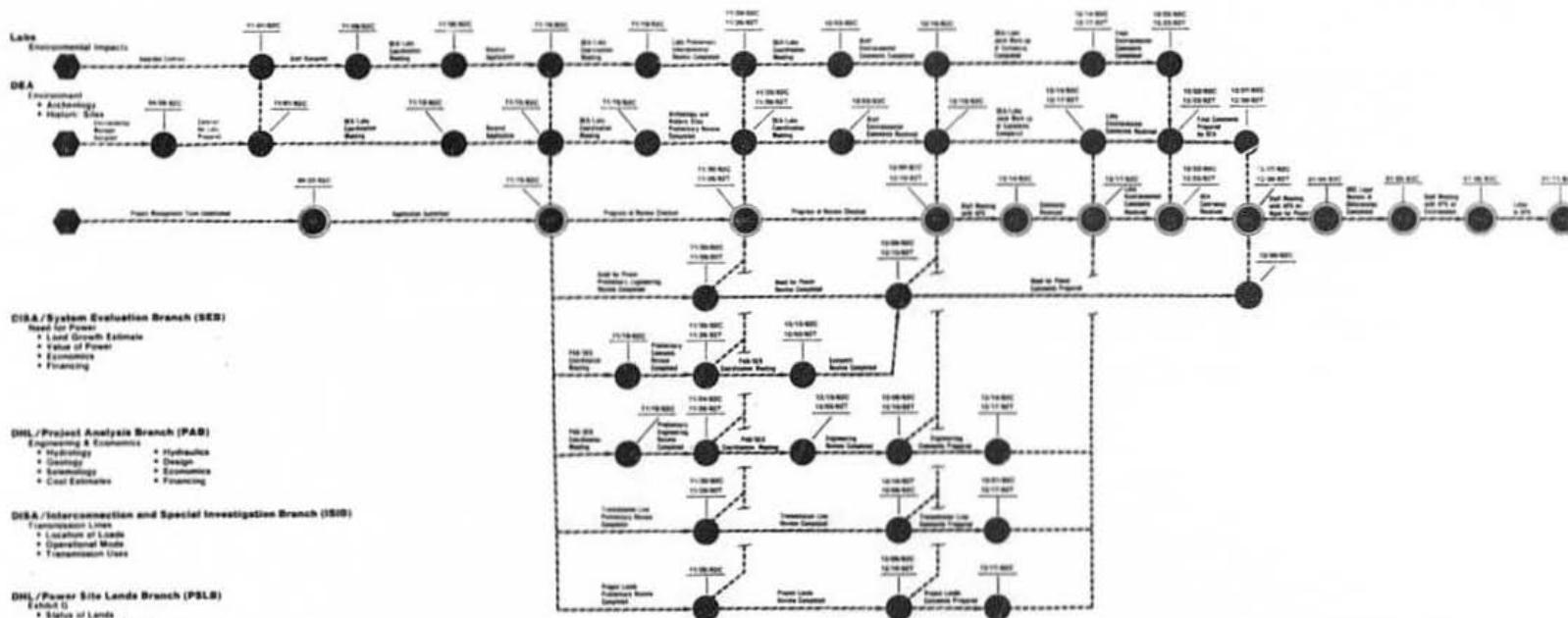
March 1, 1983



Internal Management Document

**Susitna Hydroelectric Project
PRE-FILING REVIEW SCHEDULE**

March 1, 1983



Susitna Hydroelectric Project

LICENSING PROCESS

The Federal Energy Regulatory Commission is charged with the responsibility of fostering the comprehensive development of the Nation's waterways consistent with public safety. The Susitna River is a public resource; therefore, the Commission must ensure that any hydroelectric development on the Susitna River is in the best interest of the public.

When the Susitna Hydroelectric Project license application is filed by the Alaska Power Authority (APA), the application is first reviewed by staff to ensure that it contains all the information necessary for the Commission to assess the project. When the application is deemed acceptable for processing by the Director, Office of Electric Power Regulation, the Commission initiates a public and agency comment period. Public notice in the Federal Register and in Alaskan newspapers will invite the public to comment on and participate in the licensing process. Federal, State, and local agencies are provided copies of the application and are asked to provide comments in their respective areas of expertise.

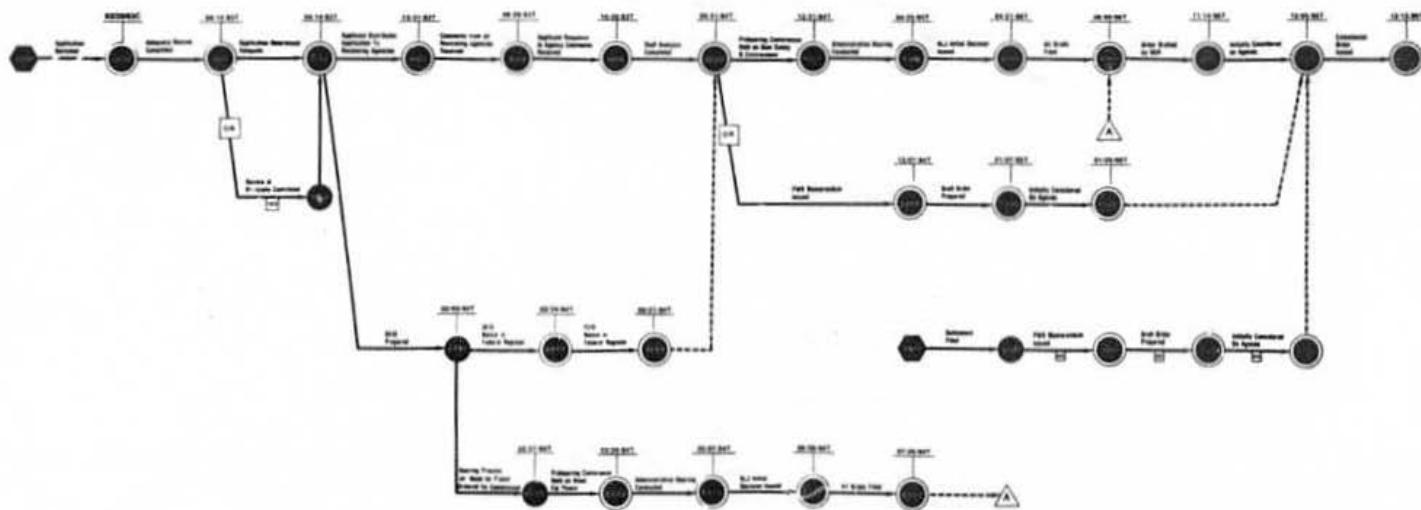
Concurrent with the public comment period, Commission staff experts initiate a three-pronged evaluation of the Susitna Project. Electrical engineers and economists will evaluate the adequacy of electrical load forecasts for Alaska and the need for Susitna Project power. Geologists and civil engineers will evaluate the integrity of project structures. A team of environmental scientists will prepare an environmental impact statement assessing the project's potential impacts on the Alaskan ecosystem. Upon completion of these analyses, the staff positions on need for power, project integrity, and environmental impacts may be subjected to the scrutiny of hearings before an administrative law judge. At these hearings, intervenors in the Susitna proceeding have the opportunity to support staff's analysis or present opposing positions. At the conclusion of the hearing, the administrative law judge prepares an opinion on the issues.

After the administrative law judge has rendered an initial decision, the five Commissioners will make the final decision on whether or not to issue the license for the Susitna Project and what conditions to attach to the license, if issued. If a hearing has been held, the Office of Opinions and Review, with guidance from the Commissioners, will prepare the license document. The Commissioners will review the entire record for the Susitna Project. In order for the APA to receive a license for the Susitna Project, the record must convince a majority of the Commissioners that the project is needed, that the structures will be safe, and that the environmental impacts of construction and operation will be adequately mitigated.

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

SUMMARY OF MAJOR MILESTONES

Level A



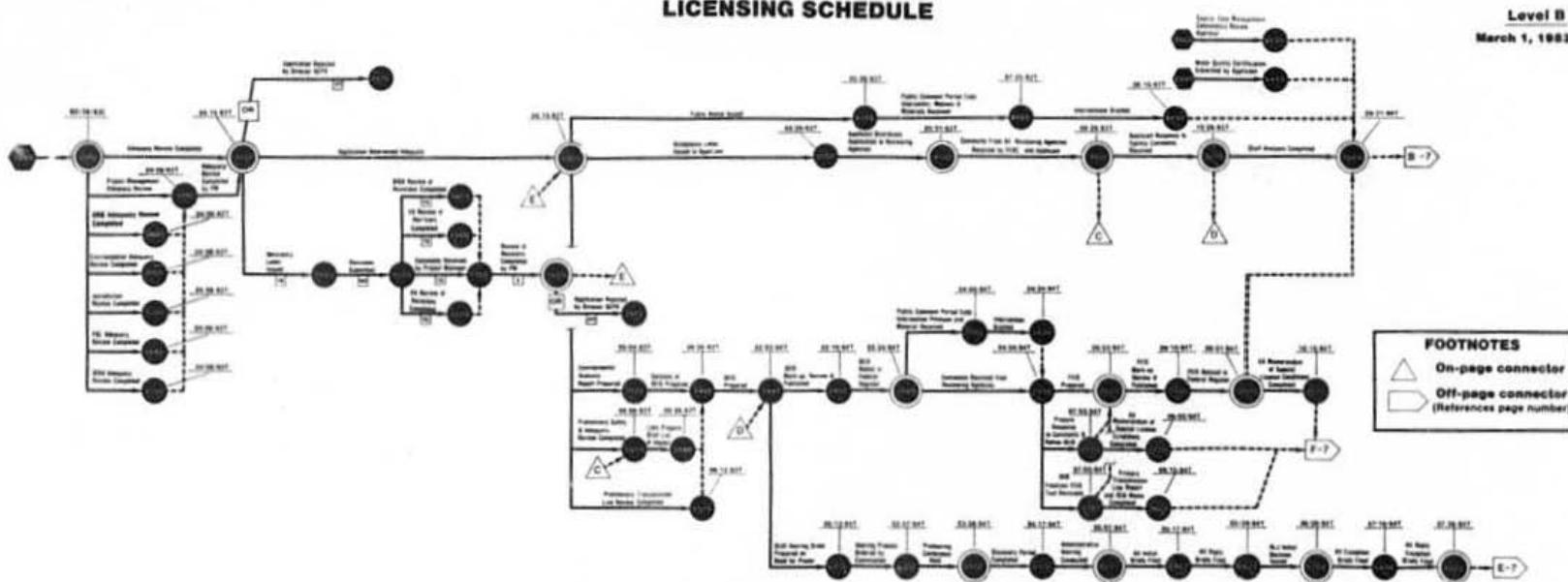
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LICENSE PROCESS

Susitna Hydroelectric Project LICENSING SCHEDULE

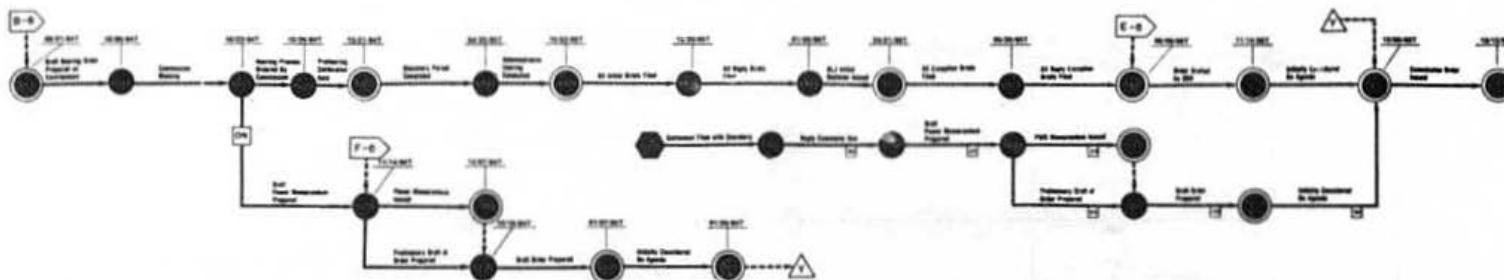
Level B
March 1, 1983



HEARING PROCESS

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

Level B
March 1, 1991



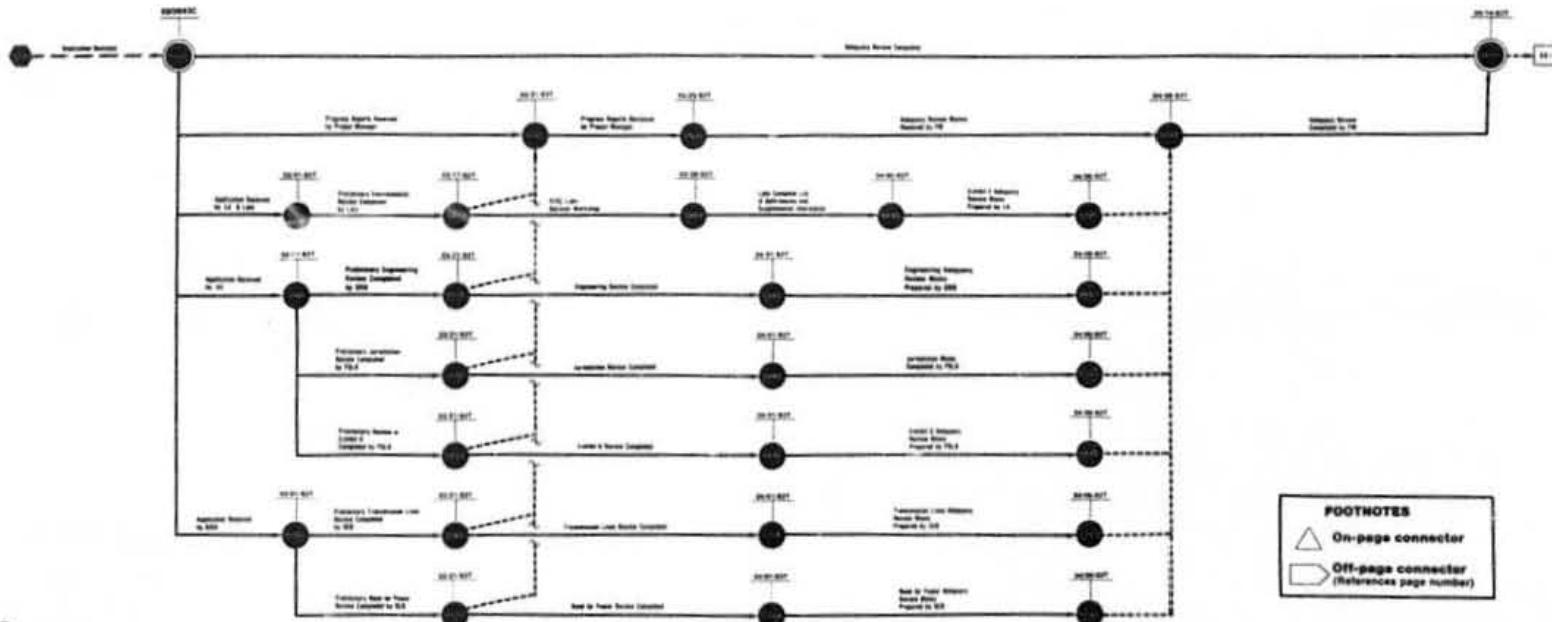
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**Susitna Hydroelectric Project
LICENSING SCHEDULE**

