

INTERNAL MANAGEMENT DOCUMENT

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Susitna Joint Venture
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ALASKA POWER AUTHORITY

SUSITNA Project Status Report



DRAFT

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. The 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 Management Team to coordinate the processing of the license application. The Project Management Team is the Commission's primary source of information on the progress of the Susitna Hydroelectric Project and 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) 376-9233. An explanation of the logic networks can be found in the Appendix.

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Project Management

Susitna Hydroelectric Project

PROJECT MANAGER SUMMARY

In this issue of the Susitna Project Status Report significant changes have been made to the licensing schedules. The primary changes occur in the preparation of the environmental impact statement and the schedule for the hearing on the need for project power. In addition, as a result of comments received from agencies on the December issue of this report, the time for agencies to review the Susitna application has been reduced from 120 days to 90 days. The above changes in the schedule were made to minimize the overall licensing processing time. The schedule as now shown optimizes the use of Commission resources and assumes full cooperation from APA and all participating agencies.

In a meeting at the Commission on December 14, 1982, APA was provided written draft comments on Exhibits A, B, C, F, and G of the application and verbal comments on Exhibit E. On December 21, 1982, a copy of draft comments on Exhibit E was sent to APA. On December 23, 1982, APA's Washington attorney was provided further comments on the need for project power. The meeting previously scheduled for December 28, 1982, with APA has been postponed to give APA adequate time to review the draft comments provided them on the 21st and 23rd. A meeting to discuss the comments on the need for project power will take place on January 4, 1983, and a meeting to discuss the comments on Exhibit E will take place on January 6, 1983.

January 1, 1983



January 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.

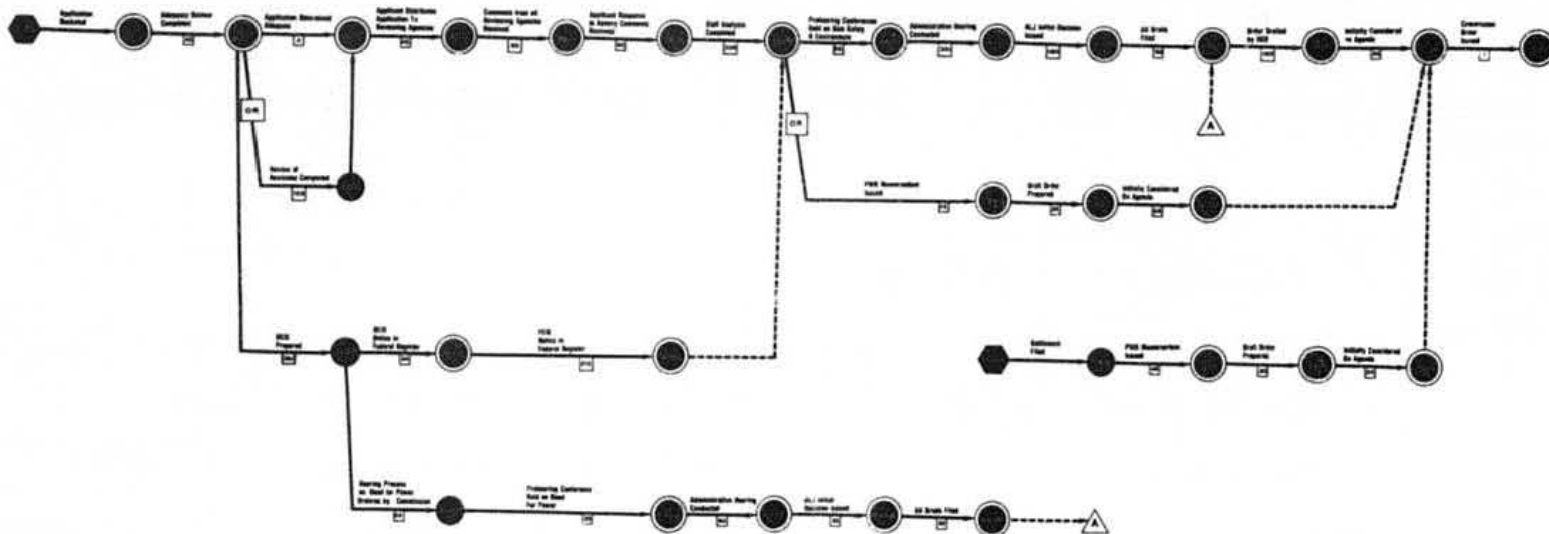
Concurrent with the public comment period, Commission staff experts initiate a three-pronged evaluation of the Susitna Project. Electrical engineers and economists will evaluate the adequacy of electrical load forecasts for Alaska and the need for Susitna Project power. Geologists and civil engineers 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
January 1, 1983



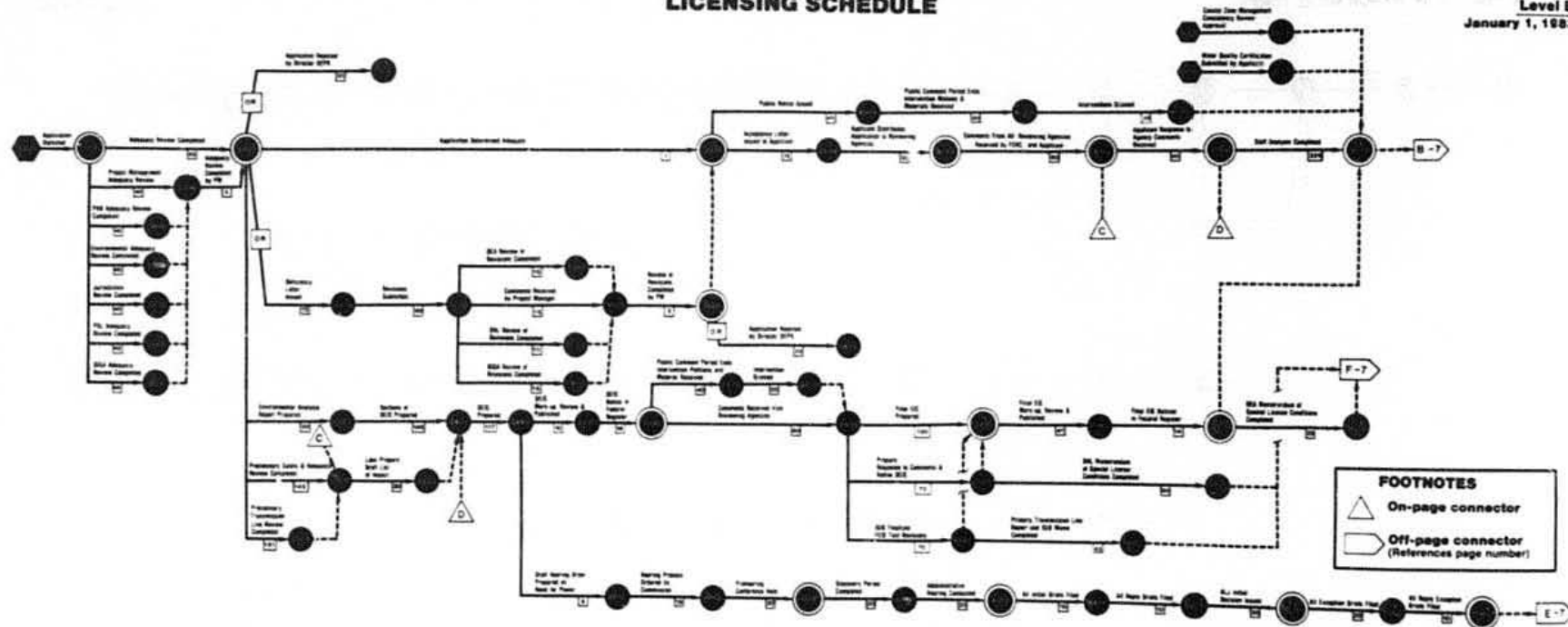
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LICENSE PROCESS

