

ALASKA POWER AUTHORITY

SUSITNA HYDROELECTRIC PROJECT

PROGRESS REPORT

FOR

NOVEMBER, 1980

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT  
MONTHLY PROGRESS REPORT

REPORT NO. 11

PERIOD: November, 1980

Progress Report No. 11 covers activities on the Susitna Hydroelectric Project for the month of November 1980.

During the report period the results of the 2nd internal review board meeting were issued.

The limited work on Task 1 is continuing as scheduled.

The Task 2 surveys and operation of the site facilities are proceeding as scheduled. The Watana base camp is continuing to be operated with reduced winter staffing.

Work on Task 3, Hydrology, is proceeding as scheduled. Highlighting the activities of Task 3 for the report period were the continued stage and velocity recordings and observation of the ice cover formation for the Susitna River.

The Seismic Studies, Task 4, are proceeding as planned. The report summarizing the geologic, seismologic, and earthquake engineering information collected to date was issued in draft form during the report period.

Progress on Task 5, Geotechnical Exploration, is proceeding as planned. Work continued on the 1980 Geotechnical Report. Field work for the 1981 program is scheduled to begin in February 1981.

Work continued on Task 6, Design Development, during the report period. Work continued on the Alternative Susitna Developments with refinement of energy simulation runs for the preferred schemes. Work on the Arch Dam at Devil Canyon continued with further stress and stability analysis.

Task 7, Environmental Studies, is proceeding as scheduled. The Susitna Steering Committee comments on the Procedure Manuals were received and reviewed. Work continued on the Transmission Corridor Assessment with information gathering on corridors connecting Willow with Anchorage and Healy with Fairbanks. Work continued on the Fish, Wildlife, and Plant Ecology Studies with highlights being placed on the preparation of the Annual Reports.

Work on Task 8 continued as scheduled. A meeting was held at Commonwealth Associates offices to discuss the intertie and Susitna transmission. Work continued on the review of load forecasts to facilitate in developing design criteria and planning.

Work on Task 11, Marketing and Finance, continued during the report period. The procedures manual detailed table of contents and outline of the Project Overview Report (POR) was issued. APA forwarded to Acres the major issues to be addressed in their Spring 1981 statement to the Governor.

Work on Task 13, Project Administration, continued as scheduled.

### TASK 1 - POWER STUDIES

#### Subtask 1.01 - Review of ISER Work

The draft Closeout Report for this activity was submitted to the APA.

#### Subtask 1.02 - Forecasting Peak Load Demand

Acres review of the Woodward Clyde Consultants draft report for this subtask was completed and comments forwarded to WCC. The final report will be produced in late December.

### TASK 2 - SURVEY AND SITE FACILITIES

#### ACRES ACTIVITIES

#### Subtask 2.02 - Field Camp and Logistical Support

Field camp operations by CIRI/H&N at the Watana Camp continued during the report period as scheduled. The camp is currently operating under the reduced winter staffing.

#### R&M ACTIVITIES

#### Subtask 2.09 - Control Network Surveys

Office computations on primary and secondary horizontal control, are currently being made.

#### Subtask 2.10 - Access Corridors

Detailed work continued on access route analysis and selection. The primary emphasis being placed on road access to the Watana and Devils Canyon sites.

#### Subtask 2.16 - Hydrographic Surveys

Field activity is 100% complete. Office reduction of field notes is currently being performed.

### TASK 3 - HYDROLOGY

#### ACRES ACTIVITIES

#### Subtask 3.01 - Review of Available Material

A draft closeout report has been prepared and is being reviewed internally.

### Subtask 3.03 - Field Data Collection and Processing

Routine monitoring of R&M field work continued. Development of computer soft-ware for data processing is in progress.

### Subtask 3.04 - Water Resource Studies

Preliminary extension of monthly river flow data at Susitna and Sunshine Stations completed for use in conjunction with Subtask 3.10.

### Subtask 3.08 - Climatic Studies for Transmission Lines

Final report on preliminary design parameters for the transmission lines has been prepared. A design transmittal will be issued in late December.

### Subtask 3.10 - Lower Susitna Studies

R&M status report on the studies is being reviewed.

## R&M ACTIVITIES

### Subtask 3.01 - Review of Available Material

This subtask has been closed-out.

### Subtask 3.02 - Field Data Index and Distribution System

Computer printouts of the hydrological data used for the power generation studies which were conducted by the Corps of Engineers during the Susitna Pre-Feasibility Studies are in Acres-Anchorage office. All of these documents were reviewed by R&M and indexed and assessed for applicability to this phase of the project. A letter has been transmitted to Ian Hutchison in Buffalo describing the work.

### Subtask 3.03 - Field Data Collection and Processing

All USGS stream gages are operating.

#### Stream Gaging by R&M

Manual stage measurements will be made concurrently with discharge measurements during the winter because the bubble tube manometer will not work during the winter months and has been removed.

#### Crest Stage Recorders

Water surface elevations and surface velocities were obtained at crest stage recorders during the freeze-up process at various times.

#### Snow Course

No significant action.

### Water Quality

No significant action.

### Sediment

No significant action.

### Climatic Stations

The Weather Wizards had defective power supply regulators and caused most of the weather instruments to record some data illogically. MRI furnished new power supplies which were installed during the report period.

Jim Landman (Acres) is near completion of software development for weather data reduction.

### Glacial Studies

A glacial plan of study is near finalization with Will Harrison of the Geophysical Institute.

### Ice Studies

As of November 30, 1980, an ice cover has formed from Cook Inlet to 2 miles upstream from the Parks Highway bridge, from the Chulitna confluence upstream to Lane Creek and from Watana Creek to Kosina Creek. Stages, velocities and observations were made at various times during the process. 35 mm vertical airphotos were taken before and after significant freeze-up.

### Subtask 3.05 - Flood Studies

A status report on Susitna Basin flood frequencies was reviewed by Acres and comments received. R&M is proceeding towards finalization of flood frequencies.

### Subtask 3.10 - Lower Susitna

Historical airphotos taken in 1951 have been received. Acres will provide mean monthly flows at Susitna and Parks Highway bridge.

## TASK - 4 SEISMIC STUDIES

### Subtask 4.01 - Acres Activities

Task 4 is being performed by Woodward-Clyde Consultants. Draft copies of the seismic geology evaluation report were received in late November. Review will be conducted in December and will be transmitted to Woodward-Clyde Consultants.

#### Subtask 4.02 - Short-Term Seismologic Monitoring Program

Data analysis was completed on November 26, 1980. Results of the analysis were incorporated in the draft report described below in Subtask 4.06. The analysis included evaluation of large historic events and microearthquake data recorded by 1980 network, development of an attenuation relationship, and compilation of focal plane mechanisms for selected microearthquakes.

#### Subtask 4.03 - Preliminary Reservoir Induced Seismicity

Work in this subtask is complete. A proposed plan of study for 1981 has been prepared.

#### Subtask 4.06 - Evaluation and Reporting

Two draft copies of the Task 4 Seismic Geology Report were issued in November 1980. Report 1 was sent to Broga, Packer, and Savage on November 19, 1980 for an initial conceptual review. Report 2 was sent to project review members, including peer reviewers, and to Acres on November 24, 1980 for detailed review. Review comments are expected from Woodward-Clyde project reviewers by December 4, 1980 and from Acres on December 12, 1980. It is anticipated that the Task 4 report will be issued by the end of December 1980.

Dennis Welsch has prepared a proposal plan of study for Quaternary geology for 1981. The plan of study is currently being reviewed within WCC and by Dr. Norm ten Brink.

#### Subtask 4.07 - Preliminary Ground Motion Studies

To provide a basis for estimating the characteristics of ground shaking at the dam sites, the following work was done: (1) review of results of seismic geology studies to identify potentially significant sources of earthquakes, sizes of earthquakes on these sources, and distances to the sources from the sites; (2) review and analysis of historic seismicity in the site region and development of earthquake recurrence relationships; and (3) development of attenuation relationships for peak acceleration and response spectral values.

### TASK 5 - GEOTECHNICAL EXPLORATION

#### ACRES ACTIVITIES

#### Subtask 5.01 - Data Collection and Review

Subtask has been completed and a summary closeout report will be issued shortly. Detailed information will be included in the 1980 Geotechnical report to be produced (tentatively) in January, 1981.

#### Subtask 5.04 - Exploratory Program, 1980

Field work has been completed. Final data is being provided by R&M in December and draft reports by subcontractors are being reviewed.

#### Subtask 5.05 - Exploratory Program Design 1981

A preliminary 1981 Exploration Plan has been prepared by Anchorage personnel and is currently being reviewed by the Buffalo staff. Winter field work is tentatively scheduled to begin in February, 1981.

#### Subtask 5.08 - Data Reduction

The data reduction from Subtask 5.04 is in progress in Buffalo and Anchorage offices. The results will be included in the 1980 Geotechnical Report.

### R&M ACTIVITIES

#### Subtask 5.01 - Data Collection and Review

All work performed on the subtask by R&M is complete. Subtask products have been submitted to Acres American for inclusion in the closeout report.

#### Subtask 5.02 - Photo Interpretation

Subtask is approximately 80% complete. Budget has been fully expended. All work is currently on hold awaiting authorization from Acres to proceed to completion of the subtask.

#### Subtask 5.03 - Exploratory Program Design, 1980

Subtask complete. Budget expended. Work consisted of aid and support provided to Acres during development of Exploratory Program 1980. Planning documents were prepared by Acres and submitted by them as the closeout report for the subtask.

#### Subtask 5.04 - Exploratory Program, 1980

Remaining field activities include acquiring survey coordinates for seismic refraction lines and completion of instrumentation of drillholes at Devil Canyon. Review and compilation of the field data is currently underway and all final products are expected to be delivered to Acres by December 31, 1980.

### TASK 6 - DESIGN DEVELOPMENT

#### Subtask 6.01 - Review Previous Studies

Final edition of the closeout report is being reviewed internally.

#### Subtask 6.02 - Investigate Tunnel Alternative

Preliminary layouts for Scheme 3 were initiated including general arrangement of the re-regulation dam and power facilities.

#### Subtask 6.03 - Evaluate Susitna Alternatives and 6.06 - Watana/Devil Canyon Staged Development Alternative

Monthly energy simulation runs and refinement of energy estimates were carried out for the preferred schemes. In addition, the following staged scheme alternatives were simulated:

- |        |   |
|--------|---|
| Plan 1 | Stage 1 - Watana (2200) 800 MW<br>Stage 2 - Devil Canyon (1450) 600 MW  |
| Plan 2 | Stage 1 - Watana (2000) 400 MW<br>Stage 2 - Watana (2200) add 400 MW<br>Stage 3 - Devil Canyon (1450) 600 MW              |
| Plan 3 | Stage 1 - Watana (2200) 400 MW<br>Stage 2 - Watana (2200) add 400 MW<br>Stage 3 - Devil Canyon (1450) 600 MW              |
| Plan 4 | Stage 1 - High Devil Canyon (1760) 800 MW<br>Vee (2360) 400 MW  |
| Plan 5 | Stage 1 - High Devil Canyon (1620) 400 MW<br>Stage 2 - High Devil Canyon (1760) add 400 MW<br>Stage 3 - Vee (2360) 400 MW |
| Plan 6 | Stage 1 - High Devil Canyon (1760) 400 MW<br>Stage 2 - High Devil Canyon (1760) add 400 MW<br>Stage 3 - Vee (2360) 400 MW |

Work continued on layouts for the seven selected sites including a rockfill dam layout at Devil Canyon site and on staged developments.

#### Subtask 6.04 - Devil Canyon Arch Dam Evaluation

Further analysis was done to determine temperature induced stresses on the arch dam. A meeting is scheduled in December to discuss the arch dam design with M. Copen.

#### Subtask 6.05 - Development Selection Report

A preliminary outline of the report was prepared and circulated for internal review.

#### Subtask 6.08 - Preliminary Devil Canyon Dam Alternatives

Analyses were undertaken for concrete arch dam of different geometries and their effects on spillway structures were examined.

#### Subtask 6.32 - Thermal Resources

Revised capital and fuel costs were developed for input into OGP-5. Also other parameters relative to thermal generating resources such as O&M, forced and planned outages and retirement policy were developed for the four types of thermal plants, consistent with the OGP-5 input format.

#### Subtask 6.33 - Hydro Resources

Eight out of ten sites remaining after the second screening were analyzed based on the reservoir operation computer program. The installed capacities were selected and the energy production data for the generation planning task was estimated.

Quantity and cost estimates were compiled for the first site (Snow River).

#### Subtask 6.34 - Environmental Analysis

Minimal feedback was received from the Project Steering Committee Meeting held November 5th to review the environmental screening process for hydro sites. A combined environmental and economic ranking process was used to choose ten sites for final investigation. A review of the environmental requirements for thermal alternatives was prepared.

#### Subtask 6.35 - Load Management

Load Management and Conservation Development report preparation was commenced outlining a conceptual approach for including load management and energy conservation in generation planning.

#### Subtask 6.36 - Generation Planning

High and low load models were developed and loaded into the computer model. Three preliminary runs of OGP-5 were made using the defined input of Subtask 6.33 for the thermal generating case 1980-2000. Version 2 of the subtask design transmittal was issued. Methods of handling load forecast uncertainty were reviewed and a process was selected.

### TASK 7 - ENVIRONMENTAL STUDIES

#### ACRES ACTIVITIES

##### Subtask 7.01

##### Input in Development Selection

- a) A meeting was arranged between TES and Acres to promote environmental input into the assessment of tunnel alternatives. The various tunnel schemes

being considered were explained to TES and requests made for environmental review. A draft report entitled "Preliminary Environmental Assessment of Tunnel Alternatives" was submitted by TES. Supplemental information has since been supplied to TES and a final report is expected in December. Following the preparation of Acres draft report on the tunnel alternatives TES will provide a final review.

