

File No. 130032

Committee Item No. 10

Board Item No. _____

COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Committee: Budget and Finance Committee

Date 02/13/2013

Board of Supervisors Meeting

Date _____

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Completed by: Victor Young Date February 8, 2013

Completed by: Victor Young Date _____



San Francisco
Water Power Sewer
 Services of the San Francisco Public Utilities Commission

525 Golden Gate Avenue, 13th Floor
 San Francisco, CA 94102

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January 22, 2013

Angela Calvillo
 Clerk of the Board of Supervisors
 1 Dr. Carlton B. Goodlett Place
 City Hall, Room 244
 San Francisco, CA 94102

RECEIVED
 BOARD OF SUPERVISORS
 SAN FRANCISCO
 2013 JAN 24 PM 4:53

**Subject: WSIP Program Management Reserve
 Release of Reserve, \$117,000,000**

Dear Ms. Calvillo:

I would like to request your assistance to have calendared the release of reserve of \$117,000,000 from WSIP's Program Management Reserve Project CUW395.

The release of the reserved funding from the Program Management Reserve Project is needed to fund additional costs on the Calaveras Dam Replacement Project (CDRP) as a result of the unexpected geologic conditions observed during excavation.

The \$117,000,000 will allow the SFPUC to continue the construction work on the Calaveras Dam Replacement Project and make project construction changes to address the unexpected geological conditions.

Sincerely,

Harlan L. Kelly, Jr.
 General Manager

Edwin M. Lee
 Mayor

Art Torres
 President

Vince Courtney
 Vice President

Ann Moller Caen
 Commissioner

Francesca Viotor
 Commissioner

Anson Moran
 Commissioner

Harlan L. Kelly, Jr.
 General Manager

130032

Item 10
File 13-0032

Department:
Public Utilities Commission (PUC)

EXECUTIVE SUMMARY

Legislative Objective

- Request to release \$117,000,000 on Budget and Finance Committee reserve for the Public Utilities Commission (PUC) to fund increased costs of the Calaveras Dam Replacement Project (CDRP), a component of the PUC Water System Improvement Project (WSIP).

Key Points

- On November 21, 2011, the Board of Supervisors approved the creation of a WSIP Program Management Reserve (File 11-1031), to provide funds for any WSIP project that exceeds the June 2011 Revised WSIP project budgets. Funds from the WSIP Program Management Reserve can only be released after the PUC submits detailed expenditure plans to the Budget and Finance Committee. The current balance of the WSIP Program Management Reserve is \$117,103,288.
- As a result of CDRP landslide risks identified in 2012, the PUC needs to modify construction plans for the CDRP, completion of which will require \$117,000,000 in WSIP Program Management Reserve funding. As a result of the CDRP changes, the estimated completion date of WSIP has been delayed by 25 months from July 29, 2016 to August 31, 2018.
- When the PUC Commission approved the use of the \$117,000,000 WSIP Program Reserve Fund for the new CDRP construction costs, it also approved ten recommendations from the Bay Area Water Supply & Conservation Agency (BAWSCA), which represents PUC's wholesale customers, regarding changes to the CDRP budget and project schedule.
- The requested \$117,000,000 release of reserve does not include management or engineering costs, potential environmental mitigation costs, or additional contingency funding for the remainder of the CDRP construction work.

Fiscal Impacts

- Water Revenue Bond proceeds previously approved by the Board of Supervisors are the source of funds for the \$117,000,000 release of reserves. These Water Revenue Bonds are repaid from water rate revenues paid by the PUC's water customers, including San Francisco water ratepayers and the PUC's wholesale customers.
- The requested \$117,000,000 would be combined with \$6,934,303 in remaining CDRP contingency funds, totaling \$123,934,303, in order to fund a total of \$123,934,303 in construction costs, including (a) pending change orders of \$1,037,000 under review by the Controller; (b) potential change orders of \$3,391,223 currently under negotiation between the PUC and its contractors; and (c) new or increased project costs of \$119,506,080.
- If the Board of Supervisors approves the PUC's requested \$117,000,000 release of reserves, the PUC's WSIP Program Management Reserve would have a remaining balance of \$103,288. The PUC proposes to replenish the WSIP Program Management Reserve through savings realized from (a) lower construction bids on active projects; (b) closeout of projects with remaining balances; (c) reduced contingency funding for active projects that are near completion and have a low risk of additional change orders; and (d) finding WSIP-wide soft (management) savings.

Recommendations

- Request that the PUC report to the Budget and Finance Committee of the Board of Supervisors by May 31, 2013 on the PUC's responses to BAWSCA's ten recommendations, as discussed in the Policy Consideration section below.
- Approve the requested release of reserved funds.

MANDATE STATEMENT / BACKGROUND**Mandate Statement**

Section 3.3 of the City's Administrative Code provides that the committee of the Board of Supervisors that has jurisdiction over the budget (i.e., Budget and Finance Committee) may place requested expenditures on reserve, which are then subject to release by the Budget and Finance Committee.

Background

The San Francisco Public Utilities Commission (PUC)'s Water System Improvement Program (WSIP) consists of 81 projects organized into 11 project regions to repair, replace, and seismically upgrade the Hetch Hetchy water system's aging pipelines, tunnels, pumps, tanks, reservoirs and dams. PUC commenced the WSIP in FY 2002-03 and was scheduled to be completed by July 29, 2016. The approved WSIP project budget is \$4,585,556,260. WSIP is funded with PUC Water Revenue Bonds, which will be repaid from water rate revenues paid by PUC water customers.