Level C

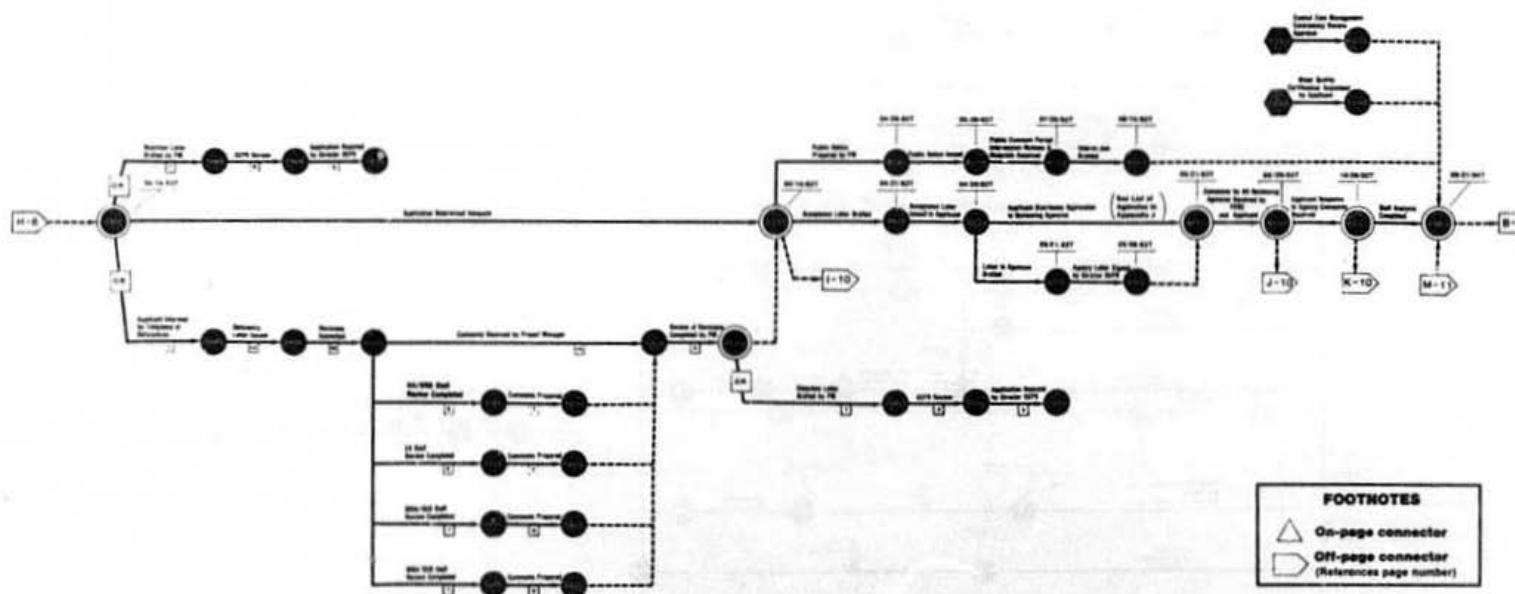
APPLICATION REVIEW



APPLICATION REVISIONS & AGENCY COMMENT PERIOD

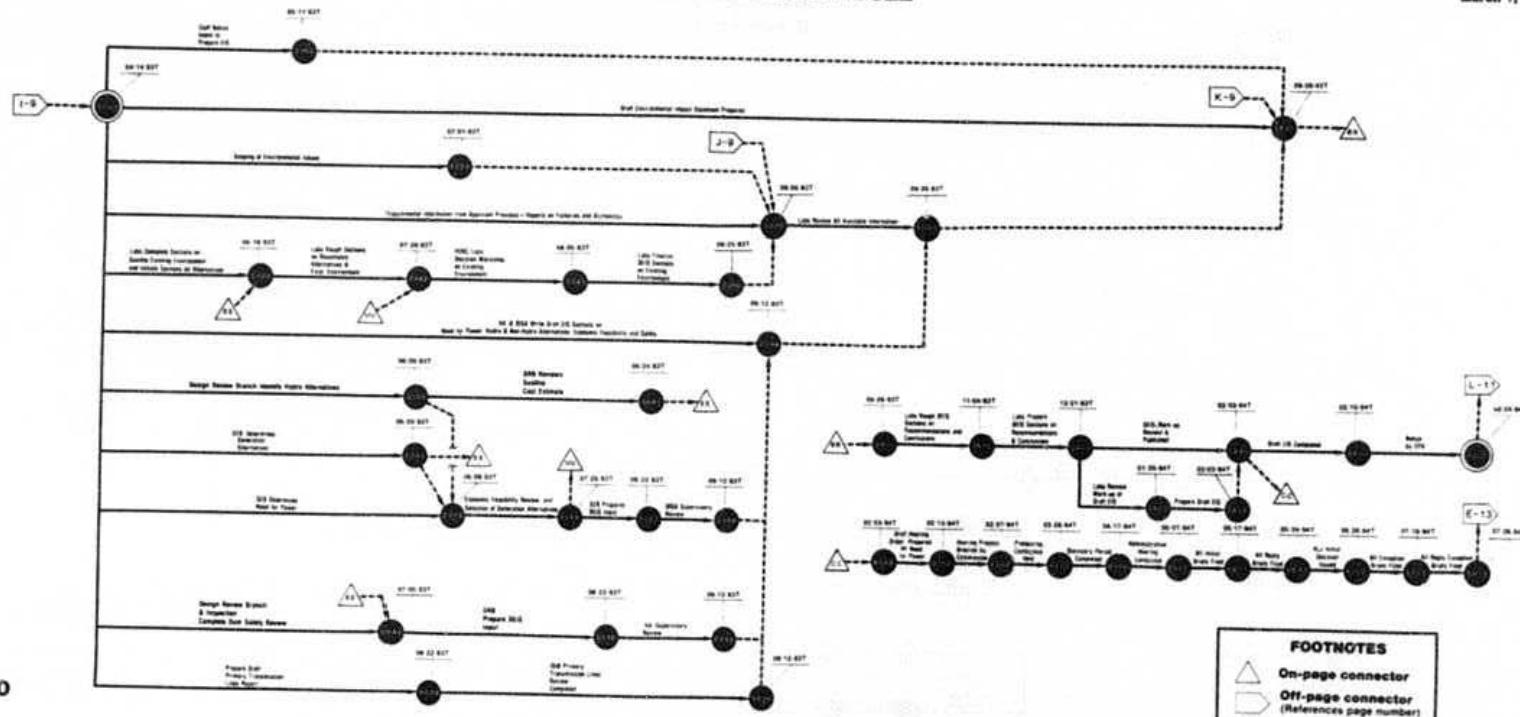
**Susitna Hydroelectric Project
LICENSING SCHEDULE**

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Susitna Hydroelectric Project
LICENSING SCHEDULE

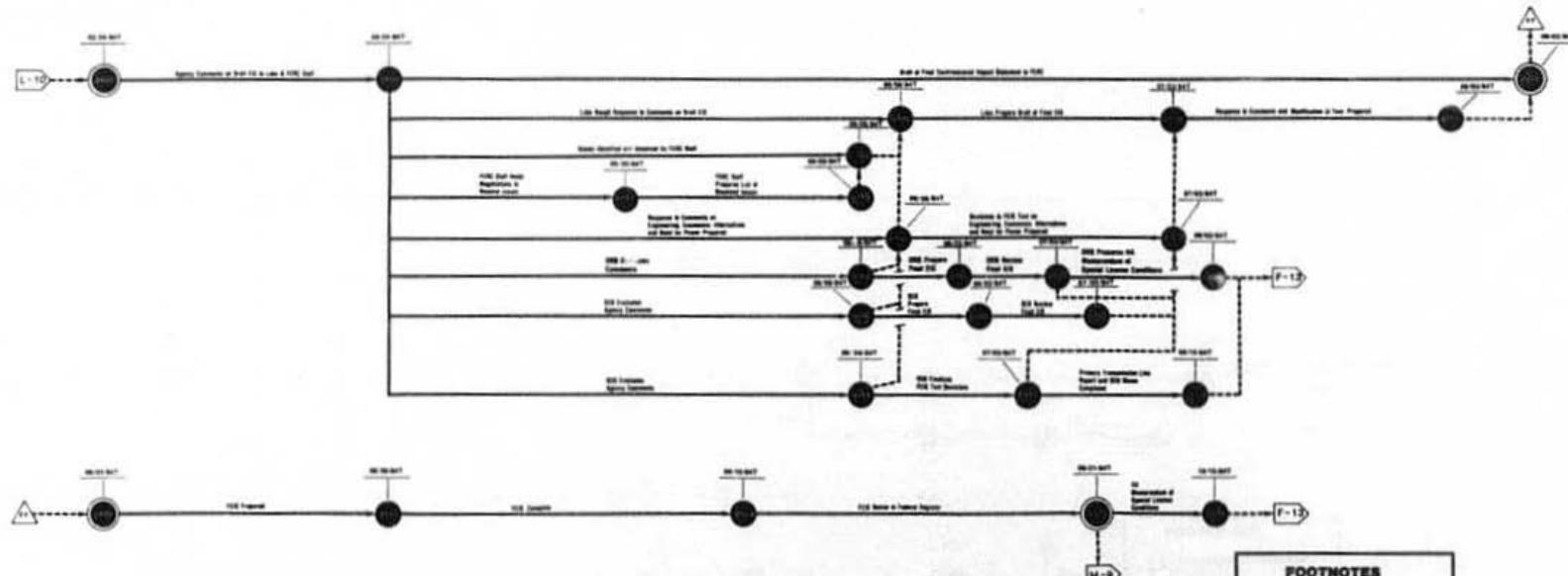
Level C
March 1, 1983



FINAL ENVIRONMENTAL IMPACT STATEMENT

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

Level C



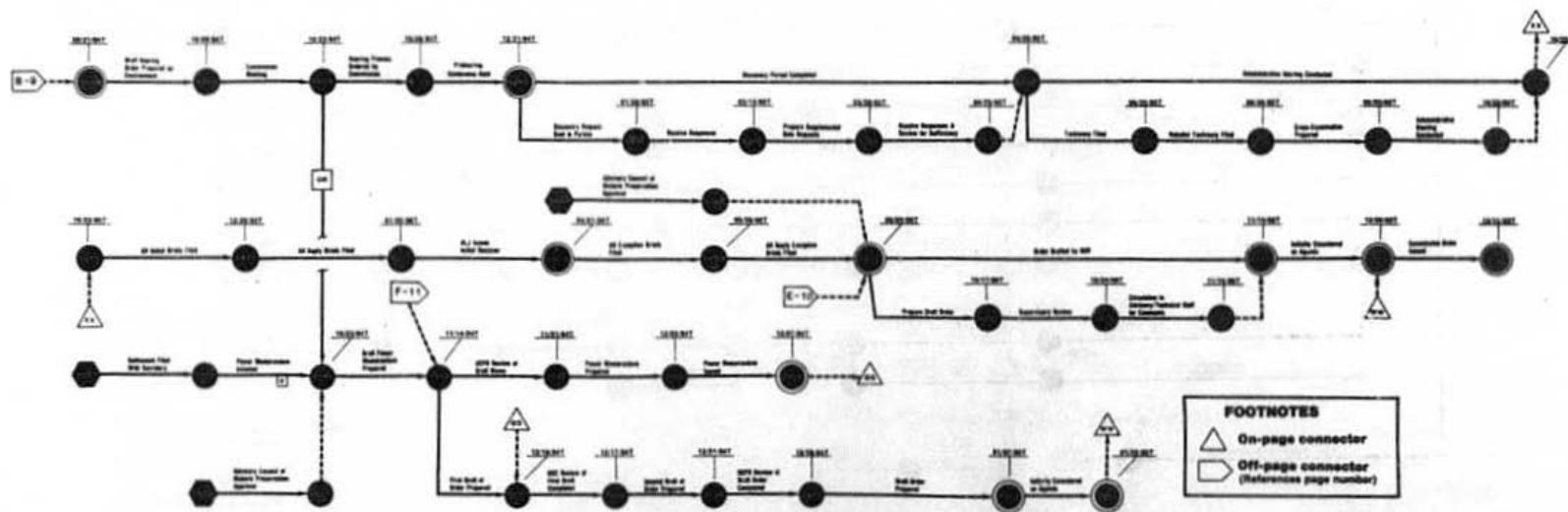
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LICENSING SCHEDULE**

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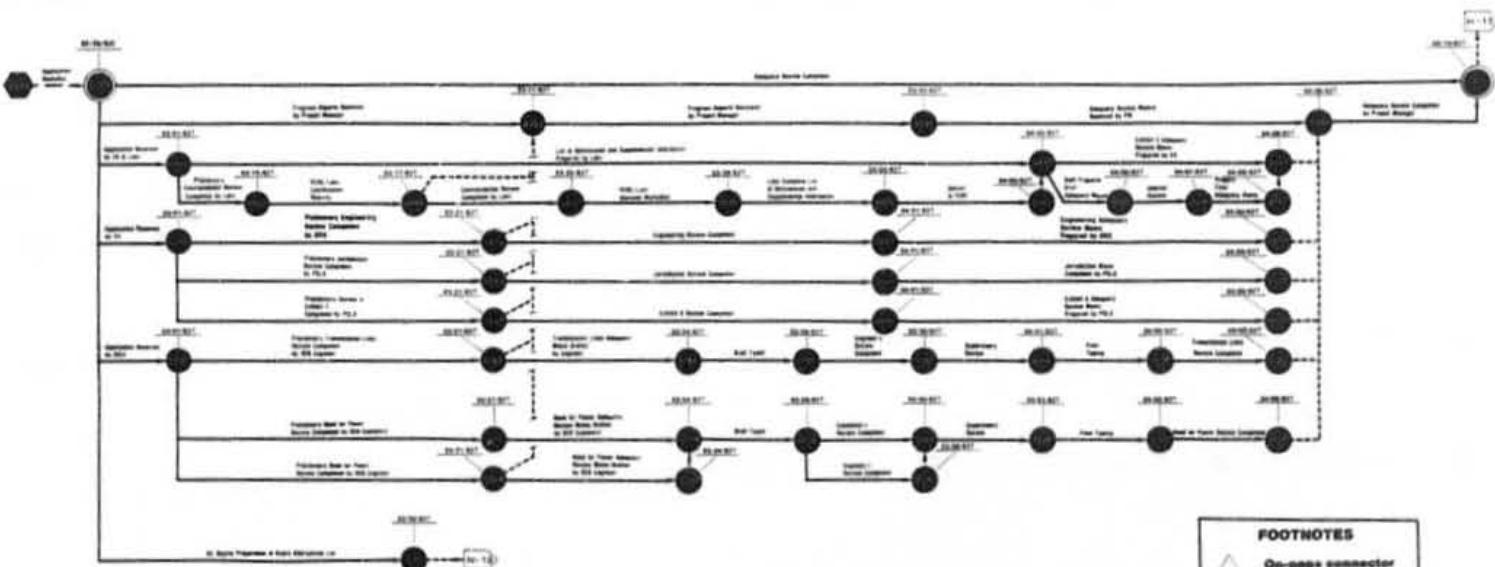
HEARING PROCESS



