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Susitna Hydroelectric Project A Historic and Policy Perspective

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Abstract

The presentation will include a brief history of past studies. Those studies assessed a number of possible developments within the Susitna Basin, including over 20 potential dam sites along the Susitna River. The proposed development of dams at the Watana and Devil Canyon sites will be discussed. The progress of the environmental studies over the past four years, development of previous studies, and the current FY85 Study Plan will be reviewed. In addition to the historic perspective, a brief description of the Power Authority's ongoing settlement process will be presented. This will include a discussion of the workshops, issue papers, and the Instream Flow Relationships Reports (IFRR) which are a part of this year's FY85 Study Plan.

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ALASKA POWER AUTHORITY

PURPOSE

PROMOTE, DEVELOP, AND ADVANCE THE GENERAL PROSPERITY AND ECONOMIC WELFARE OF THE PEOPLE OF ALASKA BY PROVIDING A MEANS OF CONSTRUCT-ING, ACQUIRING, FINANCING AND OPERATING HYDROELECTRIC AND FOSSIL FUEL GENERATING PROJECTS.

~ FINANCING

- ~ FEASIBILITY STUDY FUNDING
- ~ DEVELOP, OWN AND LEASE
- ~ DEVELOP, OWN, OPERATE AND WHOLESALE

PREVIOUS STUDIES

- ~ COE 1979
- ~ COE 1975
- ~ KAISER 1974
- ~ AP ADMINISTRATION 1974
- ~ WPRS (USBR) 1960
- ~ WPRS (USBR) 1953

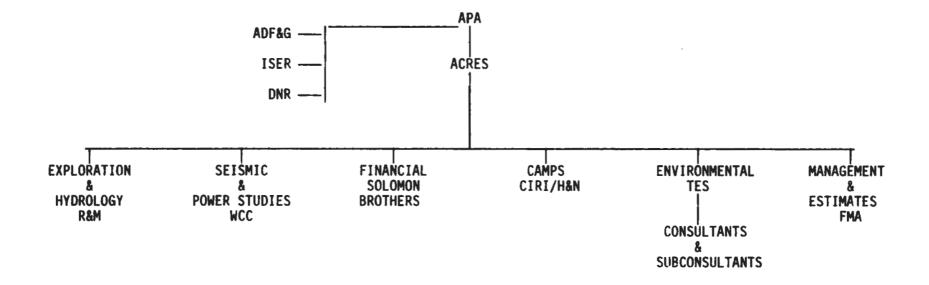
6093/199/D2/11

SUSITNA PLAN OF

STUDY

STATUS REPORT

6093/199/D2/9



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TASKS

- 1 POWER STUDIES
- 2 SURVEYS & CAMPS
- 3 HYDROLOGY
- 4 SEISMIC STUDIES
- 5 GEOTECHNICAL EXPLORATION
- 6 DESIGN DEVELOPMENT
- 7 ENVIRONMENTAL STUDIES
- 8 TRANSMISSION
- 9 COSTS & SCHEDULES
- 10 LICENSING
- 11 MARKETING & FINANCE
- 12 PUBLIC PARTICIPATION
- 13 ADMINISTRATION

HYDROLOGY

- DATA ACQUISITION
- ~ WATER RESOURCES
- ~ FLOODS
- * HYDRAULIC & ICE
- SEDIMENT
- ~ CLIMATE
- ~ ACCESS ROADS

LICENSING

- " NEW REGULATIONS
- DATA ACQUISITION
- ~ EXHIBITS
- APPLICATION FORM
- ~ REVIEW
- ~ FILING

ENVIRONMENTAL

- FIELD ACTIVITIES
- ALTERNATIVES
- " WATER QUALITY
- ~ SOCIO ECONOMICS
- ~ CULTURAL RESOURCES
- ~ LAND USE
- ~ RECREATION
- FISH & WILDLIFE
- ~ VEGETATION
- ~ LICENSING