Susitna Hydroelectric Project LICENSING SCHEDULE

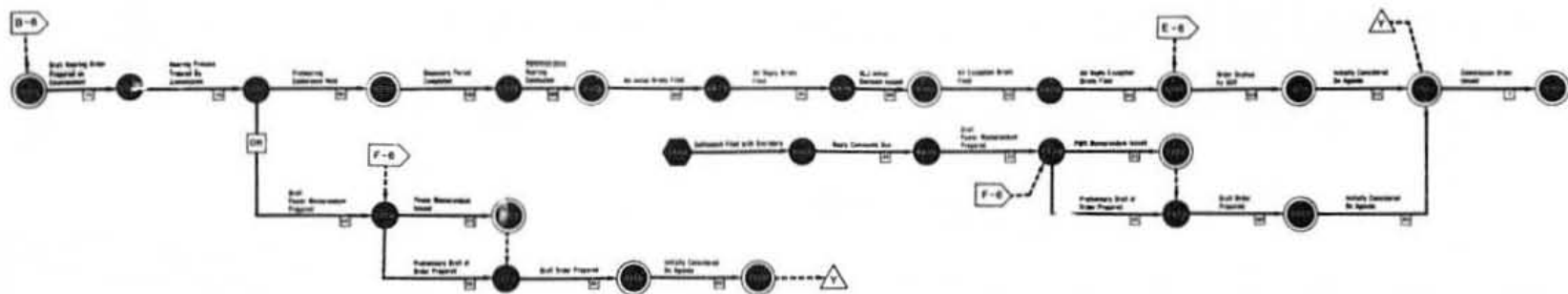
Level B
January 1, 1983



HEARING PROCESS

Susitna Hydroelectric Project LICENSING SCHEDULE

Level B
January 1, 1983



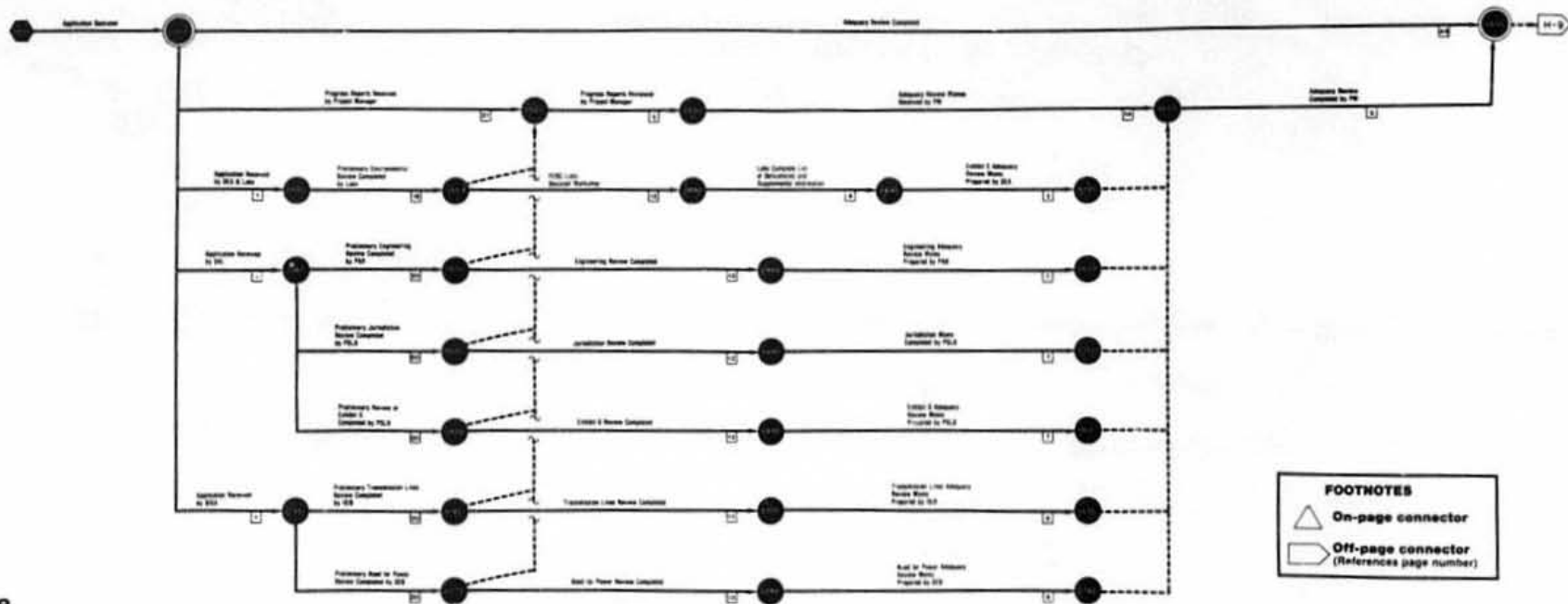
FOOTNOTES

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Susitna Hydroelectric Project LICENSING SCHEDULE

Level C
January 1, 1983

APPLICATION REVIEW



FOOTNOTES

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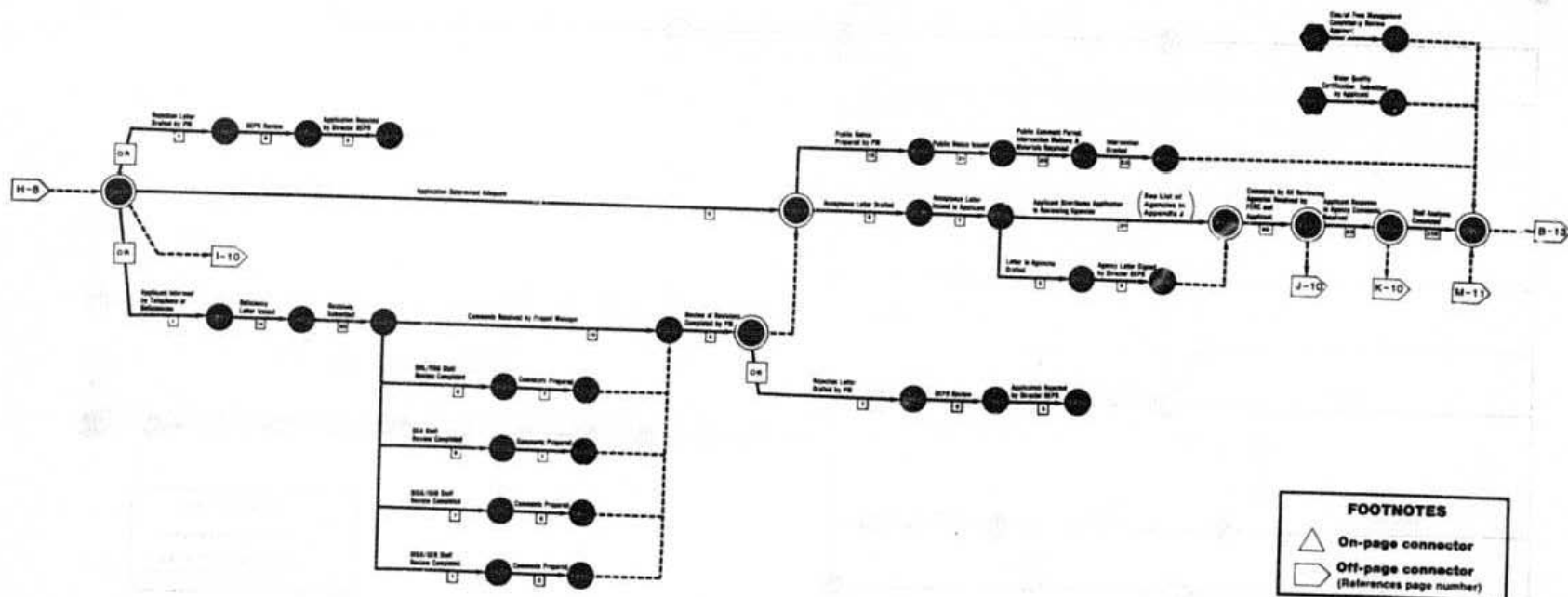
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APPLICATION REVISIONS & AGENCY COMMENT PERIOD

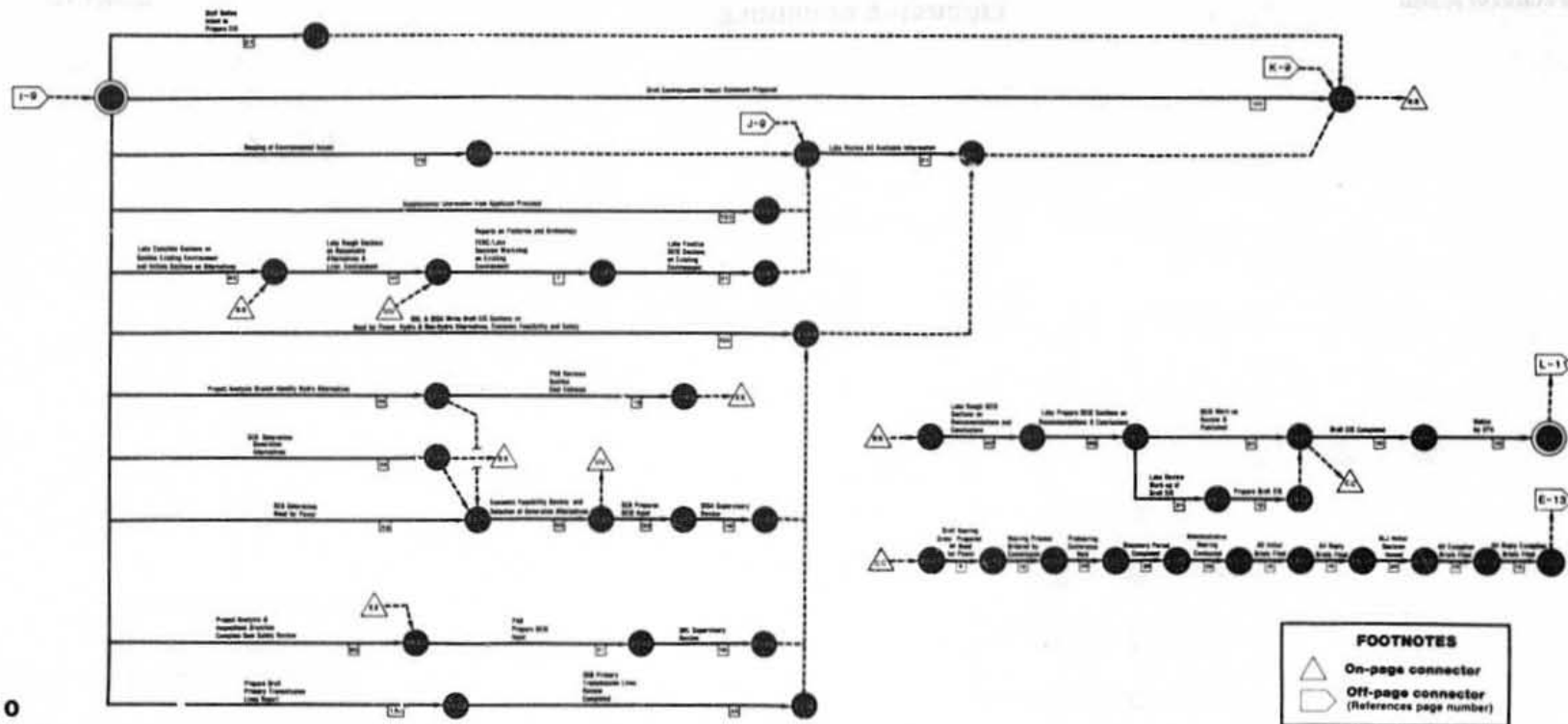
Susitna Hydroelectric Project LICENSING SCHEDULE

Level C
January 1, 1983



Susitna Hydroelectric Project LICENSING SCHEDULE

Level C
January 1, 1983



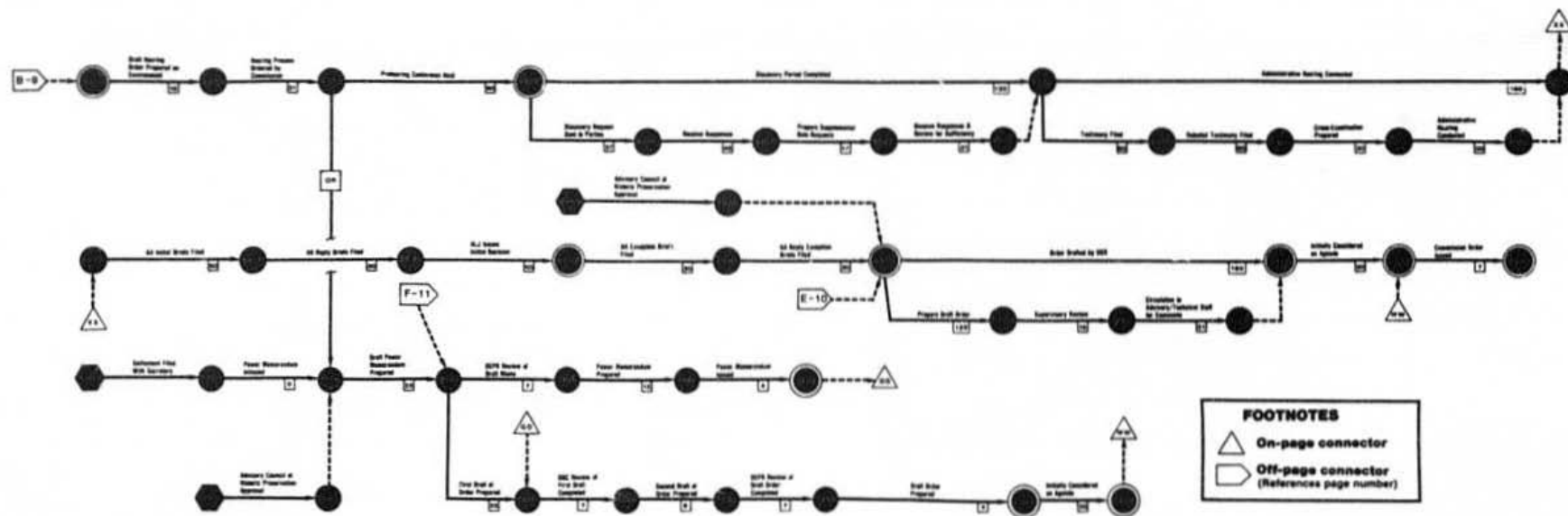
Susitna Hydroelectric Project LICENSING SCHEDULE

