

**B.F. Sisk Dam Safety of Dam
Modification Project
Environmental Impact
Statement / Environmental Impact
Report**

Appendix D2: DWR Consistency Determination Forms

This page left blank intentionally.

DWR GHG Emissions Reduction Plan Consistency Determination Form For Projects Using Contractors or Other Outside Labor

Print Form



California Department of Water Resources
1416 9th Street
Sacramento, CA
95814

dwrcclimatechange.water.ca.gov
www.water.ca.gov/climatechange

This form is to be used by DWR project managers to document a DWR CEQA project's consistency with the DWR Greenhouse Gas Emissions Reduction Plan. This form is to be used only when DWR is the Lead Agency and when contractors or outside labor and equipment are used to implement the project.

Additional Guidance on filling out this form can be found at:
dwrcclimatechange.water.ca.gov/guidance_resources.cfm

The DWR Greenhouse Gas Emissions Reduction Plan can be accessed at:
<http://www.water.ca.gov/climatechange/CAP.cfm>

Project Name:	B.F. Sisk Dam SOD Modification Project, Alternative 2
Environmental Document type:	Draft EIS/EIR
Manager's Name:	
Manager's email:	
Division:	
Office, Branch, or Field Division	

Short Project Description:

The Reservoir Restriction Alternative would limit the storage of the reservoir by restricting the maximum water height. If the reservoir is maintained at a lower operating level, there is a lower probability of failure given an increase in allowable dam slumping that could occur in a seismic event before overtopping and a reduction of pressure on the embankment in areas where cracking could occur. This alternative may also reduce the consequences of dam failure by eliminating or reducing the total amount of possible floodwater that could be released from the dam during a seismicity-induced failure event. The reduction in total storage capacity in San Luis Reservoir would adversely impact water supply deliveries to CVP and SWP contractors. This reduction in water supply would not meet one of the three objectives of the Proposed Action. However, the Reservoir Restriction Alternative is analyzed in this EIS/EIR as a non-structural alternative to prevent destabilization of the dam embankment, ensure dam stability, and reduce safety concerns.

Project GHG Emissions Summary

Total Construction Emissions mtCO₂e

Maximum Annual Construction Emissions mtCO₂e

All other emissions from the project not accounted for above will occur as ongoing operational, maintenance, or business activity emissions and therefore have already been accounted for and analyzed in the GGERP.

Extraordinary Construction Project Determination

Do total project construction emissions exceed 25,000 mtCO₂e for the entire construction phase or exceed 12,500 mtCO₂e in any single year of construction.

- Yes - Addition analysis is required, consult with C4
- No - Additional analysis not required

Project GHG Reduction Plan Checklist

All Project Level GHG Emissions Reduction Measures have been incorporated into the design or implementation plan for the project. ([Project Level GHG Emissions Reduction Measures](#))

Or

All feasible Project Level GHG Emissions Reduction Measures have been incorporated into the design or implementation plan for the project and Measures not incorporated have been listed and determined not to apply to the proposed project (include as an attachment)

Project does not conflict with any of the Specific Action GHG Emissions Reduction Measures ([Specific Action GHG Emissions Reduction Measures](#))

Would implementation of the project result in additional energy demands on the SWP system of 15 GWh/yr or greater?

Yes No

If you answered Yes, attach a Renewable Power Procurement Plan update approval letter from the DWR SWP Power and Risk Office.

Is there substantial evidence that the effects of the proposed project may be cumulatively considerable notwithstanding the proposed project's compliance with the requirements of the DWR GHG Reduction Plan?

Yes No

If you answered Yes, the project is not eligible for streamlined analysis of GHG emissions using the DWR GHG Emissions Reduction Plan. (See CEQA Guidelines, section 15183.5, subdivision (b)(2).)

Based on the information provided above and information provided in associated environmental documentation completed pursuant to the above referenced project, the DWR CEQA Climate Change Committee has determined that the proposed project is consistent with the DWR Greenhouse Gas Reduction Plan and the greenhouse gases emitted by the project are covered by the plan's analysis.

