

K. JENER
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LIST OF DEFICIENCIES
Draft Susitna Application
Exhibit E

Prepared by
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and

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for

Division of Environmental Analysis
Federal Energy Regulatory Commission
Washington, DC 20426

UNIVERSITY OF ALASKA
ARCTIC ENVIRONMENTAL INFORMATION
AND CENTER
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ANCHORAGE, AK 99501

December 21, 1982

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GENERAL DEFICIENCIES

CONSULTATIONS

Applicants must attempt to consult with the appropriate federal, state, and local resource agencies in preparing their license application. Consultation must be documented, where possible, by appending to the Exhibit E a letter from each agency consulted that indicates the nature, extent, and results of consultation. Exhibit E must also contain a discussion of issues and conflicts identified during consultation and the steps proposed to resolve these issues.

In general, while Exhibit E of the draft Susitna application implies or makes reference to consultations in progress or completed, the required documentation and discussion of the consultations have not been included. In review of the draft application and preparation of the following list of deficiencies, it has been assumed that the applicant is cognizant of the FERC requirements concerning consultation and that the final license application will be complete in this respect. Therefore, deficiencies relative to consultations have not been explicitly included in the following list.

TRANSMISSION AND ACCESS ROUTES

Environmental information covering the proposed and alternative transmission and access routes (including the rail spur to Devil Canyon) must be provided in detail commensurate with the scope of the project. This information must be provided in the Exhibit E Reports on Water Use and Quality; Fish, Wildlife, and Botanical Resources; Historic and Archaeological Resources; Socioeconomics; Geological and Soil Resources; Recreational Resources; Aesthetics; Land Use; and Alternative Locations and Designs. The environmental information provided must be sufficient to allow for the analysis of impacts and the development of mitigation measures. Further, the transmission and access route selection process must be thoroughly discussed in the Report on Alternative Locations and Designs.

SPECIFIC DEFICIENCIES

2. WATER USE AND QUALITY

1. p. E-2-38, Sec. 3.2(b)(i) Provide the basis for the selection of proposed filling and operating target flows, and data sufficient to evaluate the ability of these flows to minimize downstream impacts.
2. Secs. 2, 3, 5 Quantify the effects of project operations on downstream nitrogen supersaturation and the effectiveness of cone valves in reducing nitrogen concentrations.
3. p. E-2-68, ¶ 2 Include data on reservoir surface area, volume, maximum depth, mean depth, shoreline length, and area-capacity curve.

3. FISH, WILDLIFE, AND BOTANICAL RESOURCES

1. Describe the existing grayling fishery resource in the Watana and Devil Canyon Reservoir area and the existing anadromous and other salmonid fishery resources in the Susitna River between the proposed dam sites and Talkeetna (population estimates). Further, quantify the project-related reductions in habitat required for successful reproduction and maintenance of these populations and estimates of any population losses projected, and the effectiveness of mitigation measures proposed to offset these losses.
2. p. E-3-120 Clearly indicate proposed mitigation measures, as opposed to potential mitigation measures, and describe proposed measures to the extent practical as required under 18 CFR 4.41 (f)(3)(iv), Parts C, D, and E.
3. p. E-3-165, ¶ 4, to p. E-3-186, ¶ 2 Provide a description of impacts to wetlands and floodlands resulting from construction and operation of the proposed project facilities.

4. p. E-3-279 to
p. E-3-372
- Describe anticipated impacts on human use (e.g., sport and subsistence harvesting) of the principal wildlife species in the project area.

5. SOCIOECONOMICS

1. p. E-5-38, ¶ 6;
p. E-5-124 ¶
- Provide onsite employment and payroll by month.
2. p. E-5-20, ¶ 2,
through
p. E-5-36, ¶ 2;
p. E-5-39, ¶ 3;
p. E-5-41, ¶ 1,
through
p. E-5-46, ¶ 2;
p. E-5-102
through
p. E-5-120;
Appendix E.5A,
(c)(iii)
- Provide the basis for the assumptions used in projecting residency and movement of construction workers.

6. GEOLOGICAL AND SOIL RESOURCES

1. p. E-6-1, ¶ 1
- Include a discussion of known and potential mineral resources in the project area.

7. RECREATION RESOURCES

1. p. E-7-61, ¶ 6
- Provide a base map of the project area in sufficient detail to illustrate the shoreline buffer zone within the project boundary. Provide mapping details to illustrate: (1) all existing recreational developments within and abutting the project boundary, (2) recreation facilities proposed for initial development, and (3) recreational facilities proposed for future development. Features that should be identified include: access roads and trails, and the number and types of facilities provided for shelter, camping, picnicking, boat docking and launching, etc. Provisions for sanitation and waste disposal should also be indicated.

9. LAND USE PATTERNS

1. p. E-9-19, ¶ 5, to p. E-9-20, ¶ 5 Identify and locate on appropriate maps wetlands and floodlands in the proposed project area.

10. ALTERNATIVE LOCATIONS, DESIGNS, AND ENERGY SOURCES

1. Provide a discussion of reservoir operation alternatives (reservoir release targets), as mentioned in Exhibit B, including variation in downstream flows and a qualitative comparison of the associated impacts.

Shortened title page and letter of transmittal

LIST OF DEFICIENCIES
Draft Susitna Application
Exhibit E

December 21, 1982

FEDERAL ENERGY REGULATORY COMMISSION

WASHINGTON 20426

December 22, 1982

OEPR-DEA
Susitna -
Alaska

Mr. Eric Yould
Executive Director
Alaska Power Authority
334 West 5th Avenue
Anchorage, Alaska 99501

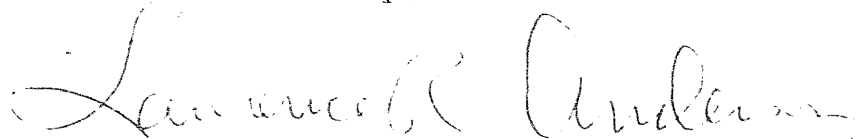
Dear Mr. Yould:

The Division of Environmental Analysis (DEA) has completed its preliminary review of the Draft Exhibit E for the Susitna Hydroelectric Project. The results of this review are attached and include a Marked-up Copy of the Exhibit E, a List of Deficiencies, and a List of Supplemental Information Needs and Clarifications.

This information is being made available in this draft form to allow APA the greatest opportunity to prepare an environmental report of scope and content adequate to support the proposed application. Final comment on the entire Draft Application, to include the Exhibit E, is scheduled for January 14, 1982.

Any questions concerning the DEA review should be directed to Mr. J. Mark Robinson at 202/376-9060.

Sincerely,



Lawrence R. Anderson
Director, Office of Electric
Power Regulation

Attachments: Marked-up Copy
List of Deficiencies
List of Supplemental Information Needs and
Clarifications