APPLICATION REVIEW

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

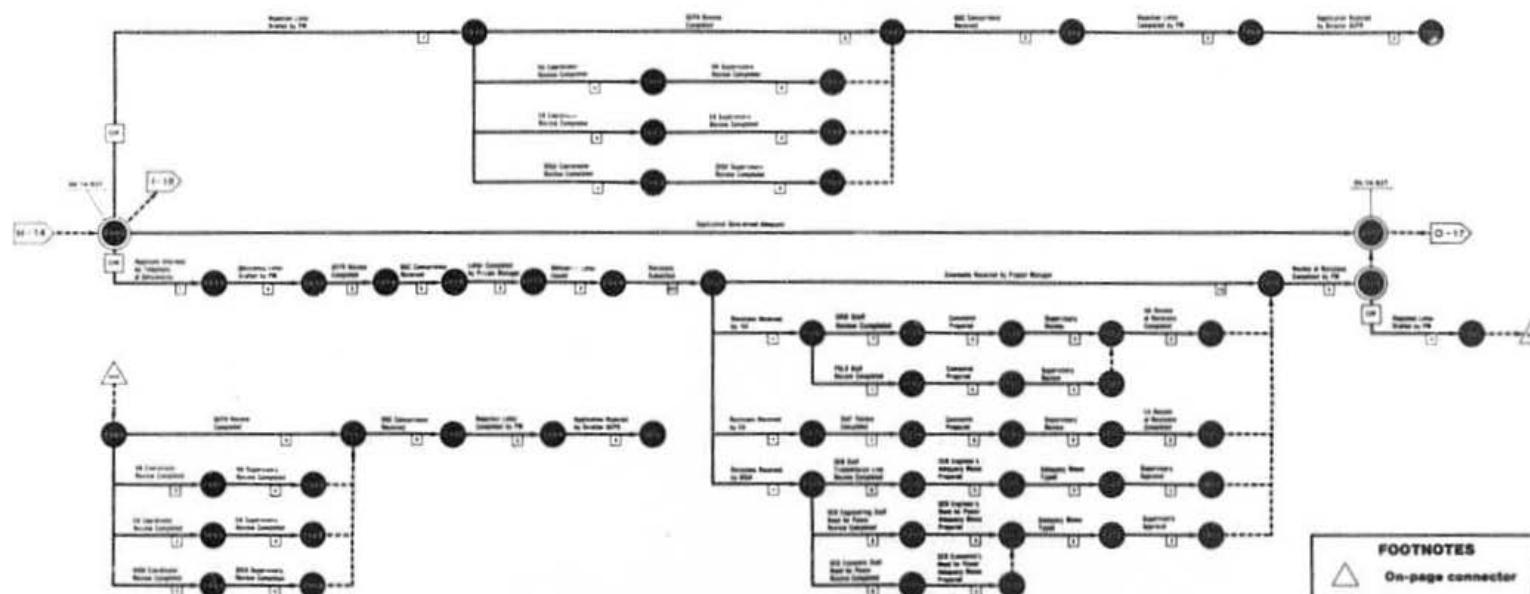
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APPLICATION REVISIONS**Susitna Hydroelectric Project
LICENSING SCHEDULE**

Level D
March 1, 1982

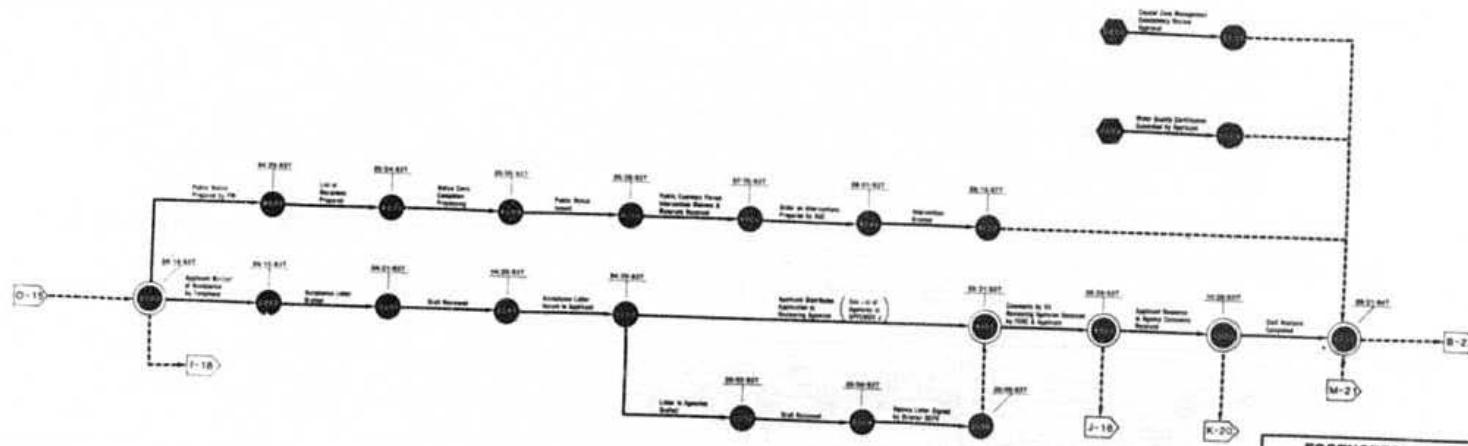


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AGENCY COMMENT PERIOD

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

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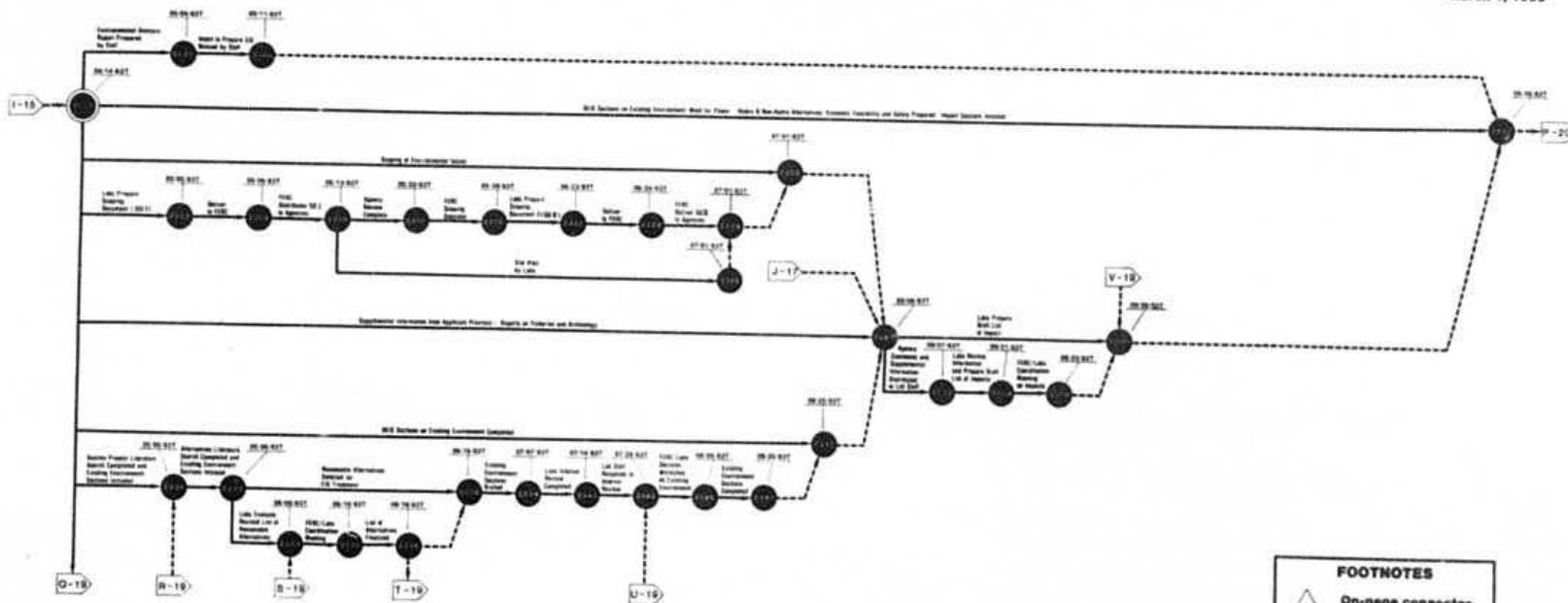
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DRAFT ENVIRONMENTAL IMPACT
STATEMENT PREPARED

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

Level D
March 1, 1983



FOOTNOTES

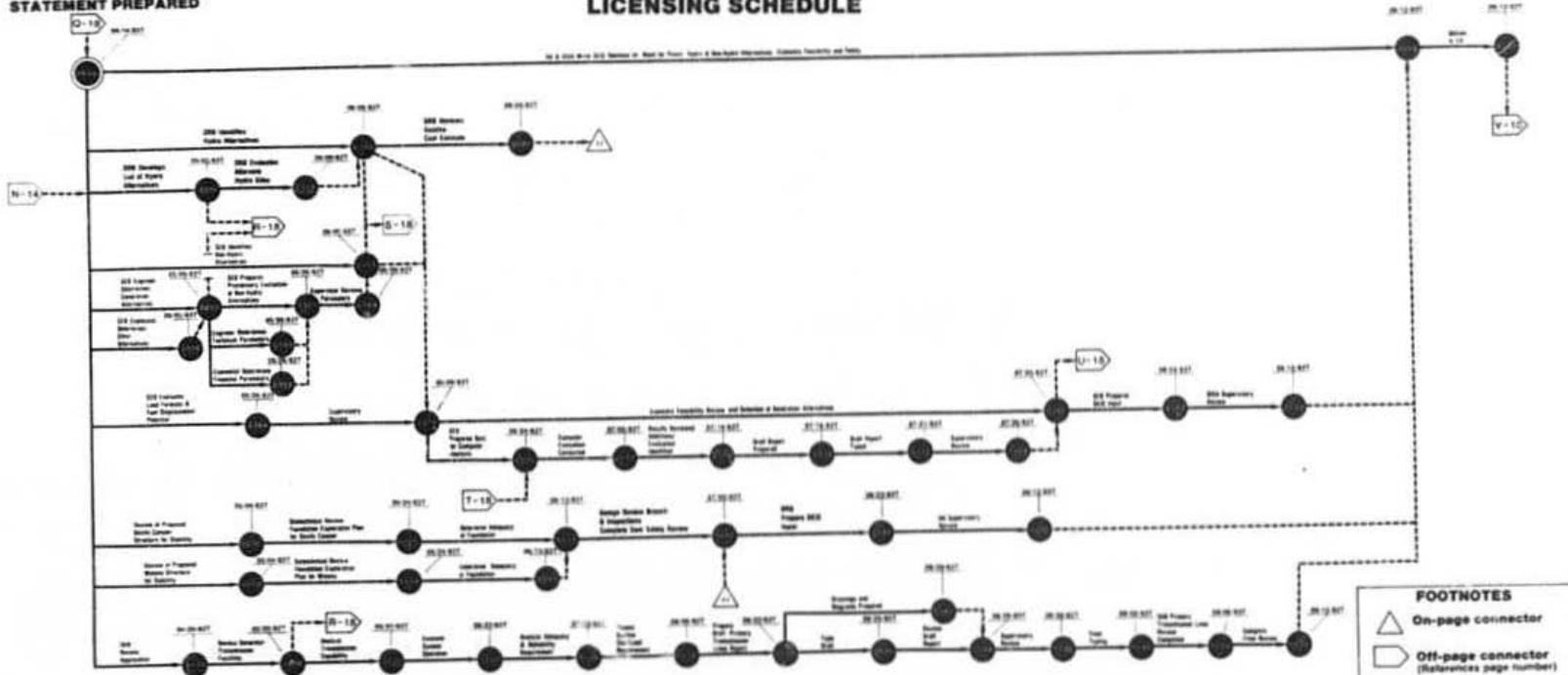
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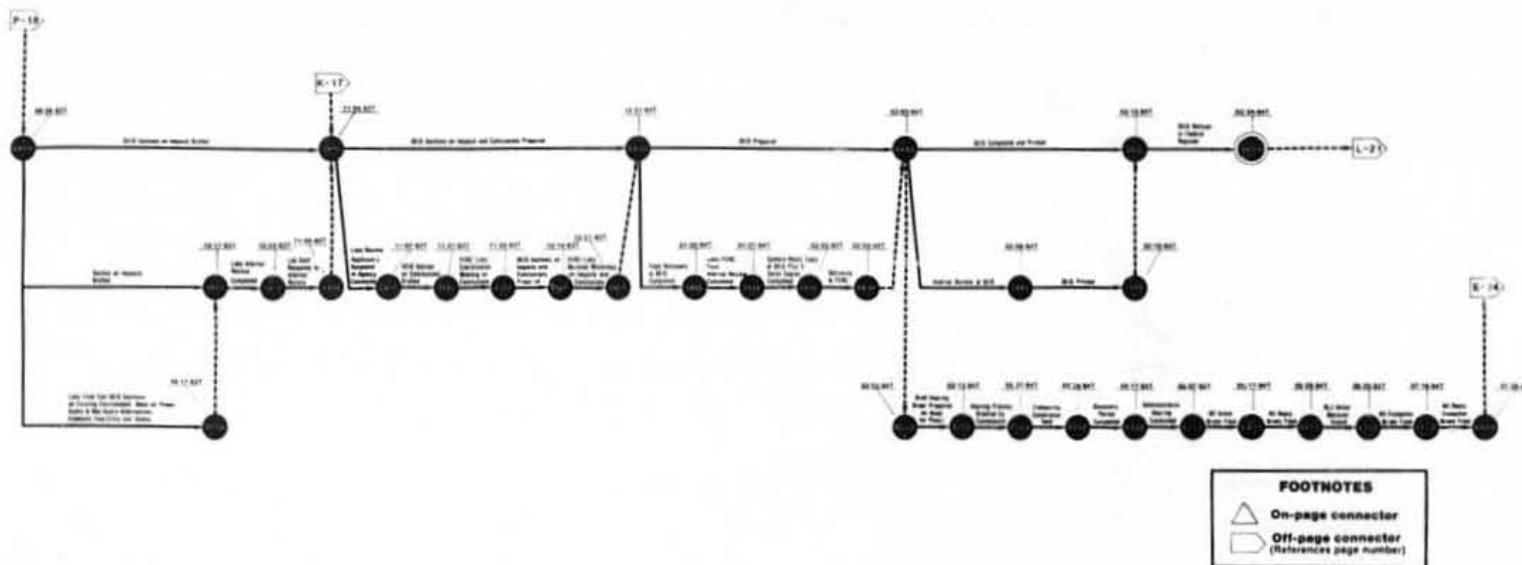
**Susitna Hydroelectric Project
LICENSING SCHEDULE**

