

DRAFT

Susitna Hydroelectric Project
A Historic and Policy Perspective

Eric Marchegiani^{1/}
Alaska Power Authority
334 W. 5th Avenue
Anchorage, Alaska 99501
(907) 279-6611

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.

DRAFT

^{1/} Coordinator, Aquatic Studies, Alaska Power Authority

ALASKA POWER AUTHORITY

PURPOSE

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

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

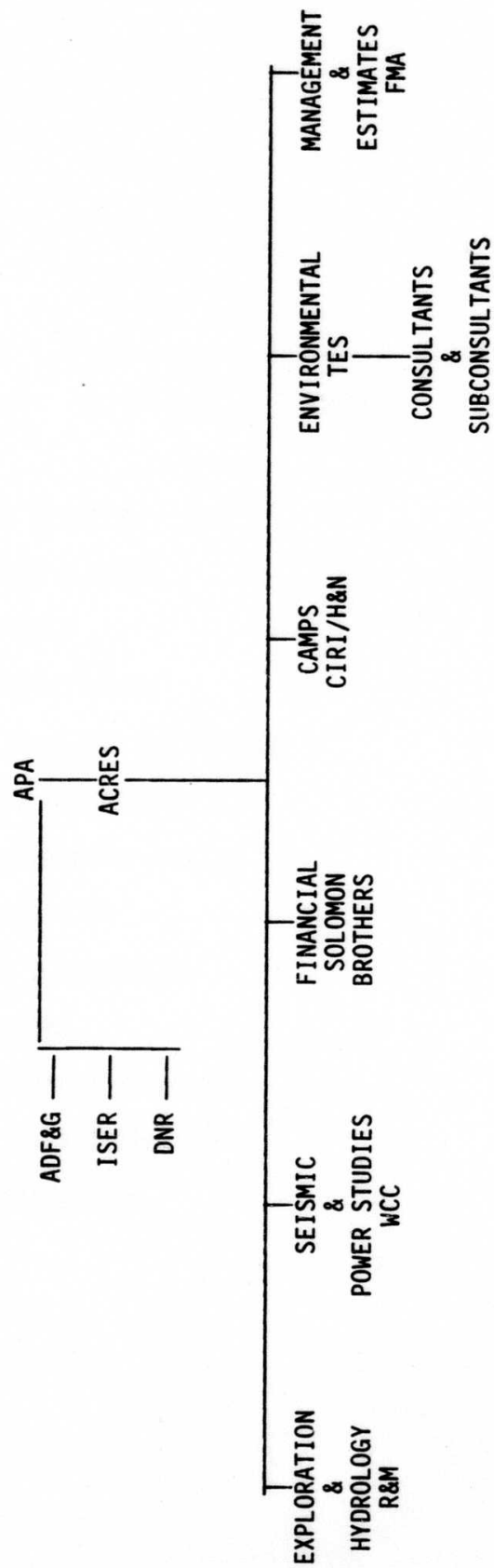
PREVIOUS STUDIES

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

SUSITNA PLAN OF

STUDY

STATUS REPORT



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

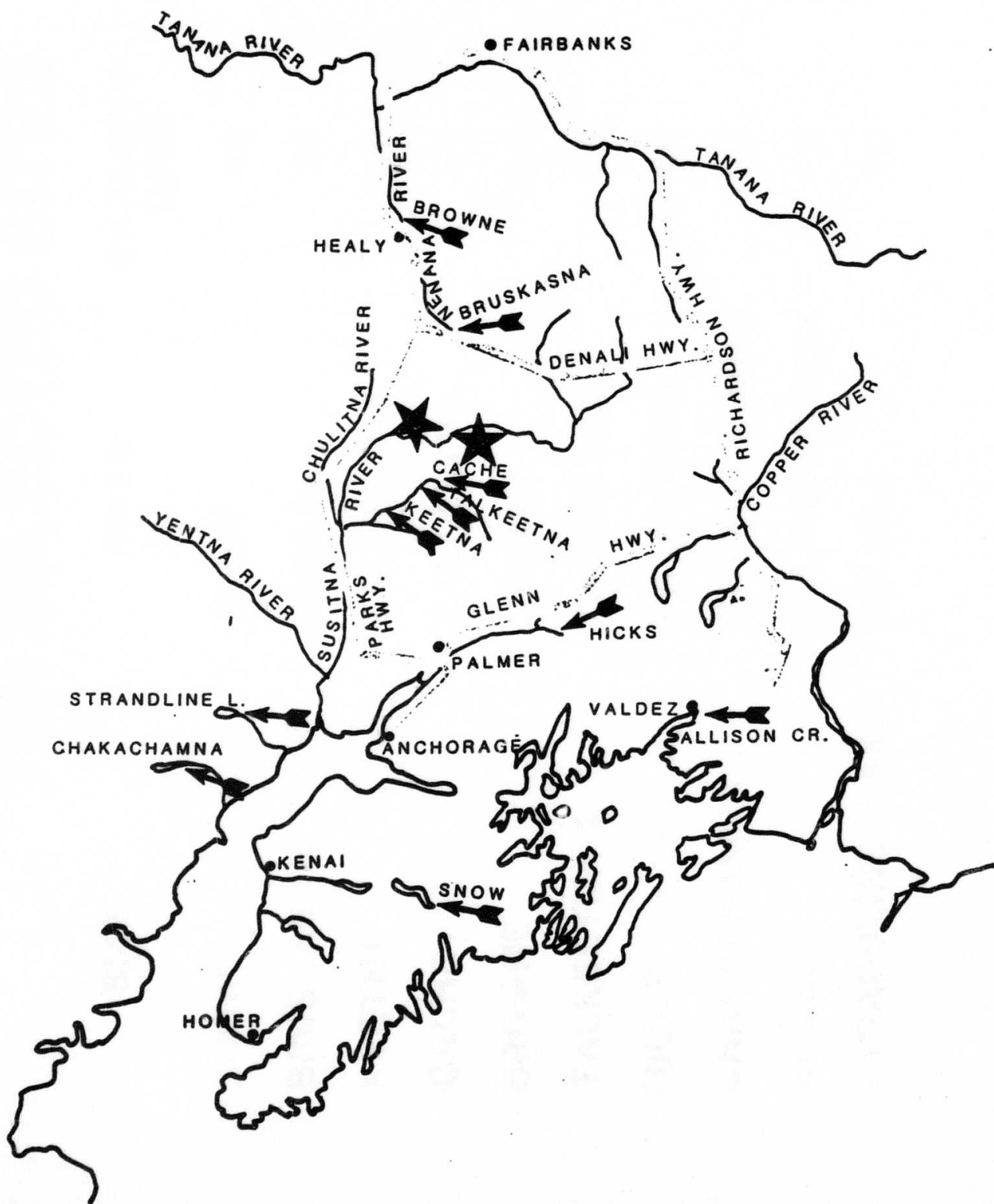
- ~ FIELD ACTIVITIES
- ~ ALTERNATIVES
- ~ WATER QUALITY
- ~ SOCIO ECONOMICS
- ~ CULTURAL RESOURCES
- ~ LAND USE
- ~ RECREATION
- ~ FISH & WILDLIFE
- ~ VEGETATION
- ~ LICENSING

SELECTED ALTERNATIVE HYDROELECTRIC SITES

SELECTION CRITERIA

- ~ ENERGY CONTRIBUTION
- ~ DEPENDABILITY
- ~ ECONOMICS
- ~ RESOURCES CONSERVATION
- ~ SEISMIC CONSEQUENCES
- ~ GEOTECHNICAL UNKNOWNNS
- ~ 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
- ~ SUSITNA III
- ~ VEE
- ~ MAC LAREN
- ~ DENALI

PROJECT HISTORY

○ POWER AUTHORITY ASSUMED PROJECT	1979
○ FEASIBILITY STUDY STARTED	1980
○ FEASIBILITY STUDY COMPLETED	1982
○ FERC LICENSE FILED	FEB 1983
○ REVISED LICENSE INFORMATION FILED	JUL 1983
○ LICENSE APPLICATION ACCEPTED	JUL 1983
○ STARTED SETTLEMENT PROCESS	NOV 1983
○ AGENCY COMMENTS RECEIVED	DEC 1983
○ 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**