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HEARING PROCESS

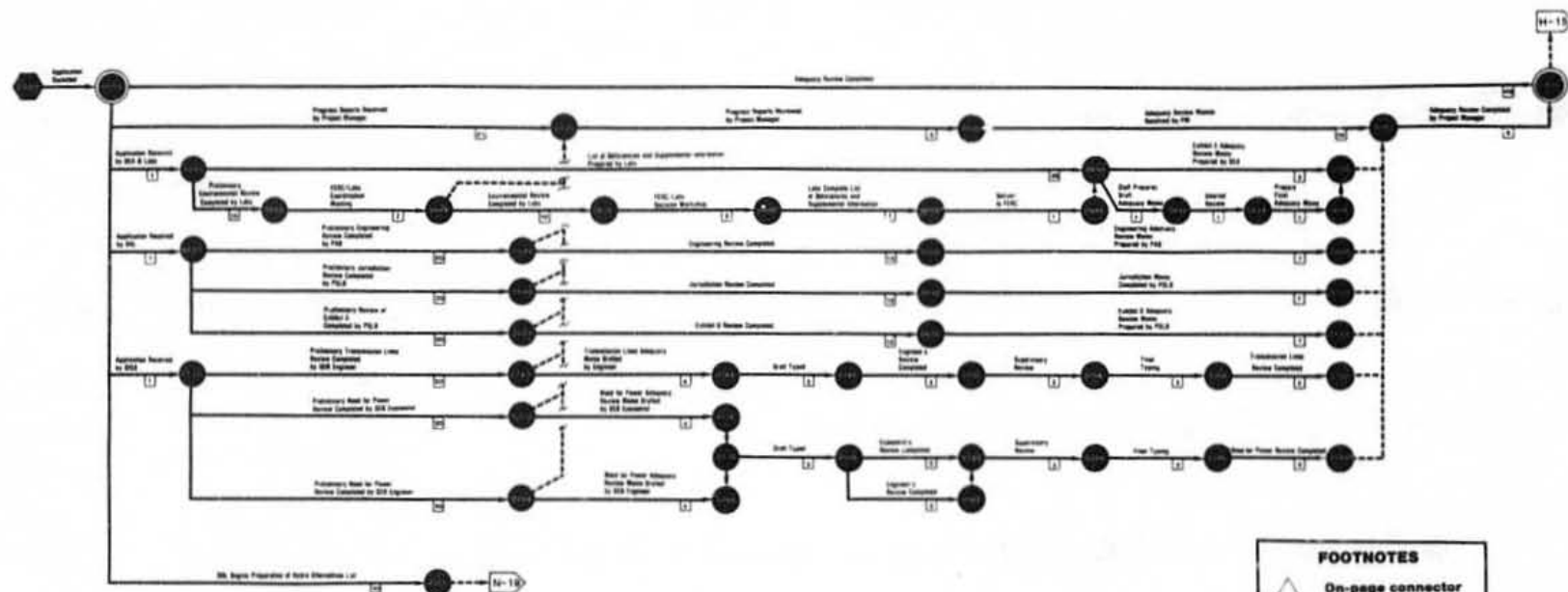
Susitna Hydroelectric Project LICENSING SCHEDULE

Level C
January 1, 1983



Susitna Hydroelectric Project LICENSING SCHEDULE

Level D
January 1, 1983



Susitna Hydroelectric Project LICENSING SCHEDULE

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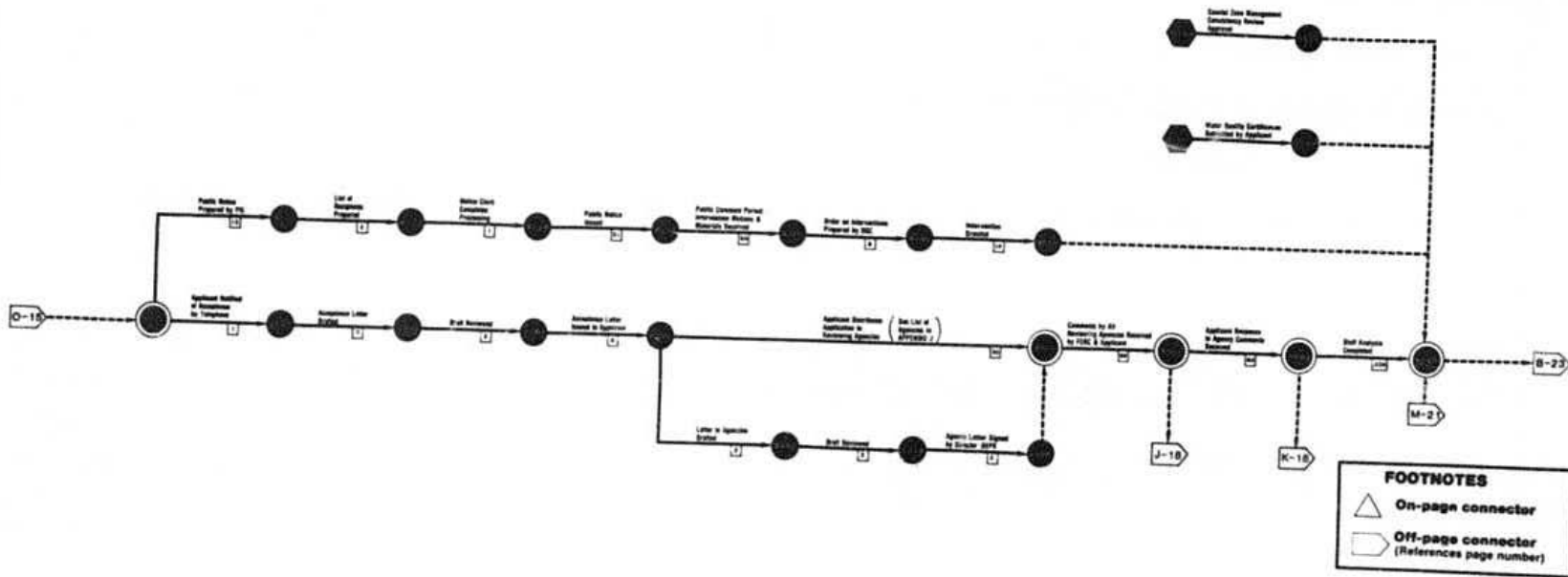
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AGENCY COMMENT PERIOD

Susitna Hydroelectric Project LICENSING SCHEDULE

Level D
January 1, 1983



Susitna Hydroelectric Project LICENSING SCHEDULE

NEPA Process Flowchart

Phase 1: Project Initiation and Scoping

- 1.1. Project Initiation
- 1.2. Scoping
- 1.3. Environmental Assessment
- 1.4. Decision Making
- 1.5. Implementation and Monitoring

Phase 2: Environmental Assessment

- 2.1. Initial Assessment
- 2.2. Scoping
- 2.3. Environmental Assessment
- 2.4. Decision Making
- 2.5. Implementation and Monitoring

Phase 3: Decision Making

- 3.1. Initial Assessment
- 3.2. Scoping
- 3.3. Environmental Assessment
- 3.4. Decision Making
- 3.5. Implementation and Monitoring

Phase 4: Implementation and Monitoring

- 4.1. Initial Assessment
- 4.2. Scoping
- 4.3. Environmental Assessment
- 4.4. Decision Making
- 4.5. Implementation and Monitoring

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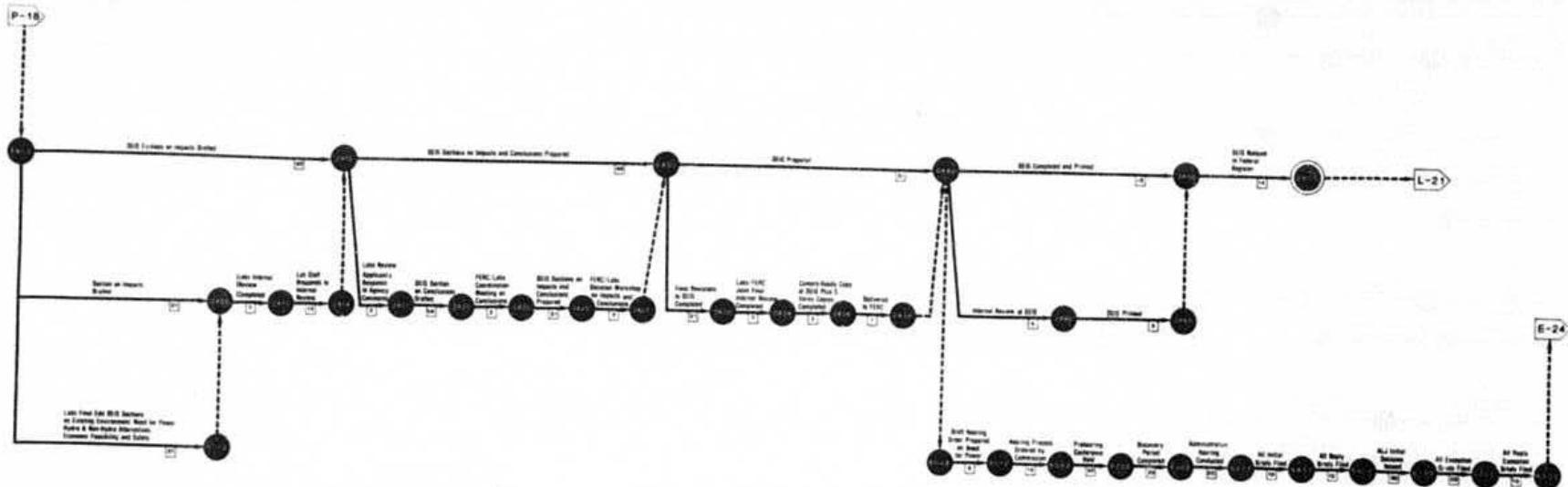
Susitna Hydroelectric Project LICENSING SCHEDULE

