

ALASKA POWER AUTHORITY

SUSITNA HYDROELECTRIC PROJECT

PROGRESS REPORT

FOR

DECEMBER, 1980

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT
MONTHLY PROGRESS REPORT

REPORT NO. 12

PERIOD: December, 1980

Progress Report No. 12 covers activities on the Susitna Hydroelectric Project for the month of December, 1980.

The limited work on Task 1 is continuing as scheduled.

The Task 2 surveys and operation of site facilities proceeded on schedule. Watana base camp operations continued at a reduced winter level. A fuel resupply was carried out. A review of requirements by CIRI-H&N is underway for 1981 operations and land ownership maps were completed.

Work on Task 3, Hydrology, is proceeding as scheduled. Development of computer software for data processing is in progress.

Task 4, Seismic Studies, is continuing on schedule. Acres issued its comments on WCC interim report. WCC is continuing work on the Task 4 interim report which will be issued in draft in January.

Task 5, Geotechnical Exploration, is proceeding as planned. Work continued on the 1980 Geotechnical Report and planning of 1981 Exploration Program.

Task 6, Design Development, continued on the investigation of tunnel alternatives including general arrangements and cost estimates. Work continued on the refinement of energy simulation runs for the preferred schemes for Alternative Susitna Development. Work started on the conceptual design of the fill dam cross section at Watana.

Task 7, Environmental Studies, continued with the final report on "Preliminary Environmental Assessment of Tunnel Alternatives" was reviewed by Acres and incorporated into Acres overall review of tunnel alternatives. A meeting was held with TES in early December to discuss Susitna development options. A meeting was held between Commonwealth Associates and TES to discuss transmission line studies. Work continued on Fish, Wildlife, and Plant Ecology Studies with emphasis placed on the Annual Report.

Task 8, Transmission, continued as scheduled. A draft of the Project Overview Report was started in this period. The centerline of the preliminary route between Watana, Devil Canyon and Gold Creek was located on a map.

Task 11, Financing, continued on the preparation of the Project Overview Report. Software facilities for the Susitna Project Risk Analysis were set up on Acres Computer.

Task 13, Project Administration, continued as scheduled.

TASK 1 - Power Studies

Subtask 1.01 - Review of Iser

The draft Closeout Report for this activity was reviewed by the APA. The final report will be issued in January, 1981.

Subtask 1.02 - Forecasting Peak Load Demand

WCC ACTIVITIES

The final report for this subtask was being prepared and will be submitted in early January, 1981.

TASK 2 - SURVEY AND SITE FACILITIES

ACRES FACILITIES

Subtask 2.02 - Field Camp and Logistical Support

Acres continued to monitor day to day activities and coordinate logistics support for the field camp.

CIRI/H&N ACTIVITIES

The camp maintenance and operations staff remained at three people. A fuel resupply consisting of 18,400 gallons of Jet B fuel was completed. CIRI/H&N received quotations for additional fuel resupply for 1981.

CIRI/H&N continued its regular inspection of camp facilities and operations. Request for quotations for the winter mobilization of approximately 120,000 gallons of fuel were solicited and received from local ground and air transport service companies.

Recommendations regarding the winter mobilization efforts have been forwarded to Acres American for review. Bids have also been solicited by CIRI/H&N for the maintenance of all camp communication facilities. Quotations will be reviewed in mid-January.

Subtask 2.04 - Land Ownership

CIRI/H&N ACTIVITIES

The land ownership maps prepared by the CIRI land department were completed and a Subtask 2.04 completion report prepared by CIRI/H&N.

Acres American has requested our definition of how land acquisition analyses will be carried out once proposed transmission corridor, access, and reservoir areas are delineated by Acres American. CIRI/H&N recommendations concerning the land acquisition analyses will be forwarded to Acres in late January.

Subtask 2.06 - Right of Entry

ACRES ACTIVITIES

Acres redefined the access needs for 1981 for both resupply and geotechnical explorations as well as completed status on the 1980 work.

CIRI/H&N ACTIVITIES

The permit coordinator submitted revisions for 1981 permits to BLM for review and approval.

Subtask 2.07, 2.08, 2.09 - Surveys and Aerial Photography

ACRES ACTIVITIES

Acres continued coordination of all survey and air photo work with R&M Consultants.

TASK 3 - HYDROLOGY

ACRES ACTIVITIES

Subtask 3.03 - Field Data Collection and Processing

Routine monitoring of R&M field work continued. Development of computer software for data processing is in progress. Snow creep measurement system details were finalized. Installation of the two stations in the field are expected to be complete by late January.

Subtask 3.05 - Flood Studies

Detailed supervision and coordination of the flood peak and volume frequency analysis being conducted by R&M was provided.

Subtask 3.06 - Hydraulic and Ice Studies

Preliminary analysis of freeze up and river cross section data has commenced.

Subtask 3.08 - Climatic Studies for Transmission Lines

The final report on preliminary design parameters was reviewed internally. A design transmittal will be issued January 1981.

Subtask 3.10 - Lower Susitna Studies

R&M status report on the studies was reviewed and comments sent to R&M on further work.

TASK 4 - SEISMIC STUDIES

ACRES ACTIVITIES

Task 4 is being performed by Woodward-Clyde Consultants. Acres continued to review the seismic geology evaluation report.

WCC ACTIVITIES

Task 4 - Seismic Studies

Subtask 4.06 - Evaluation and Reporting

Review comments on the Task 4 draft report were received from WCC's project review board and from Acres' reviewers. Review comments were incorporated into the report as appropriate. A meeting will be held with Acres' reviewers during the week of January 5, 1981 to discuss the comments and to clarify selected portions of the report.

Subtask 4.07 - Preliminary Ground Motion Studies

The earthquake engineering analyses were completed and a draft report on "Preliminary Earthquake Ground Motion Studies" was submitted on December 12, 1980.

Report

Issuance of the task 4 Interim Report for 1980 is approximately one month behind the schedule anticipated at the end of November 1980. The delay is due to a number of factors, the primary one being a longer than planned response time for some of the review comments. It has been decided to include the results of all subtasks conducted during 1980 as a single report. The current schedule is to complete the report on January 16, 1981 and submit it to Acres as a proof copy as per their request. Upon receipt of any additional comments the report will be revised, if appropriate, and given to the printer. It will probably be ready for distribution by mid-February 1981.

TASK 5 - GEOTECHNICAL EXPLORATION

ACRES ACTIVITIES

Subtask 5.01 - Data Collection and Review

Subtask has been completed. Detailed information will be included in the 1980 Geotechnical report to be produced (tentatively) in February, 1981.

Subtask 5.03 - Exploratory Program Design, 1980

Subtask complete.

Subtask 5.04 - Exploratory Program, 1980

Field work has been completed.

Subtask 5.05 - Exploratory Program Design 1981

A preliminary 1981 Exploration Plan is currently being reviewed and finalized for the winter drilling. 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.

TASK 6 - DESIGN DEVELOPMENT

Subtask 6.01 - Review Previous Studies

Internal review of closeout report has been completed.

Subtask 6.02 - Investigate Tunnel Alternatives

Preliminary layouts for Scheme 3 were completed including general arrangement of the re-regulation dam and power facilities. A final refinement of the cost estimate was started. Work commenced on writing the closeout report.

Subtask 6.03 - Evaluate Susitna Alternatives and

Subtask 6.06 - Watana/Devil Canyon Staged Development Alternatives

Monthly energy simulation runs and refinement of energy estimates were carried out for a short list of three preferred schemes.

Plan 2A Stage 1 - Watana (2000) 400 MW

Stage 2 - Watana (2200) and 400 MW if required

Stage 3 - Devil Canyon (1450) 400 MW and 200 MW if required

Note: Consideration is being given to installing a re-regulation dam downstream of the 800 MW Watana dam development prior to the construction of the Devil Canyon dam.

Plan 3A Stage 1 - Watana (2200) 400 MW

Stage 2 - Watana (2200) add 400 MW if required

Stage 3 - Devil Canyon (1450) 400 MW and 200 MW if required

Note: As for Plan 2A.

Plan 6A Stage 1 - High Devil Canyon (1760) 400 MW

Stage 2 - High Devil Canyon (1760) add 400 MW if required

Stage 3 - Vee (2360) 400 MW

Note: Consideration is being given to adding in a 150 ft high dam just upstream from Portage Creek (referred to as the Portage Creek site). It would act as a re-regulation dam to the High Devil Canyon site and could generate up to 150 MW of power.

Work continued on refining layouts for the several selected sites.

Subtask 6.04 - Devil Canyon Arch Dam Evaluation

A first draft closeout report of the subtask was completed and the subtask closed out.

Subtask 6.05 - Development Selection Report

A final outline of the report was prepared and circulated. Initial drafts of certain sections of the report were prepared.

Subtask 6.07 - Preliminary Watana Dam Alternatives

Work was started on a conceptual design of the fill dam cross section. The staged concrete and fill dam layouts development under Subtask 6.06 were refined and completed. Preliminary cost studies indicate the fill dam to be economically superior to the concrete dam alternative.

Subtask 6.08 - Preliminary Devil Canyon Dam Alternatives

A detailed arch dam design review meeting was held with members of the internal review panel and M. Copen. The WPRS (formerly the USBR) computer programs for arch dam stress analysis (ADSAS) and for temperature analysis (HEATFLOW) were obtained and set up on the Acres computer. The layouts for the gravity arch dam were completed.

Subtask 6.32 - Thermal Generator Reservoir

Capital cost estimates for the thermal generating options were finalized as were fuel price opportunity values consistent with Alaskan experience market prices. Report preparation for the Project Overview and Development Selection Report was drafted.

Subtask 6.33 - Hydroelectric Generation Sources

Power Analyses were performed at most of the sites (Operation Type 1 - environmental was completed for all ten sites/Operation Type 2 - power was completed for eight sites). The installed capacities were selected and the energy production data for the generation planning task was estimated.

Quantity and cost estimates were compiled for six dam sites.

Subtask 6.34 - Establish Methodology

The environmental screening process for hydro sites was completed, pending Steering Committee evaluation of sites selected for detailed investigation. The Task 6.34 Status Report was commenced.

Subtask 6.35 - Load Management and Conservation

Report on potential for load management and energy conservation was completed. Conceptual approaches for including load management and energy conservation in generation planning were formulated, and possible effects in reducing energy consumption were discussed and taken into account in the load forecasts.

Subtask 6.36 - Generation Planning

Initial system analysis for the with and without Susitna plans for the middle and high load forecasts was done. Three separate arrangements for staging of project components were reviewed. Preliminary findings show that the Susitna alternatives supply a large portion of demand in summer months with other projects needed for the winter. Generally, system costs for the with Susitna alternatives are high compared to the without case for several years, decreasing as a result of fuel savings through five to six years and less expensive for the remaining years of study.

Initial economic analysis showed complete favorability to Susitna; thus, the staging assessment was done using financial parameters.

TASK 7 - ENVIRONMENTAL STUDIES

ACRES ACTIVITIES

Subtask 7.01 - Administration

The final report on "Preliminary Environmental Assessment of Tunnel Alternatives" as prepared by TES was reviewed and incorporated into our overall review of tunnel alternatives.

A meeting was held in early December with TES to discuss Susitna development options. Technical information on these options was submitted to TES who are now in the process of preparing a preliminary environmental review. Discussions continue on the establishment of design criteria with a meeting planned for February to include Dr. Milo Bell.

TES response to the Susitna Hydro Steering Committee's comments were received in late December and are in the process of being reviewed by Acres.

A master list of information needs was received from TES and is presently being reviewed by Acres task supervisors.

Draft environmental sections of the Project Overview Report are being prepared for completion in early January.

Subtask 7.09 - Susitna Transmission Corridor Assessment

A meeting was held with Commonwealth Associates and TES to discuss transmission line studies. Information was exchanged and avenues for future communication established.

Subtask 7.10 - Fish Ecology Studies

Discussions were held with Woody Trihey to clarify his involvement in the instream flow program. Mr. Trihey is in the process of assisting ADF&G develop this program and in establishing an instream flow work plan. Dr. Milo Bell was contacted and requested to supply information on gas bubble decrease/spillway design.

Subtask 7.11 - Wildlife Ecology Studies.

APA was requested to contact government agencies regarding representation on the Wildlife Mitigation Task Force. The first meeting of this Task Force is scheduled for January 30, 1981.

TES ACTIVITIES

Subtask 7.01 - Administration

TES prepared and submitted to Acres on December 23, a comprehensive response to the Steering Committee final comments on Task 7 Procedures Manuals received by TES on December 11.