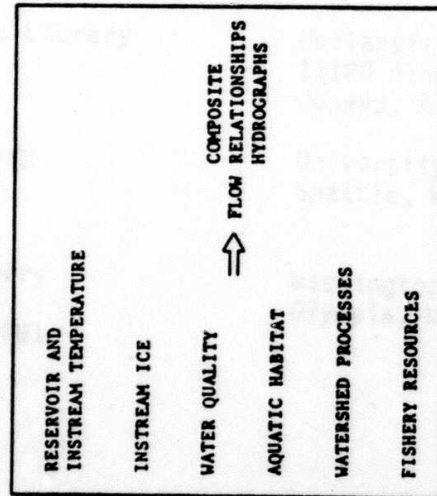
**HARZA-EBASCO
SUSITNA JOINT VENTURE**

DRAFT REPORT

**MARCH 1984
DOCUMENT No. 591**

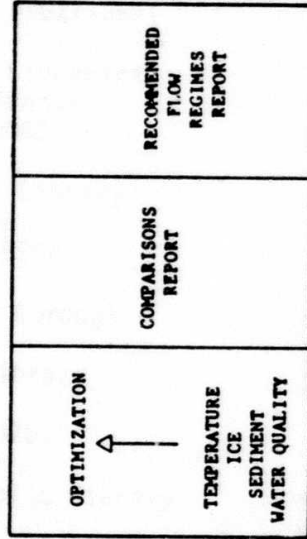
ALASKA POWER AUTHORITY

INSTREAM FLOW RELATIONSHIPS
REPORT SERIES



ADF&G REPORT SERIES

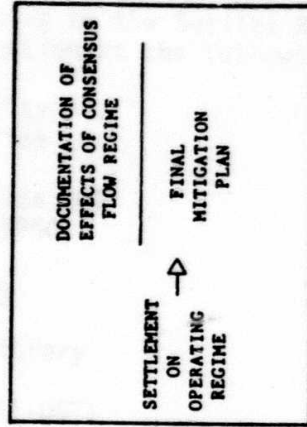
COMPARISONS PROCESS



NEGOTIATIONS

TEMPERATURE
ICE
SEDIMENT
WATER QUALITY

FINAL SETTLEMENT



TEMPERATURE
ICE
SEDIMENT
WATER QUALITY

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

Pillsbury, Madison & Sutro
1050 17th Street, N.W.
Suite 900
Washington, D.C. 20036

Depository Libraries

Alaska Historical Library
Pouch G
Juneau, Alaska 99811-0571

Kuskokwim Consortium Library
Box 1068
Bethel, Alaska 99559

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

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

Alaska State Library
Pouch G
Juneau, Alaska 99811-0571

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

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

National Library of Canada
395 Wellington Street
Ottawa, Canada KIA 0N4

University of Alaska Library
3211 Providence Drive
Anchorage, Alaska 99508

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

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

Seattle Public Library
1000 Fourth Avenue
Seattle, Washington 98104

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

Sheldon Jackson College
Stratton Library
Box 479
Sitka, Alaska 99835

Kegoayah Kozga Public Library
Box 1168
Nome, Alaska 99762

University of Alaska Library
11120 Glacier Highway
Juneau, Alaska 99801

Kenai Community Library
Box 4380
Kenai, Alaska 99611

University of Washington Library
Seattle, Washington 98195

Ketchikan Public Library
629 Dock Street
Ketchikan, Alaska 99901

Washington State Library
Olympia, Washington 98504

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SUSITNA SETTLEMENT PROCESS

- ~ START-OFF MEETINGS
- ~ ISSUES LIST DISTRIBUTED
- ~ BRIEFING ON ISSUES LIST
- ~ WORKSHOPS IMPLEMENTED
- ~ MONTHLY SETTLEMENT UPDATE NEWSLETTER

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