DOI: 10.1002/9781118465311.ch10



Susitna Hydroelectric Project LICENSING SCHEDULE

Level D
January 1, 1983



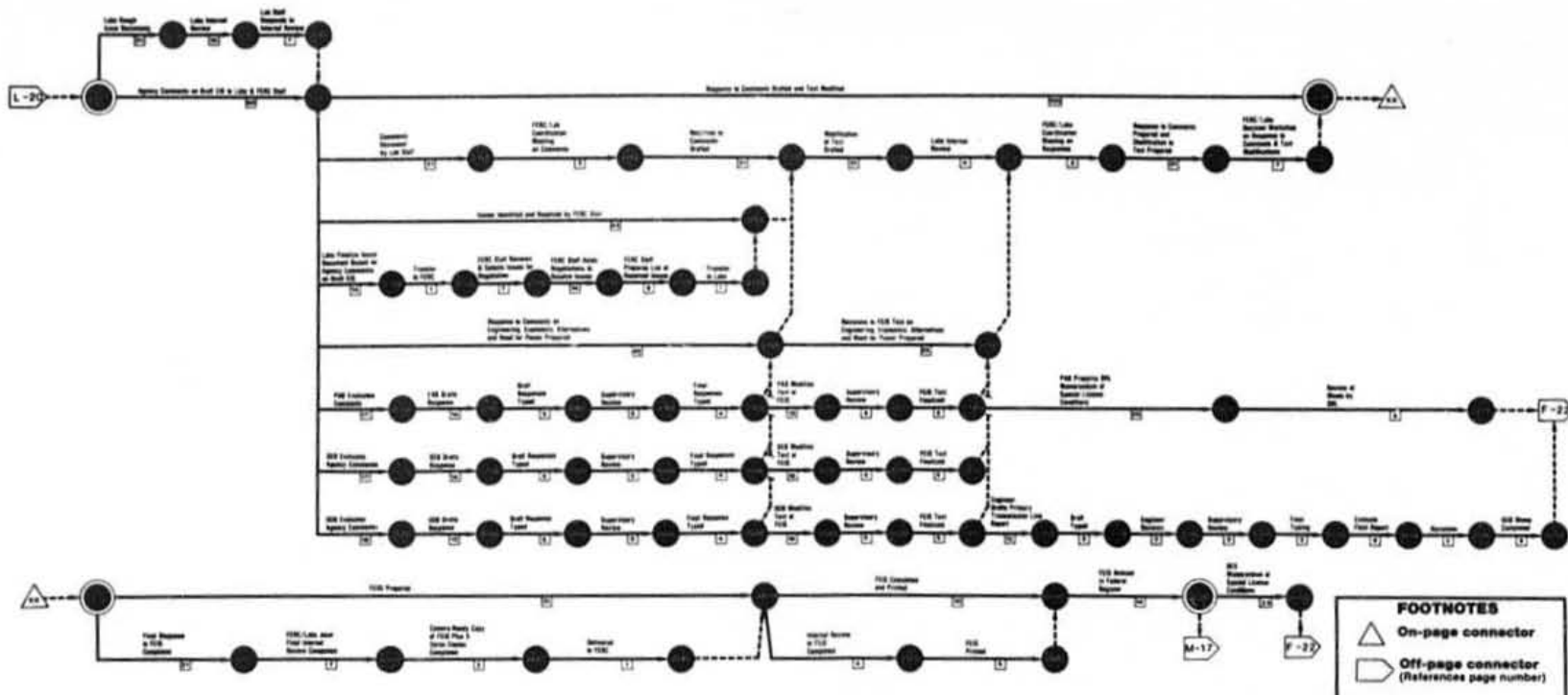
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**FINAL ENVIRONMENTAL
IMPACT STATEMENT**