Subtask 7.05 - Socioeconomic Analysis

Work continued on Work Package 2, Work Items c and d, and on Work Package 4, Work Item d.

Formats and information on the socioeconomic profiles are being assembled prior to development of detailed profiles. Geographic study areas have also been tentatively defined. This will facilitate incorporation of raw census data when it becomes available in the spring, in addition to other information.

A preliminary analysis of the access route alternatives was prepared (under Work Package 3) in accordance with established data procedures.

Subtask 7.06 - Cultural Resource Investigations

Eighty percent of the graphics for the Annual Report have been completed. Draft finals for both the geology and paleontology are also complete. Three radiocarbon dates are still outstanding but should be available within a week. All C¹⁴ dates will be included in the Annual Report. Analysis of artifacts and faunal material has been completed. Site-specific data is presently being prepared for all sites discussed in the report.

Finally, TES staff reviewed the comments of the Steering Committee on the Archeology Procedures Manual and passed these comments along to the U. of A. for their review.

Subtask 7.07 - Land Use Analysis

Work continued on the land use analysis for incorporation in the upcoming Annual Report. The U. of A. prepared a preliminary statement regarding analysis of access route alternatives. Also, TES staff prepared a response to comments by the Steering Committee on the Land Use Procedures Manual.

Subtask 7.08 - Recreation Planning

Work continued on the recreation survey, including a follow-up on the survey and analysis of results. A lower-than-anticipated response to date has necessitated some additional follow-up activity which originally was not planned. The Principal Investigator, by means of statewide television and radio, requested recipients of the survey forms to complete and return them. In addition, notices to this effect were placed in newspapers.

Subtask 7.09 - Transmission Corridor Assessment

On December 1, TES (J. Barnes, B. Root) attended a transmission coordination meeting in Acres' Buffalo office. Also attending the meeting were K. Young and R. Sarofim (Acres) and Michael Barningham of Commonwealth Associates (CA).

Discussed were the plans and schedules of CA with respect to the Intertie Project, progress to date, and requirements for future data exchange. Susitna Project literature collection and review also was undertaken during December.

Subtask 7.10 - Fish Ecology Studies

During the month of December work continued on the Annual Report. The Annual Report will address the areas described in the Procedures Manual: Fish Ecology Impact Assessment and Mitigation Planning. TES will attempt to evaluate the progress made during the past year and define information that must be obtained by December 1981 in order to answer the impact questions posed in the Procedures Manual.

R.W. Williams, as well as several staff members from TES, met with Acres on December 2, 1980 to discuss schemes for power development. A few areas of concern that arose during the meeting were: spillway design to reduce plunging flows, thus reducing the possibility of excessive dissolved oxygen and dissolved nitrogen; maintaining constant flows downstream; and the levels of water intakes. During February we will meet again to continue this discussion.

During December a response to comments by the Steering Committee on the Fish Ecology Procedures Manual was also prepared.

Subtask 7.11 - Wildlife Ecology Studies

The vast majority of all efforts expended under Subtask 7.11 in December concerned the analysis of data and writing of the first Annual Report. The only field work that took place in December was by members of the furbearer group. The Wildlife Ecology Group Leader devoted a considerable effort to preparing a response to the Steering Committee's comments, organizing coordination meetings for January, and reviewing pertinent literature.

Subtask 7.12 - Plant Ecology Studies

Work continued on the vegetation habitat maps as well as on the writing of the first Annual Report. Reproductions of the 1:250,000 scale maps were ordered. To facilitate report writing, TES provided the AAES with an annotated technical content outline.

Additionally, TES notified Acres that maps of the direct impact areas will be prepared at a scale of 1:24,000 instead of 1:25,000 due to an error in scale on the U² aerial photographs.

Subtask 7.14 - Access Roads

TES began to receive input from subcontractors and ADF&G Big Game Investigators with respect to impact issues and environmental concerns of the alternative access routes. As a result, a consolidated list of all concerns and issues is being prepared.

ADF&G - HYDRO AQUATIC STUDIES

ADMINISTRATION/COORDINATION

Review of Tasks Scoped for December 1980

- A. The intradepartmental review of the studies and program needs is continuing. A redraft of the Anadromous Adult Project is continuing and a work draft of the recommended revision of the sonar - fish wheel program was provided in late December. A "discussion" draft is expected in the first two weeks of January. Several other program revision or clarification "pieces" for data processing and anadromous stock separation are also expected in early January.

We need all the recommended revisions for our review before the project leaders and Aquatic Studies Coordinator can identify the deficiencies or recommended changes in our proposed program due to new information or accelerated program needs.

- B. The budget review and accounting procedures set up for the Commercial Fisheries Division has not been projected for completion in December. This has not been done but no problems are expected in completing this task in the next month or two.

FIELD STUDIES

Resident and Juvenile Anadromous Project

The Resident and Juvenile Anadromous project staff continued to sample roadside locations in the Susitna River from Willow Creek to Talkeetna. During field work by three biologists, juvenile coho and chinook salmon, and burbot were captured at a number of sampling sites.

Extreme cold weather and almost total lack of snow made it impossible to travel any distance with snow machines, and therefore limited our efforts to sample at more remote locations.

The Resident and Juvenile Project Leader together with the project leader for the instream flow segment spent two days in the Gold Creek-Devils Canyon area during which time a cabin was rented and logistical support was planned. A second trip was made to the Gold Creek area in late December to set up the rented cabin. Lodging facilities for field staff were also arranged at the Montana Creek Lodge and at the Galberts Camp on Alexander Creek.

Aquatic Habitat and Instream Flow Project

Two days were expended to reconnoiter the Gold Creek and Devils Canyon area with the Resident and Juvenile Studies Project Leader. Efforts are also underway by the 2 project leaders to coordinate their study activities when possible.

In progress is the revised RSA amendment for the aquatic habitat and instream flow studies. Once the services of the instream flow hydraulic engineer becomes available, more detailed study plans for this and related segments of the study can be initiated.

TASK 8 - TRANSMISSION

A draft report of the Project Overview Report was commenced in this period. There were also three figures produced to accompany the report, namely the transmission line preliminary route maps, Anchorage - Cook Inlet and Fairbanks - Tanana Valley existing electrical system single line diagrams. A preliminary copy of the report was issued.

Subtask 8.01 - Transmission Line Corridor Screening

Additional aerial photographs were received together with the land status maps for the intertie corridor.

Work continued on this subtask primarily on gathering additional information from photographs and transferring into U.S.G.S. maps.

Subtask 8.02 - Electric System Studies

Investigation of transmission capabilities and voltage levels for Susitna transmission continued. The main transmission alternatives were defined and single line diagrams of these prepared. Load flow studies for the alternative transmission schemes were started.

Subtask 8.03 - Route Selection

The centerline of the preliminary route between Watana, Devil Canyon and Gold Creek was located on the potential access road maps (1 inch = 2,000 feet).

TASK 10 - LICENSING

Subtask 10.04 - Coordinate Exhibit Preparation

Continue drating and scheduling a final FERC exhibit preparation.

TASK 11 - MARKETING AND FINANCE

Subtask 11.01 - Project Overview Preparation and Update

Work proceeded within Task 11 on the preparation chapters in the Project Overview Report (POR) of Chapter 12 - Analysis of Economic Feasibility and Net Economic Benefits, Chapter 13 - Power and Energy Marketing, Chapter 16 - Financial Analysis and Chapter 17 - Security of Project Capital Structure. Overall editing and coordination of the POR was carried out by staff assigned to Task 11.

Subtask 11.02 - Interim Reports

In coordination with Task 6 the inputs required for financial analysis were determined and then tested as models on the selected fezibl program. Initial test runs were followed by a series model analyses covering various schedules of

capital expenditures, debt arrangements and other financial parameters. Consultation took place with specialist advisors on financial structuring and risk assessment and their inputs were used in the modeling process. Research was undertaken into likely regulatory constraints that could apply to utilities providing Susitna output.

Subtask 11.03 - Alternative Power Source Risk Analysis

During December software products were set up and tested on the Company's Central Facilities and will be now available for processing the Susitna Project Risk Analysis. Inputs were provided to Chapter 9 of the POR.

Subtask 11.05 - Susitna Base Plan Extension and Revision

Preparations made to initiate work on this subtask on the first quarter of 1981. Risk considerations were discussed in the content of the financial analysis during December 1980.

Subtask 11.06 - Susitna Financing Risk Analysis

This task has not yet been funded but with the selection of managing underwriters in mid December 1980. Access is now provided to specialist advice on the matter.

Subtask 11.07 - Resolution of Tax Exempt Bond Issue

In the hours of preparation of Chapter 17 - Security of Project Costs and Revenues Preliminary Consideration has been given to risk sharing arrangements for the project.

Subtask 11.09 - Revenue Assurance Procedures

With the appointment by APA of a managing underwriters group activity under this task began through opening discussions with first southwest to plan for briefing meetings with first Boston Corporation and their associates.

TASK 12 - PUBLIC PARTICIPATION

Continued discussions were held regarding the scheduling of public meetings and workshops for 1981. Responses to questions received as part of the action list program were prepared.

TASK 13 - PROJECT ADMINISTRATION

Subtask 13.04 - Schedule Monitoring

Project schedule was updated to January, 1981 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 November Cost Report was issued after being revised per our November report.

The December report will be issued in early January, 1981.

TASK 14 - ADF&G SUPPORT

ACRES ACTIVITIES

Acres continued to handle purchasing requirements for ADF&G. Equipment for both field and office for the month required an expenditure of approximately \$22,600.00

WORK COMPLETED:
TO JANUARY 5, 1981

ACRES AMERICAN SUSITNA HYDRO-ELECTRIC PROJECT

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TIME NOW: XJMASI

CPM ANALYSIS LISTING

I-NODE	J-NODE	DUR	SELECT CODES	DESCRIPTION		E.S.	E.F.	L.S.	L.F.	T.F.	F.F.	CL
10000	10500	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	OPA C3	2021	FIELD CAMP SET-UP	ST						COMPLETE
20300	20400	0 C	OPA C2	2021	FIELD CAMP SET-UP	FIN						COMPLETE
20800	21000	0 C	OPA C2	203	RIGHT OF ENTRY	ST						COMPLETE
23000	23200	0 C	OPA C3	2081	AIR PHOTOS & MAPPING-1980	ST						COMPLETE
23600	23800	0 C	OPA C3	209	CONTROL NETWORK SURVEYS							COMPLETE
24400	24600	0 C	OPA C3	216	HYDROGRAPHIC SURVEYS	ST						COMPLETE
32600	32800	0 C	OPR 1 C4	301	REVIEW AVAILABLE MATERIAL	ST						COMPLETE
36200	36400	0 C	OPB 1 C4	3021	FIELD DATA INDEX-SETUP	ST						COMPLETE
36400	36500	0 C	OPR 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	HYDRRLS&ICE-CHANNEL WTR LVLS	ST						COMPLETE
38000	38200	0 C	OPB 1 C4	3081	TRANSMSN LINE-PRLM PARAMTR							COMPLETE
43100	43200	0 C	OPR 1 C1	401	REVIEW AVAILABLE DATA	ST						COMPLETE
43200	43400	0 C	OPR 1 C1	401	REVIEW AVAILABLE DATA	C1-1						COMPLETE
43400	41200	0 C	OPB 1 C1	401	REVIEW AVAILABLE DATA	FIN						COMPLETE
44000	44200	0 C	OPA C4	402	SHORT TERM MONITORNG PROGRAM	ST						COMPLETE
44200	41200	0 C	OPA C4	402	SHORT TERM MONITORNG PROGRAM	FIN						COMPLETE
40000	40200	0 C	OPB 1 C1	403	PRELIM RESERVVR INDUCD SEISMIC							COMPLETE
40300	40600	0 C	OPB 1 C1	404	REMOTE SENSING IMAG ANALYSIS	ST						COMPLETE
40500	40800	0 C	OPB 1 C1	404	REMOTE SENSING IMAG ANALYSIS	CT-1						COMPLETE
40800	42000	0 C	OPE 1 C1	404	REMOTE SENSING IMAG ANALYSIS	FIN						COMPLETE
42200	42400	0 C	OPA C4	405	SEISMIC GEOLOGIC RECONASANCE							COMPLETE
41000	41200	0 C	OPR 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
50200	51500	0 C	OPB 1 C1	503	1980 PROGRAM DESIGN							COMPLETE
51000	51300	0 C	OPA C4	504	1980 EXPLORATION PROGRAM							COMPLETE
62500	625A0	0 C	OPB 1 C4	601	REVIEW PREVIOUS STUDIES	ST						COMPLETE
625A0	62500	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
626A0	62700	0 C	OPB 1 C4	603	EVAL ALT SUSITNA DEVELOPMENT	CT-1						COMPLETE
62700	627A0	0 C	OPR 1 C4	603	EVAL ALT SUSITNA DEVELOPMENT	CT-2						COMPLETE
627A0	62800	0 C	OPB 1 C4	603	EVAL ALT SUSITNA DEVELOPMENT	CT-3						COMPLETE
62900	62900	0 C	OPB 1 C4	603	EVAL ALT SUSITNA DEVELOPMENT	FIN						COMPLETE
68100	68200	0 C	OPB 1 C6	604	DEVL CAN ARCH DAM EVALUATION	ST						COMPLETE
68200	68300	0 C	OPR 1 C5	604	DEVL CAN ARCH DAM EVALUATION	FIN						COMPLETE
65900	65960	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
63100	631A0	0 C	OPB 1 C5	607	PRELIM WATANA DAM ALTERNATES	CT-1						COMPLETE
64400	64500	0 C	OPB 1 C6	608	PRELIM DEVIL CANYON DAM ALT	ST						COMPLETE
64500	64500	0 C	OPB 1 C5	608	PRELIM DEVIL CANYON DAM ALT	CT-1						COMPLETE