Level D



**Susitna Hydroelectric Project
LICENSING SCHEDULE**

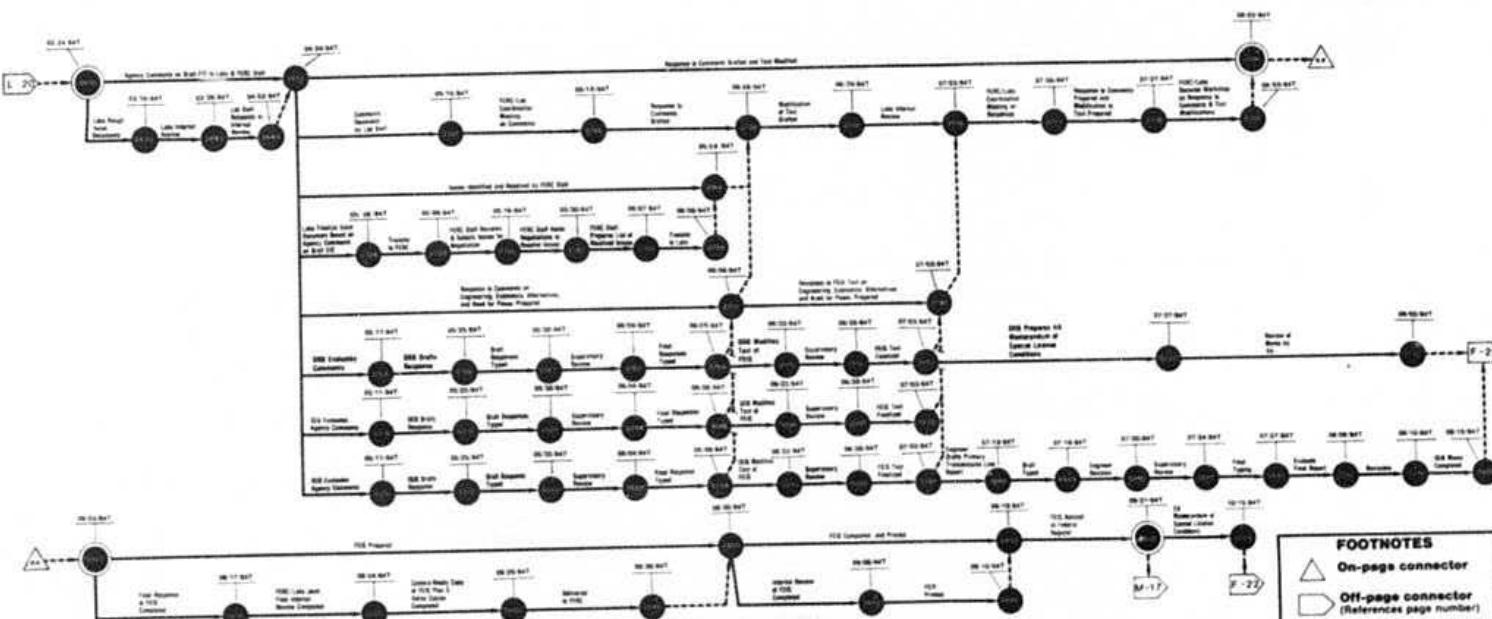
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**FINAL ENVIRONMENTAL
IMPACT STATEMENT**

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

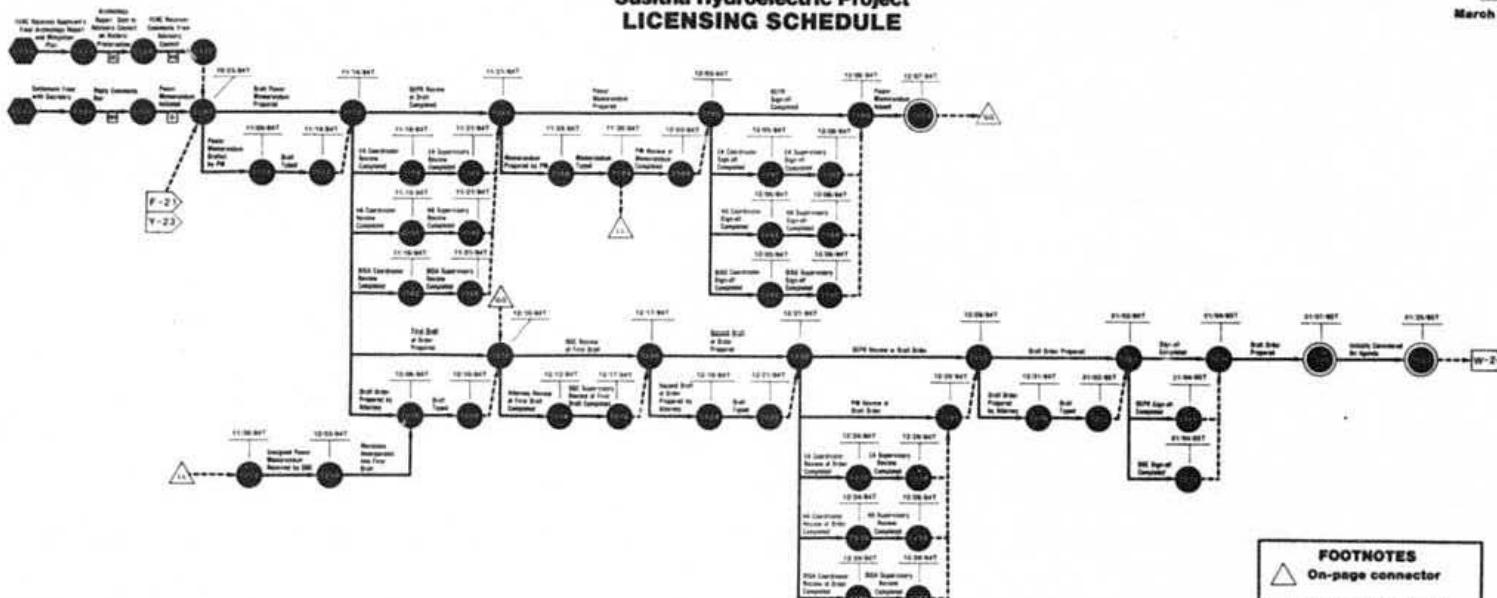
Level D
March 1, 1983



POWER MEMORANDUM

Susitna Hydroelectric Project LICENSING SCHEDULE

Level D



FOOTNOTES

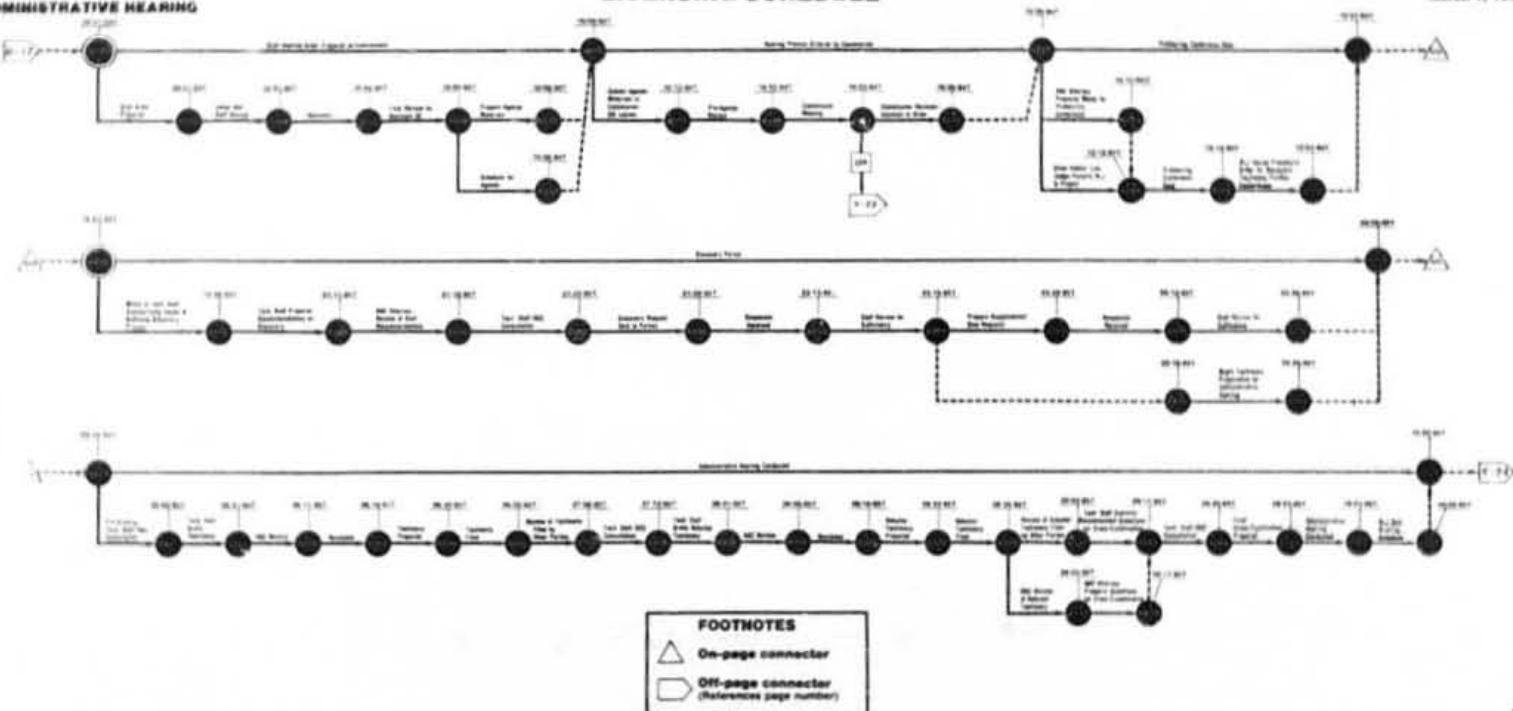
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**PREHEARING CONFERENCE,
DISCOVERY PERIOD &
ADMINISTRATIVE HEARING**

**Susitna Hydroelectric Project:
LICENSING SCHEDULE**

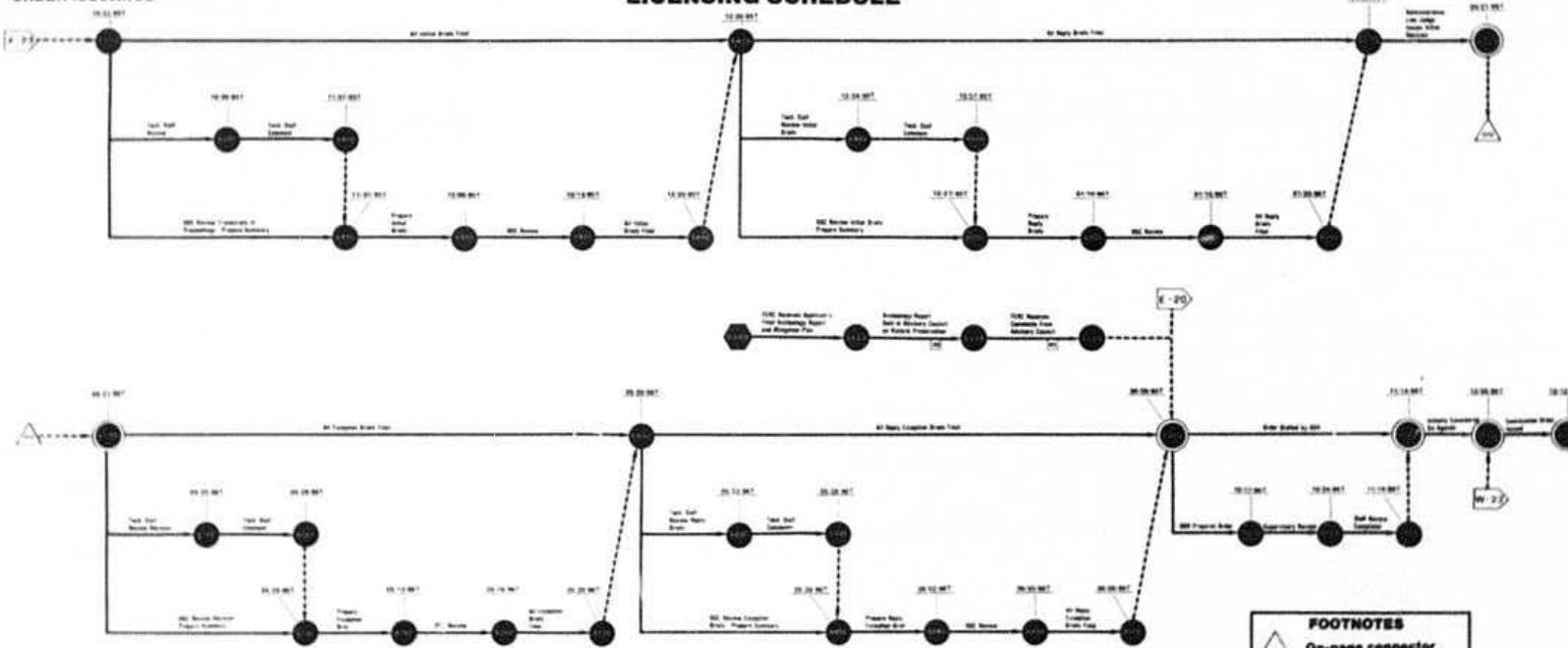
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BRIEFING SCHEDULE & ORDER ISSUANCE

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

Level D



FOOTNOTES

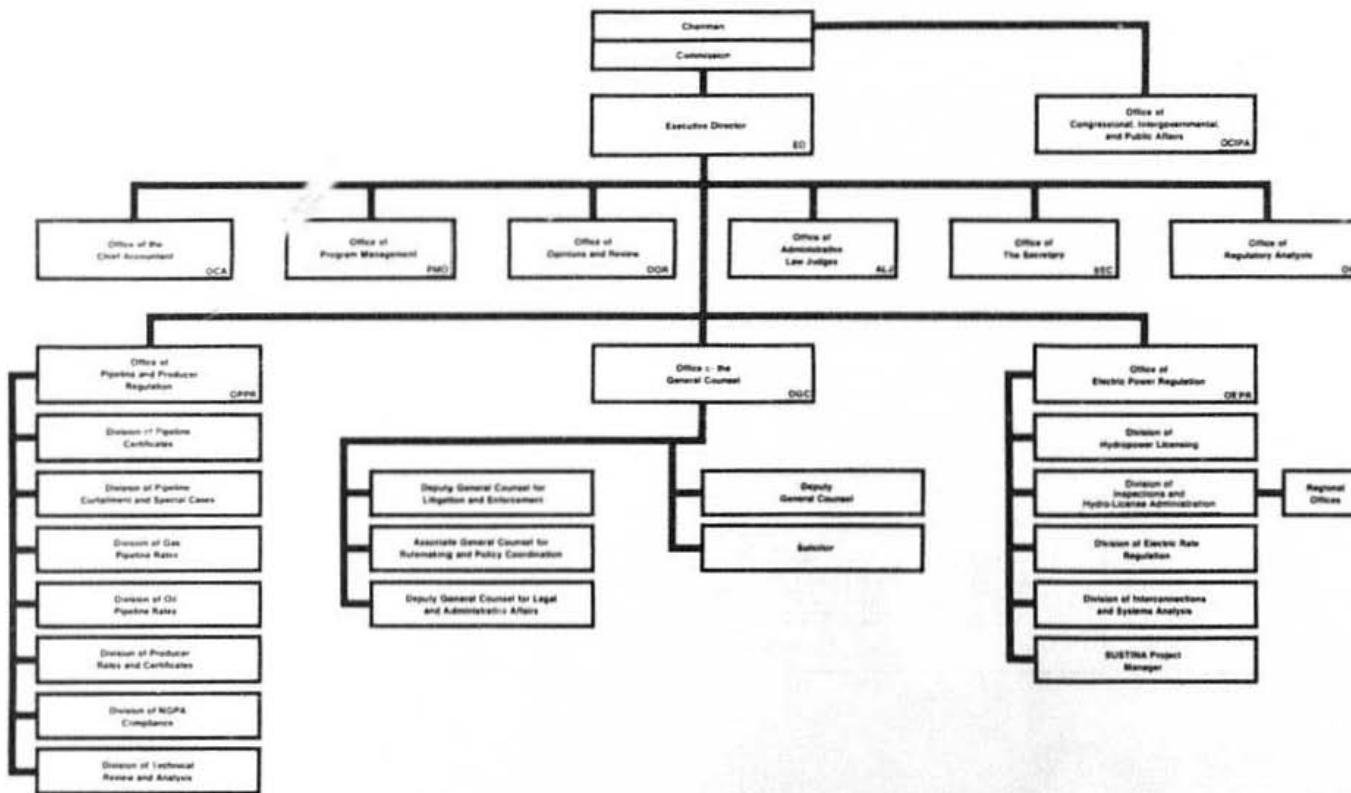
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Appendices

APPENDIX A

Federal Energy Regulatory Commission (FERC)
Organization Chart



APPENDIX B

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, D.C.