- b) In addition to assessment of tunnel alternatives, discussions were held with TES regarding environmental input into the establishment of design criteria, and assessment of various Susitna development options. Further meetings are planned for December with a preliminary environmental assessment of Susitna options to be provided in January 1981.

#### Review of Steering Committee comments on Environmental Procedure Manuals

A draft copy of the Steering Committee comments on TES procedure manuals was received and reviewed. A copy was forwarded to TES for review. Following receipt of the final version in December, Acres, with assistance from TES, will prepare a draft response for review by APA.

#### Review of the Susitna Newsletter

The environmentally related components of the first Susitna newsletter were reviewed. Comments were supplied to APA prior to publication.

#### Information Exchange

TES was requested to supply a master list and schedule of information required. Once received, this list will be distributed to other study disciplines and a final information exchange schedule established.

#### Subtask 7.03 - Water Quality Studies

Discussions were held in-house regarding Lower Susitna studies to determine the extent of hydrology and water quality information being gathered during Phase 1. It has been proposed that a meeting be held early in 1981 with representatives from the hydrology, fisheries, wildlife and plant ecology studies to ensure coordination of Lower Susitna studies.

#### Subtask 7.05 - Socioeconomic Studies

Discussions were held with TES regarding the end products to be produced in Phase I and the adequacy of the existing studies in meeting FERC requirements. Acres requested TES, with assistance from FO&A, to provide a clearer indication as to the detail of their Phase I preliminary impact assessment. Following receipt of this information Acres will seek from FERC a more formal response regarding the adequacy of our Socioeconomic program.

#### Subtask 7.09 - Transmission Corridor Assessment

Discussions were held in-house with the transmission routing and design personnel to establish a schedule for environment input. Arrangements were made for a meeting with Commonwealth Associates in early December to discuss information exchange and agency contacts.

#### Subtask 7.10 - Fish Ecology Studies

The ADF&G 1980/81 winter program was reviewed and discussed with Tom Trent. A letter was sent to APA expressing Acres concerns regarding staffing and scheduling of the ADF&G program. The first ADF&G fisheries progress report was received and reviewed.

#### Subtask 7.11 - Wildlife Ecology Studies

Acres personnel were introduced to Dr. Richard Taber who is serving in the capacity of big game impact expert. TES was requested to address on a technical basis the concerns expressed by Paul D. Arneson regarding vegetation studies.

#### Subtask 7.14 - Access Road

A meeting was held in Anchorage on November 18 where environmental input into access route selection was provided by ADF&G, TES and TES subcontractors.

#### TES ACTIVITIES

##### Subtask 7.01 - Administration

TES received and reviewed the draft comments from the Susitna Project Steering Committee on Task 7 Procedures Manuals during the month of November.

A field trip was undertaken to Anchorage to accompany ADF&G personnel in the field and to accompany other TES subcontractors during their studies. In addition, TES joined R&M personnel on an investigation of water levels, water quality monitoring equipment, and icing conditions at the Watana site.

TES responded to requests made by the Alaska Power Authority (APA) by reviewing a draft newsletter discussing environmental programs of the Susitna Project. TES also prepared and submitted to Acres a draft report entitled "Preliminary Environmental Assessment of Tunnel Alternatives".

##### Subtask 7.05 - Socio-economic Analysis

Work continued on Work Package 2, Socioeconomic Profile Development, Work Package 4, Forecasts of Future Socioeconomic Conditions in absence of Susitna Project. The work on Work Package 2 involves, in part, development of data compilation of formats for presentation in the first Annual Report and for the forecasts of Work Package 4.

Meetings between Acres, FO&A, and TES on October 24 and November 17 in Seattle, has progressed the effort on Work Package 2 substantially, and should permit close coordination on Tasks 6, 9, and 11 with Subtask 7.05.

During the week of November 17, members of the socio-economic study team attended the coordination meeting on access roads.

#### Subtask 7.06 - Cultural Resource Investigation

The writing and preparation of graphics and text for the first Annual Report are well underway. Over 160 graphics are projected for the Annual Report and will illustrate research to date in the Upper Susitna River region. A mechanism has still to be developed to preserve certain confidential information contained in the Annual Report that cannot be released to the general public.

Dr. E. James Dixon, Jr. and George S. Smith (University of Alaska Museum) attended and participated in a meeting concerning the proposed access routes to the proposed sites. At this time the archeologists commented on four sites located during a brief reconnaissance of the Deadman Creek alternative. Although no other access routes have been examined for archeological resources at this time, it is anticipated that cultural resources will be encountered along all of them.

In addition to the above data, the fact was brought up by George S. Smith that present studies (Land use and Recreation in particular) indicate that areas of secondary impact for cultural resources will need to be expanded beyond the area originally anticipated early in the program.

TES evaluated the impact, on cultural resources, of a number of dam and tunnel schemes for Susitna hydroelectric Development. A statement covering this Subtask activity will be forthcoming.

#### Subtask 7.07 - Land Use Analysis

During November, work continued on the analysis and report writing of the area history.

An important component of the Land Use Analysis concerns assessment of access route alternatives. Alan Jubenville conducted additional analysis of this issue and attended and presented concerns at the November 18 meeting in Anchorage.

#### Subtask 7.08 - Recreation Planning

The Concept Plan Survey prepared in October was mailed to a selected random sample of Alaska residents, and the first follow-up has been mailed. The first returns have been received; analysis of which was immediately initiated.

#### Subtask 7.09 - Transmission Corridor Assessment

During November TES met with agency personnel at Alaska Department of Fish and Game and Department of Natural Resources along with staff at the Soil Conservation Service and Fish and Wildlife Service in Anchorage. The purpose of these meetings was to obtain information pertinent to routing efforts for corridors connecting Willow with Anchorage and Healy with Fairbanks. The regional biologists in the Anchorage and Fairbanks offices of Alaska Department of Fish and Game are assisting TES in transcribing information available on ADF&G office maps onto topo maps provided by TES. Also, materials were received

by TES from the Alaska Power Administration covering transmission line corridor studies conducted by the Administration in 1974-75.

#### Subtask 7.10 - Fish Ecology Studies

During November TES, on a field trip to Alaska, attended meetings with the APA and the Cook Inlet Aquaculture Association at the request of APA. Meetings were held in Anchorage and in Soldotna to establish coordination among the agencies. In addition to this meeting, TES visited with Tom Trent of ADF&G to discuss the progress and plans for the winter sampling program.

The Annual Report was discussed during a meeting with TES, Mr. Bell and Mr. Atkinson held in Seattle on November 18. Discussed at that meeting were additional information needs that are currently being sought and assignments for completing the report.

The first ADF&G Fisheries Progress Report was received by TES during November. This report contained plans for future progress. TES feels that the timing of the Procedures Manuals and the actual start of the sampling programs are out of phase. It is felt that the detailed work scopes should be developed as far in advance of the field implementation of the programs as possible. This was not the way it appeared to be developing based upon a review of the Monthly Progress Report.

Finally, TES hired Aquatic Biologists to fulfill project and study responsibilities.

#### Subtask 7.11 - Wildlife Ecology Studies:

During the early part of November, Edward Reed, Joseph McMullen and Dr. Richard Taber visited Anchorage, Palmer, and the Watana camp. Dr. Taber was introduced to Karl Schneider of ADF&G and a brief discussion of the Susitna big game studies was conducted.

William Collins, Plant Ecology Investigator, accompanied Taber, Reed, and McMullen on a two-day survey of both the Lower and Upper Susitna Basins. On this trip problems and questions associated with the analysis of impacts on big game species were discussed.

Also during November TES personnel reviewed and considered potential impacts of both the access road alternatives and various tunnel schemes as proposed by Acres.

Regarding avian and non-game mammal studies, analysis of habitat data collected during the summer of 1980 continued in November.

Furbearer aerial survey transects were established to gain a clear understanding of the seasonal distribution of furbearer species within the Upper Susitna Basin.

Due to the possibility of local trappers interfering with research in some areas, a formal request for the closure of trapping in the lower portions of Tsusena and Watana Creeks was sent to the Director of Fish and Game. As of the preparation of this report, no decision has been reached concerning this request.

### Subtask 7.12 - Plant Ecology Studies

During the first week in November a coordination meeting was held in Alaska and included wildlife study participants Ed Reed and Dr. Richard Taber, as well as plant ecologists. Discussions were held concerning information needs of both groups in order to arrive at impact conclusions and develop mitigation plans for both wildlife and vegetation. At a meeting between project plant ecologists from the Palmer Agricultural Experimental Station, vegetation habitat mapping, lower basin study efforts, and analysis of wetlands were discussed. TES also prepared a draft report on the aquatic vegetation of lakes and ponds in the Upper Susitna Basin. This report will be finalized and incorporated into the first Annual Report.

### Subtask 7.14 - Access Roads

A meeting was held in Anchorage on November 18 and included staff representatives of R&M, Acres, ADF&G, APA, and TES subcontractors. Discussed at this meeting were impact considerations for each of the alternative access routes now under consideration.

## TASK 8 - TRANSMISSION

### Subtask 8.01 - Transmission Line Corridor Screening

Work continued on this subtask to further refine the corridor areas. A meeting was held at the CAI offices in Jackson, Michigan to discuss the right-of-way selection and to exchange any relevant information beneficial to the intertie and the Susitna transmission corridors. APA, CAI and Acres were in attendance.

### Subtask 8.02 - Electric System Studies

During this period Acres commenced sorting out the data received from RWRA. The data was analyzed as to generation, loads and transmission systems.

At the CAI meeting, Acres received a copy of the system planning criteria, load forecast for intertie planning and tabulated utilities data being used by CAI for the Intertie studies.

Acres reviewed the following load forecast:

- ISER
- Woodward-Clyde peak demand
- CAI

Studies were initiated to determine likely points of interconnection between the existing utilities and the Susitna transmission lines. Investigations of transmission line capabilities and voltage level requirements for the Susitna lines were stated.

### Subtask 8.03 - Route Selection

The centerline of preliminary routes have been identified on USGS maps. The final location of the routes will depend, among other things, on the aerial photos as well as the land status maps which are not available at this point in time.

### Subtask 8.07 - Transmission Line Cost Estimate

Information was provided to the electric system study groups for defining an economical Susitna voltage level.

## TASK 10 - LICENSING

### Subtask 10.04 - Coordinate Exhibit Preparation

Initial consideration was given to scheduling a final FERC exhibit preparation, internal and external review and printing. A draft list of standard terms and applications was assembled.

## TASK 11 - MARKETING & FINANCE

### Subtask 11.01 - Project Overview Preparation and Update

The procedures manual detailed table of contents and outline of the Project Overview Report (POR) was issued to APA, to chapter co-ordinators and to other task leaders involved. Comments and further input has been requested. APA delineated the major issues to be addressed in their spring 1981 statement to the governor concerning on-going susitna studies and these will be given prime consideration when preparing the P.O.R.

A meeting was held between the economic consultant members of the Task 11 team and F. Orth (sub consultant for Task 7.05) to discuss interaction on socio-economic issues. Further meetings were held with APA managers to discuss the approach to be taken to economic and finance analysis and the selection of the parameters to be employed.

Additional staff have been added to the economics team and the overall level of effort was substantially intensified. A schedule of subsection and chapter completion dates has been established to meet the requirements of the latest plan of studies.

### Subtask 11.02 - Interim Reports

Work on selection of economic parameters to be used in economic and financial analysis continued and is being coordinated with the efforts made to complete Design Transmittal 6.36. Planning for both economic and financial analysis proceeded and arrangements were made for the adoption of the Fezibl computer program approach.

Discussions were held with senior external economic consultants on the various approaches which might be made to state/debt financing of the project. An informative meeting was held with Mr. Elmer Rasmusem, chairman of the board of trustees of the State of Alaska permanent fund.

## TASK 12 - PUBLIC PARTICIPATION

A draft of proposed modifications to the action list program were forwarded to APA for review. Copies of action list responses as sent out by APA were forwarded to Acres. Discussions have been held regarding the scheduling of public meetings and workshops in the first quarter of 1981.

## TASK 13 - PROJECT ADMINISTRATION

### Subtask 13.04 - Schedule Monitoring

Project schedule was updated to December 1980 with appropriate changes being made in logic and durations. Copies of the revised schedule and computer generated bar chart are appended to this progress report. Schedule monitoring is continuing.

### Subtask 13.05 - Cost Control

The October Cost Report did not go out in November as scheduled. It was held up in order to incorporate the following changes:

- A. The project budget was changed to include:
  - Subcontractor's escalated fee
  - The addition of Retherford as a subcontractor.
  - Air transportation costs the way they are being incurred by subtasks.
  - FMA's costs the way they are being incurred by subtasks.
  - ADF&G's costs.
  - Addition of \$75,000 for external consultants as approved by T. McGuire.
- B. A detailed reconciliation of invoiced costs and project-to-date costs was made and adjustments incorporated in the October report.

Most of the old outstanding items from memo invoices were credited on the November invoice (billing from October services).

### Subtask 13.10 - Subcontract Administration

Agreement was reached with Robert W. Retherford Associates for a subcontract to assist in the Transmission Line studies. The agreement was distributed during the report period.