16-JAN-81 14:57:59
ACRES CPM SYSTEM

ACRES AMERICAN SUSITNA HYDRO-ELECTRIC PROJECT

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TIME NOW: 16 JAN 81

REF01

CPM ANALYSIS LISTING

I-NODE	J-NODE	DUR	SELECT CODES	DESCRIPTION	E.S.	E.F.	L.S.	L.F.	T.F.	F.F.	CL
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
6A700	6A800	0 C	OPB 1 C2	632 THERMAL GENERATION RESOURCE	FIN						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	6351 GENERATION PLAN PARAMETERS							COMPLETE
6D300	6D3A0	0 C	OPB 1 C2	6362 GENERAT PLAN ANALY & REPORT	ST						COMPLETE
6D3A0	6D400	0 C	OPB 1 C2	6362 GENERAT PLAN ANALY & REPORT	CT-1						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
79200	79300	0 C	OPB 1 C8	702 MONITOR FIELD ACTIVITIES	ST						COMPLETE
80000	80200	0 C	OPB 1 C3	801 SELECT INITIAL CORRIDORS	ST						COMPLETE
A2000	A1600	0 C	FLC	C110 ESTABLISH REGULATORY REQUIRE							COMPLETE
C0000	C0200	0 C	OPB 1	C810 10021 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 SCHEULE-DEV							COMPLETE
D1600	D0500	0 C	PSB 2	C410 1307 DEVELOP ACCOUNTING FOLICIES							COMPLETE
D1800	D1900	0 C	PSB 2	C310 1308 DOCUMENTATION CONTROL							COMPLETE

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I-NODE	J-NODE	DUR	SELECT CODES	DESCRIPTION		E.S.	E.F.	L.S.	L.F.	T.F.	F.F.	CL	
11800	11900	4 R	OPB 1 C2	108	TERMINATION REPORT	5JAN81	30JAN81	12JAN81	6FEB81	1	73	1	
20400	20000	76 R	OPA C2	2022	FIELD CAMP OPERATIONS	5JAN81	18JUN82	12JAN81	25JUN82	1	1	1	
20400	20500	76 R	OPA C2	203	RESUPPLY & EMERGENCY SERVICE	5JAN81	18JUN82	12JAN81	25JUN82	1	1	1	
21200	21500	3 R	OPA C2	204	LAND STATUS RESEARCH	5JAN81	23JAN81	9NOV81	27NOV81	44	0	1	
215A0	21580	0 R	OPA 1 C3	204XX	EXHIBIT F MATERIAL COMPLETE	26JAN81	23JAN81	30NOV81	27NOV81	44	43	1	
21300	22000	5 R	OPA C2	205	LAND AQUISITION ANALYSIS	23FEB81	27MAR81	24MAY82	25JUN82	65	65	1	
21000	21100	25 R	OPA C2	206	RIGHT OF ENTRY	FIN	5JAN81	26JUN81	4JAN82	25JUN82	52	52	1
25000	25200	3 R	OPA C3	207	SITE SPECIFIC SURVEYS	ST	5JAN81	23JAN81	19JAN81	6FEB81	2	0	1
25200	25400	4 R	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	5JAN81	23JAN81	18MAR81	3APR81	10	2	1
24000	24200	10 R	OPA C3	2082	AIR PHOTOS & MAPPING-1981	ST	12JAN81	20MAR81	24AUG81	30OCT81	32	11	1
22200	22400	5 R	OPA C3	210	ACCESS ROAD	CT-1	5JAN81	6FEB81	15JUN81	17JUL81	23	0	1
22400	22600	2 R	OPA C3	210	ACCESS ROAD	FIN	18MAY81	24JUL81	28SEP81	4DEC81	31	12	1
22600	22800	10 R	OPA C3	210	ACCESS ROAD	FIN	5JAN81	20MAR81	5JAN81	20MAR81	19	0	1
25500	26500	11 R	OPA C3	211	MAP & PHOTO SEARCH	ST	5JAN81	20MAR81	5JAN81	20MAR81	0	0	1
26400	26600	3 R	OPA C4	212	FIELD RECON FOR RSRVR CLEAR	ST	5JAN81	23JAN81	2MAR81	20MAR81	8	8	1
26600	26800	6 R	OPA C4	212	FIELD RECON FOR RSRVR CLEAR	FIN	23MAR81	1MAY81	23MAR81	1MAY81	0	0	1
27600	27200	5 R	OPA C3	213	MRKTABILITY AND DISPOSAL STDY	ST	5JAN81	6FEB81	21DEC81	22JAN82	50	12	1
27000	27200	2 R	OPA C3	214	CST ESTMTS RSRVR CLEARING	ST	5JAN81	16JAN81	11JAN82	22JAN82	53	15	1
27200	27400	3 R	OPA C3	214	CST ESTMTS RSRVR CLEARING	FIN	4MAY81	22MAY81	25JAN82	12FEB82	38	18	1
25800	26000	4 R	OPA C4	215	SLOPE EROSION & STBLTY STUDY	ST	5JAN81	30JAN81	6APR81	1MAY81	13	13	1
26000	26200	4 R	OPA C4	215	SLOPE EROSION & STBLTY STUDY	FIN	4MAY81	29MAY81	4MAY81	29MAY81	0	0	1
24600	24800	7 R	OPA C3	216	HYDROGRAPHIC SURVEYS	FIN	5JAN81	20FEB81	19JAN81	6MAR81	2	2	1
32800	33000	4 R	OPB 1 C4	301	REVIEW AVAILABLE MATERIAL	FIN	5JAN81	30JAN81	16FEB81	13MAR81	6	6	1
36600	36800	57 R	OPB 1 C4	3022	FIELD DATA INDEX OPERATION	FIN	5JAN81	5FEB82	16FEB81	19MAR82	6	6	1
37500	37300	10 R	OPB 1 C4	3032	FIELD DATA COLLECTION 80-81	FIN	5JAN81	13MAR81	5JAN81	13MAR81	0	0	1
37600	37700	30 R	OPB 1 C4	3033	FIELD DATA COLLECTION 81-82	ST	16MAR81	9OCT81	23MAR81	16OCT81	1	0	1
37700	37800	22 R	OPB 1 C4	3033	FIELD DATA COLLECTION 81-82	FIN	12OCT81	12MAR82	19OCT81	19MAR82	1	1	1
33200	33300	4 R	OPB 1 C4	3041	WATER RSRCS-FLOW EXTENSION	FIN	5JAN81	30JAN81	23MAR81	17APR81	11	0	1
33300	34600	4 R	OPB 1 C4	3042	WATER RSRCS-FREQ ANALYSIS	FIN	2FEB81	27FEB81	19OCT81	13NOV81	37	36	1
34400	344A0	14 R	OPB 1 C4	3043	WATER RSRCS-RESERVOIR STUDY	CT-1	5JAN81	10APR81	12JAN81	17APR81	1	0	1
344A0	34500	6 R	OPB 1 C4	3043	WATER RSRCS-RESERVOIR STUDY	CT-2	13APR81	22MAY81	20APR81	29MAY81	1	0	1
34500	34600	24 R	OPB 1 C4	3043	WATER RSRCS-RESERVOIR STUDY	CT-3	25MAY81	6NOV81	1JUN81	13NOV81	1	0	1
34500	34800	8 R	OPB 1 C4	3043	WATER RSRCS-RESERVOIR STUDY	FIN	9NOV81	1JAN82	16NOV81	8JAN82	1	0	1
35000	35200	4 R	OPB 1 C4	3044	WATER RSRCS-FRE&POST PROJECT	ST	9NOV81	4DEC81	14DEC81	8JAN82	5	4	1
35200	35400	4 R	OPB 1 C4	3044	WATER RSRCS-FRE&POST PROJECT	FIN	4JAN82	29JAN82	11JAN82	5FEB82	1	0	1
39300	39800	63 R	OPB 1 C4	3045	WATER RSRCS-GLACIAL STUDIES	ST	5JAN81	19MAR82	5JAN81	19MAR82	0	0	1
35400	354A0	0 R	OPB 1 C4	304XX	EXHIBIT H MATERIAL COMPLETE	1FEB82	29JAN82	19APR82	16APR82	11	11	1	
35400	354B0	0 R	OPB 1 C4	304XX	EXHIBIT I MATERIAL COMPLETE	1FEB82	29JAN82	19APR82	16APR82	11	11	1	
32700	32900	2 R	OPB 1 C4	3051	FLOODS-FREQUENCY ANALYSIS	5JAN81	16JAN81	13APR81	24APR81	14	13	1	
32800	32400	3 R	OPB 1 C4	3052	FLOODS PMF REVIEW	5JAN81	13FEB81	16MAR81	24APR81	10	9	1	
31800	32000	10 R	OPB 1 C4	3053	FLOODS-RESERVOIR ROUTING	CT-1	2FEB81	10APR81	19OCT81	25DEC81	37	24	1
32000	32200	5 R	OPB 1 C4	3053	FLOODS-RESERVOIR ROUTING	FIN	28SEP81	30OCT81	28DEC81	29JAN82	13	13	1
30200	30400	9 R	OPB 1 C4	3061	HYDRLS&ICE-CHANNEL WTR LVLS	CT-1	5JAN81	6MAR81	5JAN81	6MAR81	0	0	1
30400	30600	47 R	OPB 1 C4	3061	HYDRLS&ICE-CHANNEL WTR LVLS	FIN	9MAR81	29JAN82	9MAR81	29JAN82	0	0	1
39400	39500	6 R	OPB 1 C4	3062	HYDR&ICE RSRVR FREERBD	2FEB81	13MAR81	13MAR81	24APR81	5	5	1	
38800	39000	7 R	OPB 1 C4	3063	HYDR&ICE-RESER SLIDE SURGE	ST	5JAN81	20FEB81	12JAN81	27FEB81	1	0	1
39000	39100	8 R	OPB 1 C4	3063	HYDR&ICE-RESER SLIDE SURGE	FIN	23FEB81	17APR81	2MAR81	24APR81	1	0	1
39200	39300	8 R	OPB 1 C4	3064	HYDR&ICE-RSRV TEMP REGIME	2FEB81	27MAR81	2MAR81	24APR81	4	3	1	
35500	35800	4 R	OPB 1 C4	3071	SEDIMENT YIELD & DEPOSITION	ST	5JAN81	30JAN81	4MAY81	29MAY81	17	0	1
35800	36000	5 R	OPB 1 C4	3071	SEDIMENT YIELD & DEPOSITION	FIN	2FEB81	13MAR81	30NOV81	8JAN82	43	12	1