MEMORANDUM TO:

MEMORANDUM FROM:

September 22, 1982

REMARKS TO: The Chairman
Commissioners
Executive Director
General Counsel
Lawrence R. Anderson
FROM: Lawrence R. Anderson
DIRECTOR, OFFICE OF ELECTRIC POWER
Regulation
SUBJECT: Susitna Project Management Team

A special project team has been formed to monitor the pre-filing review of the Susitna Hydroelectric Project. I have appointed William C. Wakefield, II, as the project manager. All communications, memo, directives and meetings will be coordinated by Mr. Wakefield. His phone number is 278-9233, and he will be located in room 101, 4th Street.

Attachment:

SUSITNA PROJECT MANAGEMENT TEAM

The Susitna Hydroelectric Project in Alaska is among the larger hydroelectric projects (1400 MW) in the United States. The proposed facility is estimated to cost approximately \$1.5 billion to \$2 billion. The project will be developed by the Alaska Power Authority (APA). It is estimated that a one-day delay in the construction of the Susitna project would increase total projected costs by approximately \$10 million. In addition, it is anticipated that the Federal Energy Regulatory Commission (FERC) identify any deficiencies in the pre-filing application such that APA may file an acceptable application at the earliest possible date.

A special project management team has been formed to monitor and coordinate the pre-filing review of the Susitna Hydroelectric Project. It will be responsible for the following: to coordinate review of the application for adequacy and to advise FERC concerning any deficiencies prior to formal filing.

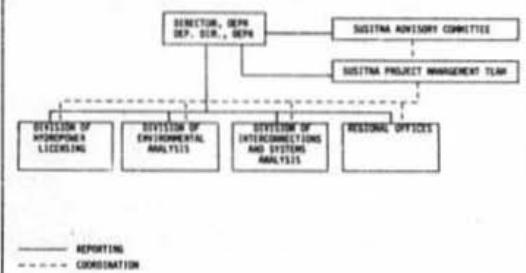
The "Susitna Project Management Team" is headed by a project manager who reports directly to the Director, Office of Electric Power Regulation (OEPR). The project manager:

- provides the necessary coordination and liaison with all divisions of OEPR, with all other FERC offices, with Federal, State, and local agencies, the general public, and the applicant;
- initiates correspondence with the APA and all other Federal, State and local agencies, and replies to inquiries from members of the Congress and the general public;
- reviews and analyzes staff reports and recommendations on the application data;
- examines the pre-filing application to determine compliance with FERC Rules and Regulations;
- informs ARA of engineering, environmental or other deficiencies as they become known;
- meets with the Advisory Committee to report on the status of the pre-filing review.

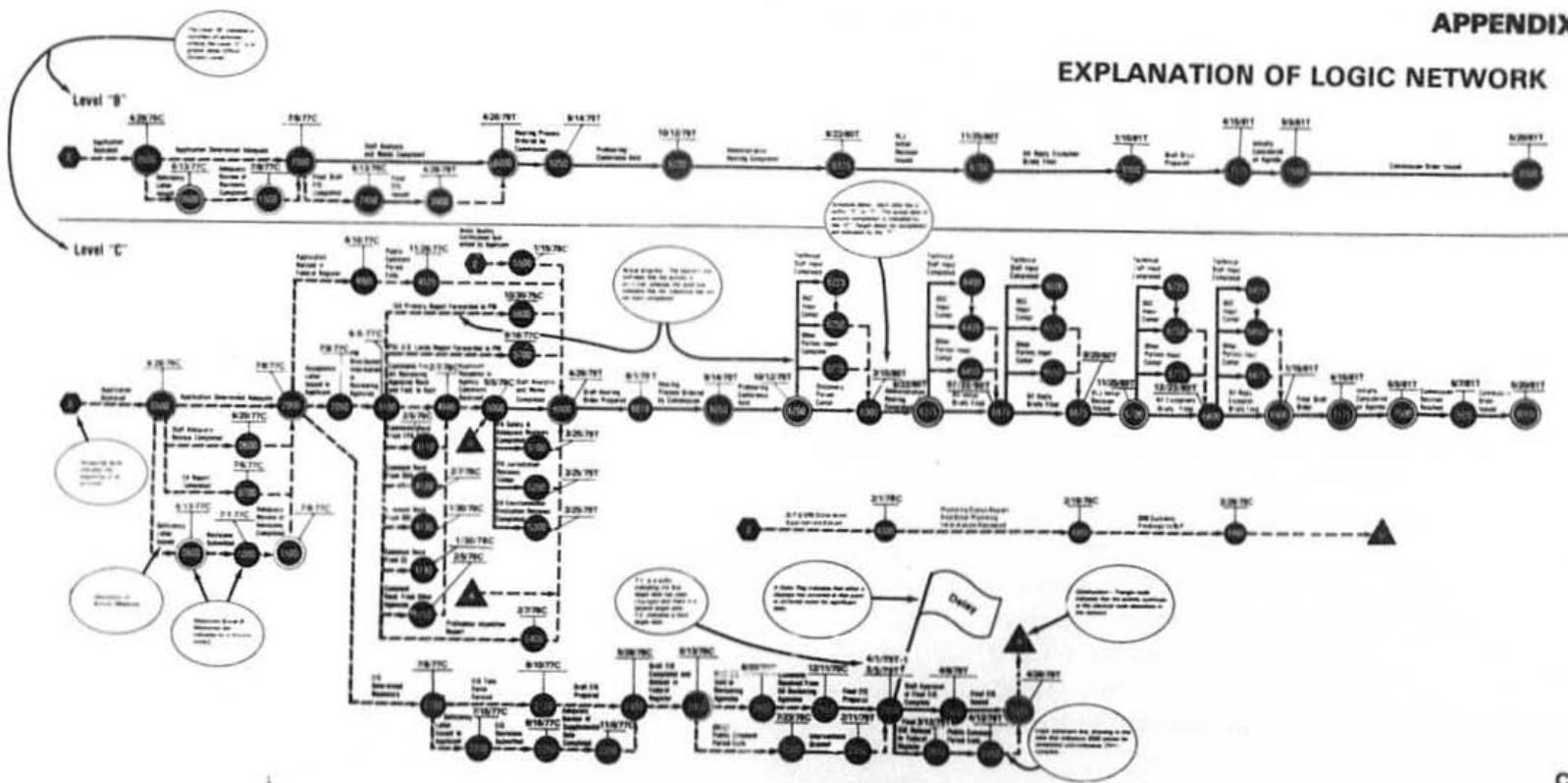
A Susitna Advisory Committee which reports to the Director, OEPR, is also established. Its responsibility is to advise the Director, OEPR, on the pre-filing process, highlight problem areas and potential delays, and recommend actions to the Director of OEPR. The Susitna Advisory Committee is composed of the Deputy Director of OEPR, the Director of the Division of Hydroelectric Licensing, the Director of the Division of Environmental Analysis, the Director of the Division of Interconnections and Systems Analysis, and the Special Assistant to the Director, OEPR.

Attachment A

Attachment B



APPENDIX C



ABBREVIATIONS

APPENDIX D

AF	Acre Feet	FPC	Federal Power Commission
ALJ	Administrative Law Judge	HA	Hydropower Analysis
APA	Alaska Power Authority	ISIB	Interconnection and Special Investigation Branch, DISA, FERC
BLM	Bureau of Land Management	KV	Kilovolt
C	Completion Date	KW	Kilowatt
CE	Corps of Engineers	MW	Megawatt
DEIS	Draft Environmental Impact Statement	N/A	Does Not Apply
DHL	Division of Hydropower Licensing, FERC	NEA	National Energy Act
DISA	Division of Interconnections and Systems Analysis, FERC	NEPA	National Environmental Policy Act
DOA	Department of Agriculture	OEPR	Office of Electric Power Regulation, FERC
DOE	Department of Energy	OGC	Office of General Counsel, FERC
DOI	Department of the Interior	OOR	Office of Opinions and Review, FERC
DRB	Design Review Branch	PM	Project Manager, FERC
EA	Environmental Analysis	PSLB	Power Site Lands Branch, DHL, FERC
ED	Executive Director, FERC	SEB	System Evaluation Branch, DISA, FERC
EIS	Environmental Impact Statement	SFRO	San Francisco Regional Office
EPA	Environmental Protection Agency	T	Target Date
FEIS	Final Environmental Impact Statement	USGS	United States Geological Survey
FERC	Federal Energy Regulatory Commission		

APPENDIX E

Susitna Hydroelectric Project PROJECT DESCRIPTION

The Alaska Power Authority's Susitna Hydroelectric Project would consist of two developments along the Susitna River between Anchorage and Fairbanks, Alaska and related access and transmission facilities. The project would have a total installed capacity of 1,620 MW and would provide an average of 6,790 GWh of energy annually when completed in the year of 2002. The Susitna Hydroelectric Project is estimated to cost 5.1 billion dollars (January 1982 dollars).

The upstream Watana Development (See Watana General Arrangement) would include an 885 foot-high earthfill dam with a crest length of 4,100 feet forming a 48 mile-long reservoir with a surface area of 38,000 acres and a usable storage capacity of 4.21 million acre-feet at normal maximum water surface elevation 2,185 feet. Two chute spillways would be provided on the right abutment. A concrete, gated intake structure on the right abutment would lead to six 17 foot-diameter penstocks terminating in an underground powerhouse containing six 170 MW generating units. The first four units would come on line in 1993, followed in 1997 by the final two units.

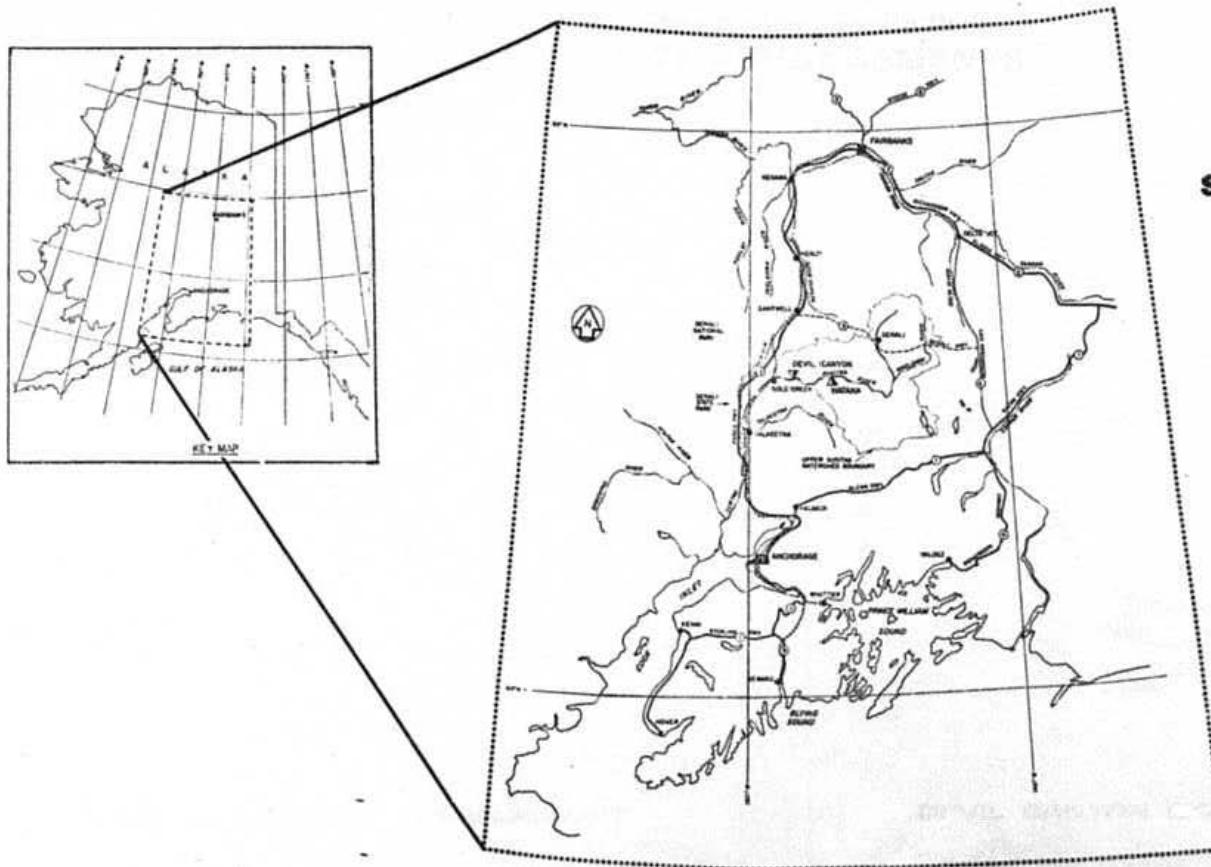
The Devil Canyon Development (See Devil Canyon General Arrangement) would include a 645 foot-high, double-curved, concrete thin arch dam forming a 26 mile-long reservoir with a surface area of 7,800 acres and a usable storage capacity of 350,000 acre-feet at normal maximum water surface elevation 1,455 feet. A 245 foot-high, rock-fill saddle dam would be located on the left abutment. A spillway would be provided on each abutment. A concrete, gated intake structure on the right abutment would lead to four 20 foot-diameter penstocks terminating in an underground powerhouse containing four 150 MW generating units. The Devil Canyon Development would become operational in the year of 2002.

As part of the Susitna Hydroelectric Project, two 26 mile-long, 345 kV transmission lines would be constructed from Watana to Devil Canyon. From Devil Canyon, two 195 mile-long, 345 kV transmission lines would extend to the Fairbanks area and three 84 mile-long, 345 kV transmission lines would extend to Anchorage.

An access road would be constructed from the Denali Highway south to Watana and then west to Devil Canyon. A 6,000 foot-long airstrip and a permanent town for operation and maintenance personnel would be constructed at Watana.