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

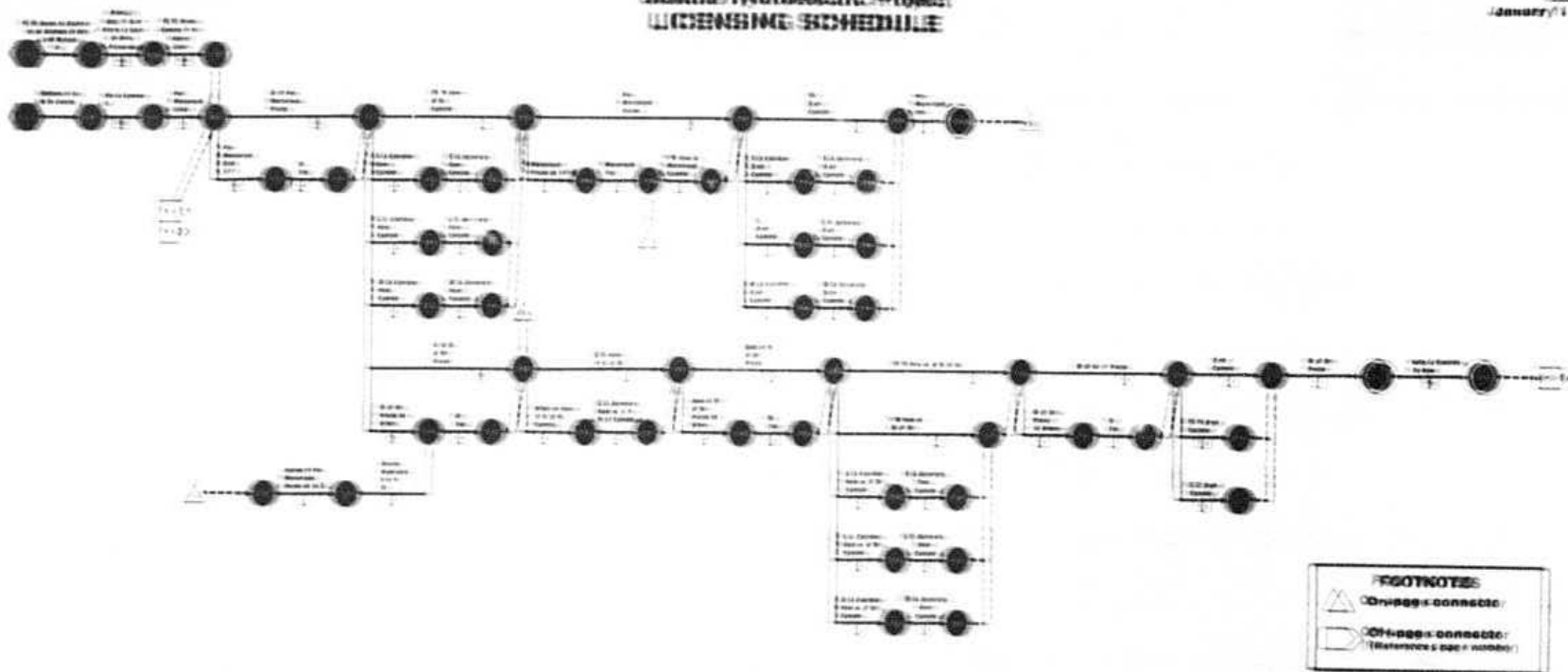
Level D
January 1, 1983



POWER MEMORANDUM

Basins Hydroelectric Project
LICENSING SCHEDULE

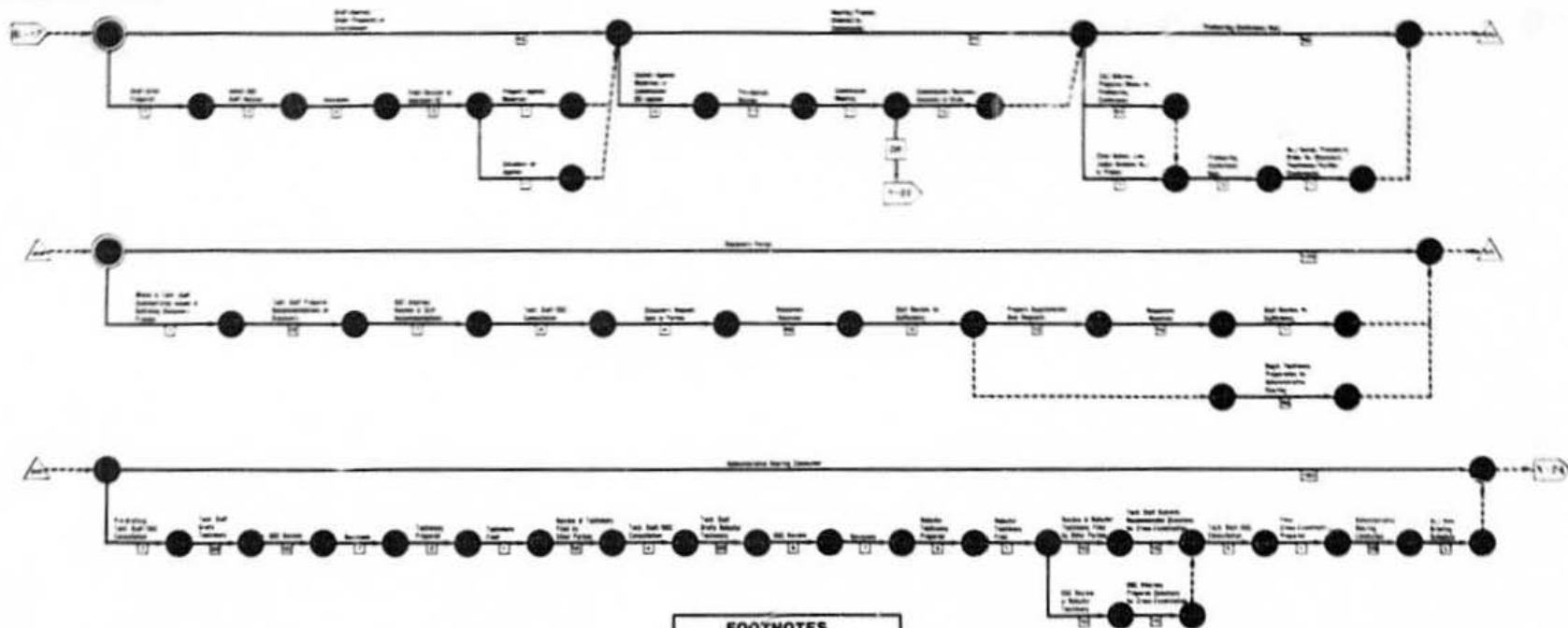
Leave 12
January 1, 1963



PREHEARING CONFERENCE,
DISCOVERY PERIOD &
ADMINISTRATIVE HEARING

Susitna Hydroelectric Project
LICENSING SCHEDULE

Level B
January 1, 1983



FOOTNOTES

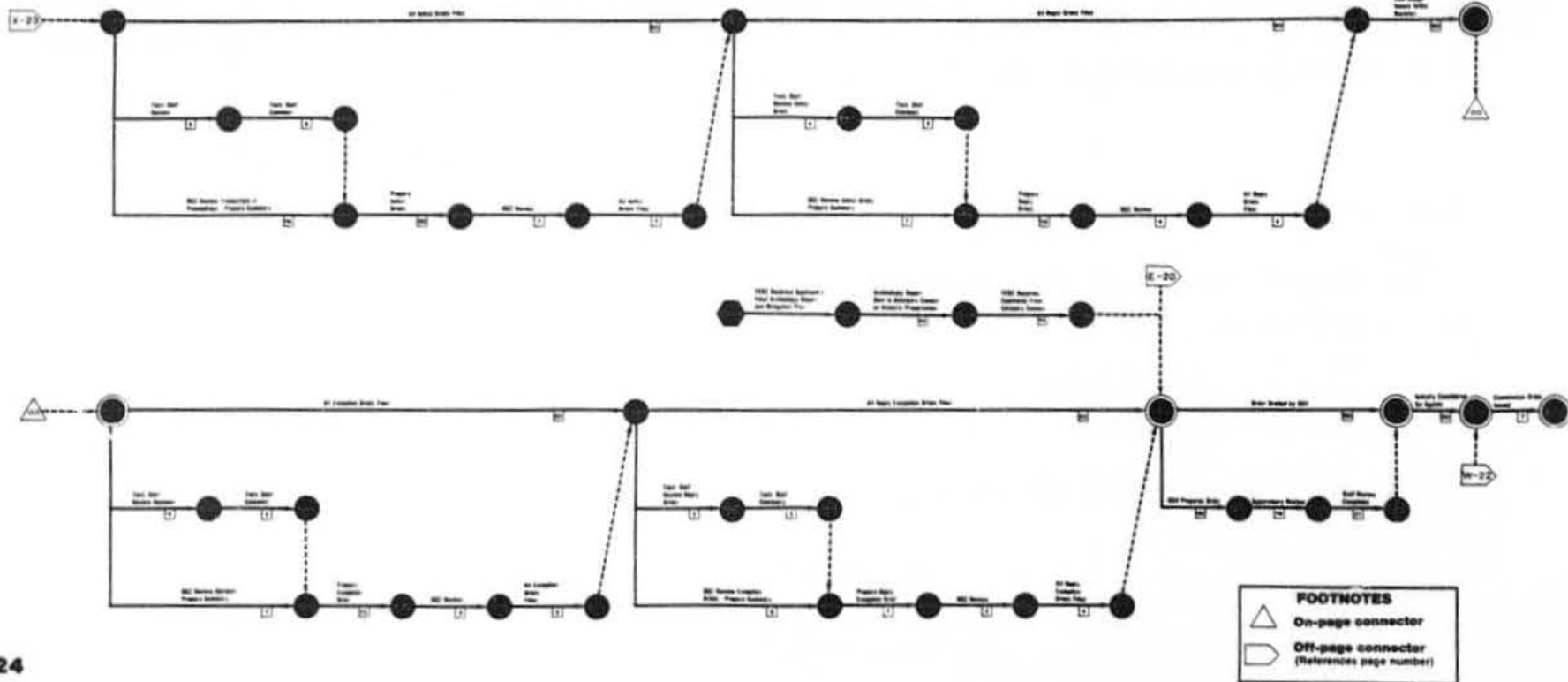
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**BRIEFING SCHEDULE &
ORDER ISSUANCE**

**Susitna Hydroelectric Project
LICENSING SCHEDULE**

Level D
January 1, 1983

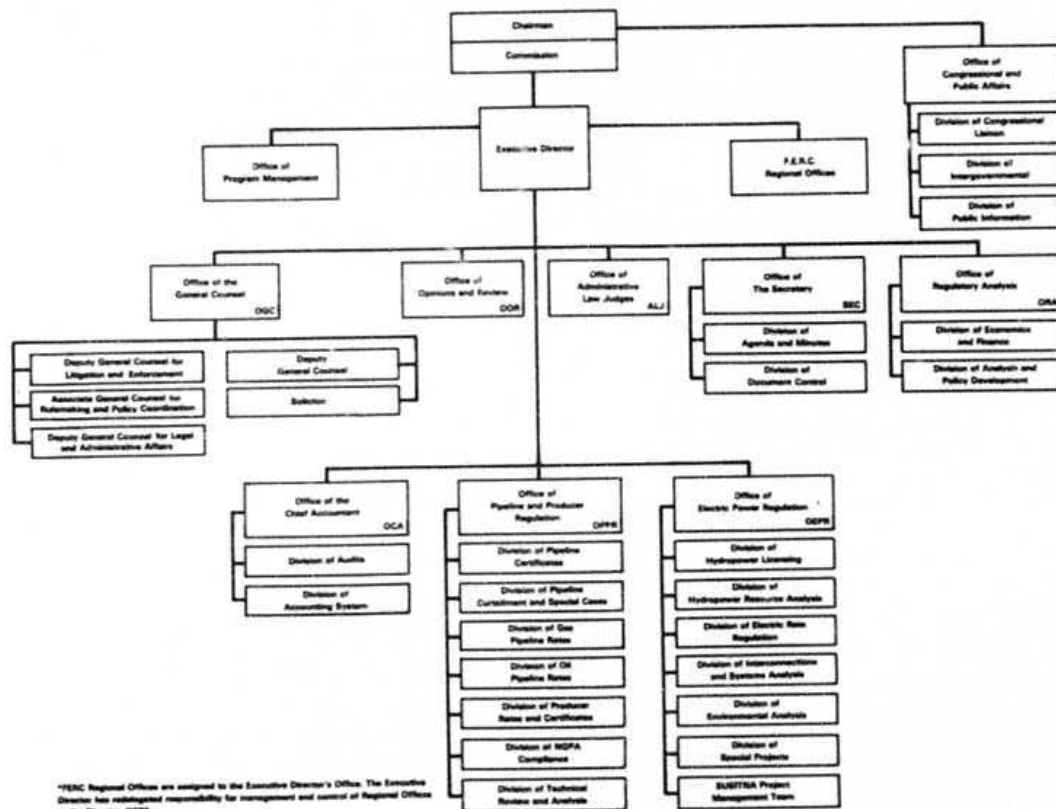


Appendices

APPENDIX A

Federal Energy Regulatory Commission (FERC)

Organization Chart



APPENDIX B

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, D.C. 20426

WE HAVE REFER TO:

September 22, 1982

MEMORANDUM TO: The Chairman
Commissioners
Executive Director
General Counsel

FROM: Lawrence E. Anderson *Lawrence E. 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, memos, directives and meetings will be coordinated by Mr. Wakefield. His phone number is 374-9233, and he will be located in room 301, 400 1st Street.

Attachment

Attachment A

SUSITNA PROJECT MANAGEMENT TEAM

The Susitna Hydroelectric Project in Alaska is among the larger hydroelectric projects (1420 MW) in the United States. The project is scheduled to be completed in 20 years at a cost in excess of \$5 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 project costs by approximately \$1 million. It is, therefore, imperative 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.

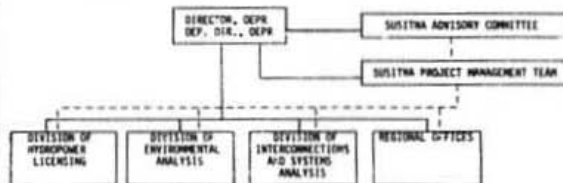
A special project management team has been formed to monitor and coordinate the pre-filing review of the Susitna Hydroelectric Project. It is the responsibility of this team to coordinate review of the application for adequacy and to advise APA concerning any deficiencies prior to formal filing.

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

- provides the necessary coordination and liaison with all divisions of OEPB, 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 applicant data.
- examines the pre-filing application to determine compliance with FERC Rules and Regulations.
- informs APA 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, OEPB, is also established. It is the responsibility of this Committee to secure adequate and timely technical input to the application process, highlight problem areas and potential delays, and recommend action to the Director of OEPB. The Susitna Advisory Committee is composed of the Deputy Director of OEPB, the Directors of the Divisions of Hydropower Licensing, Environmental Analysis, and Interconnection and Systems Analysis, and the Special Assistant to the Director, OEPB.