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33400	33600	12	OPB 1 C4	3072 RIVER MORPHOLOGY	ST	16MAR81	5JUN81	19OCT81	8JAN82	31	0	1
33600	33800	4	OPB 1 C4	3072 RIVER MORPHOLOGY	CT-1	8JUN81	3JUL81	11JAN82	5FEB82	31	30	1
33800	34000	4	OPB 1 C4	3072 RIVER MORPHOLOGY	FIN	1FEB82	26FEB82	8FEB82	5MAR82	1	1	1
38200	38400	6	OPB 1 C4	3082 TRANSMSN LINE-DET PARAMTR	ST	5JAN81	13FEB81	2FEB81	13MAR81	4	4	1
38400	38600	4	OPB 1 C4	3082 TRANSMSN LINE-DET PARAMTR	FIN	16MAR81	10APR81	16MAR81	10APR81	0	0	1
31100	31300	30	OPB 1 C4	309 ACCESS ROADS HYDROLOGY	9FEB81	4SEP81	20JUL81	12FEB82	23	23	1	
30800	31000	1 R	OPB 1 C4	3101 LWR SUSITNA STUDIES-PRELIM	ST	5JAN81	9JAN81	5JAN81	9JAN81	0	0	1
31000	31200	8	OPB 1 C4	3101 LWR SUSITNA STUDIES-PRELIM	FIN	12JAN81	6MAR81	12JAN81	6MAR81	0	0	1
31200	31400	47	OPB 1 C4	3102 LWR SUSITNA STUDIES-FOLLOWUP	9MAR81	29JAN82	9MAR81	29JAN82	0	0	1	
41200	41400	2 R	OPB 1 C1	406 FRELIM EVALUATN&REPORT-DRAFT	FIN	5JAN81	16JAN81	5JAN81	16JAN81	0	0	1
44200	45000	3 R	OPB 1 C1	407 FRELIM GROUND MOTION STUDIES	5JAN81	23JAN81	5JAN81	23JAN81	0	0	1	
45900	46000	23	OPB 1 C1	408 DAM STABILITY	CT-1	26JAN81	3JUL81	26JAN81	3JUL81	0	0	1
46000	46200	6	OPB 1 C1	408 DAM STABILITY	FIN	6JUL81	14AUG81	17MAY82	25JUN82	45	45	1
42800	43000	31	OPA 1 C4	409 LONG TERM MONITORING PROGRAM		13JUL81	12FEB82	23NOV81	25JUN82	19	19	1
40200	41800	9	OPB 1 C1	410 RESERVOIR INDUCED SEISMICITY		5JAN81	6MAR81	7SEP81	6NOV81	35	35	1
42400	42500	27 R	OPA 1 C4	411 SEISMIC GEOLOGY-FIELD STUDY		5JAN81	10JUL81	19JAN81	24JUL81	2	0	1
41400	41600	40	OPB 1 C1	412 EVALUATION & REPORT DRAFT	ST	19JAN81	23OCT81	19JAN81	23OCT81	0	0	1
41600	41800	2	OPB 1 C1	412 EVALUATION & REPORT DRAFT	CT-1	26OCT81	6NOV81	23OCT81	6NOV81	0	0	1
41800	42000	4	OPB 1 C1	412 EVALUATION & REPORT DRAFT	FIN	9NOV81	4DEC81	9NOV81	4DEC81	0	0	1
44400	44600	15	OPB 1 C1	413 GROUND MOTION STUDIES	ST	26JAN81	8MAY81	13AFR81	24JUL81	11	9	1
44600	41800	15	OPB 1 C1	413 GROUND MOTION STUDIES	FIN	13JUL81	23OCT81	27JUL81	6NOV81	2	2	1
45600	41800	36	OPB 1 C1	414 DAM STABILITY CONSULTING		5JAN81	11SEP81	2MAR81	6NOV81	8	8	1
45200	45400	22	OPB 1 C1	415 SOIL SUSCEPTITY-SEISMIC FAIL		26JAN81	26JUN81	6JUL81	4DEC81	23	4	1
51200	51600	2 R	OPB 1 C1	502 AIR PHOTO INTERPRETATION	FIN	5JAN81	16JAN81	13APR81	24APR81	14	0	1
52000	52200	3 R	OPB 1 C1	505 1981 PROGRAM DESIGN	ST	5JAN81	23JAN81	16MAR81	3APR81	10	0	1
52200	52500	2	OPB 1 C1	505 1981 PROGRAM DESIGN	FIN	26JAN81	6FEB81	6APR81	17APR81	10	7	1
52400	52500	12	OPA 1 C4	506 1981 EXPLORATION PROGRAM	ST	5JAN81	27MAR81	26JAN81	17AFR81	3	0	1
52500	52700	20	OPA 1 C4	506 1981 EXPLORATION PROGRAM	FIN	30MAR81	14AUG81	20AFR81	4SEP81	3	0	1
53800	54000	9	OPB 1 C1	507 1982-4 PRGRAM DESIGN		6JUL81	4SEP81	18JAN82	19MAR82	28	28	1
51400	51600	2 R	OPB 1 C1	5081 DATA ASSEMBLY-1980-DRAFT	ST	5JAN81	16JAN81	13APR81	24APR81	14	0	1
51600	51800	1	OPB 1 C1	5081 DATA ASSEMBLY-1980-DRAFT	FIN	19JAN81	23JAN81	27AFR81	1MAY81	14	0	1
52800	53000	3	OPB 1 C1	5082 DATA ASSEMBLY-1981-DRAFT	ST	5JAN81	23JAN81	3AUG81	21AUG81	30	0	1
53000	53200	2	OPB 1 C1	5082 DATA ASSEMBLY-1981-DRAFT	FIN	26JAN81	6FEB81	24AUG81	4SEP81	30	27	1
53400	53600	7	OPB 1 C1	5083 DATA ASSEMBLY FINAL-DRAFT		17AUG81	20CT81	1MAR82	16AFR82	28	28	1
54300	62700	4 R	OPB 1 C4	602 INVESTIGATE TUNL ALTERNATVS		5JAN81	30JAN81	26JAN81	20FEB81	3	0	1
66900	669A0	7 R	OPB 1 C4	6051 SELECT REPORT DRAFT		5JAN81	20FEB81	5JAN81	20FEB81	0	0	1
669A0	67000	3	OPB 1 C4	6052 SELECT FINAL REPORT	ST	23FEB81	13MAR81	23FEB81	13MAR81	0	0	1
67000	57100	1	OPB 1 C4	6052 SELECT FINAL REPORT	CT-1	16MAR81	20MAR81	16MAR81	20MAR81	0	0	1
67100	67200	2	OPB 1 C4	6052 SELECT FINAL REPORT	FIN	23MAR81	3APR81	23MAR81	3APR81	0	0	1
659A0	659B0	1 R	OPB 1 C4	606 STAGED DEVELOPMENT ALTS	CT-1	5JAN81	9JAN81	16FEB81	20FEB81	6	0	1
659B0	66000	3	OPB 1 C4	606 STAGED DEVELOPMENT ALTS	FIN	12JAN81	30JAN81	2MAR81	20MAR81	7	7	1
631A0	63200	8 R	OPB 1 C5	607 PRELIM WATANA DAM ALTERNATES	CT-2	23FEB81	17APR81	4MAY81	26JUN81	10	0	1
63200	63300	1	OPB 1 C5	607 PRELIM WATANA DAM ALTERNATES	CT-3	20AFR81	24AFR81	29JUN81	3JUL81	10	10	1
63300	633A0	0	OPB 1 C5	607 PRELIM WATANA DAM ALTERNATES	FIN	6JUL81	3JUL81	6JUL81	3JUL81	0	0	1
64600	64700	9 R	OPB 1 C6	608 PRELIM DEVIL CANYON DAM ALT	CT-2	23FEB81	24AFR81	4MAY81	3JUL81	10	10	1
64700	64800	0	OPB 1 C6	608 PRELIM DEVIL CANYON DAM ALT	FIN	6JUL81	3JUL81	6JUL81	3JUL81	0	0	1
69100	69200	1	OPB 1 C4	609 ESTAB WATANA DESIGN CRITERIA	ST	5JAN81	9JAN81	25MAY81	29MAY81	20	3	1
69200	69300	7	OPB 1 C4	609 ESTAB WATANA DESIGN CRITERIA	CT-1	2FEB81	20MAR81	1JUN81	17JUL81	17	15	1
69300	69400	7	OPB 1 C4	609 ESTAB WATANA DESIGN CRITERIA	CT-2	6JUL81	21AUG81	20JUL81	4SEP81	2	0	1
69400	69500	1	OPB 1 C4	609 ESTAB WATANA DESIGN CRITERIA	FIN	24AUG81	28AUG81	7SEP81	11SEP81	2	0	1
63400	63500	1	OPB 1 C4	610 ESTAB DEVIL CANYN DESGN CRIT	ST	5JAN81	9JAN81	1JUN81	5JUN81	21	2	1

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63500	63600	7	OPB 1 C4	610 ESTAB DEVIL CANYN DESIGN CRIT	CT-1 26JAN81	13MAR81	8JUN81	24JUL81	19	16	1
63600	63700	7	OPB 1 C4	610 ESTAB DEVIL CANYN DESIGN CRIT	CT-2 6JUL81	21AUG81	27JUL81	11SEP81	3	0	1
63700	63800	1	OPB 1 C4	610 ESTAB DEVIL CANYN DESIGN CRIT	FIN 24AUG81	28AUG81	14SEP81	18SEP81	3	0	1
66200	66300	11	OPB 1 C5	611 PRELIM DESIGN WATANA DAM	ST 6JUL81	18SEP81	6JUL81	18SEP81	0	0	1
66300	66400	11	OPB 1 C5	611 PRELIM DESIGN WATANA DAM	CT-1 21SEP81	4DEC81	21SEP81	4DEC81	0	0	1
66400	66500	4	OPB 1 C5	611 PRELIM DESIGN WATANA DAM	FIN 7DEC81	1JAN82	7DEC81	1JAN82	0	0	1
65200	65300	11	OPB 1 C6	612 PREL DESIGN DEVIL CANYON DAM	ST 6JUL81	18SEP81	6JUL81	18SEP81	0	0	1
65300	65400	11	OPB 1 C6	612 PREL DESIGN DEVIL CANYON DAM	CT-1 21SEP81	4DEC81	21SEP81	4DEC81	0	0	1
65400	65500	4	OPB 1 C6	612 PREL DESIGN DEVIL CANYON DAM	FIN 7DEC81	1JAN82	7DEC81	1JAN82	0	0	1
69800	69900	11	OPB 1 C4	613 DAM SELECTION REPORT-DRAFT	ST 6JUL81	18SEP81	19OCT81	1JAN82	15	15	1
69900	68500	5	OPB 1 C4	613 DAM SELECTION REPORT-DRAFT	FIN 4JAN82	5FEB82	4JAN82	5FEB82	0	0	1
61100	61200	3	OPB 1 C4	614 SPILLWAY DESIGN CRITERIA	ST 2FEB81	20FEB81	6APR81	24APR81	9	8	1
61200	61300	8	OPB 1 C4	614 SPILLWAY DESIGN CRITERIA	FIN 20APR81	12JUN81	27APR81	19JUN81	1	0	1
61300	60600	6	OPB 1 C5	615 WATANA SPILLWAY ALTERNATIVES	ST 15JUN81	24JUL81	22JUN81	31JUL81	1	0	1
60600	60700	10	OPB 1 C5	615 WATANA SPILLWAY ALTERNATIVES	FIN 27JUL81	20CT81	3AUG81	9OCT81	1	0	1
61300	61400	3	OPB 1 C6	616 DEV'L CAN SPILLWAY ALTERNATIVE	ST 15JUN81	3JUL81	29JUN81	17JUL81	2	0	1
61400	61500	8	OPB 1 C6	616 DEV'L CAN SPILLWAY ALTERNATIVE	FIN 6JUL81	28AUG81	20JUL81	11SEP81	2	0	1
621A0	62200	4	OPB 1 C5	617 PRELIM DESGN WATANA SPILLWAY	ST 5JAN81	30JAN81	14SEP81	9OCT81	36	35	1
62200	62300	4	OPB 1 C5	617 PRELIM DESGN WATANA SPILLWAY	CT-1 5OCT81	300CT81	120CT81	3NOV81	1	0	1
62300	62400	13	OPB 1 C5	617 PRELIM DESGN WATANA SPILLWAY	FIN 2NOV81	29JAN82	9NOV81	5FEB82	1	0	1
61500	61600	6	OPB 1 C6	618 PRELIM DES DEVIL CAN SPILWAY	ST 31AUG81	9OCT81	14SEP81	23OCT81	2	0	1
61600	61700	15	OPB 1 C6	618 PRELIM DES DEVIL CAN SPILWAY	FIN 12OCT81	22JAN82	26OCT81	5FEB82	2	1	1
64900	65000	6	OPB 1 C4	619 SPILLWAY SELECTIN REPR-T-DRAFT	ST 5OCT81	13NOV81	28DEC81	5FEB82	12	11	1
65000	65100	5	OPB 1 C4	619 SPILLWAY SELECTIN REPR-T-DRAFT	FIN 1FEB82	5MAR82	8FEB82	12MAR82	1	1	1
6A000	6A100	3	OPB 1 C5	620 ACCESS & CAMP FACILITIES	ST 5JAN81	23JAN81	16NOV81	4DEC81	45	26	1
6A100	6A200	8	OPB 1 C5	620 ACCESS & CAMP FACILITIES	FIN 27JUL81	18SEP81	7DEC81	29JAN82	19	0	1
60000	60100	6	OPB 1 C5	621 WATANA DIVERSION SCHEMES	ST 5JAN81	13FEB81	7SEP81	16OCT81	35	33	1
60100	60200	10	OPB 1 C5	621 WATANA DIVERSION SCHEMES	FIN 5OCT81	11DEC81	19OCT81	25DEC81	2	0	1
67300	67400	11	OPB 1 C6	622 DEVIL CANYON DIVERSN SCHEMES	ST 5JAN81	20MAR81	12OCT81	25DEC81	40	23	1
67400	67500	0	OPB 1 C6	622 DEVIL CANYON DIVERSN SCHEMES	FIN 31AUG81	28AUG81	28DEC81	25DEC81	17	0	1
61800	61900	5	OPB 1 C4	623 OPT WATANA POWER DEVELOPMENT	ST 6JUL81	14AUG81	3AUG81	11SEP81	4	0	1
61900	62000	10	OPB 1 C4	623 OPT WATANA POWER DEVELOPMENT	CT-1 17AUG81	23OCT81	14SEP81	20NOV81	4	0	1
62000	62100	5	OPB 1 C4	623 OPT WATANA POWER DEVELOPMENT	FIN 26OCT81	27NOV81	23NOV81	25DEC81	4	0	1
65600	65700	6	OPB 1 C4	624 OPT DEV'L CANYN POWER DEVELOP	ST 17AUG81	25SEP81	12OCT81	20NOV81	8	0	1
65700	65800	5	OPB 1 C4	624 OPT DEV'L CANYN POWER DEVELOP	FIN 28SEP81	300CT81	23NOV81	25DEC81	8	4	1
63900	64000	6	OPB 1 C4	625 OPTIMIZE DAM HEIGHTS	ST 5JAN81	13FEB81	16NOV81	25DEC81	45	41	1
64000	64100	5	OPB 1 C4	625 OPTIMIZE DAM HEIGHTS	CT-1 30NOV81	1JAN82	28DEC81	29JAN82	4	4	1
64100	64200	0	OPB 1 C4	625 OPTIMIZE DAM HEIGHTS	FIN 1FEB82	29JAN82	1FEB82	29JAN82	0	0	1
69500	69600	16	OPB 1 C5	626 PREL DESGN WATAN POWER DEVEL	ST 31AUG81	18DEC81	14SEP81	1JAN82	2	0	1
69600	69700	5	OPB 1 C5	626 PREL DESGN WATAN POWER DEVEL	FIN 21DEC81	22JAN82	4JAN82	5FEB82	2	1	1
66300	66700	15	OPB 1 C6	627 PREL DES DEV'L CAN POWR DEVEL	ST 31AUG81	11DEC81	21SEP81	1JAN82	3	0	1
66700	63800	5	OPB 1 C6	627 PREL DES DEV'L CAN POWR DEVEL	FIN 14DEC81	15JAN82	4JAN82	5FEB82	3	2	1
67600	67700	5	OPB 1 C4	628 POWER DEVELOPMNT REPR-T-DRAFT	ST 31AUG81	20CT81	28DEC81	29JAN82	17	17	1
67700	67800	1	OPB 1 C4	628 POWER DEVELOPMNT REPR-T-DRAFT	CT-1 1FEB82	5FEB82	1FEB82	5FEB82	0	0	1
67800	67900	1	OPB 1 C4	628 POWER DEVELOPMNT REPR-T-DRAFT	CT-2 8FEB82	12FEB82	8FEB82	12FEB82	0	0	1
67900	68000	4	OPB 1 C4	628 POWER DEVELOPMNT REPR-T-DRAFT	FIN 15FEB82	12MAR82	15FEB82	12MAR82	0	0	1
60300	60400	6	OPB 1 C5	629 WATANA GENERAL ARRANGEMENT	ST 14DEC81	22JAN82	28DEC81	5FEB82	2	1	1
60400	60500	5	OPB 1 C5	629 WATANA GENERAL ARRANGEMENT	FIN 1FEB82	5MAR82	8FEB82	12MAR82	1	0	1
60500	605A0	0	OPB 1 C5	629XX EXHIBIT J MATERIAL COMPLETE	8MAR82	5MAR82	19APR82	16APR82	6	6	1
60800	60900	3	OPB 1 C6	630 DEV'L CAN GENERAL ARRANGEMENT	ST 31AUG81	9OCT81	28DEC81	5FEB82	17	16	1
60900	61000	5	OPB 1 C6	630 DEV'L CAN GENERAL ARRANGEMENT	FIN 1FEB82	5MAR82	8FEB82	12MAR82	1	0	1

