

1/26/12

Presentation by
Alaska Energy
Authority:
Susitna- Watana
Hydroelectric
Project

<TARGET><BILL></BILL><SUBJECT>1-26-12 Presentation by Alaska
Energy Authority Susitna- Watana Hydroelectric
Project</SUBJECT><COMM>HENE27</COMM></TARGET>

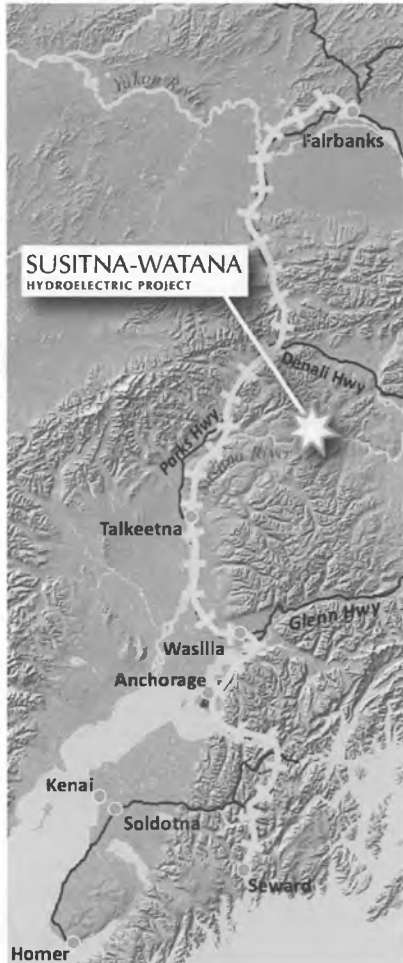


SUSITNA-WATANA

HYDROELECTRIC PROJECT

House Energy Committee
Thursday, January 26, 2012



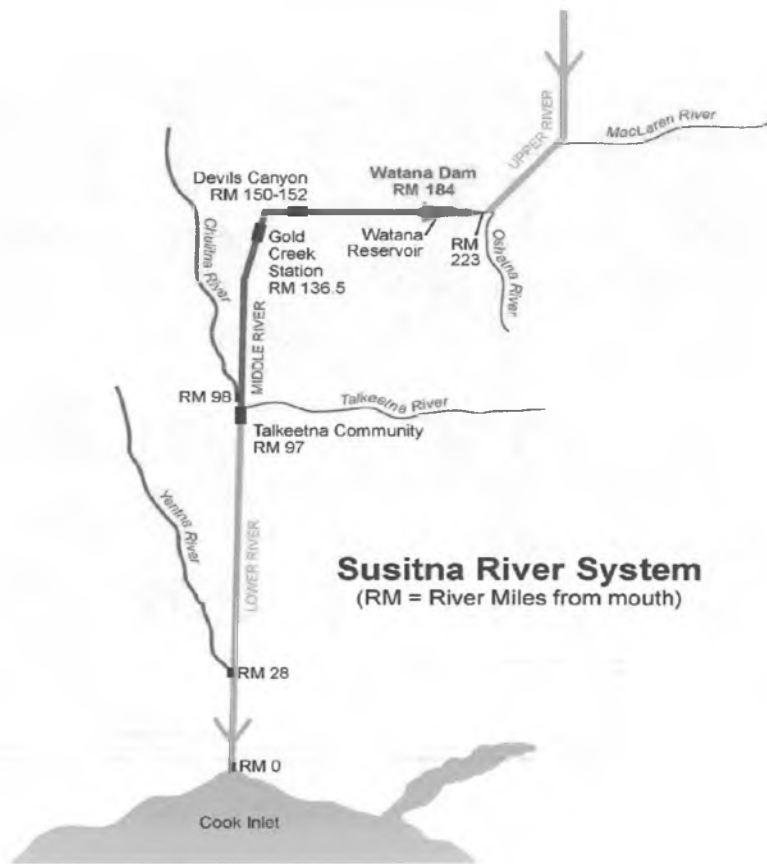


Project Overview

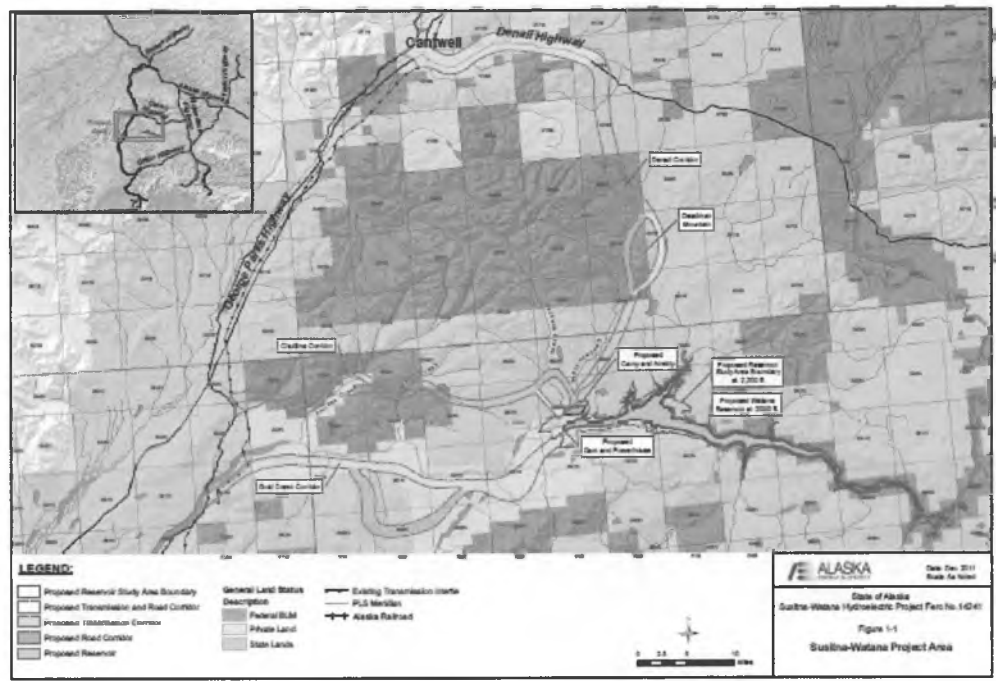
- Location: river mile 184, above Devils Canyon
- Size: ~700 foot-high dam
- Reservoir 39 miles long, 2 miles wide (at widest)
- Supply: ~50% of Railbelt electrical demand
- Capacity: 600 MW installed capacity, annual average 2,500, 000 MWh
- Project life: 100+ years, providing long-term, stable rates