10-DEC-80 11:48:56  
ACRES CPM SYSTEM

ACRES AMERICAN SUSITNA HYDRO-ELECTRIC PROJECT  
CPM ANALYSIS LISTING

PAGE 1  
TIME NOW: 1DEC80

REF01

WORK COMPLETED TO DECEMBER 1, 1980

I-NODE	J-NODE	DUR	SELECT CODES	-----DESCRIPTION-----	E.S.	E.F.	L.S.	L.F.	T.F.	F.F.	CL
10000	10600	0 C	OPB 1 C2	101 REVIEW OF METHODOLOGIES							COMPLETE
10400	10500	0 C	OPB 1 C2	102 FCST PEAK LOAD DEMAND TRANS							COMPLETE
12100	11800	0 C	OPB 1 C2	103 INDENT OF POWER ALTERNAT							COMPLETE
20200	20300	0 C	DFA C2	2021 FIELD CAMP SET-UP	ST						COMPLETE
20300	20400	0 C	DFA C2	2021 FIELD CAMP SET-UP	FIN						COMPLETE
20800	21000	0 C	DFA C2	206 RIGHT OF ENTRY	ST						COMPLETE
23000	23200	0 C	DFA C3	2081 AIR PHOTOS & MAPPING-1980	ST						COMPLETE
23600	23800	0 C	DFA C3	209 CONTROL NETWORK SURVEYS							COMPLETE
24400	24600	0 C	DFA C3	216 HYDROGRAPHIC SURVEYS	ST						COMPLETE
32600	32800	0 C	OPB 1 C4	301 REVIEW AVAILABLE MATERIAL	ST						COMPLETE
36200	36400	0 C	OPB 1 C4	3021 FIELD DATA INDEX-SETUP	ST						COMPLETE
36400	36600	0 C	OPB 1 C4	3021 FIELD DATA INDEX-SETUP	FIN						COMPLETE
37000	37200	0 C	OPB 1 C4	3031 FIELD DATA COLLECTION-SPECS							COMPLETE
37400	37500	0 C	OPB 1 C4	3032 FIELD DATA COLLECTION 80-81	ST						COMPLETE
32800	33200	0 C	OPB 1 C4	3041 WATER RSRCS-FLOW EXTENSION	ST						COMPLETE
34200	34400	0 C	OPB 1 C4	3043 WATER RSRCS-RESERVOIR STUDY	ST						COMPLETE
31600	31800	0 C	OPB 1 C4	3053 FLOODS-RESERVOIR ROUTING	ST						COMPLETE
30000	30200	0 C	OPB 1 C4	3061 HYDRLS&ICE-CHANNEL WTR LVLS	ST						COMPLETE
38000	38200	0 C	OPB 1 C4	3081 TRANSMN LINE-PRLM PARAMTR							COMPLETE
43100	43200	0 C	OPB 1 C1	401 REVIEW AVAILABLE DATA	ST						COMPLETE
43200	43400	0 C	OPB 1 C1	401 REVIEW AVAILABLE DATA	CT-1						COMPLETE
43400	41200	0 C	OPB 1 C1	401 REVIEW AVAILABLE DATA	FIN						COMPLETE
44000	44200	0 C	DFA C4	402 SHORT TERM MONITORNG PROGRAM	ST						COMPLETE
40300	40600	0 C	OPB 1 C1	404 REMOTE SENSING IMAG ANALYSIS	ST						COMPLETE
40600	40800	0 C	OPB 1 C1	404 REMOTE SENSING IMAG ANALYSIS	CT-1						COMPLETE
42200	42400	0 C	DFA C4	405 SEISMIC GEOLOGIC RECONASANCE							COMPLETE
41000	41200	0 C	OPB 1 C1	406 PRELIM EVALUATN&REPORT-DRAFT	ST						COMPLETE
45600	45800	0 C	OPB 1 C1	408 DAM STABILITY	ST						COMPLETE
50000	50200	0 C	OPB 1 C1	501 DATA COLLECTION	ST						COMPLETE
50200	50400	0 C	OPB 1 C1	501 DATA COLLECTION	CT-1						COMPLETE
50400	50600	0 C	OPB 1 C1	501 DATA COLLECTION	FIN						COMPLETE
50200	51200	0 C	OPB 1 C1	502 AIR PHOTO INTERPRETATION	ST						COMPLETE
50800	51600	0 C	OPB 1 C1	503 1980 PROGRAM DESIGN							COMPLETE
62500	625A0	0 C	OPB 1 C4	601 REVIEW PREVIOUS STUDIES	ST						COMPLETE
625A0	62600	0 C	OPB 1 C4	601 REVIEW PREVIOUS STUDIES	FIN						COMPLETE
62600	626A0	0 C	OPB 1 C4	603 EVAL ALT SUSITNA DEVELOPMENT	ST						COMPLETE
65900	659A0	0 C	OPB 1 C4	606 STAGED DEVELOPMENT ALTS	ST						COMPLETE
63000	63100	0 C	OPB 1 C5	607 PRELIM WATANA DAM ALTERNATES	ST						COMPLETE
64100	64500	0 C	OPB 1 C6	608 PRELIM DEVIL CANYON DAM ALT	ST						COMPLETE
6A500	6A600	0 C	OPB 1 C2	632 THERMAL GENERATION RESOURCE	ST						COMPLETE
6A600	6A700	0 C	OPB 1 C2	632 THERMAL GENERATION RESOURCE	CT1						COMPLETE
6A900	6B100	0 C	OPB 1 C2	633 HYDRO GENERATION RESOURCES	ST						COMPLETE
6B100	6B200	0 C	OPB 1 C2	633 HYDRO GENERATION RESOURCES	CT-1						COMPLETE
6B200	6B300	0 C	OPB 1 C2	633 HYDRO GENERATION RESOURCES	FIN						COMPLETE
6B500	6B600	0 C	OPB 1 C8	6341 ENVIRONMENT ASSESSMENT	ST						COMPLETE
6B600	6B700	0 C	OPB 1 C8	6341 ENVIRONMENT ASSESSMENT	CT1						COMPLETE
6B700	6C300	0 C	OPB 1 C8	6341 ENVIRONMENT ASSESSMENT	FIN						COMPLETE
6D100	6D200	0 C	OPB 1 C2	6361 GENERATION PLAN PARAMETERS							COMPLETE
6D300	6D3A0	0 C	OPB 1 C2	6362 GENERAT PLAN ANALY & REPORT	ST						COMPLETE
70800	71000	0 C	OPB 1 C8	7011 STUDY COORD-ALTERNATIVE SITE	ST						COMPLETE
71000	71200	0 C	OPB 1 C8	7011 STUDY COORD-ALTERNATIVE SITE	CT-1						COMPLETE

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79200	79300	0 C	DPB 1 C8	702 MONITOR FIELD ACTIVITIES	ST						
A2000	A1600	0 C	FLC C110	10021 ESTABLISH REGULATORY REQUIRE							COMPLETE
C0000	C0200	0 C	DPB 1 C810	12021 CONDUCT PUBLIC MEETING #1							COMPLETE
D0200	D0400	0 C	PSB 2 C310	13011 PROJECT PROCED MANUAL-DRAFT	ST						COMPLETE
D0400	D0600	0 C	PSB 2 C310	13011 PROJECT PROCED MANUAL-DRAFT	CT-1						COMPLETE
D0600	D0800	0 C	PSB 2 C310	13011 PROJECT PROCED MANUAL-DRAFT	FIN						COMPLETE
D0800	D1000	0 C	PSB 2 C310	13012 PROJECT PROCED MANUAL-FINAL							COMPLETE
D0000	D0600	0 C	PSB 2 C310	1302 FINANCIAL CONTROL PROCEDURES							COMPLETE
D1400	D1500	0 C	PSB 2 C310	1303 PROJECT MASTER SCHEDULE							COMPLETE
D2000	D2200	0 C	PSB 2 C310	13041 SCHEDULE CONTROL SYSTEM-DEV							COMPLETE
D2600	D2800	0 C	PSB 2 C310	13051 COST CONTROL SYSTEM-DEV							COMPLETE
D3200	D3400	0 C	PSB 2 C310	13061 MANPOWER LOADING SCHEDULE-DEV							COMPLETE
D1600	D0600	0 C	PSB 2 C410	1307 DEVELOP ACCOUNTING POLICIES							COMPLETE
D1800	D1900	0 C	PSB 2 C310	1308 DOCUMENTATION CONTROL							COMPLETE

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11800	11900	5	R	OPB	1 C2	108	TERMINATION REPORT	1DEC80	2JAN81	1DEC80	2JAN81	0	76	1	CRITICAL	
20400	20000	81	R	OPA	C2	2022	FIELD CAMP OPERATIONS	1DEC80	18JUN82	1DEC80	18JUN82	0	0	1	CRITICAL	
20400	20600	81	R	OPA	C2	203	RESUPPLY & EMERGENCY SERVICE	1DEC80	18JUN82	1DEC80	18JUN82	0	0	1	CRITICAL	
21200	21500	3	R	OPA	C2	204	LAND STATUS RESEARCH	1DEC80	19DEC80	15DEC80	2JAN81	2	78	1		
21600	22000	5	R	OPA	C2	205	LAND AQUISITION ANALYSIS	1DEC80	2JAN81	1DEC80	2JAN81	0	76	1	CRITICAL	
21000	21100	25	R	OPA	C2	206	RIGHT OF ENTRY	FIN	1DEC80	22MAY81	28DEC81	18JUN82	56	56	1	
25000	25200	8	R	OPA	C3	207	SITE SPECIFIC SURVEYS	ST	1DEC80	23JAN81	15DEC80	6FEB81	2	0	1	
25200	25400	4		OPA	C3	207	SITE SPECIFIC SURVEYS	FIN	26JAN81	20FEB81	9FEB81	6MAR81	2	0	1	
23200	23400	3	R	OPA	C3	2081	AIR PHOTOS & MAPPING-1980	FIN	1DEC80	19DEC80	22DEC80	9JAN81	3	2	1	
24000	24200	10		OPA	C3	2082	AIR PHOTOS & MAPPING-1981		12JAN81	20MAR81	31AUG81	6NOV81	33	11	1	
22200	22400	5	R	OPA	C3	210	ACCESS ROAD	ST	1DEC80	2JAN81	22JUN81	24JUL81	29	0	1	
22400	22600	2		OPA	C3	210	ACCESS ROAD	CT-1	5JAN81	16JAN81	21SEP81	20CT81	37	12	1	
22600	22800	10		OPA	C3	210	ACCESS ROAD	FIN	13APR81	19JUN81	50CT81	11DEC81	25	1	1	
25600	26600	11		OPA	C3	211	MAP & PHOTO SEARCH		1DEC80	13FEB81	12JAN81	2/MAR81	6	0	1	
26400	26600	3	R	OPA	C4	212	FIELD RECON FOR RSRVR CLEAR	ST	1DEC80	19DEC80	9MAR81	27MAR81	14	8	1	
26600	26800	6	R	OPA	C4	212	FIELD RECON FOR RSRVR CLEAR	FIN	16FEB81	27MAR81	30MAR81	8MAY81	6	0	1	
27600	27200	5		OPA	C3	213	MKRTBILITY AND DISPOSAL STDY		1DEC80	2JAN81	28DEC81	29JAN82	56	12	1	
27000	27200	2		OPA	C3	214	CST ESTMTS RSVR CLEARING	ST	1DEC80	12DEC80	18JAN82	29JAN82	59	15	1	
27200	27400	3		OPA	C3	214	CST ESTMTS RSVR CLEARING	FIN	30MAR81	17APR81	1FEB82	19FEB82	44	43	1	
25800	26000	4		OPA	C4	215	SLOPE EROSION & STBLTY STUDY	ST	1DEC80	26DEC80	13APR81	8MAY81	19	13	1	
26000	26200	4		OPA	C4	215	SLOPE EROSION & STBLTY STUDY	FIN	30MAR81	24APR81	11MAY81	5JUN81	6	5	1	
24600	24800	12		OPA	C3	216	HYDROGRAPHIC SURVEYS	FIN	1DEC80	20FEB81	15DEC80	6MAR81	2	2	1	
32800	33000	4	R	OPB	1 C4	301	REVIEW AVAILABLE MATERIAL	FIN	1DEC80	26DEC80	16FEB81	13MAR81	11	11	1	
36600	36800	62	R	OPB	1 C4	3022	FIELD DATA INDEX OPERATION		1DEC80	5FEB82	19JAN81	26MAR82	7	7	1	
37500	37300	15	R	OPB	1 C4	3032	FIELD DATA COLLECTION 80-81	FIN	1DEC80	13MAR81	1DEC80	13MAR81	0	0	1	CRITICAL
37600	37700	30		OPB	1 C4	3033	FIELD DATA COLLECTION 81-82	ST	16MAR81	9OCT81	30MAR81	23OCT81	2	0	1	
37700	37800	22		OPB	1 C4	3033	FIELD DATA COLLECTION 81-82	FIN	12OCT81	12MAR82	26OCT81	26MAR82	2	2	1	
33200	33300	4		OPB	1 C4	3041	WATER RSRCS-FLOW EXTENSION	FIN	1DEC80	26DEC80	16MAR81	10APR81	15	0	1	
33300	34600	4		OPB	1 C4	3042	WATER RSRCS-FREQ ANALYSIS		29DEC80	23JAN81	12OCT81	6NOV81	41	41	1	
34400	344A0	19		OPB	1 C4	3043	WATER RSRCS-RESERVOIR STUDY	CT-1	1DEC80	10APR81	1DEC80	10APR81	0	0	1	CRITICAL
344A0	34500	6		OPB	1 C4	3043	WATER RSRCS-RESERVOIR STUDY	CT-2	13APR81	22MAY81	13APR81	22MAY81	0	0	1	CRITICAL
34500	34600	24		OPB	1 C4	3043	WATER RSRCS-RESERVOIR STUDY	CT-3	25MAY81	6NOV81	25MAY81	6NOV81	0	0	1	CRITICAL
34600	34800	8		OPB	1 C4	3043	WATER RSRCS-RESERVOIR STUDY	FIN	9NOV81	1JAN82	9NOV81	1JAN82	0	0	1	CRITICAL
35000	35200	4		OPB	1 C4	3044	WATER RSRCS-FRE&POST PROJECT	ST	9NOV81	4DEC81	7DEC81	1JAN82	4	4	1	
35200	35400	4		OPB	1 C4	3044	WATER RSRCS-FRE&POST PROJECT	FIN	4JAN82	29JAN82	4JAN82	29JAN82	0	0	1	CRITICAL
39600	39800	69	R	OPB	1 C4	3046	WATER RSRCS-GLACIAL STUDIES		1DEC80	26MAR82	1DEC80	26MAR82	0	0	1	CRITICAL
32700	32900	2	R	OPB	1 C4	3051	FLOODS-FREQUENCY ANALYSIS		1DEC80	12DEC80	20APR81	1MAY81	20	18	1	
32800	32400	6	R	OPB	1 C4	3052	FLOODS PMF REVIEW		1DEC80	9JAN81	23MAR81	1MAY81	16	14	1	
31800	32000	10	R	OPB	1 C4	3053	FLOODS-RESERVOIR ROUTING	CT-1	23FEB81	1MAY81	26OCT81	1JAN82	35	20	1	
32000	32200	5		OPB	1 C4	3053	FLOODS-RESERVOIR ROUTING	FIN	21SEP81	23OCT81	4JAN82	5FEB82	15	14	1	
30200	30400	14	R	OPB	1 C4	3061	HYDR&ICE-CHANNEL WTR LVLS	CT-1	1DEC80	6MAR81	1DEC80	6MAR81	0	0	1	CRITICAL
30400	30600	47		OPB	1 C4	3061	HYDR&ICE-CHANNEL WTR LVLS	FIN	9MAR81	29JAN82	9MAR81	29JAN82	0	0	1	CRITICAL
39400	39500	6	R	OPB	1 C4	3062	HYDR&ICE RSVR FREEBRD		23FEB81	3APR81	23MAR81	1MAY81	4	2	1	
38800	39000	12		OPB	1 C4	3063	HYDR&ICE-RESER SLIDE SURGE	ST	1DEC80	20FEB81	15DEC80	6MAR81	2	0	1	
39000	39100	8		OPB	1 C4	3063	HYDR&ICE-RESER SLIDE SURGE	FIN	23FEB81	17APR81	9MAR81	1MAY81	2	0	1	
39200	39300	8		OPB	1 C4	3064	HYDR&ICE-RSVR TEMP REGIME		23FEB81	17APR81	9MAR81	1MAY81	2	0	1	
35600	35800	4		OPB	1 C4	3071	SEDIMENT YIELD & DEPOSITION	ST	1DEC80	26DEC80	11MAY81	5JUN81	23	8	1	
35800	36000	6		OPB	1 C4	3071	SEDIMENT YIELD & DEPOSITION	FIN	23FEB81	3APR81	23NOV81	1JAN82	39	9	1	
33400	33600	12		OPB	1 C4	3072	RIVER MORPHOLOGY	ST	16MAR81	5JUN81	12OCT81	1JAN82	30	0	1	
33600	33800	4		OPB	1 C4	3072	RIVER MORPHOLOGY	CT-1	8JUN81	3JUL81	4JAN82	29JAN82	30	30	1	
33800	34000	4		OPB	1 C4	3072	RIVER MORPHOLOGY	FIN	1FEB82	26FEB82	15FEB82	12MAR82	2	1	1	