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61000	610A0	0	OPB 1 C5	630XX EXHIBIT K MATERIAL COMPLETE	8MAR82	5MAR82	15MAR82	12MAR82	1	1	1
68000	680A0	0	OPB 1 C4	630XX EXHIBIT M MATERIAL COMPLETE	15MAR82	12MAR82	19APR82	16APR82	5	5	1
68400	68500	1	OPB 1 C4	631 PROJECT FEASIBL REPORT-DRAFT ST	21SEP81	25SEP81	1FEB82	5FEB82	19	19	1
68500	68600	4	OPB 1 C4	631 PROJECT FEASIBL REPORT-DRAFT CT-1	8FEB82	5MAR82	8FEB82	5MAR82	0	0	1
68600	68700	1	OPB 1 C4	631 PROJECT FEASIBL REPORT-DRAFT CT-2	8MAR82	12MAR82	8MAR82	12MAR82	0	0	1
68700	68800	1	OPB 1 C4	631 PROJECT FEASIBL REPORT-DRAFT CT-3	15MAR82	19MAR82	15MAR82	19MAR82	0	0	1
68800	68900	4	OPB 1 C4	631 PROJECT FEASIBL REPORT-DRAFT CT-4	22MAR82	16APR82	22MAR82	16APR82	0	0	1
68900	69000	0	OPB 1 C4	631 PROJECT FEASIBL REPORT-DRAFT FIN	19APR82	16APR82	19APR82	16APR82	0	0	1
69000	690A0	0	OPB 1 C4	631XX EXHIBIT L MATERIAL COMPLETE	19APR82	16APR82	19APR82	16APR82	0	0	1
6C600	6C700	4	OPB 1 C8	6342 ENVIRONMENT ASSESSMENT-FINAL	5JAN81	30JAN81	26JAN81	20FEB81	3	3	1
6C800	6C900	1 R	OPB 1 C2	635 LOAD, MANAGE & CONSERVE	5JAN81	9JAN81	16FEB81	20FEB81	6	6	1
6D400	6D500	4 R	OPB 1 C2	6362 GENERAT PLAN ANALY & REPORT CT-2	5JAN81	30JAN81	5JAN81	30JAN81	0	0	1
6D500	6D600	3	OPB 1 C2	6362 GENERAT PLAN ANALY & REPORT FIN	2FEB81	20FEB81	2FEB81	20FEB81	0	0	1
6C100	6C200	9	OPB 1 C2	637 UPDATE GENERATION PLAN	5JAN81	6MAR81	1MAR82	30APR82	60	68	1
68800	68900	76 R	OPB 1 C2	638 LIAISON POWER AL TS CONSULTANT	5JAN81	18JUN82	12JAN81	25JUN82	1	1	1
71200	71400	3 R	OPB 1 C8	701 STUDY COORD-ALTERNATIVE SITE CT-2	5JAN81	23JAN81	5JAN81	23JAN81	0	0	1
71400	71600	0	OPB 1 C8	7011 STUDY COORD-ALTERNATIVE SITE FIN	26JAN81	23JAN81	26JAN81	23JAN81	0	0	1
71600	71800	18	OPB 1 C8	7012 STUDY COORD-PRELIM ALTERNATV ST	26JAN81	29MAY81	26JAN81	29MAY81	0	0	1
71800	72000	0	OPB 1 C8	7012 STUDY COORD-PRELIM ALTERNATV FIN	1JUN81	29MAY81	1JUN81	29MAY81	0	0	1
72000	72200	35	OPB 1 C8	7013 STUDY COORD-OPTIMIZED DESIGN	1JUN81	29JAN82	1JUN81	29JAN82	0	0	1
79300	79400	68 R	OPB 1 C8	702 MONITOR FIELD ACTIVITIES	CT-1 5JAN81	23APR82	9MAR81	25JUN82	9	9	1
79400	79500	0	OPB 1 C8	702 MONITOR FIELD ACTIVITIES	FIN 26APR82	23APR82	28JUN82	25JUN82	9	9	1
71000	71100	1 R	OPB 1 C8	7041 WATER RESOURCE ALT SITES	5JAN81	9JAN81	19JAN81	23JAN81	2	2	1
71600	70000	17	OPB 1 C8	7042 WTR RES-PRE WAT&DEVL CAN ALT	26JAN81	22MAY81	2FEB81	29MAY81	1	1	1
72000	70600	34	OPB 1 C8	7043 WTR RES-OPT WAT&DEVL CAN DES	1JUN81	22JAN82	8JUN81	29JAN82	1	1	1
73000	73200	60 R	OPB 1 C8	705 SOCIOECONOMIC ANALYSIS	ST 5JAN81	26FEB82	12JAN81	5MAR82	1	1	1
73200	73400	0	OPB 1 C8	705 SOCIOECONOMIC ANALYSIS	FIN 8MAR82	5MAR82	8MAR82	5MAR82	0	0	1
78600	78700	35 R	OPB 1 C8	7061 CULTURAL-ALTERNATIVE SITES	ST 5JAN81	4SEP81	19JAN81	18SEP81	2	0	1
78700	79000	0	OPB 1 C8	7061 CULTURAL-ALTERNATIVE SITES	FIN 7SEP81	4SEP81	21SEP81	18SEP81	2	0	1
78900	79000	8	OPB 1 C8	7062 CULTURAL PRELIM ALTERNATIVES	ST 5JAN81	27FEB81	27JUL81	18SEP81	29	27	1
79000	79100	10	OPB 1 C8	7062 CULTURAL FRELIM ALTERNATIVES	CT-1 7SEP81	13NOV81	21SEP81	27NOV81	2	0	1
79100	79700	0	OPB 1 C8	7062 CULTURAL FRELIM ALTERNATIVES	FIN 16NOV81	13NOV81	30NOV81	27NOV81	2	0	1
79500	79700	15	OPB 1 C8	7063 CULTURAL-OPTIMIZED DESIGN	ST 5JAN81	17AFR81	17AUG81	27NOV81	32	30	1
79700	79800	20	OPB 1 C8	7063 CULTURAL-OPTIMIZED DESIGN	CT-1 16NOV81	2AFR82	30NOV81	16APR82	2	0	1
79900	79900	0	OPB 1 C8	7063 CULTURAL-OPTIMIZED DESIGN	FIN 5APR82	2APR82	19APR82	16APR82	2	0	1
79900	799A0	0	OPB 1 C8	706XX EXHIBIT V MATERIAL COMPLETE	5APR82	2APR82	19APR82	16APR82	2	2	1
75200	75300	35 R	OPB 1 C8	7071 LAND USE ALTERNATIVE SITES	ST 5JAN81	4SEP81	30MAR81	27NOV81	12	0	1
75300	76000	0	OPB 1 C8	7071 LAND USE ALTERNATIVE SITES	FIN 7SEP81	4SEP81	30NOV81	27NOV81	12	0	1
75900	76000	8	OPB 1 C8	7072 LAND USE PRELIM ALTERNATIVES	ST 5JAN81	27FEB81	5OCT81	27NOV81	39	27	1
75000	76100	10	OPB 1 C8	7072 LAND USE PRELIM ALTERNATIVES	CT-1 7SEP81	13NOV81	30NOV81	5FEB82	12	0	1
76100	76800	0	OPB 1 C8	7072 LAND USE PRELIM ALTERNATIVES	FIN 16NOV81	13NOV81	8FEB82	5FEB82	12	0	1
76700	76800	15	OPB 1 C8	7073 LAND USE OPTIMIZED DESIGN	ST 5JAN81	17AFR81	26OCT81	5FEB82	42	30	1
76800	76900	20	OPB 1 C8	7073 LAND USE OPTIMIZED DESIGN	CT-1 16NOV81	2AFR82	8FEB82	25JUN82	12	0	1
76900	77000	0	OPB 1 C8	7073 LAND USE OPTIMIZED DESIGN	FIN 5APR82	2APR82	28JUN82	25JUN82	12	12	1
72400	72600	19 R	OPB 1 C8	708 RECREATION PLANNING	ST 5JAN81	15MAY81	21SEP81	29JAN82	37	37	1
72600	72800	5	OPB 1 C8	708 RECREATION PLANNING	FIN 1FEB82	5MAR82	1FEB82	5MAR82	0	0	1
71200	73500	3 R	OPB 1 C8	7091 TRANS LINE ASSESS SCREENING	5JAN81	23JAN81	26JAN81	13FEB81	3	0	1
73500	73600	12	OPB 1 C8	7092 TRANS LINE ASSESS RTE SELECTN	26JAN81	17APR81	13JUL81	20CT81	24	21	1
73600	73700	16 R	OPB 1 C8	7101 FISH ECOLOGY ALTERNATV SITES ST	5JAN81	24APR81	25MAY81	11SEP81	20	0	1
73700	73800	11 R	OPB 1 C8	7101 FISH ECOLOGY ALTERNATV SITES CT-1	27APR81	10JUL81	14SEP81	27NOV81	20	0	1
73800	74200	0	OPB 1 C8	7101 FISH ECOLOGY ALTERNATV SITES FIN	13JUL81	10JUL81	30NDV81	27NOV81	20	0	1

