

Cutler Project Stakeholder Workshop

June 25, 2019 – Riverwoods Conference Center – Logan, UT

Workshop Purposes:

- Provide stakeholders with information about the FERC scoping process and PacifiCorp's stakeholder engagement.
- Get initial study plan input from stakeholders.

Agenda:

1:00 – 1:15pm	Welcome introduction and stage setting
1:15 – 1:30pm	FERC relicensing process reminders
1:30 – 2:00pm	One step back: Summarize key outcomes of kickoff workshop and other input to date
2:00 – 3:00pm	Round robin input sessions
3:00 – 3:50pm	Breakout groups on study plans of interest
3:50 – 4:00pm	Wrap up and next steps
4:00pm	Adjourn



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Introductions



Miriam Hugentobler



River Science Institute, Inc.



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Announcements and Updates

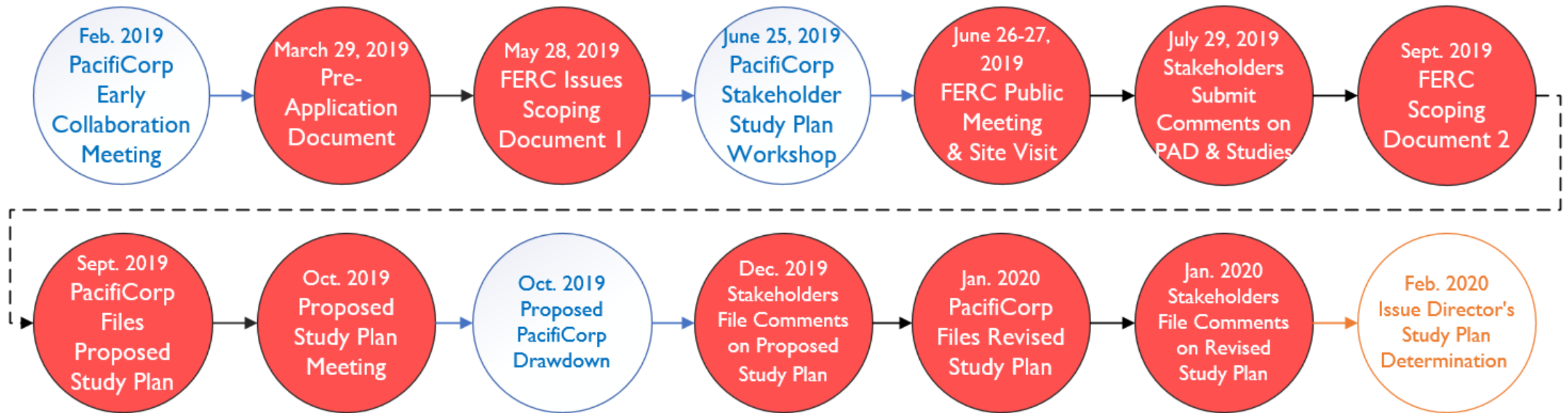
Responsible Party	Pre-Filing Milestone	Date	FERC Regulation (18 CFR Part 5)
PacifiCorp	Issue Public Notice for NOI/PAD	3/29/19	5.3(d)(2)
PacifiCorp	File NOI/PAD	3/29/19	5.5, 5.6
FERC	Tribal Consultation Meeting	4/26/19	5.7
FERC	Issue Notice of Commencement of Proceeding and Scoping Document 1	5/28/19	5.8
PacifiCorp	Stakeholder Study Plan Workshop Meeting	6/25/19	N/A
FERC	Scoping Meetings and Project Site Visit	6/26/19-6/27/19	5.8(b)(viii)
Stakeholders	File Comments on PAD/Scoping Document 1 and Study Requests	7/29/19	5.9
FERC	Issue Scoping Document 2 (if necessary)	9/12/19	5.10
PacifiCorp	File Proposed Study Plan	9/12/19	5.11(a)
PacifiCorp	Drawdown	10/15 – TBD	N/A

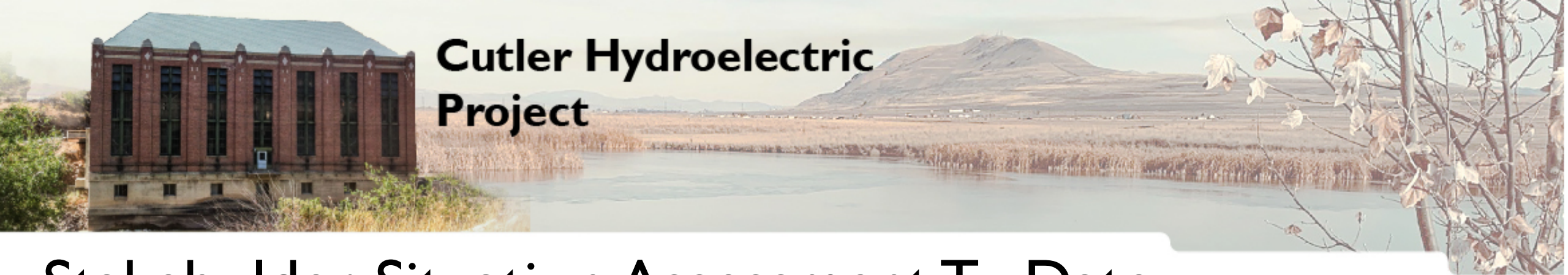
Responsible Party	Pre-Filing Milestone	Date	FERC Regulation (18 CFR Part 5)
PacifiCorp	Proposed Study Plan Meeting	10/14/19 (tentative)	5.11(e)
PacifiCorp	Drawdown	10/15 – TBD	N/A
Stakeholders	File Comments on Proposed Study Plan	12/11/19	5.12
PacifiCorp	File Revised Study Plan	1/10/20	5.13(a)
Stakeholders	File Comments on Revised Study Plan	1/25/20	5.13(b)
FERC	Issue Director's Study Plan Determination	2/11/20	5.13(c)
PacifiCorp	Complete Studies and Study Technical Reports	2020-2021	5.15