APPENDIX F

Susitna Hydroelectric Project LOCATION MAP



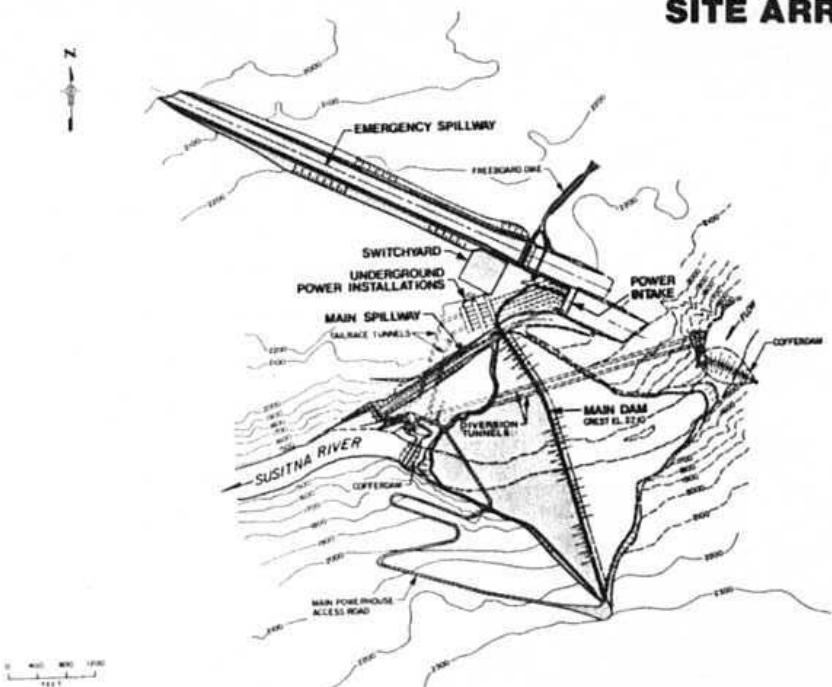
LEGEND

- ① PRIMARY PAVED UNDIVIDED HIGHWAY
- SECONDARY PAVED UNDIVIDED HIGHWAY
- - - - - SECONDARY GRAVEL HIGHWAY
- - - - RAILROAD
- - - RIVER

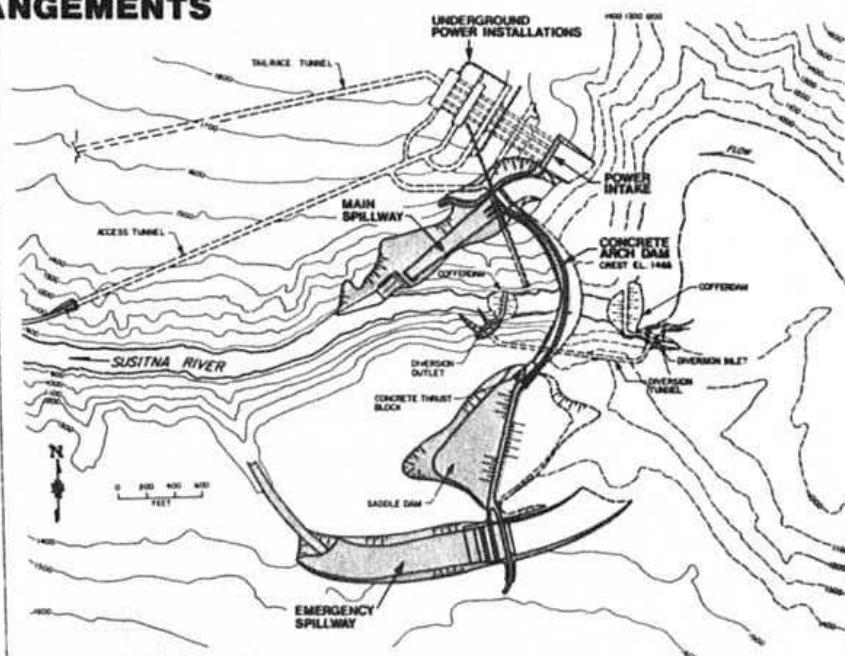
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APPENDIX G

Susitna Hydroelectric Project SITE ARRANGEMENTS



WATANA GENERAL ARRANGEMENT



DEVIL CANYON GENERAL ARRANGEMENT

**Susitna Hydroelectric Project
KEY PERSONNEL**

APPENDIX H

FERC Staff

Project Manager: William Wakefield	(202) 376-1909
Engineering/Environment: Director, Division of Hydroelectric Licensing: Quentin Edson	(202) 376-9171
Coordinator: Gerald Wilson	(202) 376-9130
Coordinator: Mark Robinson	(202) 376-9060
Need for Power/Transmission Lines: Director, Division of Interconnections and Systems Analysis: Bernard Chew	(202) 376-9264
Coordinator: Gene Biggerstaff	(202) 376-9020
Coordinator: Edward Fowlkes	(202) 376-9381
Attorney: Donald Clarke	(202) 357-8494

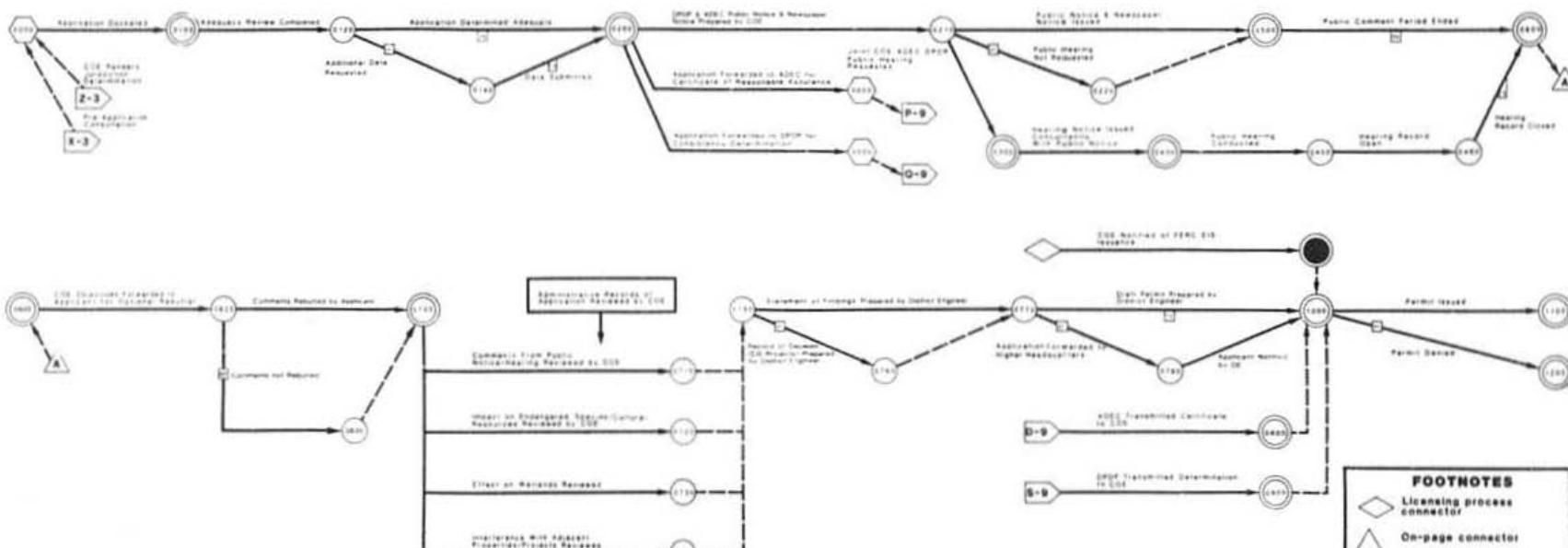
Alaska Power Authority

Project Manager: Robert Mohn	(907) 277-7641 Ext. 214
Deputy Project Manager - Engineering: David Wozniak	(907) 277-7641 Ext. 215
Deputy Project Manager - Environment: Richard Flemming	(907) 277-7641 Ext. 211
Deputy Project Manager - Permitting: Tom Arminski	(907) 277-7641
Engineering Consultants - Acres American: Charles Debellus - Harza/Ebasco: Ray Larusso	(301) 992-5300 (907) 277-1561
Regulatory Management Consultant - MSI, Inc.: G. R. Hill	(404) 992-6469
Legal Counsel: D. Jane Drennan	(202) 887-0300

Corps of Engineers:
 Section 404 Permits for the Discharge of Dredged & Fill Materials 33 U.S.C. 1344
 Section 10 Permits for Structures In or Affecting Navigable Waters 33 U.S.C. 403

**Susitna Hydroelectric Project
 FEDERAL PERMITS**

March 1, 1983



- FOOTNOTES**
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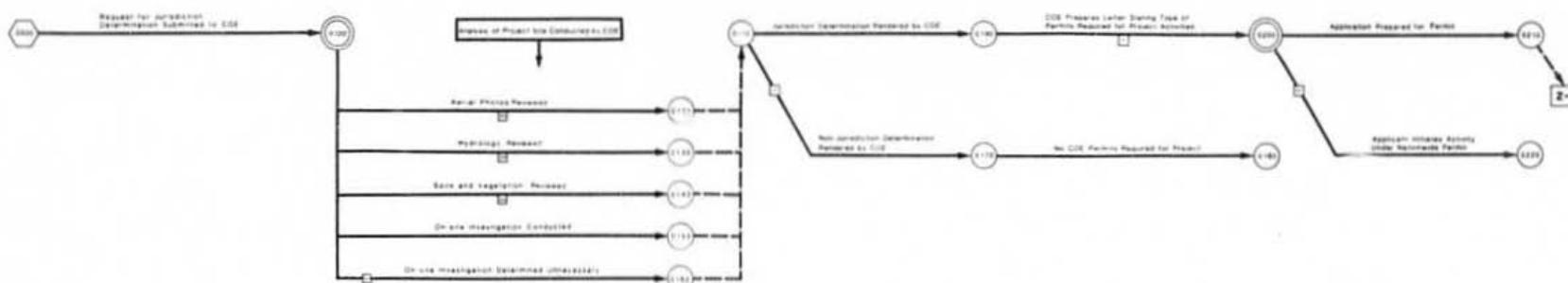
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W. T. C.

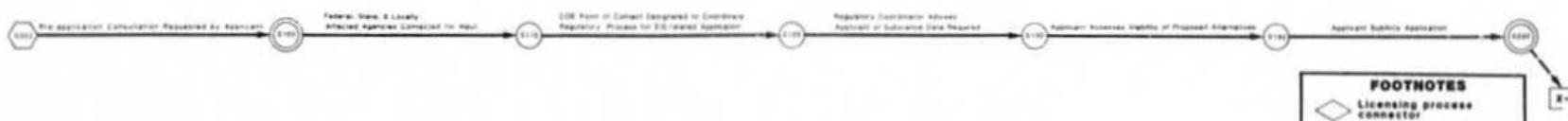
Corps of Engineers:
Pre-Application Jurisdiction Determination

Susitna Hydroelectric Project
FEDERAL PERMITS

March 1, 1983



Pre-Application Consultation 33 CFR 325.1



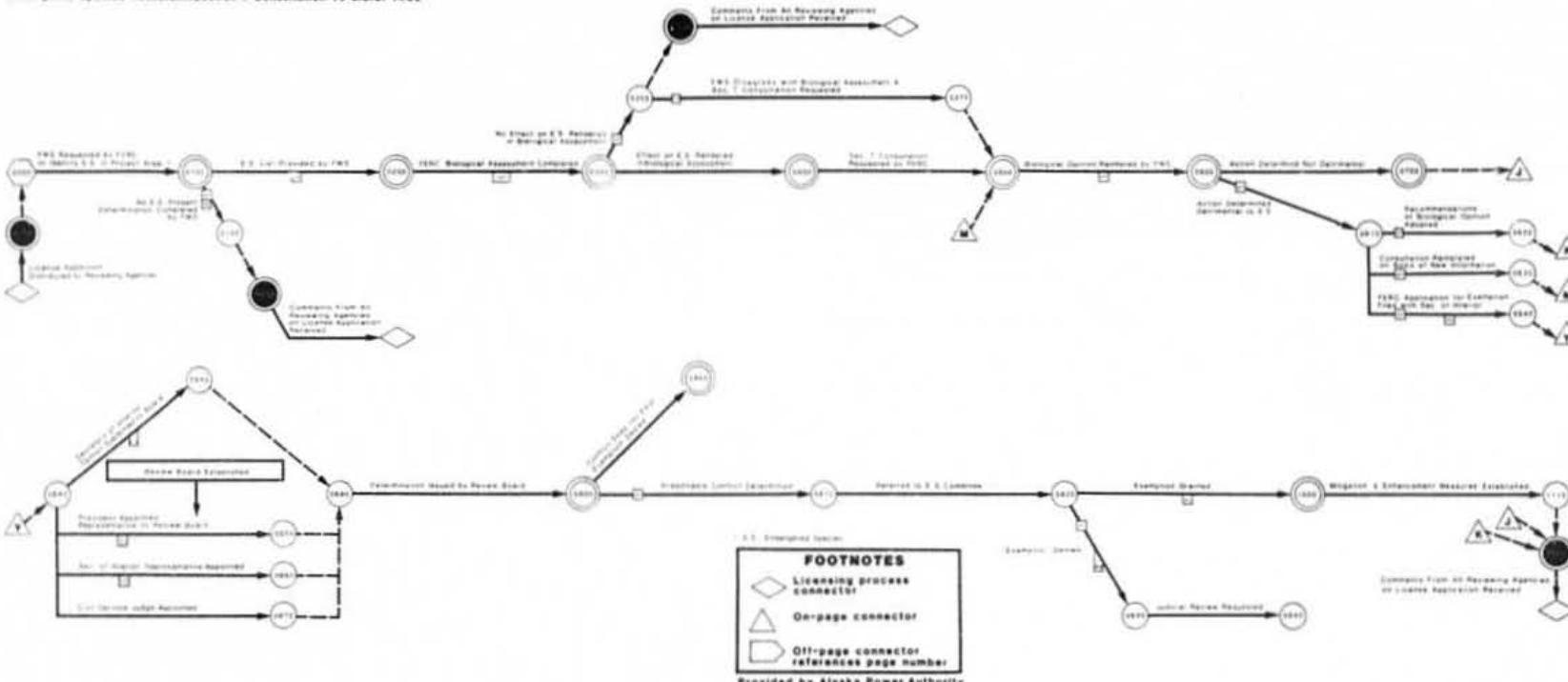
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**Susitna Hydroelectric Project
FEDERAL PERMITS**



A.S. Endangered Species
FOOTNOTES

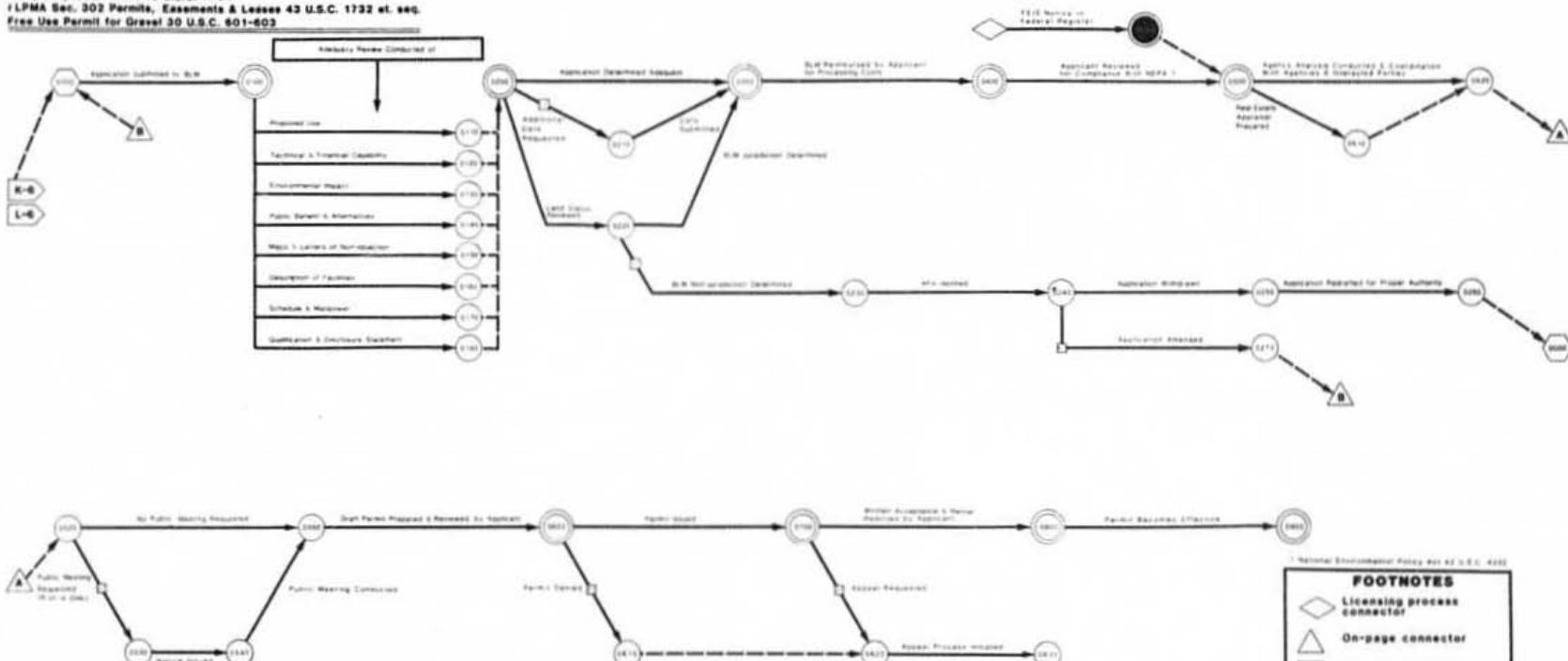
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Provided by Alaska Power Authority