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38200	38400	4		OPB 1 C4	3082 TRANSMN LINE-DET PARAMTR	ST	1DEC80	9JAN81	2FEB81	13MAR81	9	9	1
38400	38600	4		OPB 1 C4	3082 TRANSMN LINE-DET PARAMTR	FIN	16MAR81	10APR81	16MAR81	10APR81	0	0	1 CRITICAL
31100	31300	30		OPB 1 C4	309 ACCESS ROADS HYDROLOGY		5JAN81	31JUL81	27JUL81	19FEB82	29	28	1
30800	31000	6	R	OPB 1 C4	3101 LWR SUSITNA STUDIES-PRELIM	ST	1DEC80	9JAN81	1DEC80	9JAN81	0	0	1 CRITICAL
31000	31200	8		OPB 1 C4	3101 LWR SUSITNA STUDIES-PRELIM	FIN	12JAN81	6MAR81	12JAN81	6MAR81	0	0	1 CRITICAL
31200	31400	47		OPB 1 C4	3102 LWR SUSITNA STUDIES-FOLLOWUP		9MAR81	29JAN82	9MAR81	29JAN82	0	0	1 CRITICAL
44200	41200	1	R	OFA 1 C4	402 SHORT TERM MONITORNG PROGRAM	FIN	1DEC80	5DEC80	1DEC80	5DEC80	0	0	1 CRITICAL
40000	40200	1	R	OPB 1 C1	403 PRELIM RESERVR INDUCD SEISMC		1DEC80	5DEC80	1DEC80	5DEC80	0	0	1 CRITICAL
40800	42000	3		OPB 1 C1	404 REMOTE SENSING IMAG ANALYSIS	FIN	1DEC80	19DEC80	9NOV81	27NOV81	49	51	1
41200	41400	4		OPB 1 C1	406 PRELIM EVALUATN&REPORT-DRAFT	FIN	8DEC80	2JAN81	8DEC80	2JAN81	0	0	1 CRITICAL
44200	45000	8	R	OPB 1 C1	407 PRELIM GROUND MOTION STUDIES		1DEC80	23JAN81	1DEC80	23JAN81	0	0	1 CRITICAL
45800	46000	24		OPB 1 C1	408 DAM STABILITY	CT-1	26JAN81	10JUL81	26JAN81	10JUL81	0	0	1 CRITICAL
46000	46200	6		OPB 1 C1	408 DAM STABILITY	FIN	13JUL81	21AUG81	10MAY82	18JUN82	43	43	1
42800	43000	31		OFA 1 C4	409 LONG TERM MONITORING PROGRAM		13JUL81	12FEB82	16NOV81	18JUN82	18	18	1
40200	41800	9		OPB 1 C1	410 RESERVOIR INDUCED SEISMICITY		8DEC80	6FER81	31AUG81	30OCT81	38	38	1
42400	42600	32		OFA 1 C4	411 SEISMIC GEOLOGY-FIELD STUDY		1DEC80	10JUL81	8DEC80	17JUL81	1	0	1
41400	41600	41		OPB 1 C1	412 EVALUATION & REPORT DRAFT	ST	5JAN81	16OCT81	5JAN81	16OCT81	0	0	1 CRITICAL
41600	41800	2		OPB 1 C1	412 EVALUATION & REPORT DRAFT	CT-1	19OCT81	30OCT81	19OCT81	30OCT81	0	0	1 CRITICAL
41800	42000	4		OPB 1 C1	412 EVALUATION & REPORT DRAFT	FIN	2NOV81	27NOV81	2NOV81	27NOV81	0	2	1 CRITICAL
44400	44600	15		OPB 1 C1	413 GROUND MOTION STUDIES	ST	26JAN81	8MAY81	6APR81	17JUL81	10	9	1
44600	41800	15		OPB 1 C1	413 GROUND MOTION STUDIES	FIN	13JUL81	23OCT81	20JUL81	30OCT81	1	1	1
45600	41800	36		OPB 1 C1	414 DAM STABILITY CONSULTING		1DEC80	7AUG81	23FEB81	30OCT81	12	12	1
45200	45400	22		OPB 1 C1	415 SOIL SUSCEPTITY-SEISMIC FAIL		26JAN81	26JUN81	13JUL81	11DEC81	24	0	1
51200	51600	2	R	OPB 1 C1	502 AIR PHOTO INTERPRETATION	FIN	1DEC80	12DEC80	16MAR81	27MAR81	15	0	1
51000	51600	2	R	OFA 1 C4	504 1980 EXPLORATION PROGRAM		1DEC80	12DEC80	16MAR81	27MAR81	15	0	1
52000	52200	3	R	OPB 1 C1	505 1981 PROGRAM DESIGN	ST	1DEC80	19DEC80	9MAR81	27MAR81	14	0	1
52200	52600	2		OPB 1 C1	505 1981 PROGRAM DESIGN	FIN	22DEC80	2JAN81	30MAR81	10APR81	14	9	1
52400	52600	14		OFA 1 C4	506 1981 EXPLORATION PROGRAM	ST	1DEC80	6MAR81	5JAN81	10APR81	5	0	1
52600	52700	20		OFA 1 C4	506 1981 EXPLORATION PROGRAM	FIN	9MAR81	24JUL81	13APR81	28AUG81	5	0	1
53800	54000	9		OPB 1 C1	507 1982-4 PROGRAM DESIGN		6JUL81	4SEP81	25JAN82	26MAR82	29	29	1
51400	51600	2	R	OPB 1 C1	5081 DATA ASSEMBLY-1980-DRAFT	ST	1DEC80	12DEC80	16MAR81	27MAR81	15	0	1
51600	51800	1		OPB 1 C1	5081 DATA ASSEMBLY-1980-DRAFT	FIN	15DEC80	19DEC80	27APR81	1MAY81	19	0	1
52800	53000	3		OPB 1 C1	5082 DATA ASSEMBLY-1981-DRAFT	ST	1DEC80	19DEC80	10AUG81	28AUG81	36	31	1
53000	53200	2		OPB 1 C1	5082 DATA ASSEMBLY-1981-DRAFT	FIN	27JUL81	7AUG81	31AUG81	11SEP81	5	0	1
53400	53600	7		OPB 1 C1	5083 DATA ASSEMBLY FINAL-DRAFT		10AUG81	25SEP81	8MAR82	23APR82	30	30	1
64300	62700	4	R	OPB 1 C4	602 INVESTIGATE TUNNL ALTERNATVS		1DEC80	26DEC80	8DEC80	2JAN81	1	1	1
626A0	62700	5	R	OPB 1 C4	603 EVAL ALT SUSITNA DEVELOPMENT	CT-1	1DEC80	2JAN81	1DEC80	2JAN81	0	0	1 CRITICAL
62700	627A0	4		OPB 1 C4	603 EVAL ALT SUSITNA DEVELOPMENT	CT-2	5JAN81	30JAN81	5JAN81	30JAN81	0	0	1 CRITICAL
627A0	62800	3		OPB 1 C4	603 EVAL ALT SUSITNA DEVELOPMENT	CT-3	2FEB81	20FEB81	7FEB81	27FEB81	1	0	1
62800	62900	0		OPB 1 C4	604 EVAL ALT SUSITNA DEVELOPMENT	FIN	23FEB81	20FEB81	2MAR81	27FEB81	1	0	1
68100	68200	3	R	OPB 1 C6	604 DEVL CAN ARCH DAM EVALUATION	ST	1DEC80	19DEC80	13APR81	1MAY81	19	0	1
68200	68300	0		OPB 1 C6	604 DEVL CAN ARCH DAM EVALUATION	FIN	22DEC80	19DEC80	4MAY81	1MAY81	19	14	1
66900	669A0	9	R	OPB 1 C4	6051 SELECT REPORT DRAFT		1DEC80	30JAN81	1DEC80	30JAN81	0	0	1 CRITICAL
669A0	67000	3		OPB 1 C4	6052 SELECT FINAL REPORT	ST	2FEB81	20FEB81	9FEB81	27FEB81	1	0	1
67000	67100	1		OPB 1 C4	6052 SELECT FINAL REPORT	CT-1	23FEB81	27FEB81	2MAR81	6MAR81	1	0	1
67100	67200	4		OPB 1 C4	6052 SELECT FINAL REPORT	FIN	2MAR81	27MAR81	9MAR81	3APR81	1	0	1
659A0	659B0	9	R	OPB 1 C4	606 STAGED DEVELOPMENT ALTS	CT-1	1DEC80	30JAN81	1DEC80	30JAN81	0	0	1 CRITICAL
659B0	66000	3		OPB 1 C4	606 STAGED DEVELOPMENT ALTS	FIN	2FEB81	20FEB81	16FEB81	6MAR81	2	1	1
63100	631A0	5		OPB 1 C5	607 PRELIM WATANA DAM ALTERNATES	CT-1	23FEB81	27MAR81	30MAR81	1MAY81	5	0	1
631A0	63200	9		OPB 1 C5	607 PRELIM WATANA DAM ALTERNATES	CT-2	30MAR81	29MAY81	4MAY81	3JUL81	5	0	1
63200	63300	1		OPB 1 C5	607 PRELIM WATANA DAM ALTERNATES	CT-3	1JUN81	5JUN81	6JUL81	10JUL81	5	5	1