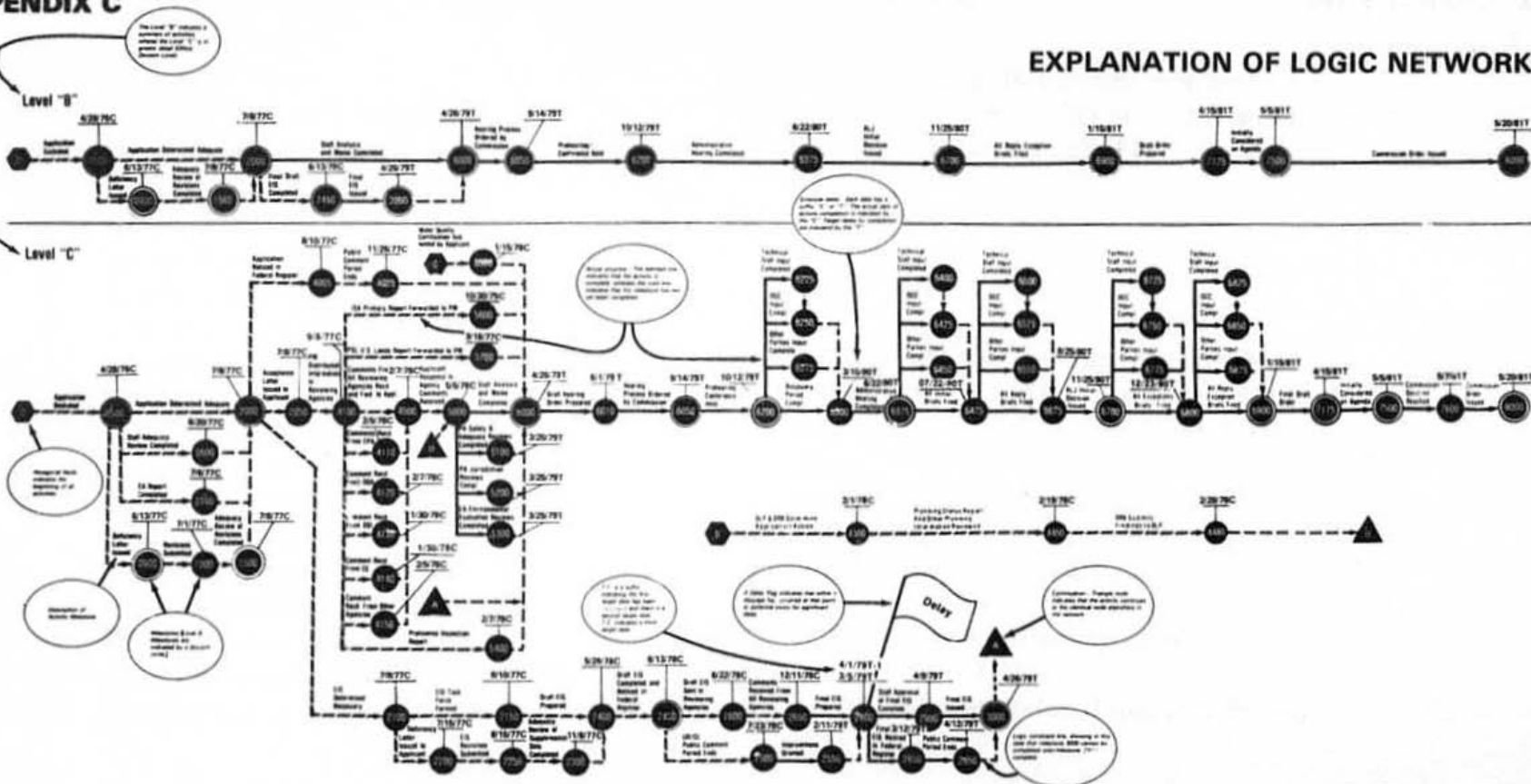
Attachment B



— REPORTING
--- COORDINATION

APPENDIX C

EXPLANATION OF LOGIC NETWORK



ABBREVIATIONS

APPENDIX D

AF	Acre Feet
ALJ	Administrative Law Judge
APA	Alaska Power Authority
BLM	Bureau of Land Management
C	Completion Date
CE	Corps of Engineers
DEA	Division of Environmental Analysis, FERC
DEIS	Draft Environmental Impact Statement
DHL	Division of Hydropower Licensing, FERC
DISA	Division of Interconnections and Systems Analysis, FERC
DOA	Department of Agriculture
DOE	Department of Energy
DOI	Department of the Interior
ED	Executive Director, FERC
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
FEIS	Final Environmental Impact Statement
FERC	Federal Energy Regulatory Commission

FPC	Federal Power Commission
ISIB	Interconnection and Special Investigation Branch, DISA, FERC
KV	Kilovolt
KW	Kilowatt
MW	Megawatt
N/A	Does Not Apply
NEA	National Energy Act
NEPA	National Environmental Policy Act
OEPR	Office of Electric Power Regulation, FERC
OGC	Office of General Counsel, FERC
OOR	Office of Opinions and Review, FERC
PAB	Project Analysis Branch, DHL, FERC
PM	Project Manager, FERC
PSLB	Power Site Lands Branch, DHL, FERC
SEB	System Evaluation Branch, DISA, FERC
SFRO	San Francisco Regional Office
T	Target Date
USGS	United States Geological Survey

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.

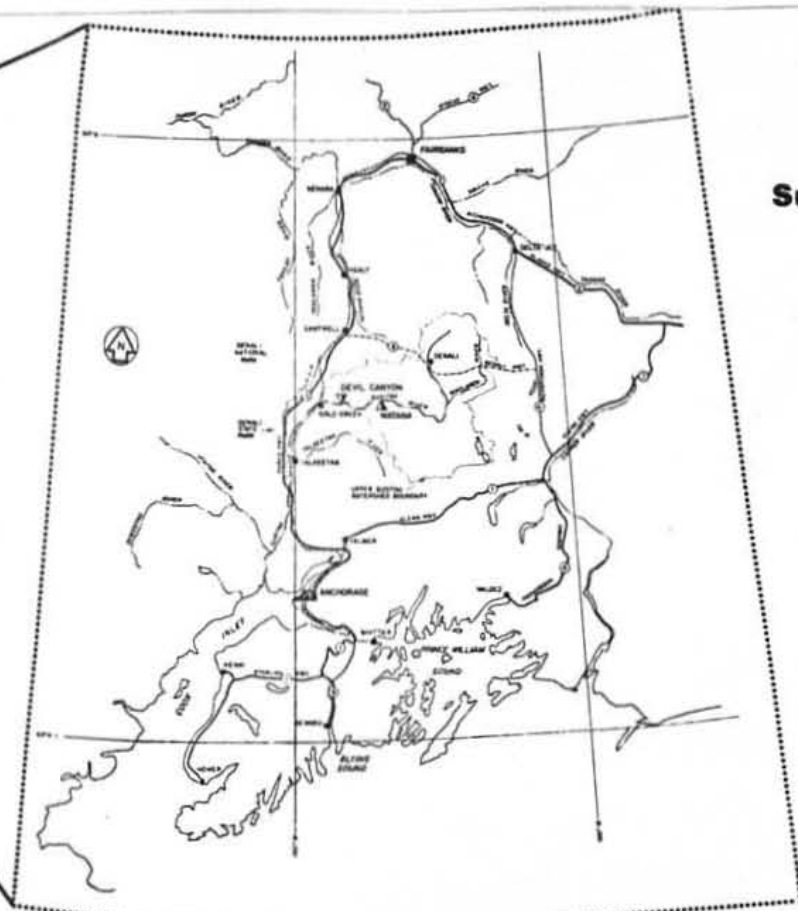
The Devil Canyon Development (See Devil Canyon General Arrangement) would include a 645-foot-high, double-curved, concrete thin arch dam forming a 26-mile-long reservoir with a surface area of 7,800 acres and a usable storage capacity of 350,000 acre-feet at normal maximum water surface elevation 1,455 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



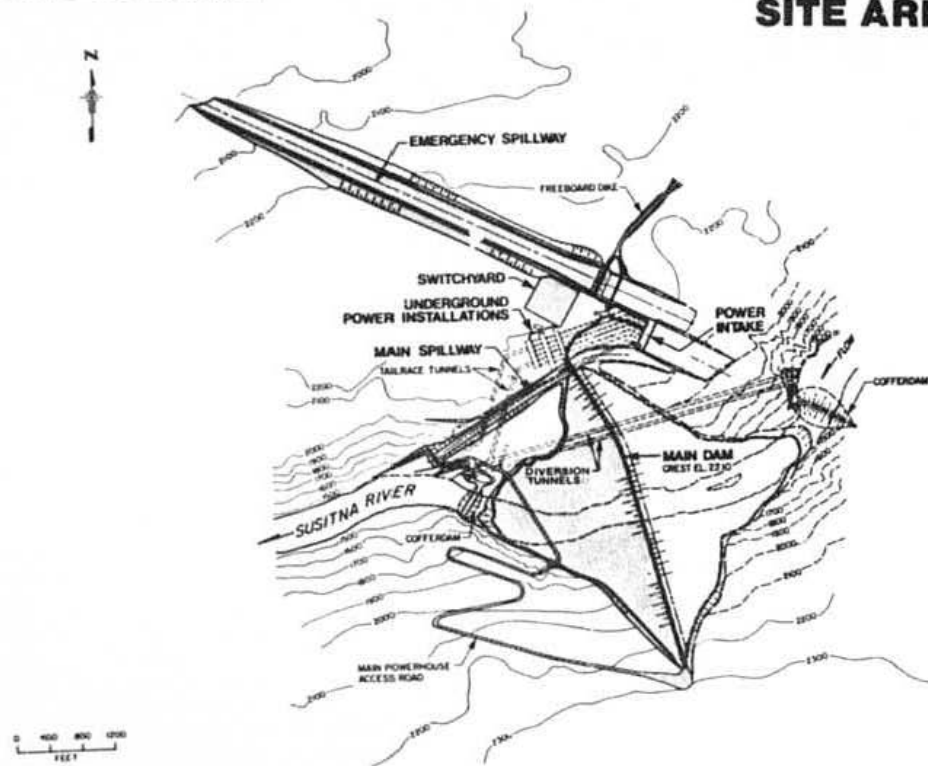
LEGEND

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

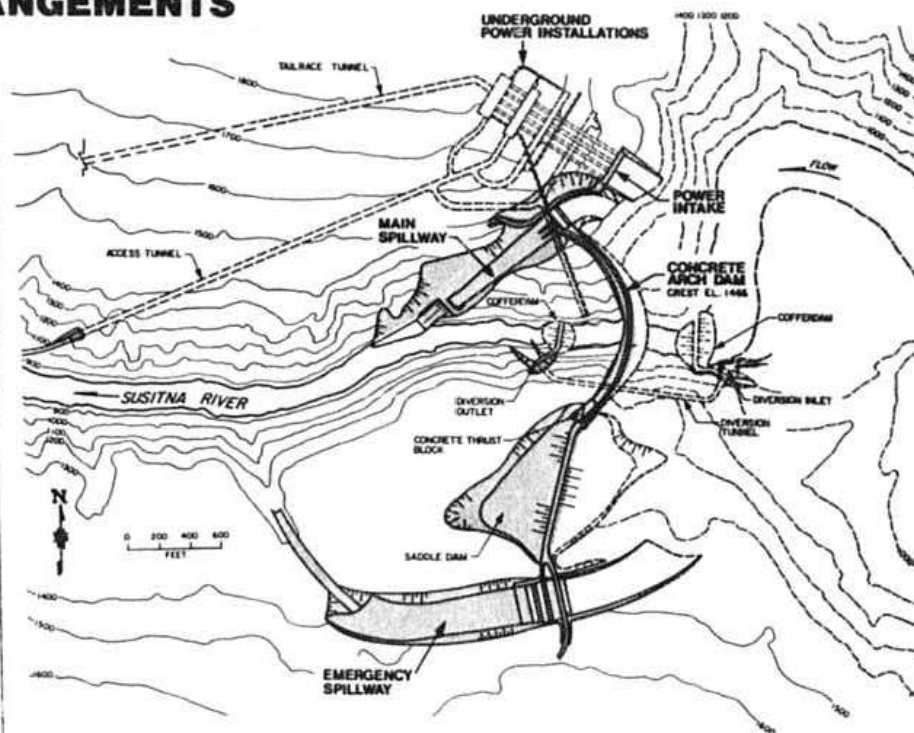
SCALE 0 25 50 MILES

APPENDIX G

Susitna Hydroelectric Project SITE ARRANGEMENTS



WATANA GENERAL ARRANGEMENT



DEVIL CANYON GENERAL ARRANGEMENT

**SUSITNA HYDROELECTRIC PROJECT
PRIMARY PERMITS AND APPROVALS THAT APA HAS DEEMED
NECESSARY PRIOR TO START OF CONSTRUCTION**

