Crow Tribe Development of Hydropower at Yellowtail Afterbay
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- Background
- Conceptual Site Development
- Tentative Project Schedule
- Next Steps
Background

• The Crow Tribe Water Rights Settlement Act provides for the Tribe's exclusive right to develop and market power generation from a small hydroelectric generating facility to be installed on the Yellowtail Afterbay Dam.

• Reclamation and the Tribe entered into an agreement in March of 2015 defining roles and responsibilities of each entity through the planning/design process.

• Crow Tribe contracted with Sorenson Engineering to assist with developing the project through construction.

• Reclamation and the Tribe developed a joint project management team for project development.
Conceptual Site Development

- **Current Project Proposal**
  - Development of the existing river sluiceway to accommodate new powerhouse with a 7.2 MW Generator.
    - Would eliminate the current sluicegates
  - Large cofferdam within the river to allow for winter construction.
    - Would limit releases to Radial Gates 1 through 3 during construction
  - Overhead transmission lines to the Bighorn REA substation to the northwest of the dam (tentative).
- Key tenant of development: No changes to the quantity or timing of releases to the Bighorn River.
Conceptual Site Development
Conceptual Site Development
Proposed Powerplant Operations

• Powerplant design flow capacity of 3,500 cfs.

• Flows in excess of 3,500 cfs would be released through the radial gates.

• Flows would be transferred to a newly constructed bypass gate in the event of a shutdown.

• Powerplant designed for a forebay operating range of 3175-3192.
## Tentative Project Schedule

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<tr>
<th>Task</th>
<th>Target Date</th>
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<tbody>
<tr>
<td>25% Design Review</td>
<td>June 2016 ✔</td>
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<tr>
<td>Agency Scoping Meeting</td>
<td>August 2016 ✔</td>
</tr>
<tr>
<td>60% Design Review</td>
<td>January 2017</td>
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<tr>
<td>Public Scoping Meetings</td>
<td>January 2017</td>
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<tr>
<td>Draft Environmental Assessment</td>
<td>February 2017</td>
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<tr>
<td>90% Design Review</td>
<td>May 2017</td>
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<tr>
<td>Final Environmental Assessment</td>
<td>May 2017</td>
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<td>Design Acceptance</td>
<td>July 2017</td>
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<td>Construction NTP</td>
<td>September 2017</td>
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<td>Construction Complete</td>
<td>November 2018</td>
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Next Steps

Short term steps:
1. Review the 60 Percent Design Package
2. Plan and Schedule Public Scoping Meetings
3. Draft Environmental Assessment

Long term steps:
1. Review and Accept Designs
2. Final Environmental Assessment
3. Draft Construction Operation and Maintenance Contract
4. Construction Submittal Review
Questions