Bureau of Land Management
Grant of Right-of-Way 43 U.S.C. 1751 et seq.
Temporary Use Permit 43 U.S.C. 1764
LPMA Sec. 302 Permits, Easements & Leases 43 U.S.C. 1732 et seq.
Free Use Permit for Graves 30 U.S.C. 601-603

**Susitna Hydroelectric Project
FEDERAL PERMITS**

March 1, 1983



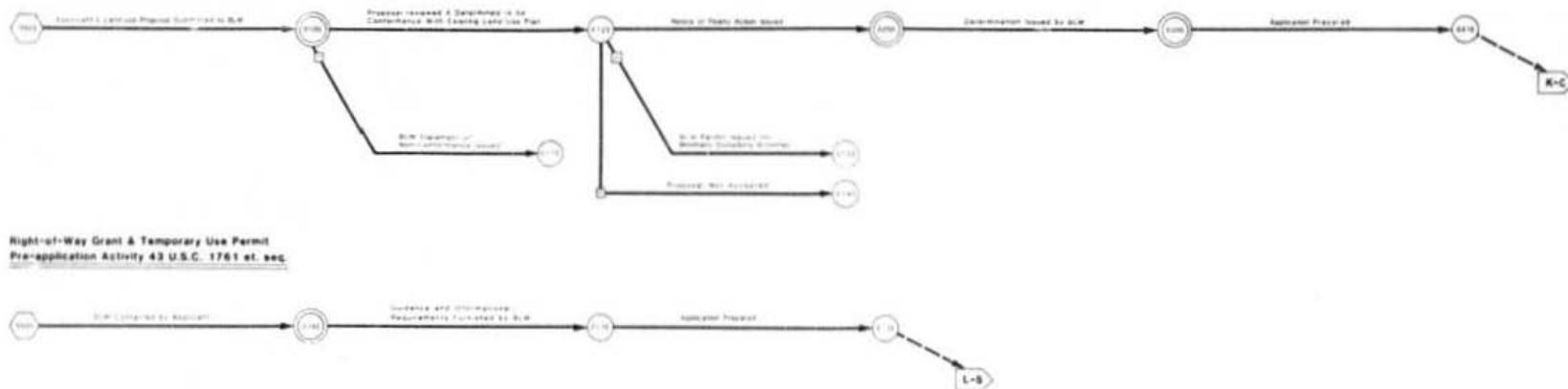
Provided by Alaska Power Authority



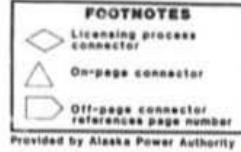
Bureau of Land Management:
FLPMA Sec. 302 Pre-Application Procedures for Public Initiated
Land-use Proposals 43 U.S.C. 1732 et seq.

Susitna Hydroelectric Project
FEDERAL PERMITS

March 1, 1983



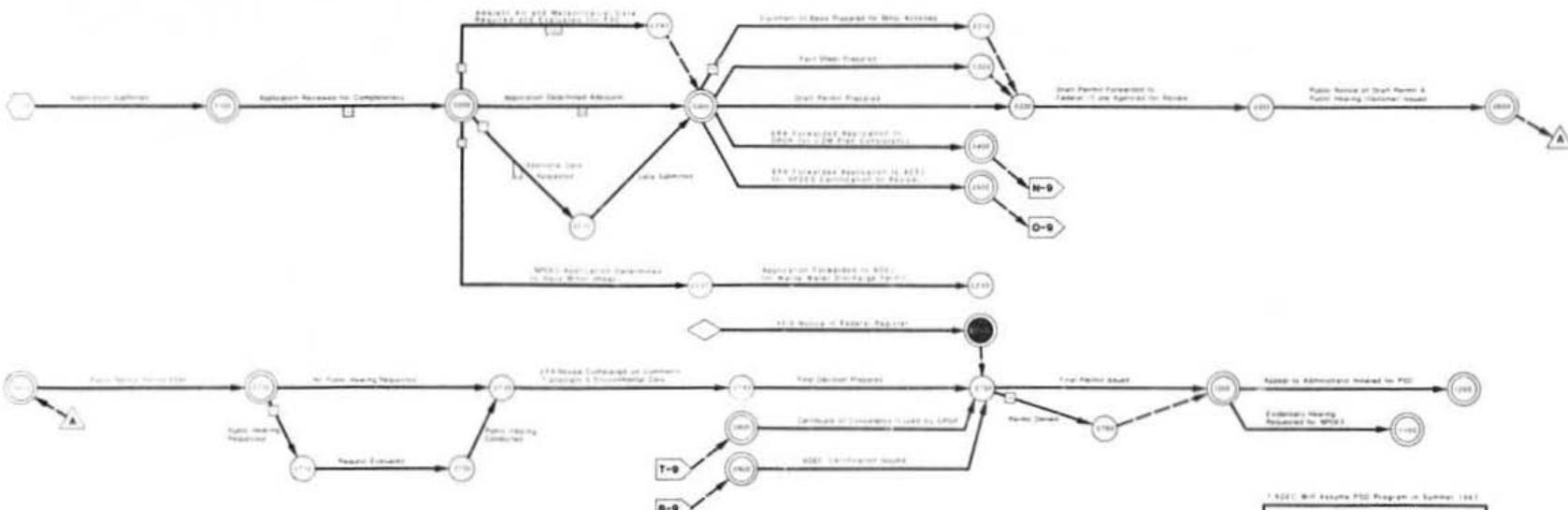
Right-of-Way Grant & Temporary Use Permit
Pre-application Activity 43 U.S.C. 1761 et seq.



Environmental Protection Agency
Natural Pollutant Discharge Elimination System (NPDES) Permit 33 U.S.C. 1342
Prevention of Significant Deterioration (PSD) Permit 42 U.S.C. 7470 et. seq.

Susitna Hydroelectric Project
FEDERAL PERMITS

ANSWER 3: 10000



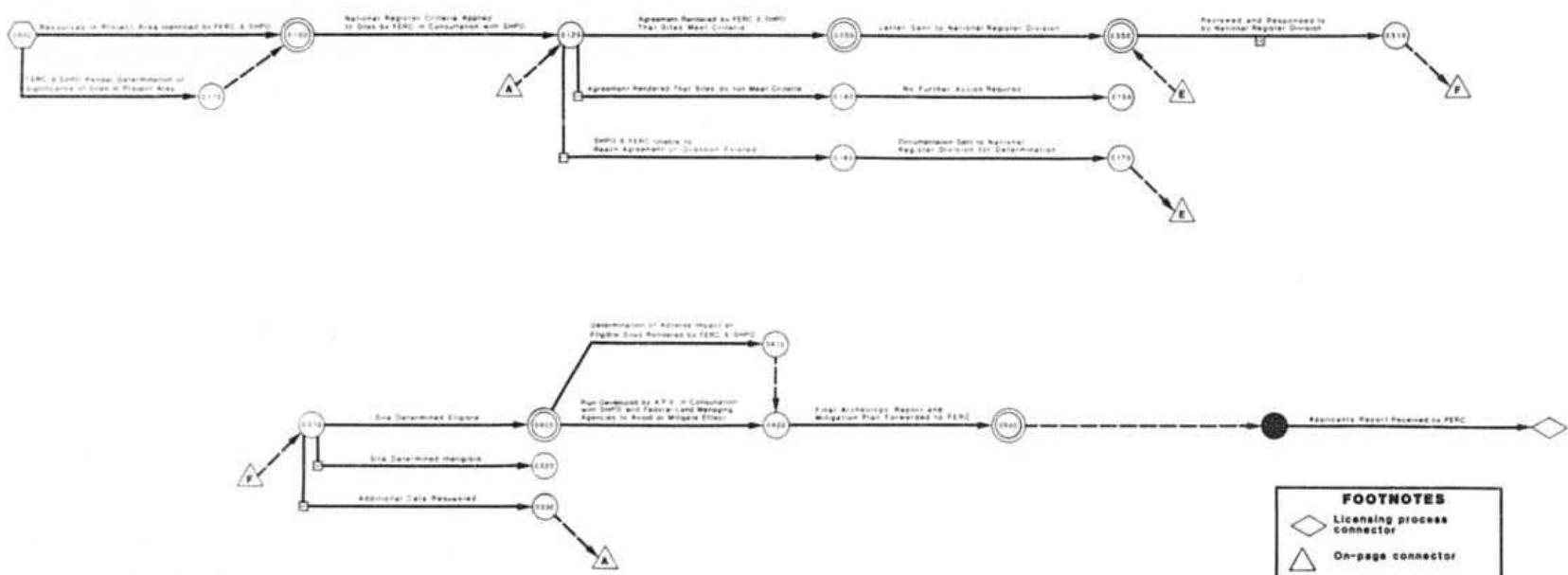
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Procedures to Request Determination of Eligibility for the National Register and Advisory Council Comments
Sec. 106 & 110 National Historic Preservation Act 16 U.S.C. 470^b
National Environmental Policy Act 42 U.S.C. 432
36 C.F.R. 63
36 C.F.R. 800 et. seq.

Susitna Hydroelectric Project
FEDERAL PERMITS

March 1, 1983

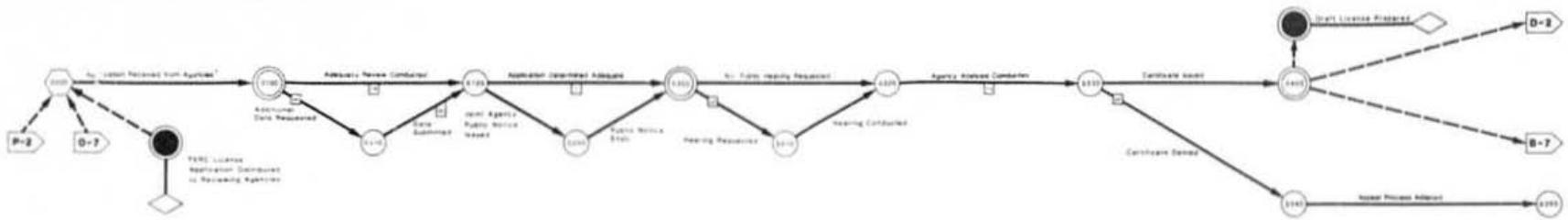


Provided by Alaska Power Authority

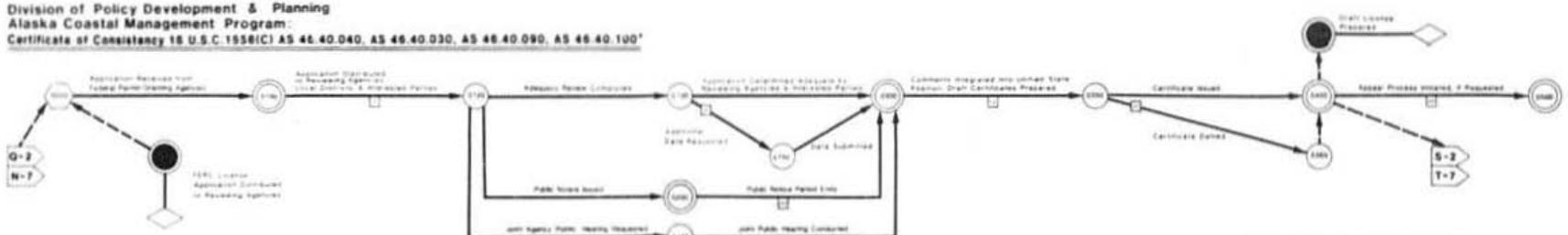
Alaska Department of Environmental Conservation:
Certificate of Reasonable Assurance 33 U.S.C. 1342*
NPOES Certification 18 ACC 15.130-15.180

Susitna Hydroelectric Project STATE PERMITS

March 1, 1983



Division of Policy Development & Planning
Alaska Coastal Management Program:
Certificate of Consistency 16 U.S.C. 1958(C) AS 46.40.040, AS 46.40.030, AS 46.40.090, AS 46.40.100*



* EPA Applied for 401-Certification December 8, 1982

FOOTNOTES

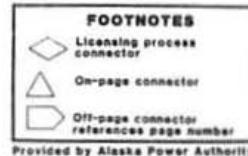
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- △ On-page connector
- Off-page connector references page number

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Alaska Department of Fish & Game:
Permit to Construct Facilities Providing for
the Efficient Passage of Fish AS 16.05.840
Permit to Conduct Activities in or Affecting
Anadromous Fish Streams AS 16.05.870

Susitna Hydroelectric Project
STATE PERMITS

March 1, 1953



Alaska Department of Natural Resources:

Right-of-Way Permit for an Easement

Land Use Permit

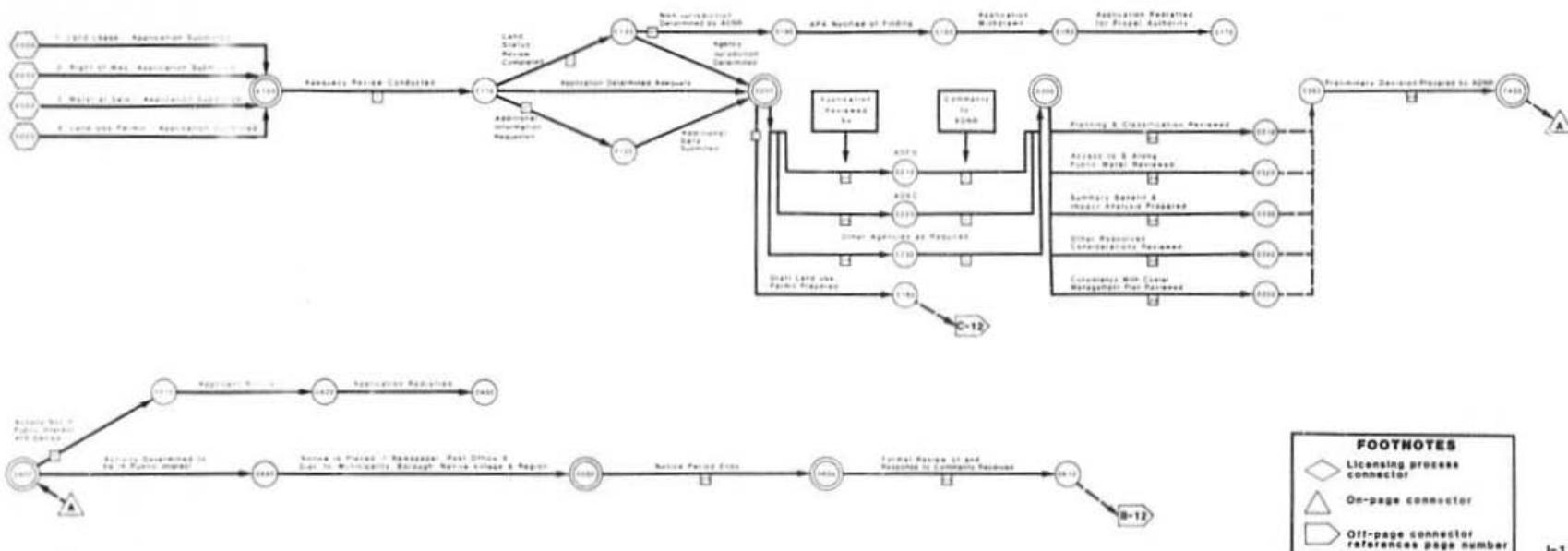
AS 38.05.020 AS 38.05.215 AS 38.05.330 AS 38.05.055 AS 38.05.127