**Project Manager
Signature:**

Date:

**C4 Approval
Signature:**

Date:

Attachments:

- GHG Emissions Inventory
- List and Explanation of excluded Project Level GHG Emissions Reduction Measures
- Plan to update Renewable Energy Procurement Plan from DWR SWP Power and Risk Office

DWR GHG Emissions Reduction Plan Consistency Determination Form For Projects Using Contractors or Other Outside Labor

Print Form



California Department of Water Resources
1416 9th Street
Sacramento, CA
95814

dwrcclimatechange.water.ca.gov
www.water.ca.gov/climatechange

This form is to be used by DWR project managers to document a DWR CEQA project's consistency with the DWR Greenhouse Gas Emissions Reduction Plan. This form is to be used only when DWR is the Lead Agency and when contractors or outside labor and equipment are used to implement the project.

Additional Guidance on filling out this form can be found at:
dwrcclimatechange.water.ca.gov/guidance_resources.cfm

The DWR Greenhouse Gas Emissions Reduction Plan can be accessed at:
<http://www.water.ca.gov/climatechange/CAP.cfm>

Project Name:	B.F. Sisk Dam SOD Modification Project, Alt. 3, No Shear Key
Environmental Document type:	Draft EIS/EIR
Manager's Name:	
Manager's email:	
Division:	
Office, Branch, or Field Division	

Short Project Description:

The Crest Raise Alternative would reduce safety concerns for the downstream public by reducing the likelihood of overtopping if slumping were to occur during a seismic event by increasing dam height. This alternative would also address dam failure due to earthquake-induced cracking. This measure maintains adequate water supply deliveries to State and Federal contractors through the CVP and SWP because it allows the reservoir to operate at its current maximum storage elevation. The cost of the Crest Raise Alternative is likely to be high given the major construction action required. The construction actions required by the Crest Raise Alternative would also generate adverse environmental impacts.

As part of this alternative, the dam crest would be raised by adding additional embankment material (see Figure 2-2) in conjunction with the addition of stability berms and downstream crack filters. Construction of foundation shear keys at slopewash and north valley sections, and a filter around the existing spillway conduit are also included in this alternative.

Project GHG Emissions Summary

Total Construction Emissions	<input type="text" value="145.575"/>	mtCO ₂ e
Maximum Annual Construction Emissions	<input type="text" value="18,437"/>	mtCO ₂ e

All other emissions from the project not accounted for above will occur as ongoing operational, maintenance, or business activity emissions and therefore have already been accounted for and analyzed in the GGERP.

Extraordinary Construction Project Determination

Do total project construction emissions exceed 25,000 mtCO₂e for the entire construction phase or exceed 12,500 mtCO₂e in any single year of construction.

- Yes - Addition analysis is required, consult with C4
 No - Additional analysis not required

Project GHG Reduction Plan Checklist

All Project Level GHG Emissions Reduction Measures have been incorporated into the design or implementation plan for the project. ([Project Level GHG Emissions Reduction Measures](#))

Or

All feasible Project Level GHG Emissions Reduction Measures have been incorporated into the design or implementation plan for the project and Measures not incorporated have been listed and determined not to apply to the proposed project (include as an attachment)

Project does not conflict with any of the Specific Action GHG Emissions Reduction Measures ([Specific Action GHG Emissions Reduction Measures](#))

Would implementation of the project result in additional energy demands on the SWP system of 15 GWh/yr or greater?

Yes No

If you answered Yes, attach a Renewable Power Procurement Plan update approval letter from the DWR SWP Power and Risk Office.

Is there substantial evidence that the effects of the proposed project may be cumulatively considerable notwithstanding the proposed project's compliance with the requirements of the DWR GHG Reduction Plan?

Yes No

If you answered Yes, the project is not eligible for streamlined analysis of GHG emissions using the DWR GHG Emissions Reduction Plan. (See CEQA Guidelines, section 15183.5, subdivision (b)(2).)

Based on the information provided above and information provided in associated environmental documentation completed pursuant to the above referenced project, the DWR CEQA Climate Change Committee has determined that the proposed project is consistent with the DWR Greenhouse Gas Reduction Plan and the greenhouse gases emitted by the project are covered by the plan's analysis.