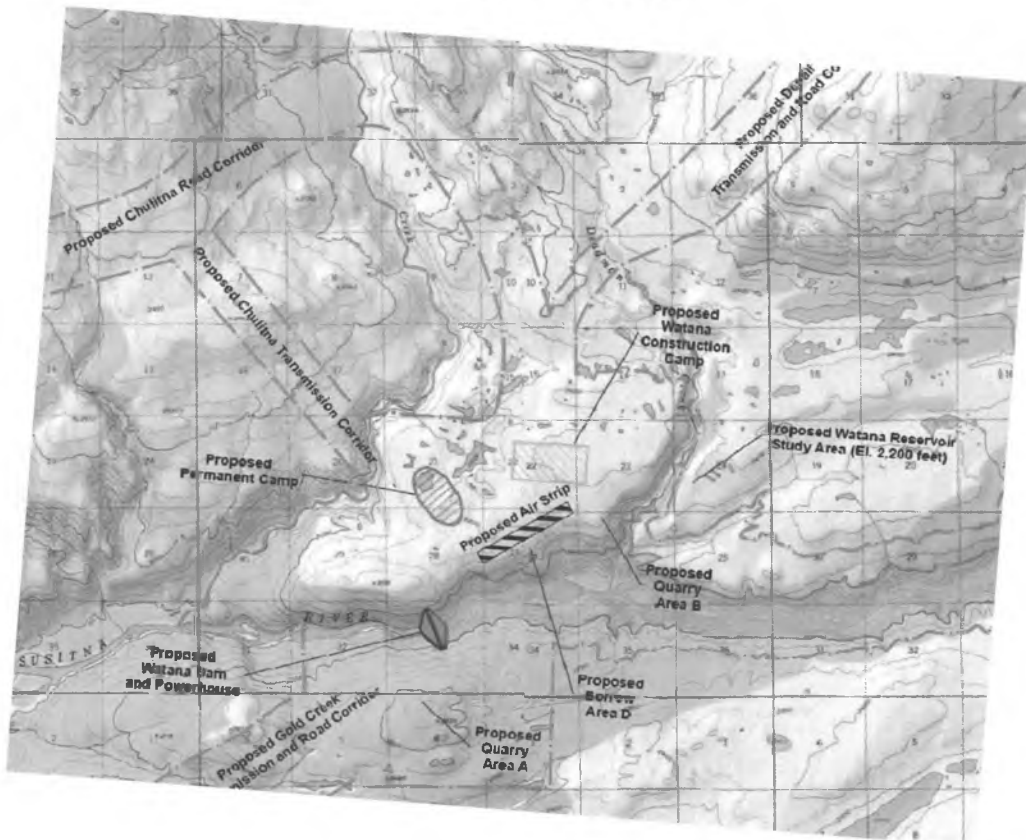
Locations and River Miles



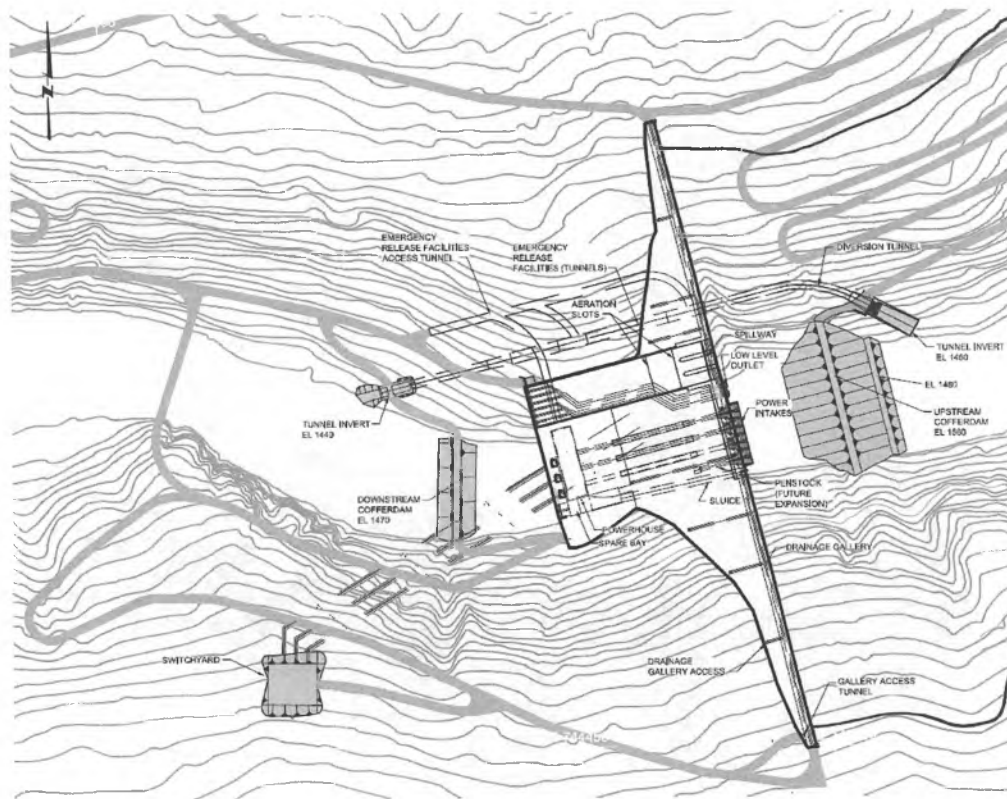
Project Area