APPENDIX I

Federal

Hydroelectric License
Section 10 Permit
Section 404 Permit
National Pollution Discharge Elimination System Permit
Prevention of Significant Deterioration of Air Quality
Right-of-Way Grant & Temporary Use Permits
FISMA Section 303 Leases, Permits & Easements
Mineral Material Trade Use Permit
Endangered Species Act Section 7 Consultation

FERC
COE
COE
EPA
EPA
BLM
BLM
BLM
FWS

Key

ADPC Alaska Department of Environmental Conservation
ADFG Alaska Department of Fish and Game
ADNR Alaska Department of Natural Resources
ADPDP Alaska Division of Policy Development and Planning
BLM Bureau of Land Management
COE United States Corps of Engineers
EPA Environmental Protection Agency
FERC Federal Energy Regulatory Commission
FWS Fish and Wildlife Service

State

NPDES Certification
Certificate of Reasonable Assurance
Anadromous Fish Protection Permit
Fishways for Obstruction to Fish Passage
Water Rights Permit & Certificate of Appropriation
Land Use Permits
Dam Construction Permit
Material Acquisition
Alaska Coastal Management Program Certificate of Consistency
Right-of-Way Permit for an Easement
Land Lease

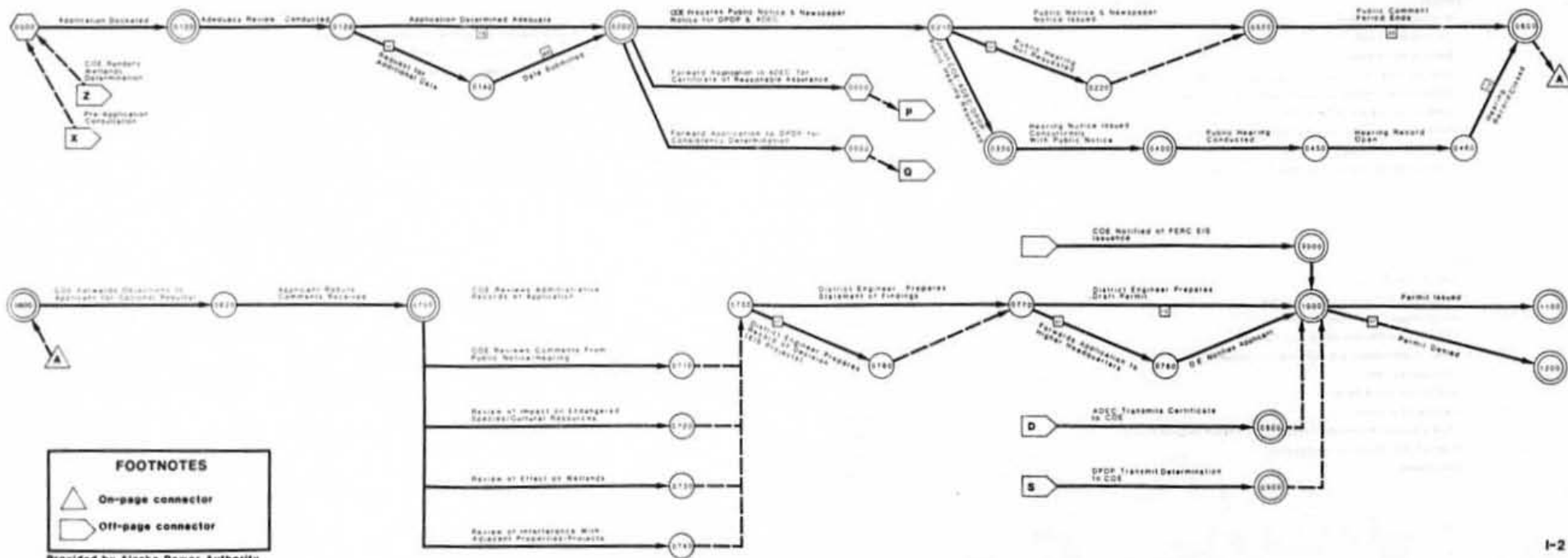
ADPC
ADPC
ADFG
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ADNR
ADNR
ADNR
ADNR
ADPDP
ADNR
ADNR

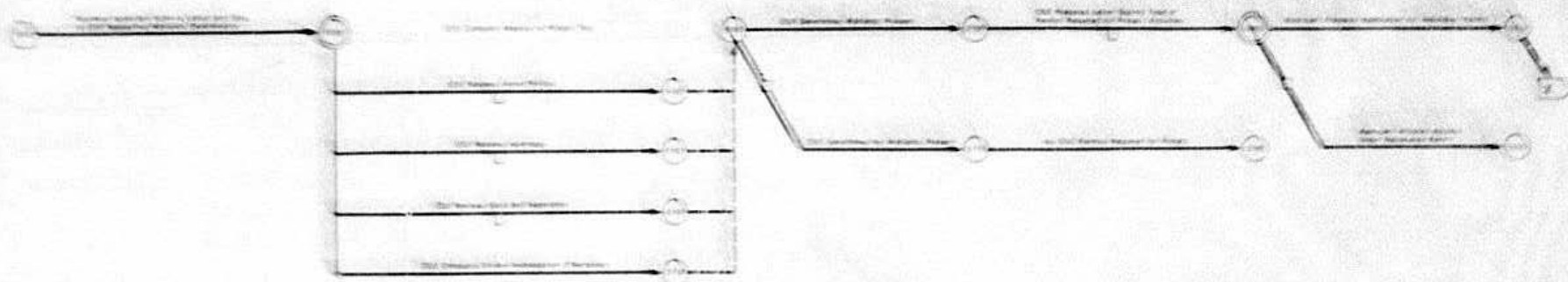
Corps of Engineers:

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

January 1983





Re-application Consultant: S. J. 2001 501

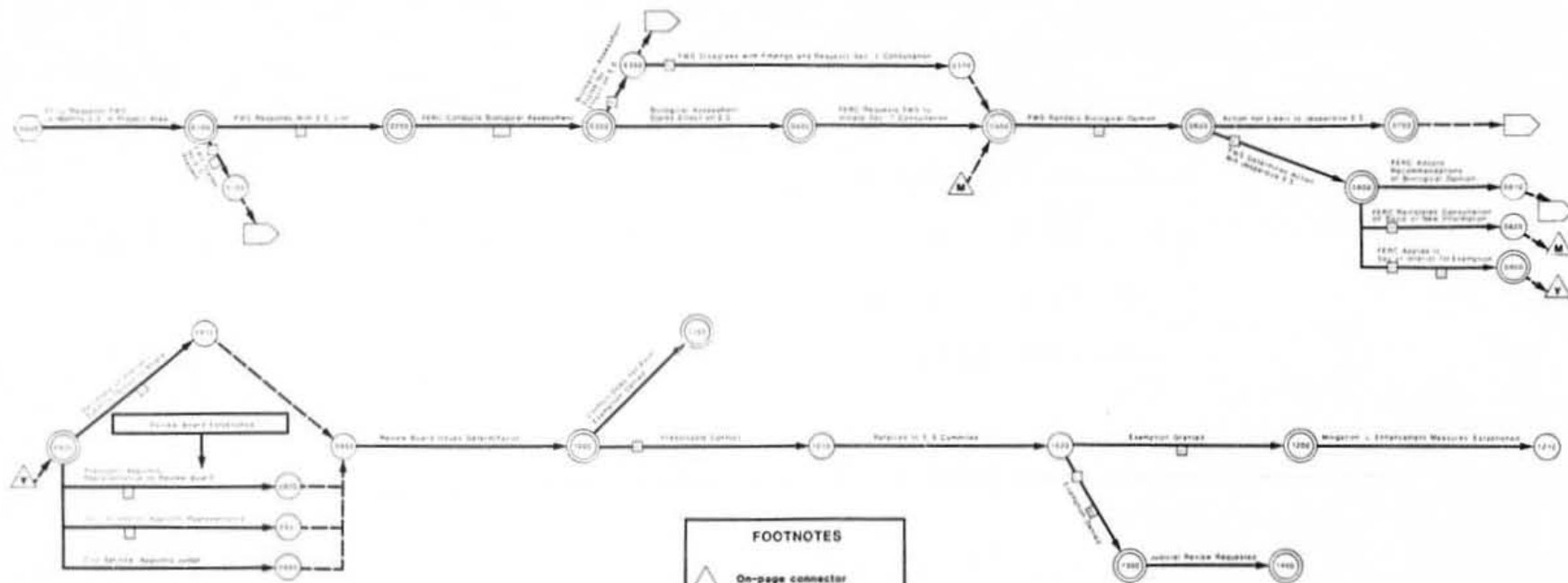


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Prepared by: Swains Power Authority

Susitna Hydroelectric Project FEDERAL PERMITS

January 1993



FOOTNOTES

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□ Off-page connector

Provided by Alaska Power Authority

Grant of Right-of-Way 43 U.S.C. 1761 et. seq.
Temporary Use Permit 43 U.S.C. 1761
FLPMA Sec. 302 Permits, Easements & Leases 43 U.S.C. 1732 et. seq.
Free Use Permit for Gravel 30 U.S.C. 601-603

January 1949



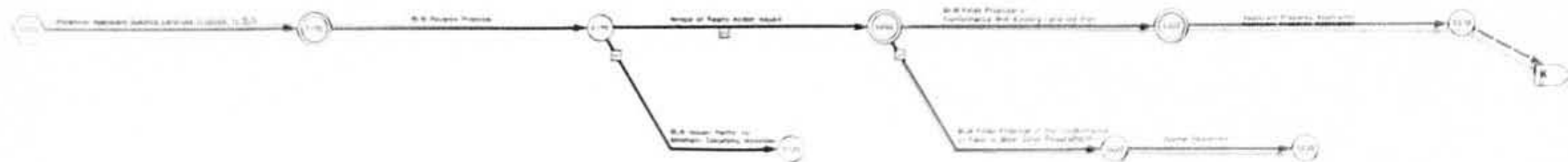
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Provided by Alaska Power Authority

Susitna Hydroelectric Project FEDERAL PERMITS

January 1983

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



Department of the Interior
Pre-application Meeting 43 U.S.C. 1731 et. seq.