**Project Manager
Signature:**

Date:

**C4 Approval
Signature:**

Date:

Attachments:

- GHG Emissions Inventory
- List and Explanation of excluded Project Level GHG Emissions Reduction Measures
- Plan to update Renewable Energy Procurement Plan from DWR SWP Power and Risk Office

DWR GHG Emissions Reduction Plan Consistency Determination Form For Projects Using Contractors or Other Outside Labor

Print Form



California Department of Water Resources
1416 9th Street
Sacramento, CA
95814

dwrclimatechange.water.ca.gov
www.water.ca.gov/climatechange

This form is to be used by DWR project managers to document a DWR CEQA project's consistency with the DWR Greenhouse Gas Emissions Reduction Plan. This form is to be used only when DWR is the Lead Agency and when contractors or outside labor and equipment are used to implement the project.

Additional Guidance on filling out this form can be found at:
dwrclimatechange.water.ca.gov/guidance_resources.cfm

The DWR Greenhouse Gas Emissions Reduction Plan can be accessed at:
<http://www.water.ca.gov/climatechange/CAP.cfm>

Project Name:	B.F. Sisk Dam SOD Modification Project, Alt. 3, Shear Key
Environmental Document type:	Draft EIS/EIR
Manager's Name:	
Manager's email:	
Division:	
Office, Branch, or Field Division	

Short Project Description:

The Crest Raise Alternative would reduce safety concerns for the downstream public by reducing the likelihood of overtopping if slumping were to occur during a seismic event by increasing dam height. This alternative would also address dam failure due to earthquake-induced cracking. This measure maintains adequate water supply deliveries to State and Federal contractors through the CVP and SWP because it allows the reservoir to operate at its current maximum storage elevation. The cost of the Crest Raise Alternative is likely to be high given the major construction action required. The construction actions required by the Crest Raise Alternative would also generate adverse environmental impacts.

As part of this alternative, the dam crest would be raised by adding additional embankment material (see Figure 2-2) in conjunction with the addition of stability berms and downstream crack filters. Construction of foundation shear keys at slopewash and north valley sections, and a filter around the existing spillway conduit are also included in this alternative. In addition to these modifications, development of a foundation shear key at the south valley section (SVS) is under consideration as an optional additional feature of this alternative.

Project GHG Emissions Summary

Total Construction Emissions mtCO₂e

Maximum Annual Construction Emissions mtCO₂e

All other emissions from the project not accounted for above will occur as ongoing operational, maintenance, or business activity emissions and therefore have already been accounted for and analyzed in the GGERP.

Extraordinary Construction Project Determination

Do total project construction emissions exceed 25,000 mtCO₂e for the entire construction phase or exceed 12,500 mtCO₂e in any single year of construction.

- Yes - Addition analysis is required, consult with C4
 No - Additional analysis not required

Project GHG Reduction Plan Checklist

All Project Level GHG Emissions Reduction Measures have been incorporated into the design or implementation plan for the project. ([Project Level GHG Emissions Reduction Measures](#))

Or

All feasible Project Level GHG Emissions Reduction Measures have been incorporated into the design or implementation plan for the project and Measures not incorporated have been listed and determined not to apply to the proposed project (include as an attachment)

Project does not conflict with any of the Specific Action GHG Emissions Reduction Measures ([Specific Action GHG Emissions Reduction Measures](#))

Would implementation of the project result in additional energy demands on the SWP system of 15 GWh/yr or greater?

Yes No

If you answered Yes, attach a Renewable Power Procurement Plan update approval letter from the DWR SWP Power and Risk Office.

Is there substantial evidence that the effects of the proposed project may be cumulatively considerable notwithstanding the proposed project's compliance with the requirements of the DWR GHG Reduction Plan?

Yes No

If you answered Yes, the project is not eligible for streamlined analysis of GHG emissions using the DWR GHG Emissions Reduction Plan. (See CEQA Guidelines, section 15183.5, subdivision (b)(2).)

Based on the information provided above and information provided in associated environmental documentation completed pursuant to the above referenced project, the DWR CEQA Climate Change Committee has determined that the proposed project is consistent with the DWR Greenhouse Gas Reduction Plan and the greenhouse gases emitted by the project are covered by the plan's analysis.

**Project Manager
Signature:**

Date:

**C4 Approval
Signature:**

Date:

Attachments:

- GHG Emissions Inventory
- List and Explanation of excluded Project Level GHG Emissions Reduction Measures
- Plan to update Renewable Energy Procurement Plan from DWR SWP Power and Risk Office