



Bader, Donald &lt;dbader@usbr.gov&gt;

**Re: Shasta Dam March 14th PMT Agenda (DRAFT - Pre-Decisional - Do Not Distribute)**

1 message

Arthur, Casandra &lt;carthur@usbr.gov&gt;

Thu, Mar 14, 2019 at 10:53 AM

To: Thomas Luebke <tluebke@usbr.gov>, Richard LaFond <rlafond@usbr.gov>, Scott Taylor <staylor@usbr.gov>, RICHARD WELSH <rwelsh@usbr.gov>, Mark Morberg <mmorberg@usbr.gov>, Leslie Stone <lstone@usbr.gov>, Ernest Hall <ehall@usbr.gov>, Alicia Forsythe <aforsythe@usbr.gov>, Robert Pike <rpik@usbr.gov>, Donald Bader <dbader@usbr.gov>, KEVIN JACOBS <kjacobs@usbr.gov>, Karen Knight <kknight@usbr.gov>, Brian Becker <bbecker@usbr.gov>, Katherine Strozinski <kstrozinski@usbr.gov>, Nadira Kabir <nkabir@usbr.gov>  
Cc: Miguel Rocha <mrocha@usbr.gov>, Roger Worsley <jworsley@usbr.gov>, Adam Toothman <atoothman@usbr.gov>

All,  
To expand on my previous email, please note the purpose of the presentation materials is to provide a summary of the discussions held at the team level this week to Dam Safety, MP-Region and TSC Management. We are not asking for any decisions on the presented materials to be made at the meeting today and expect further internal discussions within the individual offices will be needed prior to making any decisions.

Please note the presentation has been attached again with the word "Draft" added to the slides.

Thank you,  
- Casey

On Thu, Mar 14, 2019 at 10:03 AM Arthur, Casandra <carthur@usbr.gov> wrote:

Hello All,  
Please see the attached presentation slides for the meeting this afternoon at 2:00 pm PST.

TSC/Denver Participants can meet in Room 1332 (Ansel Adams).

Conference Call Information:

(b) (5)  
(b) (5)

Thank you,  
- Casey

*Casey Arthur*

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Bureau of Reclamation  
Office: 530-892-6202 | Cell: 530-685-0889  
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Email: [carthur@usbr.gov](mailto:carthur@usbr.gov)

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*Casey Arthur*

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 **SDREP & Dam Safety Brief 031419 DRAFT (2).pptx**  
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# **Shasta Dam Baseline Issue Evaluation & SDREP**

**Mid-Pacific Region/Dam Safety/Technical  
Service Center**

**March 14, 2019**

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**Pre-Decisional For Discussion**  
**Purposes ONLY**

# Assumptions

- 2 Separate Projects
  - Issue Evaluation for the existing Shasta Dam
    - Update Seismic Loading
    - Update Hydrologic Loading
    - Structural Analysis (LWD & Concrete Dam)
    - Risk Analysis
  - SDREP
    - Continuing with Project Activities
    - Dam Raise Design on Hold until Seismic Loading is Updated

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# Issue Evaluation Costs

Project Management	\$	71,200
Concrete Dam	\$	1,011,379
Left Wing Dam	\$	462,295
Hydrology	\$	485,520
Seismic Study	\$	1,364,400
Total	\$	3,394,794

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# SDREP Costs

MP Labor	\$	1,981,655
Supplemental EIS (contract)	\$	200,000
Power Model (Plexos contract)	\$	80,548
GEO/DRILL	\$	615,000
Water/Power Modeling SA	\$	59,854
Facility Relocation Plan /Suitability Study (USFS)	\$	400,000
TSC Wind Down Costs	\$	500,000
Core Sample Testing	\$	148,045
Hydraulic Modeling Report	\$	24,000
	Total \$	4,009,102

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# Major Milestones

- **SDREP ROD – SEP 2019**
- **Seismic Loadings Final Report – SEP 2019**
- **SDREP Construction Contract Award – DEC 2019**
- **Risk Analysis – JAN 2020**
- **DSAT – MAR 2020**

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# Possible Outcomes

- **No Dam Safety Issue – SDREP Continues**
- **Joint Project**
- **Dam Safety Project**

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# Joint Project or Dam Safety Project Timeline

- **Issue Evaluation - (est 2 yrs) MAR 2022**
- **Corrective Action Study - (est 4 years) MAR 2026**
  - **Appraisal Study – (est 2 yrs)**
  - **Feasibility Study – (est 2 yrs)**
- **Final Design – (est 2 yrs) MAR 2028**
- **Dam Construction Begins – DEC 2028**

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# Next Steps

- **Management Approval**
- **Deputy Commissioner Operations Briefing**
- **Develop TSC Project Management Plan**
- **Decision Memorandum**

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