FOOTNOTES

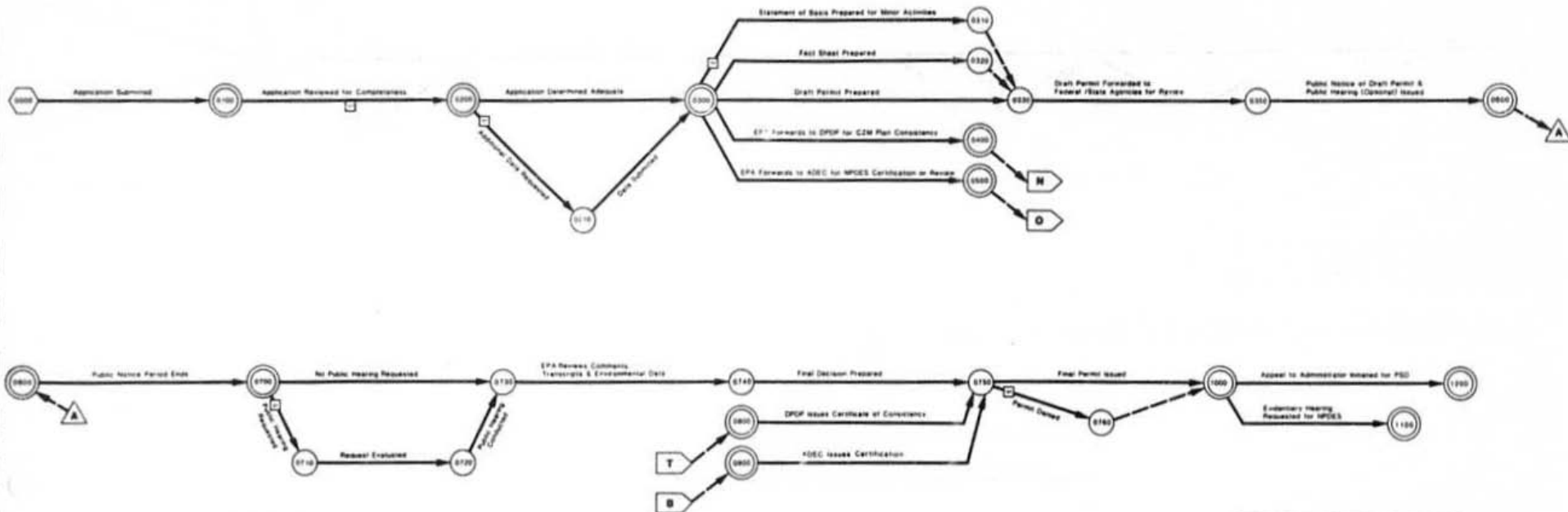
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Provided by Alaska Power Authority

Environmental Protection Agency
 Natural Pollutant Discharge Elimination System (NPDES) Permit 33 U.S.C. 466 et. seq.
 Prevention of Significant Deterioration (PSD) Permit P.L. 91-604 as Amended

Susitna Hydroelectric Project
 FEDERAL PERMITS

January 1983



FOOTNOTES

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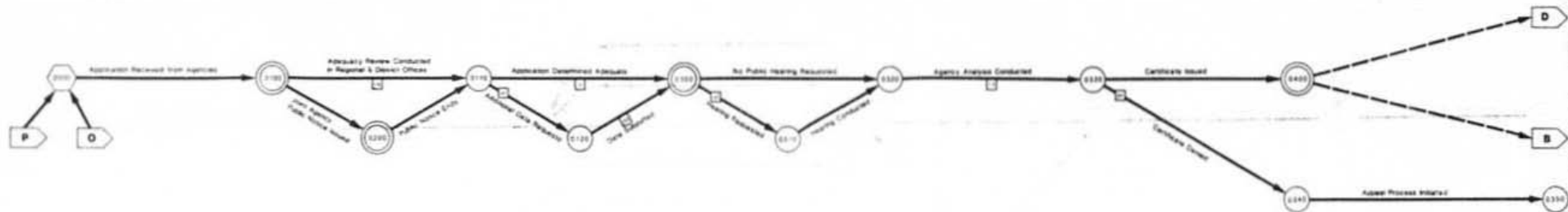
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Provided by Alaska Power Authority

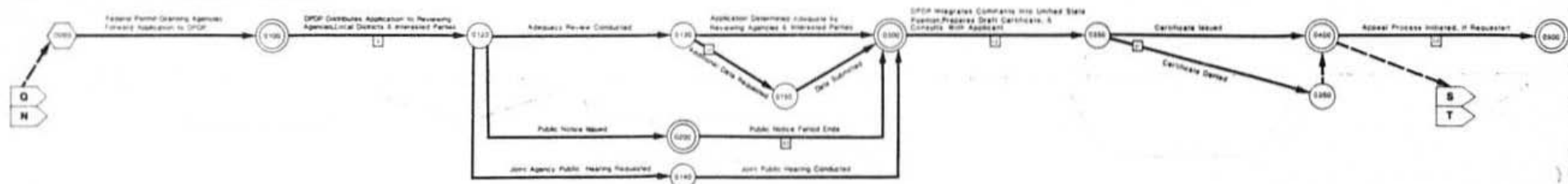
Alaska Department of Environmental Conservation:
Certificate of Reasonable Assurance 33 U.S.C. 466 et. seq. AS 46.03.100
NPDES Certification 18 ACC 15.130

Susitna Hydroelectric Project
STATE PERMITS

January 1983



Division of Policy Development & Planning
Alaska Coastal Management Program:
Certificate of Consistency P.L. 92-583 AS 46.40.040



FOOTNOTES

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Provided by Alaska Power Authority

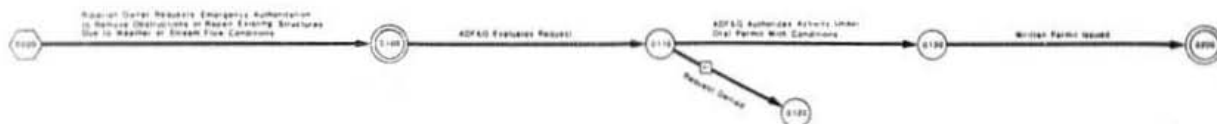
Susitna Hydroelectric Project STATE PERMITS

January 1983

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



Emergency Authorizations (Oral Permits) on Anadromous Waters AS 16.05.890



FOOTNOTES

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Provided by Alaska Power Authority

Land-Lease AS 38.05.070-AS 38.05.105 AS 38.05.315

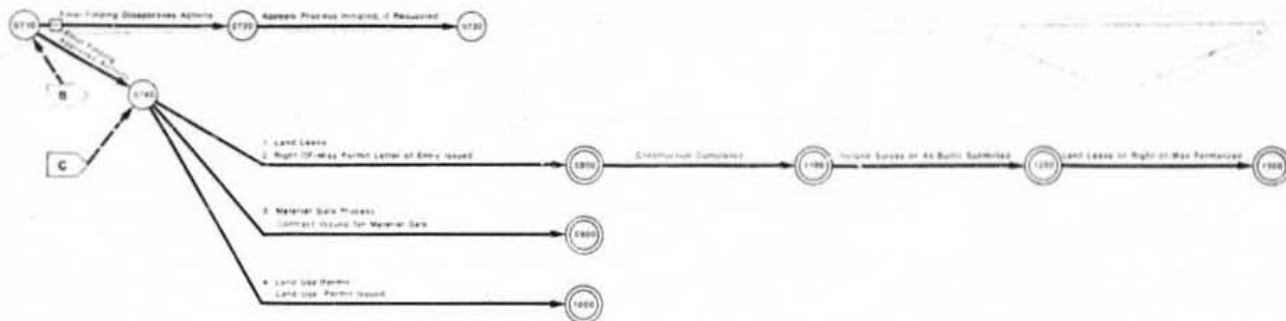
STATE PERMITS



Alaska Department of Natural Resources:

Susitna Hydroelectric Project
STATE PERMITS

Unpublished Internal to Department January 1983



Permit to Construct a Dam



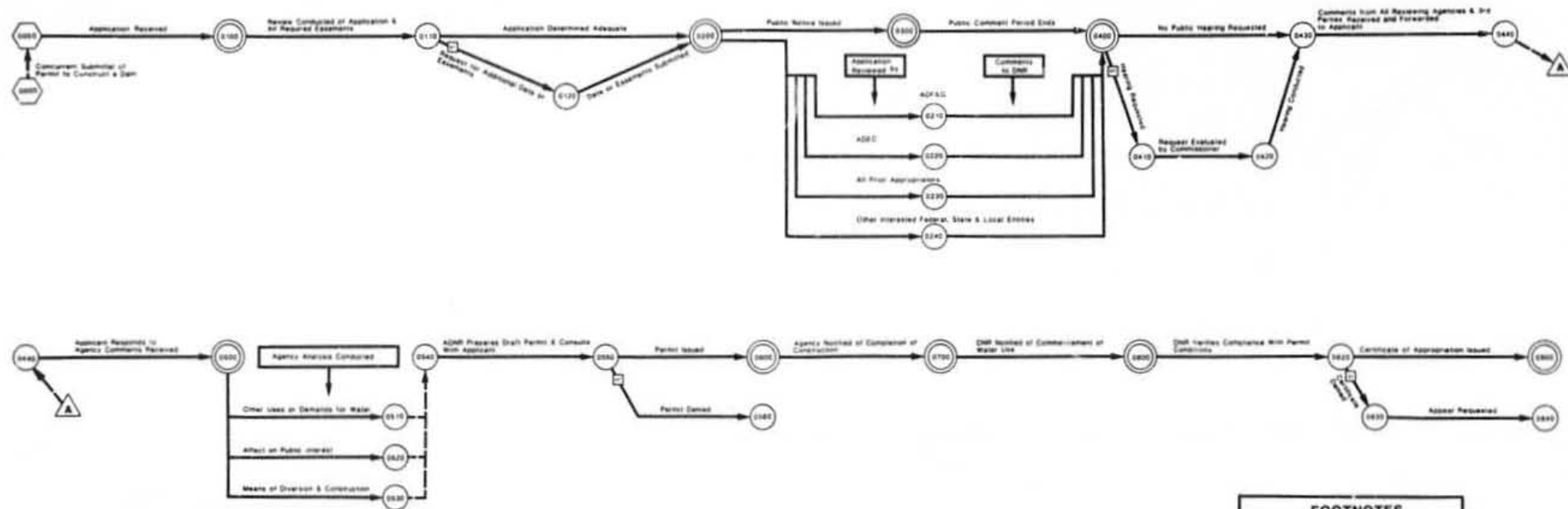
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Provided by Alaska Power Authority

Susitna Hydroelectric Project
STATE PERMITS

January 1983



FOOTNOTES

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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
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P.O. Box 7002
Anchorage, Alaska 99510

Department of Energy
Director
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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
2110 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
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State

Alaska Department of Environmental Conservation
Pouch O
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Alaska Department of Fish and Game
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Juneau, Alaska 99801

Alaska Department of Natural Resources
Pouch M
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Alaska Department of Public Safety
450 Whittier Street
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Alaska Public Utilities Commission
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Alaska State-Federal Coordinator
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Office of the Governor
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State Historic Preservation Officer
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