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74100	74200	8	OPB 1 C8	7102 FISH ECOLOGY PRELIM ALTERNAT	ST 5JAN81	27FEB81	5OCT81	27NOV81	39	19	1
74200	74300	10	OPB 1 C8	7102 FISH ECOLOGY PRELIM ALTS	CT-1 13JUL81	18SEP81	30NOV81	5FEB82	20	0	1
74300	74600	0	OPB 1 C8	7102 FISH ECOLOGY PRELIM ALTERNAT	FIN 21SEP81	18SEP81	8FEB82	5FEB82	20	19	1
74500	74600	15	OPB 1 C8	7103 FISH ECOLOGY OPTIMIZED DESGN	ST 5JAN81	17AFR81	26OCT81	5FEB82	42	41	1
74600	74700	20	OPB 1 C8	7103 FISH ECOLOGY OPTIMIZED DESGN	CT-1 1FEB82	18JUN82	8FEB82	25JUN82	1	0	1
74700	74800	0	OPB 1 C8	7103 FISH ECOLOGY OPTIMIZED DESGN	FIN 21JUN82	18JUN82	28JUN82	25JUN82	1	1	1
74900	75000	35 R	OPB 1 C8	7111 WILDLIFE ECOLOGY ALTER SITES	ST 5JAN81	4SEP81	30MAR81	27NOV81	12	0	1
75000	75100	0	OPB 1 C8	7111 WILDLIFE ECOLOGY ALTER SITES	FIN 7SEP81	4SEP81	30NOV81	27NOV81	12	0	1
75500	75600	8	OPB 1 C8	7112 WILDLIFE ECOLOGY PRELIM ALTER	ST 5JAN81	27FEB81	5OCT81	27NOV81	39	27	1
75600	75700	10	OPB 1 C8	7112 WILDLIFE ECOLOGY PRELIM ALTER	CT-1 7SEP81	13NOV81	30NOV81	5FEB82	12	0	1
75700	76400	0	OPB 1 C8	7112 WILDLIFE ECOLOGY PRELIM ALTER	FIN 16NOV81	13NOV81	8FEB82	5FEB82	12	0	1
76300	76400	15	OPB 1 C8	7113 WILDLIFE ECOLOGY OPTIM DESGN	ST 5JAN81	17AFR81	26OCT81	5FEB82	42	30	1
76400	76500	20	OPB 1 C8	7113 WILDLIFE ECOLOGY OPTIM DESGN	CT-1 16NOV81	2APR82	8FEB82	25JUN82	12	0	1
76500	76600	0	OPB 1 C8	7113 WILDLIFE ECOLOGY OPTIM DESGN	FIN 5APR82	2APR82	28JUN82	25JUN82	12	12	1
77100	77200	35 R	OPB 1 C8	7121 PLANT ECOLOGY ALTERNATV SITES	ST 5JAN81	4SEP81	30MAR81	27NOV81	12	0	1
77200	77500	0	OPB 1 C8	7121 PLANT ECOLOGY ALTERNATV SITES	FIN 7SEP81	4SEP81	30NOV81	27NOV81	12	0	1
77400	77500	8	OPB 1 C8	7122 PLANT ECOLOGY PRELIM ALTERNAT	ST 5JAN81	27FER81	5OCT81	27NOV81	39	27	1
77500	77600	10	OPB 1 C8	7122 PLANT ECOLOGY PRELIM ALTERNAT	CT-1 7SEP81	13NOV81	30NOV81	5FEB82	12	0	1
77600	77900	0	OPB 1 C8	7122 PLANT ECOLOGY PRELIM ALTERNAT	FIN 16NOV81	13NOV81	8FEB82	5FEB82	12	0	1
77800	77900	15	OPB 1 C8	7123 PLANT ECOLOGY OPTIMIZD DESGN	ST 5JAN81	17AFR81	26OCT81	5FEB82	42	30	1
77900	78000	20	OPB 1 C8	7123 PLANT ECOLOGY OPTIMIZD DESGN	CT-1 16NOV81	2APR82	8FEB82	25JUN82	12	0	1
78000	78100	0	OPB 1 C8	7123 PLANT ECOLOGY OPTIMIZD DESGN	FIN 5APR82	2APR82	28JUN82	25JUN82	12	12	1
71000	74000	19 R	OPB 1 C8	714 ACCESS RD ENVIRONMENT ANALYS	ST 5JAN81	15MAY81	18MAY81	25SEP81	19	0	1
78200	78300	9	OPB 1 C8	715 PREP FOR FERC EXHIBIT-DRAFT	ST 5JAN81	6MAR81	4JAN82	5MAR82	52	52	1
78300	78400	6	OPB 1 C8	715 PREP FOR FERC EXHIBIT-DRAFT	CT-1 8MAR82	16AFR82	6MAR82	16APR82	0	0	1
78400	78500	0	OPB 1 C8	715 PREP FOR FERC EXHIBIT-DRAFT	FIN 19APR82	16AFR82	19APR82	16AFR82	0	0	1
78500	785A0	0	OPB 1 C8	715XX EXHIBIT W MATERIAL COMPLETE	19APR82	16AFR82	19AFR82	16AFR82	0	0	1
78500	785B0	0	OPB 1 C8	715XX EXHIBIT S MATERIAL COMPLETE	19APR82	16AFR82	17MAY82	14MAY82	4	4	1
80200	80400	3 R	OPB 1 C3	801 SELECT INITIAL CORRIDORS	FIN 26JAN81	13FEB81	16FEB81	6MAR81	3	0	1
81600	81800	2 R	OPB 1 C3	8021 LOAD FLOW ANALYSIS	ST 5JAN81	16JAN81	13APR81	24APR81	14	0	1
81800	82800	6	OPB 1 C3	8021 LOAD FLOW ANALYSIS	FIN 19JAN81	27FEB81	27AFR81	5JUN81	14	14	1
82400	82600	10	OPB 1 C3	80221 PRELIMINARY ELEC SYSTEM	ST 5JAN81	13MAR81	2FEB81	10APR81	4	4	1
82600	82800	8	OPB 1 C3	80221 PRELIMINARY ELEC SYSTEM	CT-1 13APR81	5JUN81	13AFR81	5JUN81	0	0	1
82800	83000	0	OPB 1 C3	80221 PRELIMINARY ELEC SYSTEM	FIN 8JUN81	5JUN81	8JUN81	5JUN81	0	0	1
85700	85800	39	OPB 1 C3	80222 RECOMMEND ELEC SYS	8JUN81	5MAR82	8JUN81	5MAR82	0	0	1
80300	80800	24	OPB 1 C3	803 FINAL ROUTE SELECTION 1981	ST 16FEB81	31JUL81	9MAR81	21AUG81	3	0	1
80800	81000	6	OPB 1 C3	803 FINAL ROUTE SELECTION 1981	CT-1 3AUG81	11SEP81	24AUG81	2OCT81	3	0	1
81000	81200	6	OPB 1 C3	803 FINAL ROUTE SELECTION 1981	CT-2 14SEP81	23OCT81	5OCT81	13NOV81	3	0	1
81200	81400	0	OPB 1 C3	803 FINAL ROUTE SELECTION 1981	FIN 26OCT81	23OCT81	16NOV81	13NOV81	3	0	1
83200	83400	8	OPB 1 C3	804 TOWER HARDWARE&CONDUCTR STUDY	ST 5JAN81	27FEB81	7SEP81	30OCT81	35	14	1
83400	83600	2	OPB 1 C3	804 TOWER HARDWARE&CONDUCTR STUDY	CT-1 8JUN81	19JUN81	2NOV81	13NOV81	21	18	1
83600	85400	10	OPB 1 C3	804 TOWER HARDWARE&CONDUCTR STUDY	FIN 26OCT81	1JAN82	16NOV81	22JAN82	3	0	1
84500	84800	8	OPB 1 C3	805 SUBSTATIONS	ST 5JAN81	27FEB81	5OCT81	27NOV81	39	14	1
84800	85400	8	OPB 1 C3	805 SUBSTATIONS	FIN 8JUN81	31JUL81	30NOV81	22JAN82	25	22	1
84000	84200	8	OPB 1 C3	806 DISPATCH CTR & COMMUNICATNS	ST 5JAN81	27FEB81	5OCT81	27NOV81	39	14	1
84200	85400	8	OPB 1 C3	806 DISPATCH CTR & COMMUNICATNS	FIN 8JUN81	31JUL81	30NOV81	22JAN82	25	22	1
85200	85400	2	OPB 1 C3	807 TRANS LINE COST ESTIMATES	ST 5JAN81	16JAN81	11JAN82	22JAN82	53	50	1
85400	85600	6	OPB 1 C3	807 TRANS LINE COST ESTIMATES	FIN 4JAN82	12FEB82	25JAN82	5MAR82	3	3	1
90200	90400	2	OPB 1 C7	901 ASSEMBLE COST-SCHEDULE DATA	ST 6APR81	17AFR81	24AUG81	4SEP81	20	0	1
90400	90500	4	OPB 1 C7	901 ASSEMBLE COST-SCHEDULE DATA	FIN 20APR81	15MAY81	21SEP81	16OCT81	22	2	1
90800	91000	6	OPB 1 C7	902 PREP PRELIM CST ESTIMATES	20APR81	29MAY81	7SEP81	16OCT81	20	0	1