Project Site



Conceptual Site Plan

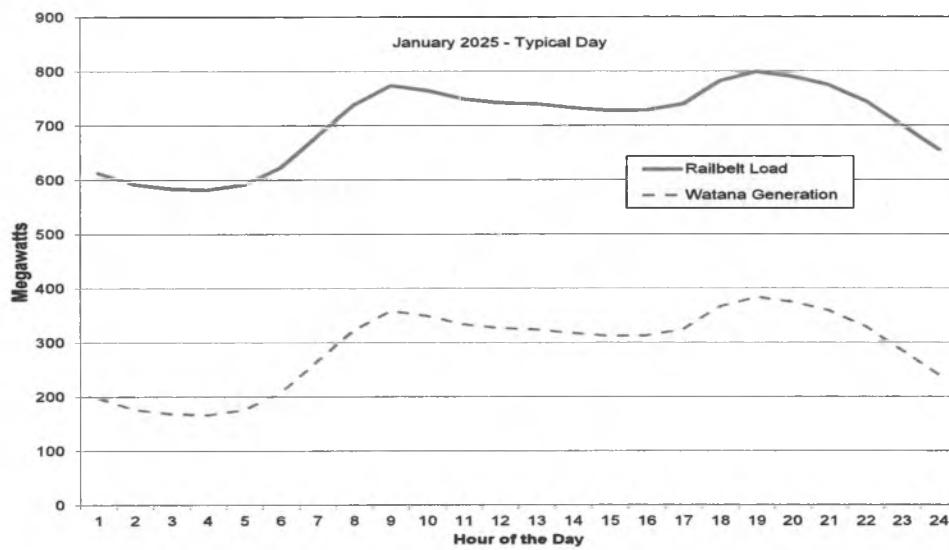


Operating Objectives

Primary Operating Objectives:

- Maximize firm power generation Nov.- April
- Generate power while meeting minimum flows
- Maximize power generation May-Oct.
- Generate power to meet Railbelt demand

Project Daily Operation



- Load-following to provide system stability and responsiveness to energy demand



2011 Activities and Accomplishments

- Oct/Nov.: Opened project office and hired experienced staff
- Data Gap Analyses Completed
- Detailed LiDAR mapping of Susitna River drainage
- July/August: geotechnical drilling
- October 27: Filed Preliminary Permit Application with FERC
- Public Outreach: stakeholder consultation, public meetings, agency workshops, site visits, presentations
- December 29: Filed Pre-Application Document with FERC



Licensing Status

Figure 2-1. Susitna-Watana Licensing Schedule Summary

Licensing Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2012	NOI/PAD Filed 12/29/11 ↓											
Initial Alaskan Native Consultation	□											
FERC Scoping Document 1			△									
FERC Scoping Meetings			□									
PAD Comments & Study Requests Due				△								
AEA Study Plan & Scoping Document 2 Due						△						
Initial Study Plan Meetings							□					
Study Plan Comments Due									△			
AEA Revised Study Plan Due										△		
Revised Study Plan Comments Due											△	
FERC Study Plan Determination												△
Implement Studies												□

Public Scoping Meetings

- March 27: Anchorage and Wasilla
- March 28: Talkeetna
- March 29: Fairbanks
- March 30: Glennallen



2012 Engineering Studies

- Hydrology & Power Operations
- Loads & Resources Modeling (RIRP)
- Feature Layouts & Optimization
- Transmission System Reliability & Stability Modeling
- Geotechnical Investigations
- Formation of Board of Consultants
- Update of Construction Cost Estimates
- Feasibility Report

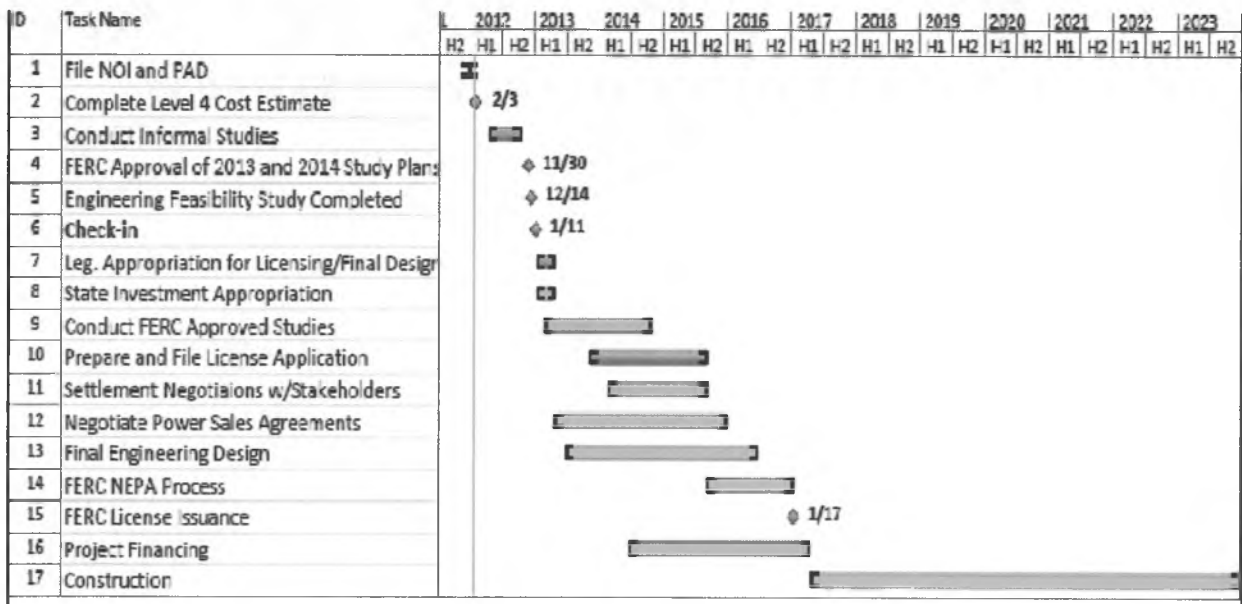




2012 Environmental Studies

- Geomorphology/Sediment Transport
- Ice Studies
- Project Operation Studies
- Water Quality
- Fisheries
- Wildlife
- Botanical
- Cultural Resources
- Recreation

Susitna-Watana Schedule





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