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63300	633A0	0	OPB	1 C5	607 PRELIM WATANA DAM ALTERNATES	FIN	13JUL81	10JUL81	13JUL81	10JUL81	0	0	1 CRITICAL
64500	64600	5	OPB	1 C6	608 PRELIM DEVIL CANYON DAM ALT	CT-1	23FEB81	27MAR81	30MAR81	1MAY81	5	0	1
64600	64700	10	OPB	1 C6	608 PRELIM DEVIL CANYON DAM ALT	CT-2	30MAR81	5JUN81	4MAY81	10JUL81	5	5	1
64700	64800	0	OPB	1 C6	608 PRELIM DEVIL CANYON DAM ALT	FIN	13JUL81	10JUL81	13JUL81	10JUL81	0	0	1 CRITICAL
69100	69200	1	OPB	1 C4	609 ESTAB WATANA DESIGN CRITERIA	ST	1DEC80	5DEC80	1JUN81	5JUN81	26	11	1
69200	69300	7	OPB	1 C4	609 ESTAB WATANA DESIGN CRITERIA	CT-1	23FEB81	10APR81	8JUN81	24JUL81	15	13	1
69300	69400	7	OPB	1 C4	609 ESTAB WATANA DESIGN CRITERIA	CT-2	13JUL81	28AUG81	27JUL81	11SEP81	2	0	1
69400	69500	1	OPB	1 C4	609 ESTAB WATANA DESIGN CRITERIA	FIN	31AUG81	4SEP81	14SEP81	18SEP81	2	0	1
63400	63500	1	OPB	1 C4	610 ESTAB DEVIL CANYN DESGN CRIT	ST	1DEC80	5DEC80	8JUN81	12JUN81	27	2	1
63500	63600	7	OPB	1 C4	610 ESTAB DEVIL CANYN DESGN CRIT	CT-1	22DEC80	6FEB81	15JUN81	31JUL81	25	22	1
63600	63700	7	OPB	1 C4	610 ESTAB DEVIL CANYN DESGN CRIT	CT-2	13JUL81	28AUG81	3AUG81	18SEP81	3	0	1
63700	63800	1	OPB	1 C4	610 ESTAB DEVIL CANYN DESGN CRIT	FIN	31AUG81	4SEP81	21SEP81	25SEP81	3	0	1
66200	66300	11	OPB	1 C5	611 PRELIM DESIGN WATANA DAM	ST	13JUL81	25SEP81	13JUL81	25SEP81	0	0	1 CRITICAL
66300	66400	11	OPB	1 C5	611 PRELIM DESIGN WATANA DAM	CT-1	28SEP81	11DEC81	28SEP81	11DEC81	0	0	1 CRITICAL
66400	66500	4	OPB	1 C5	611 PRELIM DESIGN WATANA DAM	FIN	14DEC81	8JAN82	14DEC81	8JAN82	0	0	1 CRITICAL
65200	65300	11	OPB	1 C6	612 PREL DESIGN DEVIL CANYON DAM	ST	13JUL81	25SEP81	13JUL81	25SEP81	0	0	1 CRITICAL
65300	65400	11	OPB	1 C6	612 PREL DESIGN DEVIL CANYON DAM	CT-1	28SEP81	11DEC81	28SEP81	11DEC81	0	0	1 CRITICAL
65400	65500	4	OPB	1 C6	612 PREL DESIGN DEVIL CANYON DAM	FIN	14DEC81	8JAN82	14DEC81	8JAN82	0	0	1 CRITICAL
69800	69900	11	OPB	1 C4	613 DAM SELECTION REPORT-DRAFT	ST	13JUL81	25SEP81	26OCT81	8JAN82	15	15	1
69900	68500	5	OPB	1 C4	613 DAM SELECTION REPORT-DRAFT	FIN	11JAN82	12FEB82	11JAN82	12FEB82	0	0	1 CRITICAL
61100	61200	3	OPB	1 C4	614 SPILLWAY DESIGN CRITERIA	ST	23FEB81	13MAR81	13APR81	1MAY81	7	5	1
61200	61300	8	OPB	1 C4	614 SPILLWAY DESIGN CRITERIA	FIN	20APR81	12JUN81	4MAY81	26JUN81	2	0	1
61300	60600	6	OPB	1 C5	615 WATANA SPILLWAY ALTERNATIVES	ST	15JUN81	24JUL81	29JUN81	7AUG81	2	0	1
60600	60700	10	OPB	1 C5	615 WATANA SPILLWAY ALTERNATIVES	FIN	27JUL81	2OCT81	10AUG81	16OCT81	2	0	1
61300	61400	3	OPB	1 C6	616 DEVL CAN SPILLWAY ALTERNATIVE	ST	15JUN81	3JUL81	6JUL81	24JUL81	3	1	1
61400	61500	8	OPB	1 C6	616 DEVL CAN SPILLWAY ALTERNATIVE	FIN	13JUL81	4SEP81	27JUL81	18SEP81	2	0	1
621A0	62200	4	OPB	1 C5	617 PRELIM DESGN WATANA SPILLWAY	ST	1DEC80	26DEC80	21SEP81	16OCT81	42	40	1
62200	62300	4	OPB	1 C5	617 PRELIM DESGN WATANA SPILLWAY	CT-1	5OCT81	30OCT81	19OCT81	13NOV81	2	0	1
62300	62400	13	OPB	1 C5	617 PRELIM DESGN WATANA SPILLWAY	FIN	2NOV81	29JAN82	16NOV81	12FEB82	2	0	1
61500	61600	6	OPB	1 C6	618 PRELIM DES DEVIL CAN SPILWAY	ST	7SEP81	16OCT81	21SEP81	30OCT81	2	0	1
61600	61700	15	OPB	1 C6	618 PRELIM DES DEVIL CAN SPILWAY	FIN	19OCT81	29JAN82	2NOV81	12FEB82	2	0	1
64900	65000	6	OPB	1 C4	619 SPILLWAY SELECTN REPT-DRAFT	ST	5OCT81	13NOV81	4JAN82	12FEB82	13	11	1
65000	65100	5	OPB	1 C4	619 SPILLWAY SELECTN REPT-DRAFT	FIN	1FEB82	5MAR82	15FEB82	19MAR82	2	2	1
6A000	6A100	3	OPB	1 C5	620 ACCESS & CAMP FACILITIES	ST	1DEC80	19DEC80	23NOV81	11DEC81	51	27	1
6A100	6A200	8	OPB	1 C5	620 ACCESS & CAMP FACILITIES	FIN	29JUN81	21AUG81	14DEC81	5FEB82	24	0	1
60000	60100	6	OPB	1 C5	621 WATANA DIVERSION SCHEMES	ST	1DEC80	9JAN81	14SEP81	23OCT81	41	38	1
60100	60200	10	OPB	1 C5	621 WATANA DIVERSION SCHEMES	FIN	5OCT81	11DEC81	26OCT81	1JAN82	3	0	1
67300	67400	11	OPB	1 C6	622 DEVIL CANYON DIVERSN SCHEMES	ST	1DEC80	13FEB81	19OCT81	1JAN82	46	29	1
67400	67500	0	OPB	1 C6	622 DEVIL CANYON DIVERSN SCHEMES	FIN	7SEP81	4SEP81	4JAN82	1JAN82	17	0	1
61800	61900	6	OPB	1 C4	623 OPT WATANA POWER DEVELOPMENT	ST	13JUL81	21AUG81	10AUG81	18SEP81	4	0	1
61900	62000	10	OPB	1 C4	623 OPT WATANA POWER DEVELOPMENT	CT-1	24AUG81	30OCT81	21SEP81	27NOV81	4	0	1
62000	62100	5	OPB	1 C4	623 OPT WATANA POWER DEVELOPMENT	FIN	2NOV81	4DEC81	30NOV81	1JAN82	4	0	1
65600	65700	6	OPB	1 C4	624 OPT DEVL CANYN POWER DEVELOP	ST	10AUG81	18SEP81	19OCT81	27NOV81	10	0	1
65700	65800	5	OPB	1 C4	624 OPT DEVL CANYN POWER DEVELOP	FIN	21SEP81	23OCT81	30NOV81	1JAN82	10	6	1
63900	64000	6	OPB	1 C4	625 OPTIMIZE DAM HEIGHTS	ST	1DEC80	9JAN81	23NOV81	1JAN82	51	47	1
64000	64100	5	OPB	1 C4	625 OPTIMIZE DAM HEIGHTS	CT-1	7DEC81	8JAN82	4JAN82	5FEB82	4	3	1
64100	64200	0	OPB	1 C4	625 OPTIMIZE DAM HEIGHTS	FIN	1FEB82	29JAN82	0FEB82	5FEB82	1	0	1
69500	69600	16	OPB	1 C5	626 PREL DESGN WATAN POWER DEVEL	ST	7SEP81	25DEC81	21SEP81	8JAN82	2	0	1
69600	69700	5	OPB	1 C5	626 PREL DESGN WATAN POWER DEVEL	FIN	28DEC81	29JAN82	11JAN82	12FEB82	2	0	1
66600	66700	15	OPB	1 C6	627 PREL DES DEVL CAN FOUR DEVEL	ST	7SEP81	18DEC81	28SEP81	8JAN82	3	0	1
66700	66800	5	OPB	1 C6	627 PREL DES DEVL CAN FOUR DEVEL	FIN	21DEC81	22JAN82	11JAN82	12FEB82	3	1	1

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67600	67700	5	OPB	1 C4	628 POWER DEVELOPMNT REPT-DRAFT ST	7SEP81	9OCT81	4JAN82	5FEB82	17	16	1
67700	67800	1	OPB	1 C4	628 POWER DEVELOPMNT REPT-DRAFT CT-1	1FEB82	5FEB82	8FEB82	12FEB82	1	0	1
67800	67900	1	OPB	1 C4	628 POWER DEVELOPMNT REPT-DRAFT CT-2	0FEB82	12FEB82	15FEB82	19FEB82	1	0	1
67900	68000	4	OPB	1 C4	628 POWER DEVELOPMNT REPT-DRAFT FIN	15FEB82	12MAR82	22FEB82	19MAR82	1	0	1
60300	60400	6	OPB	1 C5	629 WATANA GENERAL ARRANGEMENT ST	14DEC81	22JAN82	4JAN82	12FEB82	3	1	1
60400	60500	5	OPB	1 C5	629 WATANA GENERAL ARRANGEMENT FIN	1FEB82	5MAR82	15FEB82	19MAR82	2	2	1
60800	60900	6	OPB	1 C6	630 DEVL CAN GENERAL ARRANGEMENT ST	7SEP81	16OCT81	4JAN82	12FEB82	17	15	1
60900	61000	5	OPB	1 C6	630 DEVL CAN GENERAL ARRANGEMENT FIN	1FEB82	5MAR82	15FEB82	19MAR82	2	2	1
68400	68500	1	OPB	1 C4	631 PROJECT FEASIBL REPORT-DRAFT ST	24AUG81	28AUG81	8FEB82	12FEB82	24	24	1
68500	68600	4	OPB	1 C4	631 PROJECT FEASIBL REPORT-DRAFT CT-1	15FEB82	12MAR82	15FEB82	12MAR82	0	0	1 CRITICAL
68600	68700	1	OPB	1 C4	631 PROJECT FEASIBL REPORT-DRAFT CT-2	15MAR82	19MAR82	15MAR82	19MAR82	0	0	1 CRITICAL
68700	68800	1	OPB	1 C4	631 PROJECT FEASIBL REPORT-DRAFT CT-3	22MAR82	26MAR82	22MAR82	26MAR82	0	0	1 CRITICAL
68800	68900	4	OPB	1 C4	631 PROJECT FEASIBL REPORT-DRAFT CT-4	29MAR82	23APR82	29MAR82	23APR82	0	0	1 CRITICAL
68900	69000	0	OPB	1 C4	631 PROJECT FEASIBL REPORT-DRAFT FIN	26APR82	23APR82	26APR82	23APR82	0	8	1 CRITICAL
6A700	6A800	5 R	OPB	1 C2	632 THERMAL GENERATION RESOURCE FIN	1DEC80	2JAN81	8DEC80	9JAN81	1	1	1
6C600	6C700	4	OPB	1 C8	6342 ENVIRONMENT ASSESSMENT-FINAL	1DEC80	26DEC80	5JAN81	30JAN81	5	5	1
6C800	6C900	1 R	OPB	1 C2	635 LOAD MANAGE & CONSERVE	1DEC80	5DEC80	1DEC80	5DEC80	0	0	1 CRITICAL
6D3A0	6D400	1 R	OPB	1 C2	6362 GENERAT PLAN ANALY & REPORT CT-1	1DEC80	5DEC80	1DEC80	5DEC80	0	0	1 CRITICAL
6D400	6D500	5	OPB	1 C2	6362 GENERAT PLAN ANALY & REPORT CT-2	8DEC80	9JAN81	8DEC80	9JAN81	0	0	1 CRITICAL
6D500	6D600	3	OPB	1 C2	6362 GENERAT PLAN ANALY & REPORT FIN	12JAN81	30JAN81	12JAN81	30JAN81	0	0	1 CRITICAL
6C100	6C200	9	OPB	1 C2	637 UPDATE GENERATION PLAN	1DEC80	30JAN81	1MAR82	30APR82	65	72	1
6B800	6B900	81 R	OPB	1 C2	638 LIAISON POWER ALTS CONSULTANT	1DEC80	18JUN82	1DEC80	18JUN82	0	0	1 CRITICAL
71200	71400	8 R	OPB	1 C8	701 STUDY COORD-ALTERNATIVE SITE CT-2	1DEC80	23JAN81	8DEC80	30JAN81	1	0	1
71400	71600	0	OPB	1 C8	7011 STUDY COORD-ALTERNATIVE SITE FIN	26JAN81	23JAN81	2FEB81	30JAN81	1	0	1
71600	71800	18	OPB	1 C8	7012 STUDY COORD-PRELIM ALTERNATV ST	26JAN81	29MAY81	2FEB81	5JUN81	1	0	1
71800	72000	0	OPB	1 C8	7012 STUDY COORD-PRELIM ALTERNATV FIN	1JUN81	29MAY81	8JUN81	5JUN81	1	0	1
72000	72200	35	OPB	1 C8	7013 STUDY COORD-OPTIMIZED DESIGN	1JUN81	29JAN82	8JUN81	5FEB82	1	0	1
79300	79400	68 R	OPB	1 C8	702 MONITOR FIELD ACTIVITIES CT-1	1DEC80	19MAR82	2MAR81	18JUN82	13	0	1
79400	79500	0	OPB	1 C8	702 MONITOR FIELD ACTIVITIES FIN	22MAR82	19MAR82	21JUN82	18JUN82	13	13	1
71000	71100	6 R	OPB	1 C8	7041 WATER RESOURCE ALT SITES	1DEC80	9JAN81	22DEC80	30JAN81	3	2	1
71600	70000	18	OPB	1 C8	7042 WTR RES-PRE WAT&DEVL CAN ALT	26JAN81	29MAY81	2FEB81	5JUN81	1	0	1
72000	70600	35	OPB	1 C8	7043 WTR RES-OPT WAT&DEVL CAN DES	1JUN81	29JAN82	8JUN81	5FEB82	1	0	1
73000	73200	66 R	OPB	1 C8	705 SOCIOECONOMIC ANALYSIS ST	1DEC80	5MAR82	8DEC80	12MAR82	1	0	1
73200	73400	0	OPB	1 C8	705 SOCIOECONOMIC ANALYSIS FIN	8MAR82	5MAR82	15MAR82	12MAR82	1	0	1
78600	78700	35 R	OPB	1 C8	7061 CULTURAL-ALTERNATIVE SITES ST	1DEC80	31JUL81	23MAR81	20NOV81	16	0	1
78700	79000	0	OPB	1 C8	7061 CULTURAL-ALTERNATIVE SITES FIN	3AUG81	31JUL81	23NOV81	20NOV81	16	0	1
78900	79000	8	OPB	1 C8	7062 CULTURAL PRELIM ALTERNATIVES ST	1DEC80	23JAN81	28SEP81	20NOV81	43	27	1
79000	79100	10	OPB	1 C8	7062 CULTURAL PRELIM ALTERNATIVES CT-1	3AUG81	9OCT81	23NOV81	29JAN82	16	0	1
79100	79700	0	OPB	1 C8	7062 CULTURAL PRELIM ALTERNATIVES FIN	12OCT81	9OCT81	1FEB82	29JAN82	16	0	1
79600	79700	15	OPB	1 C8	7063 CULTURAL-OPTIMIZED DESIGN ST	1DEC80	13MAR81	19OCT81	29JAN82	46	30	1
79700	79800	20	OPB	1 C8	7063 CULTURAL-OPTIMIZED DESIGN CT-1	12OCT81	26FEB82	1FEB82	18JUN82	16	0	1
79800	79900	0	OPB	1 C8	7063 CULTURAL-OPTIMIZED DESIGN FIN	1MAR82	26FEB82	21JUN82	18JUN82	16	16	1
75200	75300	35 R	OPB	1 C8	7071 LAND USE ALTERNATIVE SITES ST	1DEC80	31JUL81	23MAR81	20NOV81	16	0	1
75300	76000	0	OPB	1 C8	7071 LAND USE ALTERNATIVE SITES FIN	3AUG81	31JUL81	23NOV81	20NOV81	16	0	1
75900	76000	8	OPB	1 C8	7072 LAND USE PRELIM ALTERNATIVES ST	1DEC80	23JAN81	28SEP81	20NOV81	43	27	1
76000	76100	10	OPB	1 C8	7072 LAND USE PRELIM ALTERNATIVES CT-1	3AUG81	9OCT81	23NOV81	29JAN82	16	0	1
76100	76800	0	OPB	1 C8	7072 LAND USE PRELIM ALTERNATIVES FIN	12OCT81	9OCT81	1FEB82	29JAN82	16	0	1
76700	76800	15	OPB	1 C8	7073 LAND USE OPTIMIZED DESIGN ST	1DEC80	13MAR81	19OCT81	29JAN82	46	30	1
76800	76900	20	OPB	1 C8	7073 LAND USE OPTIMIZED DESIGN CT-1	12OCT81	26FEB82	1FEB82	18JUN82	16	0	1
76900	77000	0	OPB	1 C8	7073 LAND USE OPTIMIZED DESIGN FIN	1MAR82	26FEB82	21JUN82	18JUN82	16	16	1
72400	72600	19 R	OPB	1 C8	708 RECREATION PLANNING ST	1DEC80	10APR81	28SEP81	5FEB82	43	42	1