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FERC Relicensing Process Reminder





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Stakeholder Situation Assessment To Date

- Interviews conducted between February and May 2019
- 18 telephone interviews
- 2 interviews by written e-mail correspondence
- 6 NGOs
- 4 State Government Agencies
- 1 Municipal Government Agency
- 2 Federal Government Agency
- 3 Private Citizens
- 1 University
- 3 Business Entities (non-profit or for profit)



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Kickoff Workshop Summary

- February 13, 2019: Riverwoods Conference Center Logan, Utah
- Approximately 50 attendees
- Presentation on the Cutler Project and the FERC relicensing process
- Breakout sessions focused on the following topics:
 - FERC relicensing process overview and discussion
 - Project operation overview and discussion- How does Bear River system operate? Tell us more about potential removal of Wheelon and why? Is the dam safe/stable? Is spinning reserve part of proposed operations? Planning to store more water to generate more power? How much lower elevation? Will fluctuations result in more sediment? Will we study decommissioning?
 - Collaboration overview and discussion- Primarily, want to collaborate on study plans.
 - Property maps and specific property questions- Very specific comments/follow-up actions.
 - Studies overview and discussion



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Study Topics

Aquatic Resources

- Fish and freshwater mussels population assessment
- Effect of carp on habitat diversity, water quality, species variation, aquatic vegetation (i.e., Utah Lake)
- Effects and management plans for tamarisk, Russian olive, *Phragmites*, and other species

Recreation and Land Use

- Analysis of the effect of pool elevation changes on recreation site access
- SR30 widening will alter Project Boundary- no other large-scale changes proposed
- Study current levels of invasive controls – step those up
- Reservoir mapping to promote fishery recreation



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Wetland, Riparian, Shoreline

- Quantify littoral habitat, characterize emergent and aquatic vegetation, map invasive species
- Why no temporal bug or bird studies? Fluctuations during nesting could be catastrophic
- Effect on fluctuation levels on existing erosion sites or cause of additional erosion
- Effects of rate of fluctuation on shoreline stability, vegetation, and existing erosion and stabilization measures

Wildlife and Botanical

- Analyze wider operating ranges' effect on shoreline aquatic habitat
- Increased level of predators at Project



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Rare, Threatened, Endangered

- Ute ladies'-tresses orchid survey
 - Soil types of Mendon population compared to Cutler
 - Roshe Springs soil complex

Water Quality

- Logan landfill effect on water quality in reservoir
- Effects of reservoir level changes on water quality both upstream and downstream of dam, specifically TSS and rate of fluctuation
- Validation of 2013 results for N.D. of phosphorus
- Effects of hydraulic isolation and stagnation on phosphorus release/WQ Management

Cultural Resources

- Cultural Resources Inventory



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Hydraulic Modeling/Sedimentation

- Fall 2019 LIDAR Survey
 - 3-4 week process of drawing down reservoir
 - Down 4ft at Benson Marina= ~11 feet at the dam
- Characterize existing core sediment in reservoir
- Concern with phosphorus exposure during drawdowns
- Coordinate with DEQ on monitoring sites
- Changes in inflow/flooding during next 30 to 50 year license period (in regard to climate change)
- Volume/location of silt and how it affects navigation and storage capacity
- Removal of Wheelon/other dredging- what happens to silt/phosphorus?
- Would dredging improve the system?
- Core sampling for reservoir bottom composition



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Hydraulic Modeling/Sedimentation Continued

- Effects of reservoir fluctuations on roads and bridges, specifically effects of repeated wet/dry cycles of toe/earth embankment
- Sediment inputs from Preston down, can they be prevented from reaching Cutler?
- Hydraulic isolation modeling
- Shift from snow-driven hydrology to rain-driven hydrology
- Evaporation



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Study Plans Moving Forward

- Hydraulic Modeling
- Sedimentation
- Fish and Aquatic (including benthic macroinvertebrates and mussels)
- Shoreline Habitat Characterization
- Threatened and Endangered Species (Ute Ladies' Tresses Orchid)
- Cultural Resources
- Recreation
- Land Use



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Round Robin and Breakout Sessions

- 8 Study Plan annotated outline stations
- Instructions for Round Robin session
- Breakout groups on top 3 study plans of interest
- Instructions for Breakout session



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Wrap Up & Next Steps

- Review workshop outcomes
- Next PacifiCorp Steps
 - Cutlerlicense@gmail.com
 - <http://www.pacificorp.com/es/hydro/hl/cutler.html#>
- Next FERC Steps Wednesday & Thursday
 - FERC Project Tour
 - FERC Scoping Meeting