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91200	91400	17	OPB 1 C7	903	COST ESTIMATE UPDATES	1JUN81	25SEP81	19OCT81	12FEB82	20	0	1	
91400	914A0	0	OPB 1 C7	903XX	EXHIBIT N MATERIAL COMPLETE	28SEP81	25SEP81	19APR82	16APR82	29	29	1	
91600	91800	6	OPR 1 C7	9041	ENGR COST & SCHEDULE PRELIM	20APR81	29MAY81	7SEP81	16OCT81	20	0	1	
92000	92200	17	OPR 1 C7	9042	ENGR COST & SCHEDULE FINAL	1JUN81	25SEP81	19OCT81	12FEB82	20	0	1	
92200	922A0	0	OPR 1 C7	904XX	EXHIBIT O MATERIAL COMPLETE	28SEP81	25SEP81	19APR82	16APR82	29	29	1	
92400	92600	12	OPR 1 C7	905	CONTINGENCY ANALYSIS	1JUN81	21AUG81	23NOV81	12FEB82	25	25	1	
A1200	A1300	9	FLC C110	1001	IMPACT OF NEW FERC REGULATIONS	5JAN81	6MAR81	30NOV81	29JAN82	47	46	1	
A3200	A2600	4	FLC C110	10022	1ST UPDATE-REGULATORY REQ	2MAR81	27MAR81	22MAR82	16APR82	55	45	1	
A3300	A2600	4	FLC C110	10023	2ND UPDATE-REGULATORY REQ	30NOV81	25DEC81	22MAR82	16APR82	16	16	1	
A3600	A3800	5	FLC C110	1003	DATA FROM OTHERS	5JAN81	6FEB81	12APR82	14MAY82	66	0	1	
A3800	A4000	0	FLC C110	1003XX	EXHIBIT A, B & C MATERIAL COMPLETE	9FEB81	6FEB81	17MAY82	14MAY82	66	66	1	
A1400	A1600	9 R	FLC C110	1004	COORD EXHIBIT PREPARATION	ST	23NOV81	22JAN82	30NOV81	29JAN82	1	0	1
A1600	A16A0	1	FLC C110	1004	COORD EXHIBIT PREPARATION	CT-1	25JAN82	29JAN82	1FEB82	5FEB82	1	0	1
A16A0	A1700	2	FLC C110	1004	COORD EXHIBIT PREPARATION	CT-2	1FEB82	12FEB82	8FEB82	19FEB82	1	0	1
A1700	A17A0	3	FLC C110	1004	COORD EXHIBIT PREPARATION	CT-3	15FEB82	5MAR82	22FEB82	12MAR82	1	1	1
A17A0	A17B0	2	FLC C110	1004	COORD EXHIBIT PREPARATION	CT-4	15MAR82	26MAR82	15MAR82	28MAR82	0	10	1
A17B0	A1800	3	FLC C110	1004	COORD EXHIBIT PREPARATION	CT-5	29MAR82	16APR82	29MAR82	16APR82	0	0	1
A1800	A2400	0	FLC C110	1004	COORD EXHIBIT PREPARATION	FIN	19APR82	16APR82	19APR82	16APR82	0	0	1
A0400	A0600	10	FLC C110	10051	PREPARE EXHIBIT E		30NOV81	5FEB82	4JAN82	12MAR82	5	5	1
A0700	A0900	10	FLC C110	10052	PREPARE EXHIBIT D		30NOV81	5FEB82	8MAR82	14MAY82	14	14	1
A0800	A1000	10	FLC C110	1006	PREPARE EXHIBIT R	ST	30NOV81	5FEB82	8FEB82	16APR82	10	10	1
A0000	A0200	6	FLC C110	1007	PREPARE EXHIBIT T	ST	14SEP81	23OCT81	21SEP81	30OCT81	1	0	1
A0200	A1100	4	FLC C110	1007	PREPARE EXHIBIT T	FIN	26OCT81	20NOV81	2NOV81	27NOV81	1	0	1
A2200	A2400	6	FLC C110	1008	PREP APPICATN FORM-DRAFT	ST	30NOV81	8JAN82	8MAR82	16APR82	14	14	1
A2400	A2600	0	FLC C110	1008	PREP APPICATN FORM-DRAFT	FIN	19APR82	16APR82	19APR82	16APR82	0	0	1
A2600	A2800	2	FLC C110	1009	REVIEW AND CORRECT		19APR82	30APR82	19APR82	30APR82	0	0	1
A2800	A3000	2	FLC C110	1010	EXTERNAL REVIEW		3MAY82	14MAY82	3MAY82	14MAY82	0	0	1
A3000	A3400	6	FLC C110	10XXX	PRINT LICENSE APPLICATION		17MAY82	25JUN82	17MAY82	25JUN82	0	0	1
B0000	B0200	75 R	FLC C210	1101	PROJECT OVERVIEW		5JAN81	11JUN82	19JAN81	25JUN82	240	210	1
B0400	B0600	67 R	FLC C210	1102	INTERNAL REPORTS		5JAN81	16APR82	5JAN81	16APR82	0	0	1
B0600	B06A0	0	FLC C210	1102XX	EXHIBIT U MATERIAL COMPLETE		19APR82	16APR82	19APR82	16APR82	0	0	1
B0800	B1000	10 R	FLC C210	11031	ALT POWR SRCE RISK ANAL-PREL	ST	5JAN81	13MAR81	BJUN81	14AUG81	22	00	1
B1000	B1200	2	FLC C210	11031	ALT POWR SRCE RISK ANAL-PREL	FIN	16MAR81	27MAR81	17AUG81	28AUG81	22	00	1
B1200	B1300	30	FLC C210	11032	ALT POWR SRCE RISK ANAL-REFN		30MAR81	23OCT81	31AUG81	26MAR82	22	00	1
B1200	B1400	30	FLC C210	1104	BASE PLAN RISK ANALYSIS	ST	30MAR81	23OCT81	31AUG81	26MAR82	22	0	1
B1400	B1600	0	FLC C210	1104	BASE PLAN RISK ANALYSIS	FIN	26OCT81	23OCT81	29MAR82	23MAR82	22	22	1
R2000	R2200	30	FLC C210	1105	SUSITNA FINANCE RISK ANALYSIS		5JAN81	31JUL81	27JUL81	19FEB82	29	47	1
R2400	R2600	24	FLC C210	1106	RESOLUTION TAX ISSUE		5JAN81	19JUN81	19JAN81	3JUL81	2	53	1
R2600	R3000	30	FLC C210	1107	IDENTIFY PARTIES INTEREST		5JAN81	31JUL81	27JUL81	19FEB82	29	47	1
R3200	R3400	30	FLC C210	1108	REVENUE ASSURANCE		5JAN81	31JUL81	21SEP81	16APR82	37	0	1
R3600	R3800	65 R	FLC C210	1109	LIAISON APA BOND UNDERWRITER		5JAN81	2AFEB82	19JAN81	16APR82	2	2	1
B3400	B34A0	0	FLC C210	1109XX	EXHIBIT G MATERIAL COMPLETE		3AUG81	31JUL81	19APR82	16APR82	37	37	1
C0600	C0800	4	OPR 1 C810	12022	CONDUCT PUBLIC MEETING #2		6APR81	1MAY81	30NOV81	25DEC81	34	0	1
C1200	C1400	4	OPR 1 C810	12023	CONDUCT PUBLIC MEETING #3		27JUL81	21AUG81	22MAR82	16APR82	34	34	1
C0200	C0400	4 R	OPR 1 C810	12031	CONDUCT WORKSHOPS 1,2,3		5JAN81	30JAN81	2NOV81	27NOV81	43	9	1
C0800	C1000	12	OPR 1 C810	12032	CONDUCT WORKSHOPS 4,5,6		4MAY81	24JUL81	28DEC81	19MAR82	34	0	1
C1600	C1200	76 R	OPR 1 C810	1204	PREP PUBLISH DISTRIB MATERIAL		5JAN81	18JUN82	12JAN81	25JUN82	1	1	1
C1800	C1200	76 R	OPR 1 C810	1205	PREP MAINTAIN ACTION LIST		5JAN81	18JUN82	12JAN81	25JUN82	1	1	1
R1000	R1200	31 R	PSB 2 C310	13013	PROJECT PROCED MANUAL-UPDATE		5JAN81	7AUG81	23NOV81	25JUN82	45	46	1
R2200	R2400	76 R	PSB 2 C310	13042	SCHEDULE CONTROL SYS UPDATE		5JAN81	18JUN82	12JAN81	25JUN82	1	1	1
R2800	R3000	76 R	PSB 2 C310	13052	COST CONTROL SYSTEM-OP		5JAN81	18JUN82	12JAN81	25JUN82	1	1	1

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ACRES CFM SYSTEM

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REP01

I-NODE	J-NODE	DUR	SELECT CODES	DESCRIPTION	E.S.	E.F.	L.S.	L.F.	T.F.	F.F.	CL
D3400	D3600	76	R PSB 2 C310	13062 MANPOWER LOADING SCHED-UPDATE	5JANSI	18JUN82	12JAN81	25JUN82	1	1	1
D3800	D4000	76	R PSB 2 C310	1310 SUB CONTRACT ADMINISTRATION	5JANSI	18JUN82	12JAN81	25JUN82	1	1	1
D1200	D1300	0	10	XXX PROJECT COMPLETE XXX	28JUN82	25JUN82	28JUN82	25JUN82	0	0	1 CRITICAL

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REMAINING WORK:

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JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
01120012301220112001220112301220112001230122011200120012201120112301220112001230122
52963296329630630741851852963073074174185296296307418418518521852952963074174185296328306307

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DESCRIPTION	81												82												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
3064 HYD&ICE-RSRV TEMP REGIME	.	XXXXXXX	L																						
3071 SEDIMENT YIELD & DEPOSITION	ST	XXXX																							
3071 SEDIMENT YIELD & DEPOSITION	FIN	XXXXXX																							
3072 RIVER MORPHOLOGY	ST	.	XXXXXXXXXXXX																			L			
3072 RIVER MORPHOLOGY	CT-1	.		XXXX																		L			
3072 RIVER MORPHOLOGY	FIN	.																				XXXXL			
3082 TRANSMSN LINE-DET PARAMTR	ST	XXXXX	L																						
3082 TRANSMSN LINE-DET PARAMTR	FIN	.	CCCL																						
309 ACCESS ROADS HYDROLOGY	ST	.	XXXXXXXXXXXXXXXXXXXXXXXXXX																		L				
3101 LWR SUSITNA STUDIES-PRELIM	ST	L																							
3101 LWR SUSITNA STUDIES-PRELIM	FIN	CCCCCCC	L																						
3102 LWR SUSITNA STUDIES-FOLLOWUP	ST	.	CC																						
406 PRELIM EVALUATN&REPORT-DRAFT	FIN	CL																							
407 PRELIM GROUND MOTION STUDIES	CT-1	CCCCCCCCCCCCCCCCCCCC	L																						
408 DAM STABILITY	FIN	.	XXXXXX																			L			
408 DAM STABILITY	FIN	.	XXXXXXXXXXXXXXXXXXXX																			L			
409 LONG TERM MONITORING PROGRAM	ST	.	XXXXXXXXXXXXXXXXXXXX																			L			
410 RESERVOIR INDUCED SEISMICITY	ST	XXXXXX																							
411 SEISMIC GEOLOGY-FIELD STUDY	ST	XXXXXXXXXXXXXXXXXXXX	L																						
412 EVALUATION & REPORT DRAFT	CT-1	CCCCCCCCCCCCCCCCCCCC	L																						
412 EVALUATION & REPORT DRAFT	FIN	.	CL																						
412 EVALUATION & REPORT DRAFT	CT-1	CCCCCCCCCCCCCCCCCCCC	L																						
413 GROUND MOTION STUDIES	ST	XXXXXXXXXXXX	L																						
413 GROUND MOTION STUDIES	FIN	.	XXXXXXXXXXXX																			L			
414 DAM STABILITY CONSULTING	ST	XXXXXXXXXXXXXXXXXXXX	L																						
415 SOIL SUSCEPTIBILITY-SEISMIC FAIL	ST	XXXXXXXXXXXXXXXXXXXX	L																						
502 AIR PHOTO INTERPRETATION	FIN	XX	L																						
505 1981 PROGRAM DESIGN	ST	XXX	L																						
505 1981 PROGRAM DESIGN	FIN	XX	L																						
506 1981 EXPLORATION PROGRAM	ST	XXXXXXXXXXXX	L																						
506 1981 EXPLORATION PROGRAM	FIN	.	XXXXXXXXXXXX																						
507 1982-4 PROGRAM DESIGN	ST	XX	L																			L			
5081 DATA ASSEMBLY-1980-DRAFT	ST	X	L																						
5081 DATA ASSEMBLY-1980-DRAFT	FIN	.	L																						
5082 DATA ASSEMBLY-1981-DRAFT	ST	XXX																			L				
5082 DATA ASSEMBLY-1981-DRAFT	FIN	XX																			L				
5083 DATA ASSEMBLY FINAL-DRAFT	ST	.	XXXX	L																	XXXXXX				
602 INVESTIGATE TUNNL ALTERNATVS	ST	CCCCCCC	L																						
6051 SELECT REPORT DRAFT	ST	CT-1	CCL																						
6052 SELECT FINAL REPORT	ST	CT-1	L																						
6052 SELECT FINAL REPORT	FIN	.	CL																						
606 STAGED DEVELOPMENT ALTS	ST	CT-1X	L																						
606 STAGED DEVELOPMENT ALTS	FIN	XXX	L																						
607 PRELIM WATANA DAM ALTERNATES	ST	CT-2	XXXXXXXX	L																		L			
607 PRELIM WATANA DAM ALTERNATES	CT-3	.	X																		L				
607 PRELIM WATANA DAM ALTERNATES	FIN	.	XXXXXXX	L																	L				
608 PRELIM DEVIL CANYON DAM ALT	CT-2	XXXXXXX	L																		L				

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011200120012301220112001220122011230122011200123012201120012001220112301220112001230122
5296296329630630741851852963073074174185296307418418518521852952963074174185296306307