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72600	72800	5		OPB 1 C8	708 RECREATION PLANNING	FIN	1FEB82	5MAR82	8FEB82	12MAR82	1	0	1
71200	73500	8	R	OPB 1 C8	7091 TRANS LINE ASSESS SCREENING		1DEC80	23JAN81	8DEC80	30JAN81	1	0	1
73500	73600	12		OPB 1 C8	7092 TRANS LINE ASSESS RTE SELECTN		26JAN81	17APR81	20JUL81	9OCT81	25	24	1
736A0	73700	16	R	OPB 1 C8	7101 FISH ECOLOGY ALTERNATV SITES	ST	1DEC80	20MAR81	18MAY81	4SEP81	24	0	1
73700	73800	11	R	OPB 1 C8	7101 FISH ECOLOGY ALTERNATV SITES	CT-1	23MAR81	5JUN81	7SEP81	20NOV81	24	0	1
73800	74200	0		OPB 1 C8	7101 FISH ECOLOGY ALTERNATV SITES	FIN	8JUN81	5JUN81	23NOV81	20NOV81	24	0	1
74100	74200	8		OPB 1 C8	7102 FISH ECOLOGY PRELIM ALTERNAT	ST	1DEC80	23JAN81	28SEP81	20NOV81	43	19	1
74200	74300	10		OPB 1 C8	7102 FISH ECOLOGY PRELIM ALTS	CT-1	8JUN81	14AUG81	23NOV81	29JAN82	24	0	1
74300	74600	0		OPB 1 C8	7102 FISH ECOLOGY PRELIM ALTERNAT	FIN	17AUG81	14AUG81	1FEB82	29JAN82	24	24	1
74500	74600	15		OPB 1 C8	7103 FISH ECOLOGY OPTIMIZED DESGN	ST	1DEC80	13MAR81	19OCT81	29JAN82	46	46	1
74600	74700	20		OPB 1 C8	7103 FISH ECOLOGY OPTIMIZED DESGN	CT-1	1FEB82	18JUN82	1FEB82	18JUN82	0	0	1
74700	74800	0		OPB 1 C8	7103 FISH ECOLOGY OPTIMIZED DESGN	FIN	21JUN82	18JUN82	21JUN82	18JUN82	0	0	1
74900	75000	35	R	OPB 1 C8	7111 WILDLIFE ECOLOGY ALTER SITES	ST	1DEC80	31JUL81	23MAR81	20NOV81	16	0	1
75000	75100	0		OPB 1 C8	7111 WILDLIFE ECOLOGY ALTER SITES	FIN	3AUG81	31JUL81	23NOV81	20NOV81	16	0	1
75500	75600	8		OPB 1 C8	7112 WILDLIFE ECOLOGY PRELM ALTER	ST	1DEC80	23JAN81	28SEP81	20NOV81	43	27	1
75600	75700	10		OPB 1 C8	7112 WILDLIFE ECOLOGY PRELM ALTER	CT-1	3AUG81	9OCT81	23NOV81	29JAN82	16	0	1
75700	76400	0		OPB 1 C8	7112 WILDLIFE ECOLOGY PRELM ALTER	FIN	12OCT81	9OCT81	1FEB82	29JAN82	16	0	1
76300	76400	15		OPB 1 C8	7113 WILDLIFE ECOLOGY OPTIM DESGN	ST	1DEC80	13MAR81	19OCT81	29JAN82	46	30	1
76400	76500	20		OPB 1 C8	7113 WILDLIFE ECOLOGY OPTIM DESGN	CT-1	12OCT81	26FEB82	1FEB82	18JUN82	16	0	1
76500	76600	0		OPB 1 C8	7113 WILDLIFE ECOLOGY OPTIM DESGN	FIN	1MAR82	26FEB82	21JUN82	18JUN82	16	16	1
77100	77200	35	R	OPB 1 C8	7121 PLANT ECOLOGY ALTERNIV SITES	ST	1DEC80	31JUL81	23MAR81	20NOV81	16	0	1
77200	77500	0		OPB 1 C8	7121 PLANT ECOLOGY ALTERNIV SITES	FIN	3AUG81	31JUL81	23NOV81	20NOV81	16	0	1
77400	77500	8		OPB 1 C8	7122 PLANT ECOLOGY PRELM ALTERNAT	ST	1DEC80	23JAN81	28SEP81	20NOV81	43	27	1
77500	77600	10		OPB 1 C8	7122 PLANT ECOLOGY PRELM ALTERNAT	CT-1	3AUG81	9OCT81	23NOV81	29JAN82	16	0	1
77600	77900	0		OPB 1 C8	7122 PLANT ECOLOGY PRELM ALTERNAT	FIN	12OCT81	9OCT81	1FEB82	29JAN82	16	0	1
77800	77900	15		OPB 1 C8	7123 PLANT ECOLOGY OPTIMIZD DESGN	ST	1DEC80	13MAR81	19OCT81	29JAN82	46	30	1
77900	78000	20		OPB 1 C8	7123 PLANT ECOLOGY OPTIMIZD DESGN	CT-1	12OCT81	26FEB82	1FEB82	18JUN82	16	0	1
78000	78100	0		OPB 1 C8	7123 PLANT ECOLOGY OPTIMIZD DESGN	FIN	1MAR82	26FEB82	21JUN82	18JUN82	16	16	1
71000	74000	19	R	OPB 1 C8	714 ACCESS RD ENVIRONMENT ANALYS		1DEC80	10APR81	25MAY81	2OCT81	25	0	1
78200	78300	9		OPB 1 C8	715 PREP FOR FERC EXHIBIT-DRAFT	ST	1DEC80	30JAN81	11JAN82	12MAR82	58	57	1
78300	78400	4		OPB 1 C8	715 PREP FOR FERC EXHIBIT-DRAFT	CT-1	8MAR82	16APR82	15MAR82	23APR82	1	0	1
78400	78500	0		OPB 1 C8	715 PREP FOR FERC EXHIBIT-DRAFT	FIN	19APR82	16APR82	26APR82	23APR82	1	0	1
80000	80200	8	R	OPB 1 C3	801 SELECT INITIAL CORRIDORS	ST	1DEC80	23JAN81	8DEC80	30JAN81	1	0	1
80200	80400	6		OPB 1 C3	801 SELECT INITIAL CORRIDORS	FIN	26JAN81	6MAR81	2FEB81	13MAR81	1	0	1
81600	81800	2	R	OPB 1 C3	8021 LOAD FLOW ANALYSIS	ST	1DEC80	12DEC80	13APR81	24APR81	19	0	1
81800	82800	6		OPB 1 C3	8021 LOAD FLOW ANALYSIS	FIN	15DEC80	23JAN81	27APR81	5JUN81	19	19	1
82400	82600	10		OPB 1 C3	80221 PRELIMINARY ELEC SYSTEM	ST	1DEC80	6FEB81	2FEB81	10APR81	9	9	1
82600	82800	8		OPB 1 C3	80221 PRELIMINARY ELEC SYSTEM	CT-1	13APR81	5JUN81	13APR81	5JUN81	0	0	1
82800	83000	0		OPB 1 C3	80221 PRELIMINARY ELEC SYSTEM	FIN	8JUN81	5JUN81	8JUN81	5JUN81	0	0	1
85700	85800	40		OPB 1 C3	80222 RECOMMEND ELEC SYS		8JUN81	12MAR82	8JUN81	12MAR82	0	0	1
80600	80800	24		OPB 1 C3	803 FINAL ROUTE SELECTION 1981	ST	9MAR81	21AUG81	16MAR81	28AUG81	1	0	1
80800	81000	6		OPB 1 C3	803 FINAL ROUTE SELECTION 1981	CT-1	24AUG81	2OCT81	31AUG81	9OCT81	1	0	1
81000	81200	6		OPB 1 C3	803 FINAL ROUTE SELECTION 1981	CT-2	5OCT81	13NOV81	12OCT81	20NOV81	1	0	1
81200	81400	0		OPB 1 C3	803 FINAL ROUTE SELECTION 1981	FIN	16NOV81	13NOV81	23NOV81	20NOV81	1	0	1
83200	83400	8		OPB 1 C3	804 TOWER HARDWKE&CONDUCTR STUDY	ST	1DEC80	23JAN81	14SEP81	6NOV81	41	19	1
83400	83600	2		OPB 1 C3	804 TOWER HARDWKE&CONDUCTR STUDY	CT-1	8JUN81	19JUN81	9NOV81	20NOV81	22	21	1
83600	85400	10		OPB 1 C3	804 TOWER HARDWKE&CONDUCTR STUDY	FIN	16NOV81	22JAN82	23NOV81	29JAN82	1	0	1
84600	84800	8		OPB 1 C3	805 SUBSTATIONS	ST	1DEC80	23JAN81	12OCT81	4DEC81	45	19	1
84800	85400	8		OPB 1 C3	805 SUBSTATIONS	FIN	8JUN81	31JUL81	7DEC81	29JAN82	26	25	1
84000	84200	8		OPB 1 C3	806 DISPATCH CTR & COMMUNICATNS	ST	1DEC80	23JAN81	12OCT81	4DEC81	45	19	1
84200	85400	8		OPB 1 C3	806 DISPATCH CTR & COMMUNICATNS	FIN	8JUN81	31JUL81	7DEC81	29JAN82	26	25	1

