



# Project Operations MIG

September 26, 2007





# MIG 3 Agenda

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- Introductions
- Feedback on Issue Sheet
- FERC Study Plan Criteria
- Summary of Draft Study Plan
- Summary of Study Plan Process
- MIG membership
- Next steps

# MIG Sheet Feedback



# FERC ILP Study Criteria

- Describe the goals and objectives of each study proposal and the information to be obtained;
- If applicable, explain the relevant resource management goals of the agencies or Indian tribes with jurisdiction over the resource to be studied;
- If the requester is a not resource agency, explain any relevant public interest considerations in regard to the proposed study;
- Describe existing information concerning the subject of the study proposal, and the need for additional information;
- Explain any nexus between project operations and effects (direct, indirect, and/or cumulative) on the resource to be studied, and how the study results would inform the development of license requirements;
- Explain how any proposed study methodology (including any preferred data collection and analysis techniques, or objectively quantified information, and a schedule including appropriate filed season(s) and the duration) is consistent with generally accepted practice in the scientific community or, as appropriate, considers relevant tribal values and knowledge; and
- Describe considerations of level of effort and cost, as applicable, and why any proposed alternative studies would not be sufficient to meet the stated information needs.

# Study Goals



- Determine feasibility of revising the Martin rule curve
  - model changes involving an increase in winter pool elevation up to 6 feet.
- Determine potential flood impacts associated with higher winter rule curve levels
- Address the duration of the summer pool (e.g., extending the summer pool into October or November).

# Description



- Study area includes all of the waters located within the Martin Project boundary and Martin tailrace
- Also includes looking at effects on inflows to APC's downstream Yates and Thurlow Project

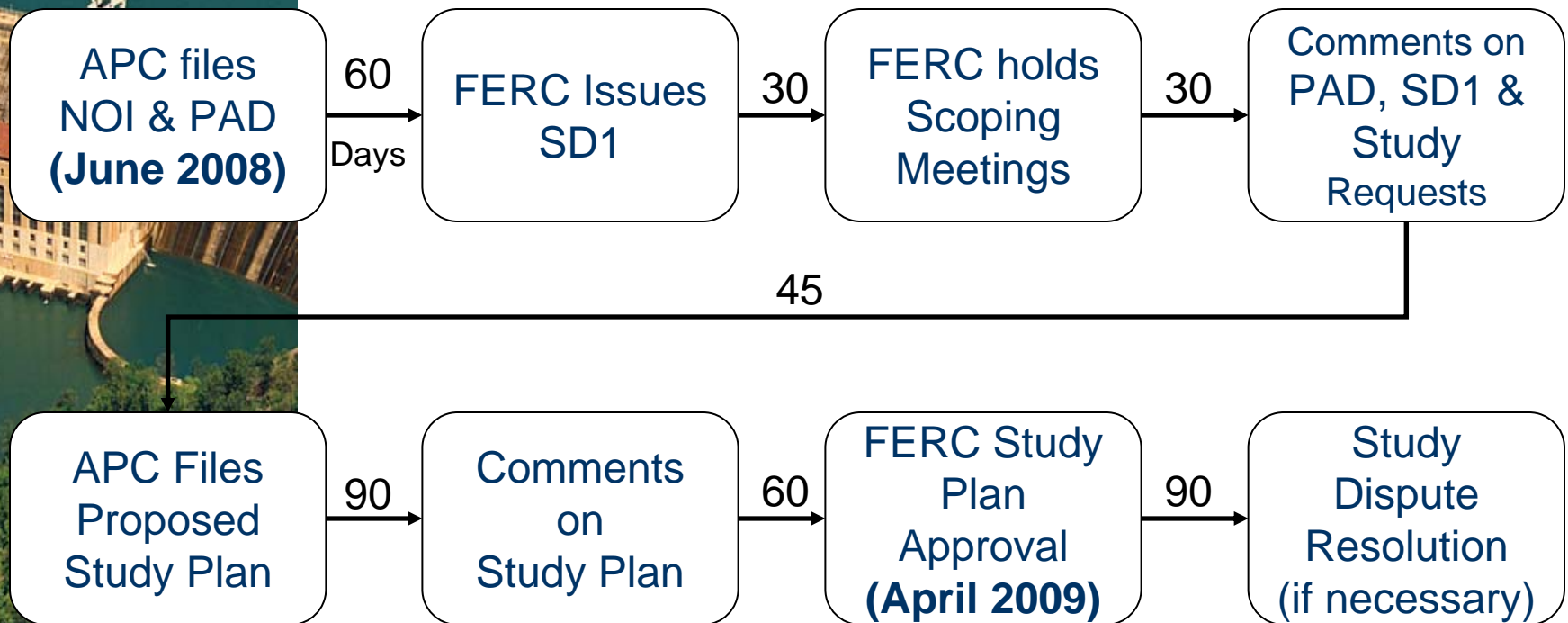
# Proposed Methodology

- Develop the Flood Frequency Analysis (FFA) to determine the statistical frequency of historical flood event.
- Develop a 100yr design flood based off the FFA considering peak timing and volume of the event.
- Develop the HEC-RAS model for Martin and for downstream.
- Develop the Project Routing model to route the flood thru the dam determining the appropriate outflow and elevation.
- Route the 100 yr design flood for the current flood control and rule curve as well as for any proposed flood control and rule curve to be limited to a reasonable number of runs.
- Evaluate the results and identify any impacts to downstream.
- Flow duration analysis for low flow scenarios.
- Hydro Budget analysis to determine the cost associated with increased winter pool elevations.

# Study Implementation Schedule

- October – December 2007: Conduct Analysis
- February 2008: Present Results to MIG 3
- June 2008: File PAD and NOI
- April 2009: FERC approval of Study plan

# Study Plan Process





# Next Steps

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- MIG membership
- Continue to work on analysis of rule curve change
- Distribute draft study plan to MIG members for review and comment



**THANK YOU!**