Material Sales AS 38.05.020 AS 38.05.115 AS 38.05.315 AS 38.05.035

Land-Lease AS 38.05.070-AS 38.05.105 AS 38.05.315

**Susitna Hydroelectric Project
STATE PERMITS**

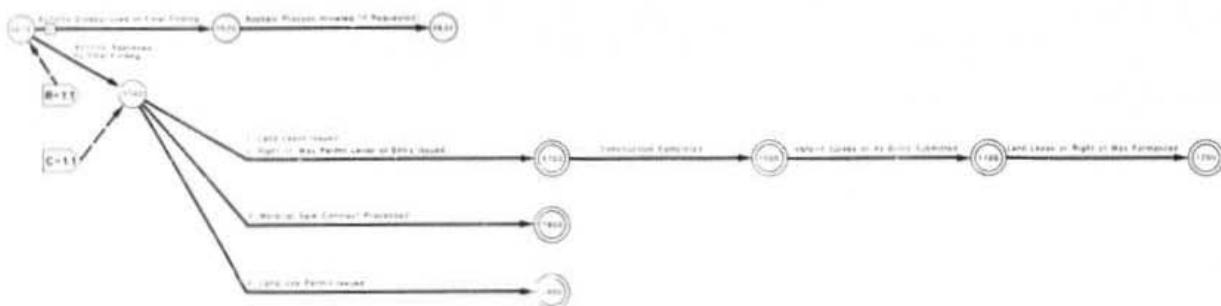
March 1, 1983



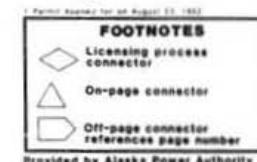
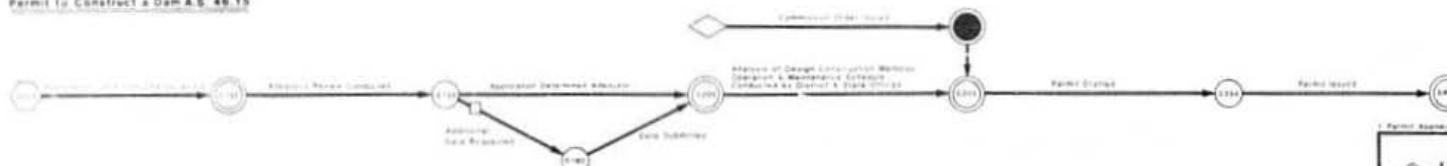
Alaska Department of Natural Resources, continued:

**Susitna Hydroelectric Project
STATE PERMITS**

March 1, 1983

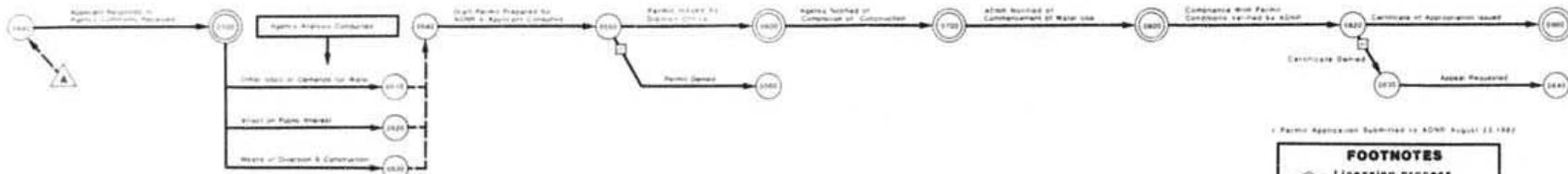
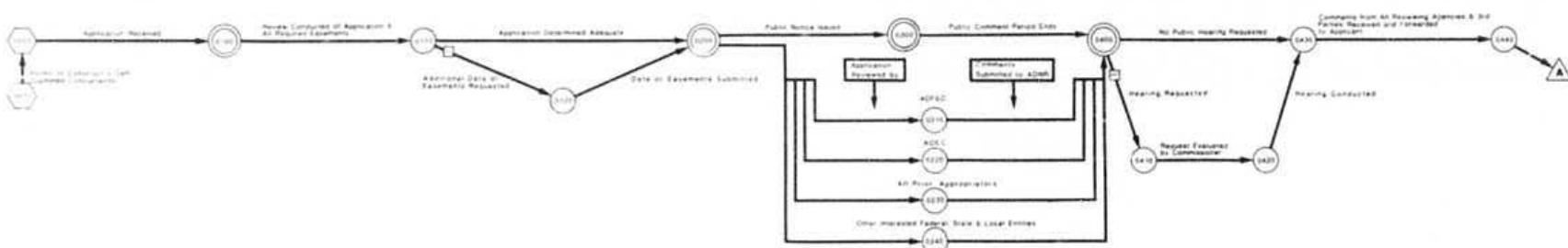


Permit to Construct a Dam A.S. 46.15



Susitna Hydroelectric Project
STATE PERMITS

March 1, 1983



* Permit Applications Submitted to ADNR August 23, 1982

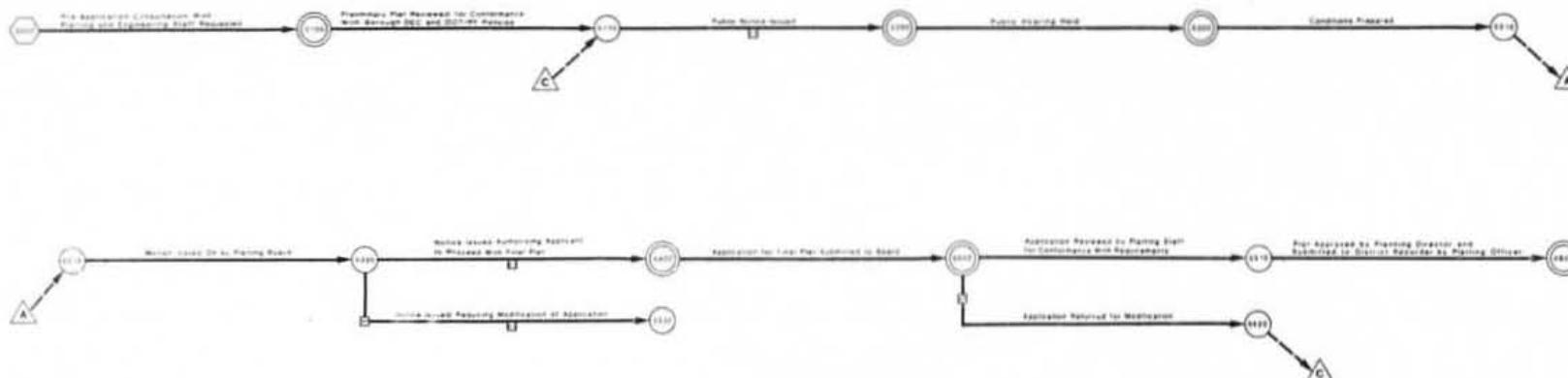
FOOTNOTES	
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	Off-page connector references page number

Provided by Alaska Power Authority

Matanuska-Susitna Borough
Plots, Variances, Vacations, Waterways AS 29.33.015 MSB 16.18.010-.015

Susitna Hydroelectric Project
LOCAL PERMITS

March 1, 1983



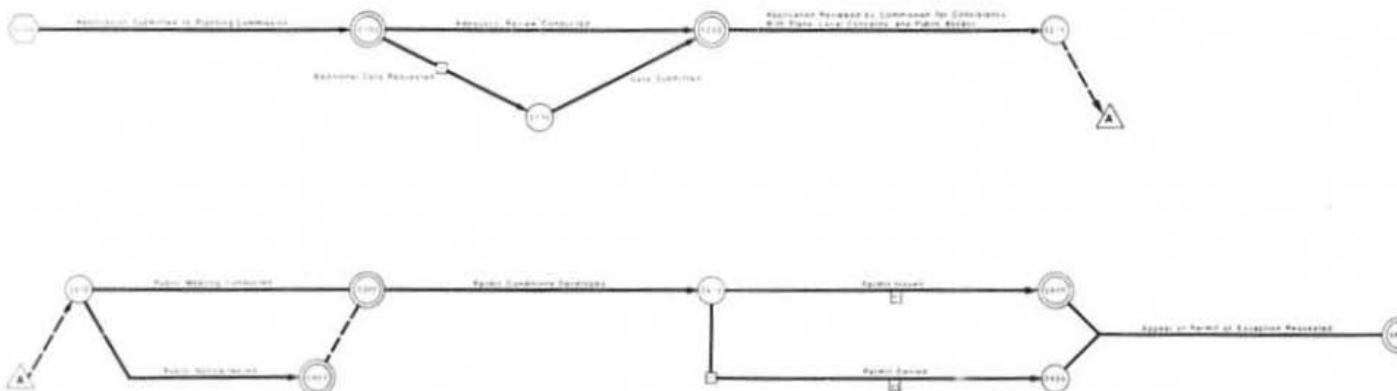
FOOTNOTES	
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□	Off-page connector references page number

Provided by Alaska Power Authority

Matanuska-Susitna Borough
Talkeetna Mountain Special District
Permits for Enterprise Activities MSB 17.24.140
Exceptions to Chapter Provisions
for Public Facilities MSB 17.24.170

Susitna Hydroelectric Project
LOCAL PERMIT

March 1, 1983



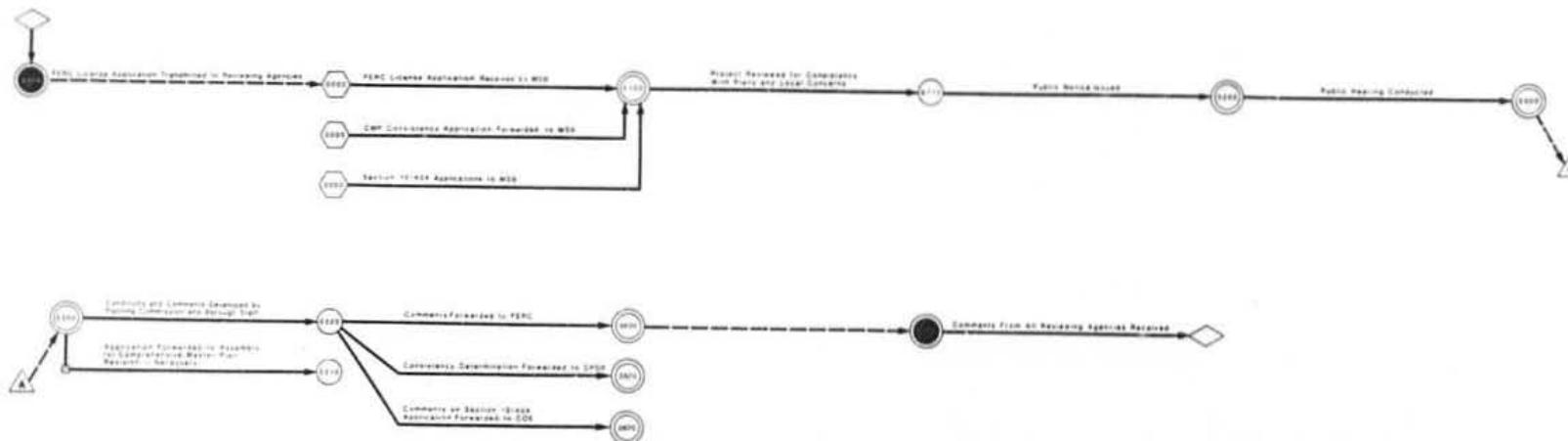
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Off-page connector references page number	□

Provided by Alaska Power Authority

Matanuska-Susitna Borough
Planning Commission - Planning Functions MSB 15.12.010
Assembly - Comprehensive Master Plan MSB 15.24.030

**Susitna Hydroelectric Project
LOCAL PERMITS**

March 1, 1983



- FOOTNOTES**
- ◇ Licensing process connector
 - △ On-page connector
 - Off-page connector references page number
- Provided by Alaska Power Authority

APPENDIX J

Susitna Hydroelectric Project LIST OF AGENCIES

Federal

Department of Agriculture
Chief of the Forest Service
Department of Agriculture
P.O. Box 2417
Washington, D.C. 20013

Regional Director
Forest Service
Box 1628 - Federal Office Building
Juneau, Alaska 99802

Director, Western Area - Electric
Rural Electrification Administration
14th and Independence SW
Washington, D.C. 20254

Soil Conservation Service
2221 E. Northern Lights Blvd.
Suite 129
Anchorage, Alaska 99504

Department of Commerce
Deputy Assistant General for
Environmental Affairs
Department of Commerce
Washington, D.C. 20230

Director, Alaska Region
National Marine Fisheries Service
P.O. Box 1668
Juneau, Alaska 99802

Director
Office of Coastal Zone Management
3300 Whitehaven Street, NW
Washington, D.C. 20235

Department of the Interior
Director
Office of Environmental Project Review
Department of the Interior
Washington, D.C. 20240

Area Director
U.S. Fish and Wildlife Service
1011 East Tudor Road
Anchorage, Alaska 99503

State Director
Bureau of Land Management
555 Cordova Street
Anchorage, Alaska 99501

Director
Regional Environmental Review Office
1675 C Street, Room 233
P.O. Box 120
Anchorage, Alaska 99510

Regional Director
National Park Service
540 West Fifth Avenue
Room 202
Anchorage, Alaska 99501

Area Director
Bureau of Indian Affairs
P.O. Box 3-8000
Juneau, Alaska 99802

U.S. Geological Survey
733 W. Fourth Avenue, Suite 400
Anchorage, Alaska 99501

Bureau of Mines
Chief, Alaska Field Operations Center
Washington, D.C. 20241

Regional Director
Bureau of Reclamation
P.O. Box 043, U.S. Court House
550 W. Fort Street
Boise, Idaho 83742

Department of the Army
District Engineer
Corps of Engineers
P.O. Box 7002
Anchorage, Alaska 99510

Department of Energy
Director
Alaska Power Administration
P.O. Box 50
Juneau, Alaska 99802

Department of Health and Human Services
200 Independence Avenue, SW
Washington, D.C. 20201

Department of Housing and Urban Development
451 7th Street SW
Washington, D.C. 20410

Department of Transportation
U.S. Coast Guard
2100 2nd Street, SW
Washington, D.C. 20590
Federal Aviation Administration
800 Independence Avenue, SW
Washington, D.C. 20591

U.S. Environmental Protection Agency
Regional Administrator
Environmental Protection Agency
1200 Sixth Avenue
Seattle, Washington 98101

State

Alaska Department of Environmental Conservation
Pouch 0
Juneau, Alaska 99811

Alaska Department of Fish and Game
Support Building
Juneau, Alaska 99801

Alaska Department of Natural Resources
Pouch M
Juneau, Alaska 99801

Alaska Department of Public Safety
450 Whittier Street
Juneau, Alaska 99801

Alaska Public Utilities Commission
1100 Mackay Building
338 Donald Street
Anchorage, Alaska 99802

Alaska State-Federal Coordinator
Office of the Governor
Pouch AD
Juneau, Alaska 99811

Office of the Governor
Division of Policy Development and Planning
Pouch AW
Juneau, Alaska 99811

Office of Coastal Management
Office of the Governor, Alaska
Pouch AP
Juneau, Alaska 99811

State Historic Preservation Officer
619 Warehouse Drive, Suite 210
Anchorage, Alaska 99501