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10-DEC-80 11:35:34  
ACRES CPM SYSTEM

ACRES AMERICAN SUSITNA HYDRO-ELECTRIC PROJECT  
CPM ANALYSIS LISTING

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REP01

I-NODE	J-NODE	DUR	SELECT	CODES	-----D E S C R I P T I O N -----	E.S.	E.F.	L.S.	L.F.	T.F.	F.F.	CL	
85200	85400	2	OPB	1 C3	307 TRANS LINE COST ESTIMATES	ST	1DEC80	12DEC80	18JAN82	29JAN82	59	58	1
85400	85600	6	OPB	1 C3	807 TRANS LINE COST ESTIMATES	FIN	25JAN82	5MAR82	1FEB82	12MAR82	1	1	1
90200	90400	2	OPB	1 C7	901 ASSEMBLE COST-SCHEDULE DATA	ST	30MAR81	10APR81	31AUG81	11SEP81	22	0	1
90400	90600	4	OPB	1 C7	901 ASSEMBLE COST-SCHEDULE DATA	FIN	13APR81	8MAY81	28SEP81	23OCT81	24	2	1
90800	91000	6	OPB	1 C7	902 PREP PRELIM CST ESTIMATES		13APR81	22MAY81	14SEP81	23OCT81	22	0	1
91200	91400	17	OPB	1 C7	903 COST ESTIMATE UPDATES		25MAY81	18SEP81	26OCT81	19FEB82	22	21	1
91600	91800	6	OPB	1 C7	9041 ENGR COST & SCHEDULE PRELIM		13APR81	22MAY81	14SEP81	23OCT81	22	0	1
92000	92200	17	OPB	1 C7	9042 ENGR COST & SCHEDULE FINAL		25MAY81	18SEP81	26OCT81	19FEB82	22	21	1
92400	92600	12	OPB	1 C7	905 CONTINGENCY ANALYSIS		25MAY81	14AUG81	30NOV81	19FEB82	27	26	1
A1200	A1600	9	FLC	C110	1001 IMPACT OF NEW FERC REGULATIONS		1DEC80	30JAN81	28DEC81	26FEB82	56	0	1
A3200	A2600	4	FLC	C110	10022 1ST UPDATE-REGULATORY REQ		2MAR81	27MAR81	26APR82	21MAY82	60	55	1
A3400	A2600	4	FLC	C110	10023 2ND UPDATE-REGULATORY REQ		4JAN82	29JAN82	26APR82	21MAY82	16	11	1
A3200	A2400	5	FLC	C110	1003 DATA FROM OTHERS		2MAR81	3APR81	19APR82	21MAY82	59	54	1
A1400	A1600	5 R	FLC	C110	1004 COORD EXHIBIT PREPARATION	ST	1DEC80	2JAN81	25JAN82	26FEB82	60	4	1
A1600	A1800	12	FLC	C110	1004 COORD EXHIBIT PREPARATION	CT-1	2FEB81	24APR81	1MAR82	21MAY82	56	51	1
A1800	A2400	0	FLC	C110	1004 COORD EXHIBIT PREPARATION	FIN	19APR82	16APR82	24MAY82	21MAY82	5	0	1
A0400	A0600	10	FLC	C110	1005 PREPARE EXHIBIT D & E	ST	30NOV81	5FEB82	15MAR82	21MAY82	15	5	1
A0600	A1800	0	FLC	C110	1005 PREPARE EXHIBIT D & E	FIN	15MAR82	12MAR82	24MAY82	21MAY82	10	5	1
A0800	A1000	10	FLC	C110	1006 PREPARE EXHIBIT R	ST	30NOV81	5FEB82	15MAR82	21MAY82	15	5	1
A1000	A1800	0	FLC	C110	1006 PREPARE EXHIBIT R	FIN	15MAR82	12MAR82	24MAY82	21MAY82	10	5	1
A0000	A0200	6	FLC	C110	1007 PREPARE EXHIBIT T	ST	30NOV81	8JAN82	15MAR82	23APR82	15	0	1
A0200	A1800	4	FLC	C110	1007 PREPARE EXHIBIT T	FIN	11JAN82	5FEB82	26APR82	21MAY82	15	10	1
A2200	A2400	6	FLC	C110	1008 PREP APPLICATN FORM-DRAFT	ST	30NOV81	8JAN82	12APR82	21MAY82	19	14	1
A2400	A2600	0	FLC	C110	1008 PREP APPLICATN FORM-DRAFT	FIN	19APR82	16APR82	24MAY82	21MAY82	5	0	1
A2600	A2800	2	FLC	C110	1009 REVIEW AND CORRECT		19APR82	30APR82	24MAY82	4JUN82	5	0	1
A2800	A3000	2	FLC	C110	1010 EXTERNAL REVIEW		3MAY82	14MAY82	7JUN82	18JUN82	5	5	1
B0000	B0200	75 R	FLC	C210	1101 PROJECT OVERVIEW		1DEC80	7MAY82	12JAN81	18JUN82	6	6	1
B0400	B0600	67 R	FLC	C210	1102 INTERNAL REPORTS		1DEC80	12MAR82	9MAR81	18JUN82	14	14	1
B0800	B1000	10 R	FLC	C210	11031 ALT POWR SRCE RISK ANAL-PREL	ST	1DEC80	6FEB81	3AUG81	9OCT81	35	0	1
B1000	B1200	2	FLC	C210	11031 ALT POWR SRCE RISK ANAL-PREL	FIN	9FEB81	20FEB81	12OCT81	23OCT81	35	0	1
B1200	B1300	30	FLC	C210	11032 ALT POWR SRCE RISK ANAL-REFN		23FEB81	18SEP81	26OCT81	21MAY82	35	0	1
B1200	B1400	30	FLC	C210	1104 BASE PLAN RISK ANALYSIS	ST	23FEB81	18SEP81	26OCT81	21MAY82	35	0	1
B1400	B1600	0	FLC	C210	1104 BASE PLAN RISK ANALYSIS	FIN	21SEP81	18SEP81	24MAY82	21MAY82	35	30	1
B2000	B2200	30	FLC	C210	1105 SUSITNA FINANCE RISK ANALYSIS		1DEC80	26JUN81	27JUL81	19FEB82	34	51	1
B2400	B2600	24	FLC	C210	1106 RESOLUTION TAX ISSUE		1DEC80	15MAY81	19JAN81	3JUL81	7	57	1
B2800	B3000	30	FLC	C210	1107 IDENTIFY PARTIES INTEREST		1DEC80	26JUN81	27JUL81	19FEB82	34	51	1
B3200	B3400	30	FLC	C210	1108 REVENUE ASSURANCE		1DEC80	26JUN81	27JUL81	19FEB82	34	51	1
B3600	B3800	81 R	FLC	C210	1109 LIAISON APA BOND UNDERWRITER		1DEC80	18JUN82	1DEC80	18JUN82	0	0	1 CRITICAL
C0600	C0800	4	OPB	1 C810	12022 CONDUCT PUBLIC MEETING #2		30MAR81	24APR81	4JAN82	29JAN82	40	0	1
C1200	C1400	4	OPB	1 C810	12023 CONDUCT PUBLIC MEETING #3		20JUL81	14AUG81	26APR82	21MAY82	40	35	1
C0200	C0400	4 R	OPB	1 C810	12031 CONDUCT WORKSHOPS 1,2,3		1DEC80	26DEC80	7DEC81	1JAN82	53	13	1
C0800	C1000	12	OPB	1 C810	12032 CONDUCT WORKSHOPS 4,5,6		27APR81	17JUL81	1FEB82	23APR82	40	0	1
C1600	D1200	81 R	OPB	1 C810	1204 PREP PUBLISH DISTRIB MATERIAL		1DEC80	18JUN82	1DEC80	18JUN82	0	0	1 CRITICAL
C1800	D1200	81 R	OPB	1 C810	1205 PREP MAINTAIN ACTION LIST		1DEC80	18JUN82	1DEC80	18JUN82	0	0	1 CRITICAL
D1000	D1200	31 R	PSB	2 C310	13013 PROJECT PROCED MANUAL-UPDATE		1DEC80	3JUL81	16NOV81	18JUN82	50	50	1
D2200	D2400	81 R	PSB	2 C310	13042 SCHEDULE CONTROL SYS UPDATE		1DEC80	18JUN82	1DEC80	18JUN82	0	0	1 CRITICAL
D2800	D3000	81 R	PSB	2 C310	13052 COST CONTROL SYSTEM-OP		1DEC80	18JUN82	1DEC80	18JUN82	0	0	1 CRITICAL
D3400	D3600	81 R	PSB	2 C310	13062 MANPOWER LOADING SCHED-UPDATE		1DEC80	18JUN82	1DEC80	18JUN82	0	0	1 CRITICAL
D3800	D4000	81 R	PSB	2 C310	1310 SUB CONTRACT ADMINISTRATION		1DEC80	18JUN82	1DEC80	18JUN82	0	0	1 CRITICAL
D1200	D1300	0		10 XXX	PROJECT COMPLETE XXX		21JUN82	18JUN82	28JUN82	25JUN82	1	0	1

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ACSE190

### DESCRIPTION

80 81 82  
DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  
0012201120012001230122011200122012201123012201120012301220112001200122011201123012201120012  
1852952962963296306307418518529630730741741852962963074184185185218529529630741741852962963

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80 81 82  
DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  
0012201120012001230122011200122012201123012201120012301220112001200122011201123012201120012  
1852952962963296306307418518529630730741741852962963074184185185218529529630741741852962963

LINE NO	DESCRIPTION	STATUS	DATE	TIME	USER	REMARKS
3072	RIVER MORPHOLOGY	ST			XXXXXXXXXXXX	
3072	RIVER MORPHOLOGY	CT-1			XXXX	
3072	RIVER MORPHOLOGY	FIN				XXXX L
3082	TRANSMN LINE-DET PARAMTR	ST	XXXXXX			
3082	TRANSMN LINE-DET PARAMTR	FIN			CCCL	
309	ACCESS ROADS HYDROLOGY				XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
3101	LWR SUSITNA STUDIES-PRELIM	ST	CCCCCL			
3101	LWR SUSITNA STUDIES-PRELIM	FIN			CCCCCCCC	
3102	LWR SUSITNA STUDIES-FOLLOWUP				CC	
402	SHORT TERM MONITORING PROGRAM	FIN	L			
403	PRELIM RESERVR INDUCD SEISMIC	L				
404	REMOTE SENSING IMAG ANALYSIS	FIN	XXX			
406	PRELIM EVALUATN&REPORT-DRAFT	FIN	.CCCL			
407	PRELIM GROUND MOTION STUDIES		CCCCCCCC			
408	DAM STABILITY	CT-1			CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
408	DAM STABILITY	FIN			XXXXXX	
409	LONG TERM MONITORING PROGRAM				XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
410	RESERVOIR INDUCED SEISMICITY		.XXXXXXXXXX			
411	SEISMIC GEOLOGY-FIELD STUDY		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXL			
412	EVALUATION & REPORT DRAFT	ST			CC	
412	EVALUATION & REPORT DRAFT	CT-1				CL
412	EVALUATION & REPORT DRAFT	FIN				CCCL
413	GROUND MOTION STUDIES	ST			XXXXXXXXXXXXXXXXXX	
413	GROUND MOTION STUDIES	FIN			XXXXXXXXXXXXXXXXXXL	
414	DAM STABILITY CONSULTING		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
415	SOIL SUSCEPTITY-SEISMIC FAIL		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
502	AIR PHOTO INTERPRETATION	FIN	XX			
504	1980 EXPLORATION PROGRAM		XX			
505	1981 PROGRAM DESIGN	ST	XXX			
505	1981 PROGRAM DESIGN	FIN	.XX			
506	1981 EXPLORATION PROGRAM	ST	XXXXXXXXXXXXXX			
506	1981 EXPLORATION PROGRAM	FIN			XXXXXXXXXXXXXXXXXXXX	
507	1982-4 PROGRAM DESIGN				XXXXXXXXXX	
5081	DATA ASSEMBLY-1980-DRAFT	ST	XX			
5081	DATA ASSEMBLY-1980-DRAFT	FIN	.X			
5082	DATA ASSEMBLY-1981-DRAFT	ST	XXX			
5082	DATA ASSEMBLY-1981-DRAFT	FIN			XX	
5083	DATA ASSEMBLY FINAL-DRAFT				XXXXXX	
602	INVESTIGATE TUNML ALTERNATVS		XXXXL			
603	EVAL ALT SUSITNA DEVELOPMENT	CT-1	CCCCCL			
603	EVAL ALT SUSITNA DEVELOPMENT	CT-2			CCCL	
603	EVAL ALT SUSITNA DEVELOPMENT	CT-3			XXXL	
603	EVAL ALT SUSITNA DEVELOPMENT	FIN			L	
604	DEVL CAN ARCH DAM EVALUATION	ST	XXX			
604	DEVL CAN ARCH DAM EVALUATION	FIN				
6051	SELECT REPORT DRAFT		CCCCCCCCCL			
6052	SELECT FINAL REPORT	ST			XXXL	
6052	SELECT FINAL REPORT	CT-1			XL	

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80 81 82  
DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  
0012201120012001230122011200122012201123012201120012301220112001200122011201123012201120012  
1852952962963296306307418518529630730741741852962963074184185185218529529630741741852962963