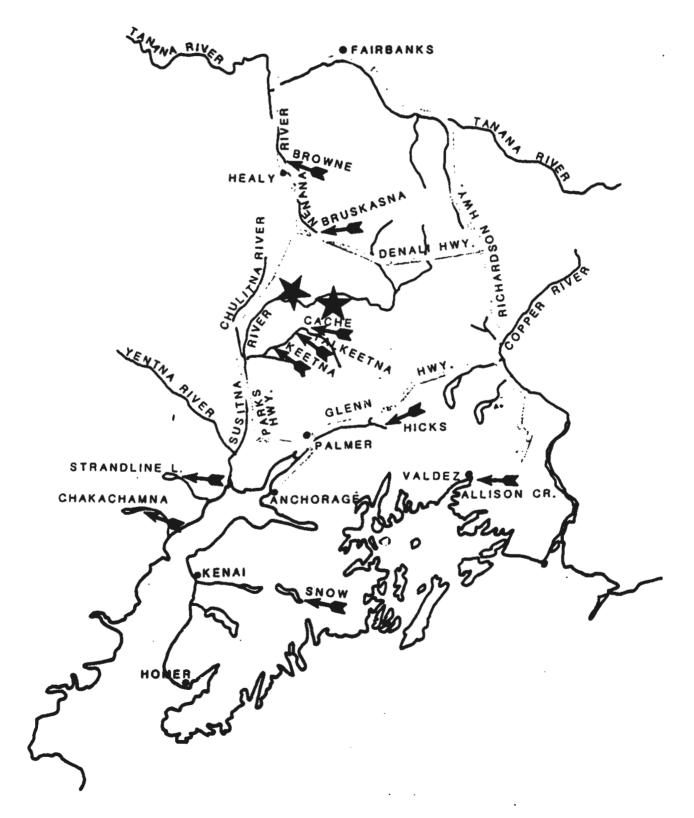
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SELECTION CRITERIA

ENERGY CONTRIBUTION

- ~ DEPENDABILITY
- ~ ECONOMICS
- RESOURCES CONSERVATION
- SEISMIC CONSEQUENCES
- GEOTECHNICAL UNKNOWNS
- ENVIRONMENTAL IMPACTS

SELECTED ALTERNATIVE HYDROELECTRIC SITES



TEN SELECTED SITES

SITE	RIVER	CAPACITY (MW)	COST (MILLIONS)
SNOW	SNOW	50	255
BRUSKASNA	NENANA	30	238
KEETNA	TALKEETNA	100	477
CACHE	TALKEETNA	50	564
BROWNE	NENANA	100	625
TALKEETNA 2	TALKEETNA	50	500
HICKS	MATANUSKA	60	529
CHAKACHAMNA	CHAKACHAMNA	330	1,480
ALLISON	ALLISON CREEK	8	54
STRANDLINE LAKE	BELUGA	20	126

POTENTIAL DAM SITES

- ~ DEVIL CANYON
- ~ HIGH DEVIL CANYON (SUSITNA I)
- ~ WATANA

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- ~ SUSITNA III
- ~ VEE
- ~ MAC LAREN
- ~ DENALI

PROJECT HISTORY

0	POWER AUTHORITY ASSUMED PROJECT	1979
0	FEASIBILITY STUDY STARTED	1980
0	FEASIBILITY STUDY COMPLETED	1982
0	FERC LICENSE FILED	FEB 1983
0	REVISED LICENSE INFORMATION FILED	JUL 1983
0	LICENSE APPLICATION ACCEPTED	JUL 1983
0	STARTED SETTLEMENT PROCESS	NOV 1983
0	AGENCY COMMENTS RECEIVED	DEC 1983
0	POWER AUTHORITY RESPONSE TO COMMENTS FILED	JAN-FEB 1984