608	PRELIM DEVIL CANYON DAM ALT FIN			L	
609	ESTAB WATANA DESIGN CRITERIA ST	X		L	
609	ESTAB WATANA DESIGN CRITERIA CT-1.	XXXXXX		XXXXXXX	L
609	ESTAB WATANA DESIGN CRITERIA CT-2.			X	L
609	ESTAB WATANA DESIGN CRITERIA FIN			XXXXXX	L
610	ESTAB DEVIL CANYN DESGN CRIT ST	X		L	
610	ESTAB DEVIL CANYN DESGN CRIT CT-1.	XXXXXX		XXXXXX	L
610	ESTAB DEVIL CANYN DESGN CRIT CT-2.			X	L
610	ESTAB DEVIL CANYN DESGN CRIT FIN			CCCCCCCCCCC	L
611	PRELIM DESIGN WATANA DAM ST			CCCCCCCCCCC	L
611	PRELIM DESIGN WATANA DAM CT-1.			CCCCCCCCCCC	L
611	PRELIM DESIGN WATANA DAM FIN			CCCCCCCCCCC	L
612	PREL DESIGN DEVIL CANYON DAM ST			CCCCCCCCCCC	L
612	PREL DESIGN DEVIL CANYON DAM CT-1.			CCCCCCCCCCC	L
612	PREL DESIGN DEVIL CANYON DAM FIN			CCCCCCCCCCC	L
613	DAM SELECTION REPORT-DRAFT ST			XXXXXXXXXXXX	L
613	DAM SELECTION REPORT-DRAFT FIN			CCCCCCC	L
614	SPILLWAY DESIGN CRITERIA ST	XXX		XXXXXXX	L
614	SPILLWAY DESIGN CRITERIA FIN			XXXXXXL	
615	WATANA SPILLWAY ALTERNATIVES ST			XXXXXXL	
615	WATANA SPILLWAY ALTERNATIVES FIN			XXXXXXXXXXXX	
616	DEV'L CAN SPILLWAY ALTERNATIVE ST			XXX L	
616	DEV'L CAN SPILLWAY ALTERNATIVE FIN			XXXXXXX	L
617	PRELIM DESIGN WATANA SPILLWAY ST	XXXX		L	
617	PRELIM DESIGN WATANA SPILLWAY CT-1.			XXXXL	
617	PRELIM DESIGN WATANA SPILLWAY FIN			XXXXXXXXXXXXXX	
618	PRELIM DES DEVIL CAN SPILWAY ST			XXXXXX L	
618	PRELIM DES DEVIL CAN SPILWAY FIN			XXXXXXXXXXXXXX	L
619	SPILLWAY SELECTN REPRT-DRAFT ST			XXXXXX	L
619	SPILLWAY SELECTN REPRT-DRAFT FIN			XXXXXL	
620	ACCESS & CAMP FACILITIES ST	XXX		L	
620	ACCESS & CAMP FACILITIES FIN			XXXXXXX	L
621	WATANA DIVERSION SCHEMES ST	XXXXX		L	
621	WATANA DIVERSION SCHEMES FIN			XXXXXXXXXX	L
622	DEVIL CANYON DIVERSN SCHEMES ST	XXXXXXXXXX		L	
622	DEVIL CANYON DIVERSN SCHEMES FIN			XXXXXX 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 L	
624	OPT DEV'L CANYN POWER DEVELO ST			XXXXXX L	
624	OPT DEV'L CANYN POWER DEVELO FIN			XXXXXX L	
625	OPTIMIZE DAM HEIGHTS ST	XXXXX		L	
625	OPTIMIZE DAM HEIGHTS CT-1.			XXXXX L	
625	OPTIMIZE DAM HEIGHTS FIN			L	
626	PREL DESGN WATAN POWER DEVEL ST			XXXXXXXXXXXXXX L	
626	PREL DESGN WATAN POWER DEVEL FIN			XXXXX L	
627	PREL DES DEV'L CAN POUR DEVEL ST			XXXXXXXXXXXXXX L	
627	PREL DES DEV'L CAN POUR DEVEL FIN			XXXXX L	

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0112001230122011200122011230122011200123012201120012201123012201120012301220112001230122
5296296329630630741851852963073074174185296295307418418518521852952963074174185296295306307

628 POWER DEVELOPMNT REPRT-DRAFT ST . XXXXX L
628 POWER DEVELOFMNT REPRT-DRAFT CT-1. L
628 POWER DEVELOMNT REPRT-DRAFT CT-2. L
628 POWER DEVELOPMNT REPRT-DRAFT FIN .
629 NATANA GENERAL ARRANGEMENT ST . XXXXXX L CCCL
629 NATANA GENERAL ARRANGEMENT FIN . XXXXL
629XX EXHIBIT J MATERIAL COMPLETE .
630 DEV'L CAN GENERAL ARRANGEMENT ST . XXXXXX L
630 DEV'L CAN GENERAL ARRANGEMENT FIN . XXXXL
630XX EXHIBIT K MATERIAL COMPL .
630XX EXHIBIT M MATERIAL COMPL .
631 PROJECT FEASIBL REPORT-DRAFT ST . X L CCCL
631 PROJECT FEASIBL REPORT-DRAFT CT-1. L
631 PROJECT FEASIBL REPORT-DRAFT CT-2. L
631 PROJECT FEASIBL REPORT-DRAFT CT-3. L
631 PROJECT FEASIBL REPORT-DRAFT CT-4. L
631 PROJECT FEASIBL REPORT-DRAFT FIN . CCCL
631XX EXHIBIT L MATERIAL COMPLETE .
6342 ENVIRONMENT ASSESSMENT-FINAL XXXX L
635 LOAD MANAGE & CONSERVE X L
6362 GENERAT PLAN ANALY & REPORT CT-2CCCL
6362 GENERAT PLAN ANALY & REPORT FIN . CCL
637 UPDATE GENERATION PLAN XXXXXXXXX L
638 LIAISON POWER ALTS CONSULTANT XXX
701 STUDY COORD-ALTERNATIVE SITE CT-2CCL
7011 STUDY COORD-ALTERNATIVE SITE FIN . L
7012 STUDY COORD-PRELIM ALTERNATV ST : CCCCCCCCCCCCCCCCCCL
7012 STUDY COORD-PRELIM ALTERNATV FIN . L
7013 STUDY COORD-OPTIMIZED DESIGN . CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCL
702 MONITOR FIELD ACTIVITIES CT-1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX L
702 MONITOR FIELD ACTIVITIES FIN .
7041 WATER RESOURCE ALT SITES X L
7042 WTR RES-PRE WAT&DEV'L CAN ALT . XXXXXXXXX L
7043 WTR RES-OPT WAT&DEV'L CAN DES . XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
705 SOCIOECONOMIC ANALYSIS ST XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
705 SOCIOECONOMIC ANALYSIS FIN .
7061 CULTURAL-ALTERNATIVE SITES ST XXXXXXXXXXXXXXXXXXXXXXXXX L
7061 CULTURAL-ALTERNATIVE SITES FIN .
7062 CULTURAL PRELIM ALTERNATIVES ST XXXXXXXX L
7062 CULTURAL PRELIM ALTERNATIVES CT-1. L
7062 CULTURAL PRELIM ALTERNATIVES FIN .
7063 CULTURAL-OPTIMIZED DESIGN ST XXXXXXXXXXXXXXXXX L
7063 CULTURAL-OPTIMIZED DESIGN CT-1. L
7063 CULTURAL-OPTIMIZED DESIGN FIN .
706XX EXHIBIT V MATERIAL COMPLETE .
7071 LAND USE ALTERNATIVE SITES ST XXXXXXXXXXXXXXXXXXXXXXXXX L
7071 LAND USE ALTERNATIVE SITES FIN .
7072 LAND USE PRELIM ALTERNATIVES ST XXXXXXXX L

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81 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
0112001200123012201120012201220112301220112001230122011200120012201120112301220112001230122
5295296329630630741851852963073074174185296296307418418518521852952963074174185296296306307

7072 LAND USE PRELIM ALTERNATIVES CT-1. XXXXXXXXXXXXXXXXXX L
7072 LAND USE PRELIM ALTERNATIVES FIN .
7073 LAND USE OPTIMIZED DESIGN ST XXXXXXXXXXXXXXXXXX L
7073 LAND USE OPTIMIZED DESIGN CT-1. XXXXXXXXXXXXXXXXXX L
7073 LAND USE OPTIMIZED DESIGN FIN .
708 RECREATION PLANNING ST XXXXXXXXXXXXXXXXXX L
708 RECREATION PLANNING FIN .
7091 TRANS LINE ASSESS SCREENING XXX L CCCCL
7092 TRANS LINE ASSESS RTE SELECTN . XXXXXXXXXXXXXXXXXX L
7101 FISH ECOLOGY ALTERNATV SITES ST XXXXXXXXXXXXXXXXXX L
7101 FISH ECOLOGY ALTERNATV SITES CT-1. XXXXXXXXXXXXXXXXXX L
7101 FISH ECOLOGY ALTERNATV SITES FIN .
7102 FISH ECOLOGY PRELIM ALTERNAT ST XXXXXXXXX L
7102 FISH ECOLOGY PRELIM ALTS CT-1. XXXXXXXXXXXXXXXXXX L
7102 FISH ECOLOGY PRELIM ALTERNAT FIN .
7103 FISH ECOLOGY OPTIMIZED DESGN ST XXXXXXXXXXXXXXXXXX L
7103 FISH ECOLOGY OPTIMIZED DESGN CT-1. XXXXXXXXXXXXXXXXXX L
7103 FISH ECOLOGY OPTIMIZED DESGN FIN .
7111 WILDLIFE ECOLOGY ALTER SITES ST XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX L
7111 WILDLIFE ECOLOGY ALTER SITES FIN .
7112 WILDLIFE ECOLOGY PRELM ALTER ST XXXXXXXXX L
7112 WILDLIFE ECOLOGY PRELM ALTER CT-1. XXXXXXXXXXXXXXXXXX L
7112 WILDLIFE ECOLOGY PRELM ALTER FIN .
7113 WILDLIFE ECOLOGY OPTIM DESGN ST XXXXXXXXXXXXXXXXXX L
7113 WILDLIFE ECOLOGY OPTIM DESGN CT-1. XXXXXXXXXXXXXXXXXX L
7113 WILDLIFE ECOLOGY OPTIM DESGN FIN .
7121 PLANT ECOLOGY ALTERNATV SITES ST XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX L
7121 PLANT ECOLOGY ALTERNATV SITES FIN .
7122 PLANT ECOLOGY PRELM ALTERNAT ST XXXXXXXXX L
7122 PLANT ECOLOGY PRELM ALTERNAT CT-1. XXXXXXXXXXXXXXXXXX L
7122 PLANT ECOLOGY PRELM ALTERNAT FIN .
7123 PLANT ECOLOGY OPTIMIZD DESGN ST XXXXXXXXXXXXXXXXXX L
7123 PLANT ECOLOGY OPTIMIZD DESGN CT-1. XXXXXXXXXXXXXXXXXX L
7123 PLANT ECOLOGY OPTIMIZD DESGN FIN .
714 ACCESS RI ENVIRONMENT ANALYS XXXXXXXXXXXXXXXXXX L
715 PREP FOR FERC EXHIBIT-DRAFT ST XXXXXXXXX L
715 PREP FOR FERC EXHIBIT-DRAFT CT-1. CCCCL
715 PREP FOR FERC EXHIBIT-DRAFT FIN .
715XX EXHIBIT W MATERIAL COMPLETE . L
715XX EXHIBIT S MATERIAL COMPLETE . L
801 SELECT INITIAL CORRIDORS FIN : XXX L L
8021 LOAD FLOW ANALYSIS ST XX L
8021 LOAD FLOW ANALYSIS FIN : XXXXXX L
80221 PRELIMINARY ELEC SYSTEM ST XXXXXXXXX L
80221 PRELIMINARY ELEC SYSTEM CT-1. CCCCCCCCCL
80221 PRELIMINARY ELEC SYSTEM FIN . L
80222 RECOMMEND ELEC-SYS . CCCCCCCCCCL
803 FINAL ROUTE SELECTION 1981 ST : XXXXXXXXXXXXXXXXXXXXXXXX L

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81 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
011200120012301220112001220112301220112001230122011200120012201120112301220112001230122
5296296329630630741851852963073074174185296296307418418518521852952963074174185295283303307

11032 ALT PWR SRCE RISK ANAL-REFN	ST :	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1104 BASE PLAN RISK ANALYSIS	ST :	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1104 BASE PLAN RISK ANALYSIS	FIN :	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1105 SUSITNA FINANCE RISK ANALYSIS		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1105 RESOLUTION TAX ISSUE		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX L	L
1107 IDENTIFY PARTIES INTEREST		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1108 REVENUE ASSURANCE		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1109 LIATISON APA BOND UNDERWRITER		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1109XX EXHIBIT G MATERIAL COMPLETE		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
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		XXXX	L
1204 PREP PUBLISH DISTRIB MATERIAL		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1205 PREP MAINTAIN ACTION LIST		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
13013 PROJECT PROCED MANUAL-UPDATE		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
13042 SCHEDULE CONTROL SYS UPDATE		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
13052 COST CONTROL SYSTEM-OP		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
13062 MANPOWER LOADING SCED-UPDATE		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
1310 SUB CONTRACT ADMINISTRATION		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L
XXX PROJECT COMPLETE XXX		XXXX	L