LINE	DESCRIPTION	STATUS	REMARKS
6052	SELECT FINAL REPORT	FIN	XXXXL
606	STAGED DEVELOPMENT ALTS	CT-1	CCCCCCCCCL
606	STAGED DEVELOPMENT ALTS	FIN	XXX L
607	PRELIM WATANA DAM ALTERNATES	CT-1	XXXXX L
607	PRELIM WATANA DAM ALTERNATES	CT-2	XXXXXXXXXX L
607	PRELIM WATANA DAM ALTERNATES	CT-3	X L
607	PRELIM WATANA DAM ALTERNATES	FIN	L
608	PRELIM DEVIL CANYON DAM ALT	CT-1	XXXXX L
608	PRELIM DEVIL CANYON DAM ALT	CT-2	XXXXXXXXXX L
608	PRELIM DEVIL CANYON DAM ALT	FIN	L
609	ESTAB WATANA DESIGN CRITERIA	ST	X
609	ESTAB WATANA DESIGN CRITERIA	CT-1	XXXXXXXX L
609	ESTAB WATANA DESIGN CRITERIA	CT-2	XXXXXXXX L
609	ESTAB WATANA DESIGN CRITERIA	FIN	X L
610	ESTAB DEVIL CANYN DESGN CRIT	ST	X
610	ESTAB DEVIL CANYN DESGN CRIT	CT-1	XXXXXXXX L
610	ESTAB DEVIL CANYN DESGN CRIT	CT-2	XXXXXXXX L
610	ESTAB DEVIL CANYN DESGN CRIT	FIN	X L
611	PRELIM DESIGN WATANA DAM	ST	CCCCCCCCCCL
611	PRELIM DESIGN WATANA DAM	CT-1	CCCCCCCCCCL
611	PRELIM DESIGN WATANA DAM	FIN	CCCCCCCCCCL
612	FREL DESIGN DEVIL CANYON DAM	ST	CCCCCCCCCCL
612	FREL DESIGN DEVIL CANYON DAM	CT-1	CCCCCCCCCCL
612	FREL DESIGN DEVIL CANYON DAM	FIN	CCCCCCCCCCL
613	DAM SELECTION REPORT-DRAFT	ST	XXXXXXXXXXXX
613	DAM SELECTION REPORT-DRAFT	FIN	L
614	SPILLWAY DESIGN CRITERIA	ST	XXX
614	SPILLWAY DESIGN CRITERIA	FIN	L
615	WATANA SPILLWAY ALTERNATIVES	ST	XXXXXXXXXX L
615	WATANA SPILLWAY ALTERNATIVES	FIN	XXXXXXXXXX L
616	DEVIL CAN SPILLWAY ALTERNATIVE	ST	XXX L
616	DEVIL CAN SPILLWAY ALTERNATIVE	FIN	XXXXXXXXXX L
617	PRELIM DESGN WATANA SPILLWAY	ST	XXXX
617	PRELIM DESGN WATANA SPILLWAY	CT-1	XXXX L
617	PRELIM DESGN WATANA SPILLWAY	FIN	XXXXXXXXXXXXXXXXXX L
618	PRELIM DES DEVIL CAN SPILWAY	ST	XXXXXX L
618	PRELIM DES DEVIL CAN SPILWAY	FIN	XXXXXXXXXXXXXXXXXX L
619	SPILLWAY SELECTN REPT-DRAFT	ST	XXXXXX
619	SPILLWAY SELECTN REPT-DRAFT	FIN	L
620	ACCESS & CAMP FACILITIES	ST	XXX
620	ACCESS & CAMP FACILITIES	FIN	XXXXXXXX
621	WATANA DIVERSION SCHEMES	ST	XXXXXX
621	WATANA DIVERSION SCHEMES	FIN	L
622	DEVIL CANYON DIVERSN SCHEMES	ST	XXXXXXXXXXXX
622	DEVIL CANYON DIVERSN SCHEMES	FIN	XXXXXXXXXXXX L
623	OPT WATANA POWER DEVELOPMENT	ST	XXXXXX L
623	OPT WATANA POWER DEVELOPMENT	CT-1	XXXXXXXXXX L
623	OPT WATANA POWER DEVELOPMENT	FIN	XXXXXX

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80 81 82  
DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  
0012201120012001230122011200122012201123012201120012301220112001200122011201123012201120012  
1852952962963296306307418518529630730741741852962963074184185185218529529630741741852962963

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80 81 82  
DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  
0012201120012001230122011200122012201123012201120012301220112001200122011201123012201120012  
1852952962963296306307418518529630730741741852962963074184185185218529529630741741852962963

7063	CULTURAL-OPTIMIZED DESIGN	ST	XXXXXXXXXXXXXXXXXX		L
7063	CULTURAL-OPTIMIZED DESIGN	CT-1.		XXXXXXXXXXXXXXXXXXXXX	
7063	CULTURAL-OPTIMIZED DESIGN	FIN .			
7071	LAND USE ALTERNATIVE SITES	ST	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		L
7071	LAND USE ALTERNATIVE SITES	FIN .			L
7072	LAND USE PRELIM ALTERNATIVES	ST	XXXXXXX		L
7072	LAND USE PRELIM ALTERNATIVES	CT-1.		XXXXXXXXXX	
7072	LAND USE PRELIM ALTERNATIVES	FIN .			L
7073	LAND USE OPTIMIZED DESIGN	ST	XXXXXXXXXXXXXXXXXX		L
7073	LAND USE OPTIMIZED DESIGN	CT-1.		XXXXXXXXXXXXXXXXXXXXX	
7073	LAND USE OPTIMIZED DESIGN	FIN .			
708	RECREATION PLANNING	ST	XXXXXXXXXXXXXXXXXXXX		L
708	RECREATION PLANNING	FIN .			XXXXXL
7091	TRANS LINE ASSESS SCREENING		XXXXXXXXXL		
7092	TRANS LINE ASSESS RTE SELECTN	.	XXXXXXXXXXXXX		
7101	FISH ECOLOGY ALTERNATV SITES	ST	XXXXXXXXXXXXXXXXXXXX		
7101	FISH ECOLOGY ALTERNATV SITES	CT-1.		XXXXXXXXXXXXX	
7101	FISH ECOLOGY ALTERNATV SITES	FIN .			L
7102	FISH ECOLOGY PRELIM ALTERNAT	ST	XXXXXXX		L
7102	FISH ECOLOGY PRELIM ALTS	CT-1.		XXXXXXXXXXXXX	
7102	FISH ECOLOGY PRELIM ALTERNAT	FIN .			L
7103	FISH ECOLOGY OPTIMIZED DESGN	ST	XXXXXXXXXXXXXXXXXXXX		L
7103	FISH ECOLOGY OPTIMIZED DESGN	CT-1.			CCCCCCCCCCCCCCCCCCCL
7103	FISH ECOLOGY OPTIMIZED DESGN	FIN .			
7111	WILDLIFE ECOLOGY ALTER SITES	SI	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		L
7111	WILDLIFE ECOLOGY ALTER SITES	FIN .			L
7112	WILDLIFE ECOLOGY PRELM ALTER	ST	XXXXXXX		L
7112	WILDLIFE ECOLOGY PRFLM ALTER	CT-1.		XXXXXXXXXXXXX	
7112	WILDLIFE ECOLOGY PRELM ALTER	FIN .			L
7113	WILDLIFE ECOLOGY OPTIM DESGN	ST	XXXXXXXXXXXXXXXXXXXX		L
7113	WILDLIFE ECOLOGY OPTIM DESGN	CT-1.		XXXXXXXXXXXXXXXXXXXXX	
7113	WILDLIFE ECOLOGY OPTIM DESGN	FIN .			
7121	PLANT ECOLOGY ALTERNIV SITES	ST	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		L
7121	PLANT ECOLOGY ALTERNIV SITES	FIN .			L
7122	PLANT ECOLOGY PRELM ALTERNAT	ST	XXXXXXX		L
7122	PLANT ECOLOGY PRELM ALTERNAT	CT-1.		XXXXXXXXXXXXX	
7122	PLANT ECOLOGY PRELM ALTERNAT	FIN .			L
7123	PLANT ECOLOGY OPTIMIZD DESGN	ST	XXXXXXXXXXXXXXXXXXXX		L
7123	PLANT ECOLOGY OPTIMIZD DESGN	CT-1.		XXXXXXXXXXXXXXXXXXXXX	
7123	PLANT ECOLOGY OPTIMIZD DESGN	FIN .			
714	ACCESS RD ENVIRONMENT ANALYS		XXXXXXXXXXXXXXXXXXXX		L
715	PREF FOR FERC EXHIBIT-DRAFT	ST	XXXXXXX		
715	PREF FOR FERC EXHIBIT-DRAFT	CT-1.			L
715	PREF FOR FERC EXHIBIT-DRAFT	FIN .			XXXXXL
801	SELECT INITIAL CORRIDORS	ST	XXXXXXXXXL		
801	SELECT INITIAL CORRIDORS	FIN .	XXXXXXL		
8021	LOAD FLOW ANALYSIS	ST	XX		
8021	LOAD FLOW ANALYSIS	FIN .	XXXXXX		

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80 81 82  
DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  
0012201120012001230122011200122012201123012201120012301220112001200122011201123012201120012  
1852952962963296306307418518529630730741741852962963074184185185218529529630741741852962963

Line	Description	ST	CT-1	CT-2	FIN	Other
80221	PRELIMINARY ELEC SYSTEM	ST	XXXXXXX			
80221	PRELIMINARY ELEC SYSTEM	CT-1				
80221	PRELIMINARY ELEC SYSTEM	FIN				
80222	RECOMMEND ELEC SYS					
803	FINAL ROUTE SELECTION 1981	ST				
803	FINAL ROUTE SELECTION 1981	CT-1				
803	FINAL ROUTE SELECTION 1981	CT-2				
803	FINAL ROUTE SELECTION 1981	FIN				
804	TOWER HARDWARE&CONDUCTR STUDY	ST	XXXXXXX			
804	TOWER HARDWARE&CONDUCTR STUDY	CT-1				
804	TOWER HARDWARE&CONDUCTR STUDY	FIN				
805	SUBSTATIONS	ST	XXXXXXX			
805	SUBSTATIONS	FIN				
806	DISPATCH CTR & COMMUNICATNS	ST	XXXXXXX			
806	DISPATCH CTR & COMMUNICATNS	FIN				
807	TRANS LINE COST ESTIMATES	ST	XX			
807	TRANS LINE COST ESTIMATES	FIN				
901	ASSEMBLE COST-SCHEDULE DATA	ST				
901	ASSEMBLE COST-SCHEDULE DATA	FIN				
902	PREP PRELIM CST ESTIMATES					
903	COST ESTIMATE UPDATES					
9041	ENGR COST & SCHEDULE PRELIM					
9042	ENGR COST & SCHEDULE FINAL					
905	CONTINGENCY ANALYSIS					
1001	IMPACT OF NEW FERC REGULATIONS		XXXXXXX			
10022	1ST UPDATE-REGULATORY REQ					
10023	2ND UPDATE-REGULATORY REQ					
1003	DATA FROM OTHERS					
1004	COORD EXHIBIT PREPARATION	ST	XXXXX			
1004	COORD EXHIBIT PREPARATION	CT-1				
1004	COORD EXHIBIT PREPARATION	FIN				
1005	PREPARE EXHIBIT D & E	ST				
1005	PREPARE EXHIBIT D & E	FIN				
1006	PREPARE EXHIBIT R	ST				
1006	PREPARE EXHIBIT R	FIN				
1007	PREPARE EXHIBIT T	ST				
1007	PREPARE EXHIBIT T	FIN				
1008	PREP APPLICAIN FORM-DRAFT	ST				
1008	PREP APPLICATN FORM-DRAFT	FIN				
1009	REVIEW AND CORRECT					
1010	EXTERNAL REVIEW					
1101	PROJECT OVERVIEW					
1102	INTERNAL REPORTS					
11031	ALT POWR SRCE RISK ANAL-PREL	ST				
11031	ALT POWR SRCE RISK ANAL-PREL	FIN				
11032	ALT POWR SRCE RISK ANAL-REFN					
1104	BASE PLAN RISK ANALYSIS	ST				
1104	BASE PLAN RISK ANALYSIS	FIN				

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### DESCRIPTION

80 . 81 82  
DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  
0012201120012001230122011200122012201123012201120012301220112001200122011201123012201120012  
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1105	SUSITNA FINANCE RISK ANALYSIS	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1106	RESOLUTION TAX ISSUE	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXL	
1107	IDENTIFY PARTIES INTEREST	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1108	REVENUE ASSURANCE	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1109	LIAISON APA BOND UNDERWRITER	CCCCCCCCCCCCCCCCCCCL	
12022	CONDUCT PUBLIC MEETING #2	. XXXX L	
12023	CONDUCT PUBLIC MEETING #3	. XXXX L	
12031	CONDUCT WORKSHOPS 1,2,3	XXXX L	
12032	CONDUCT WORKSHOPS 4,5,6	. XXXXXXXXXX L	
1204	PREP PUBLISH DISTRIB MATERIAL	CCCCCCCCCCCCCCCCCCCL	
1205	PREP MAINTAIN ACTION LIST	CCCCCCCCCCCCCCCCCCCL	
13013	PROJECT PROCD MANUAL-UPDATE	XXXXXXXXXXXXXXXXXXXXXXL	
13042	SCHEDULE CONTROL SYS UPDATE	CCCCCCCCCCCCCCCCCCCL	
13052	COST CONTROL SYSTEM-OP	CCCCCCCCCCCCCCCCCCCL	
13062	HANPOWER LOADING SCHED-UPDATE	CCCCCCCCCCCCCCCCCCCL	
1310	SUB CONTRACT ADMINISTRATION	CCCCCCCCCCCCCCCCCCCL	
xxx	PROJECT COMPLETE xxx	.	