

**ALTERNATIVES/FEASIBILITY EVALUATION CHECKLIST**  
**(10% DESIGN LEVEL)**

**Failure Mode Analysis (for complex projects with multiple deficiencies or high downstream risk)**

**Feasibility Report**

- Evaluation of alternatives; advantages/disadvantages
  - Report on recent data collected
  - Feasibility level engineering analysis of alternatives
    - Calculations and assumptions
  - Impact of implementing an alternative on the project as a whole (i.e., will modifying one component of a project have impact on another)?
  - Rough cost of each alternative for design and for construction
  - Identification of additional data needed to further define alternatives
  - Conceptual drawings of each alternative
  - Justification for preferred alternative(s)
- For Preferred Alternative(s)
  - Proposed schedule for design, regulatory review and construction
  - Approximate quantity and type of materials needed
  - Location of processed filter/drain materials (sands and gravels)
  - Issues with onsite processing of material, even if feasible.
  - Identification of components of the project with potential long lead time
  - Rough plan for diversion of inflow and reservoir operation before and during construction
  - Engineers Opinion of Probable Construction Cost

**10% Design Review Meeting**

**(Following review of feasibility report by owner and MTDSP)**

- Discussion of alternatives and justification for preferred alternative
- Funding deadlines if any (Grants, appropriations from legislature, etc.)
- Additional data needs and schedule for collection
- Schedule and uncertainties with potential to impact schedule
- Analysis expectations for *Preliminary Design Report*
- Expectations for future design phases
  - Meetings
  - Submittals
- Submittal format for MTDSP and Dam Owner – electronic or hardcopy