SUSITNA HYDROELECTRIC PROJECT

FEDERAL ENERGY REGULATORY COMMISSION PROJECT No. 7114

> DRAFT AQUATIC PLAN OF STUDY FISCAL YEAR 1985

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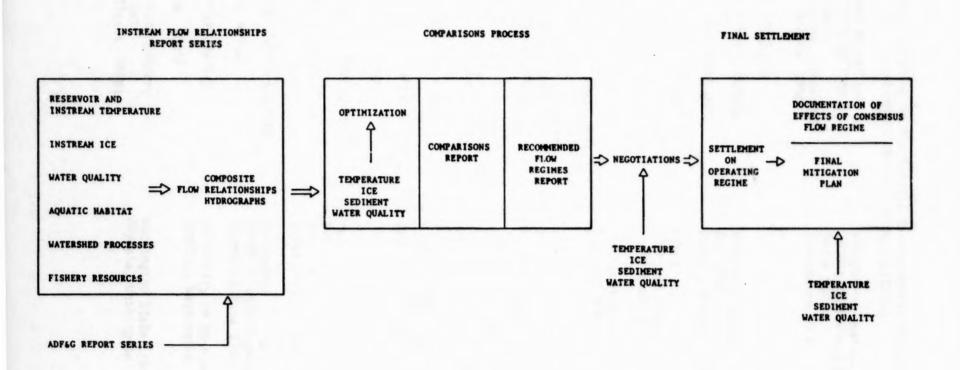
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MARCH 1984 DOCUMENT No. 591

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ALASKA POWER AUTHORITY

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Final reports relating to the Susitna Hydroelectric Project are available for inspection at the following locations:

Alaska Power Authority Susitna Project Office 515 D. Street, Hoblit Building, Suite 200 Anchorage, Alaska 99501

Depository Libraries

Alaska Historical Library Pouch G Juneau, Alaska 99811-0571

Alaska Resources Library 701 "C" Street Anchorage, Alaska 99513

Alaska State Library Pouch G Juneau, Alaska 99811-0571

Center for Research Libraries 5721 Cottage Grove Avenue Chicago, Illinois 60637

University of Alaska Library 3211 Providence Drive Anchorage, Alaska 99508

Fairbanks North Star Borough Public Library Noel Wien Memorial Library 1215 Cowles Street Fairbanks, Alaska 99701

A. Holmes Johnson Public Library Box 985 Kodiak, Alaska 99615

Kegoayah Kozga Public Library Box 1168 Nome, Alaska 99762

Kenai Community Library Box 4380 Kenai, Alaska 99611

Ketchikan Public Library 629 Dock Street Ketchikan, Alaska 99901 Pillsbury, Madison & Sutro 1050 17th Street, N.W. Suite 900 Washington, D.C. 20036

Kuskokwim Consortium Library Box 1068 Bethel, Alaska 99559

Library of Congress 10 First Street, S.E. Washington, D.C. 20540

Z.J. Loussac Public Library 524 West 6th Avenue Anchorage, Alaska 99501

National Library of Canada 395 Wellington Street Ottawa, Canada KIA ON4

Rasmuson Library, U of A 310 Tanana Drive Fairbanks, Alaska 99701

Seattle Public Library 1000 Fourth Avenue Seattle, Washington 98104

Sheldon Jackson College Stratton Library Box 479 Sitka, Alaska 99835

University of Alaska Library 11120 Glacier Highway Juneau, Alaska 99801

University of Washington Library Seattle, Washington 98195

Washington State Library Olympia, Washington 98504 Final reports relating to the Susitna Hydroelectric Project are available for inspection at the following locations:

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University of Washington Library Seattle, Washington 98195

Washington State Library Olympia, Washington 98504

SUSITNA SETTLEMENT PROCESS

START-OFF MEETINGS

ISSUES LIST DISTRIBUTED

BRIEFING ON ISSUES LIST

WORKSHOPS IMPLEMENTED

" MONTHLY SETTLEMENT UPDATE NEWSLETTER

6093/199/D2/13

SETTLEMENT PROCESS

- DESCRIPTION OF INTENDED DEVELOPMENT
- IDENTIFICATION & QUANTIFICATION OF IMPACTS
- " DEVELOPMENT OF PLANS TO AVOID OR MITIGATE IMPACTS
- NEGOTIATIONS WITH AGENCIES TO AGREE ON ACCEPTABLE AVOIDANCE/MITIGATION PLANS

PROCESS DETAILS

- IDENTIFY ISSUES
- DEVELOP POSITIONS
- ISSUE POSITION PAPERS
- " HOLD WORKSHOPS
- HOLD AGENCY MEETINGS
- DRAFT MEMORANDA OF AGREEMENT
- * NEGOTIATE MEMORANDA OF AGREEMENT
- PERMITS & FERC LICENSE CONDITIONS

MAJOR ISSUE CATEGORIES

AQUATIC

- ~ ALTERED FLOW REGIME
- ~ ALTERED WATER QUALITY
- ~ ICE PROCESS/CHANNEL MORPHOLOGY
- IMPOUNDMENT IMPACTS

6093/199/02/16