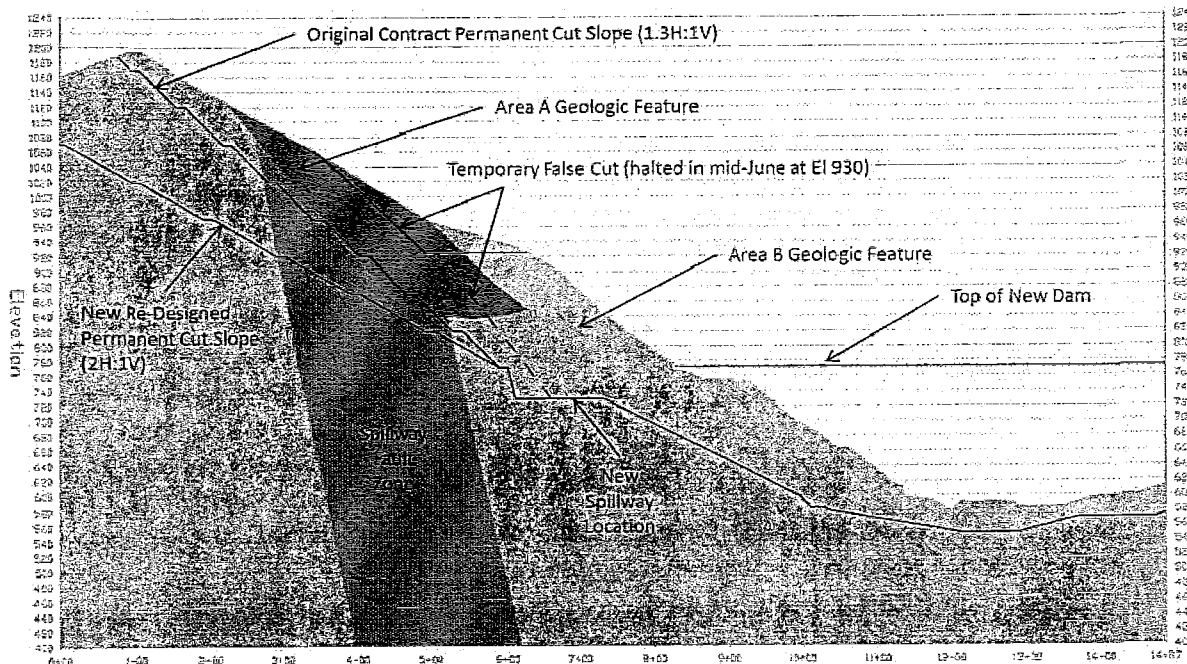
On November 21, 2011, the Board of Supervisors approved the creation of a WSIP Program Management Reserve, with an initial appropriation of \$144,459,649 from then-existing WSIP project surpluses (File 11-1031). The purpose of the WSIP Program Management Reserve is to provide funds for any WSIP project costs that exceed their individual June 2011 Revised WSIP project budgets. Funds from the WSIP Program Management Reserve can only be released by the Budget and Finance Committee, after the PUC submits detailed expenditure plans to the Budget and Finance Committee. To date, there has been one withdrawal from the Program Management Reserve of \$27,356,361 (File 12-1013). Therefore, the remaining balance of the Program Management Reserve is \$117,103,288.

Studies conducted by the PUC in 1998 indicated that the Calaveras Dam, located in Alameda County, which is part of the PUC's water system, did not meet current safety standards for large earthquakes. The Calaveras Dam Replacement Project (CDRP), the largest of the 81 separate capital improvement projects included in WSIP, would meet the seismic safety standards. The objective of the CDRP is to replace the existing dam with a new seismically reliable dam and facilities, including a 210-foot-high earth and rock dam, spillway, stilling basin, and intake tower.

Observation Hill is located on the west side of the Calaveras replacement dam and forms the left dam abutment. In June 2012, excavation on Observation Hill revealed a previously undiscovered landslide hazard ("Area A Geologic Feature" in Figure 1, below). This landslide hazard posed a threat to the construction, and if not addressed, would impact the stability of the new dam and spillway. Additional geotechnical investigations revealed a second possible landslide feature ("Area B Geologic Feature" in Figure 1). To remedy the landslide hazard, the PUC proposed to change the angle of the new slope, from the original slope ("Original Contract Permanent Cut Slope" in Figure 1) to a flatter slope ("New Re-Designed Permanent Cut Slope" in Figure 1). Additional project changes would be needed to address the Area B landslide threat. These discoveries and remedies require significant CDRP construction project modifications, summarized in Attachment I. These changes will also delay completion of the CDRP

construction from 2015 to 2017, and total closeout of WSIP will be delayed by 25 months, from July 2016 to August 2018. A summary of the CDRP construction schedule changes are provided in Attachment II. The PUC estimates that the cost of the CDRP construction modifications will total \$123,934,303.

Figure 1. Schematic Cross-Section of Observation Hill



Source: PUC.

At the PUC Commission meeting on January 22, 2013, the PUC formally requested re-allocating \$117,000,000 from the WSIP Program Management Reserve funds toward the \$123,934,303 increased costs of the CDRP. The balance of \$6,934,303 would come from existing CDRP contingency funds.

At the January 22, 2013 PUC Commission meeting, the PUC Commission also heard concerns from the Bay Area Water Supply and Conservation Agency (BAWSCA).¹ The PUC had previously notified BAWSCA of the needed CDRP construction modifications and the resulting delays in order to meet its legal requirement to notify the PUC's Bay Area Wholesale Customers. In a January 16, 2013 letter, BAWSCA expressed concerns to the PUC Commission regarding the proposed budget and the impact on WSIP's overall schedule. In particular, BAWSCA expressed concerns that (a) the PUC may need to identify additional WSIP funding for future contingencies through achieving savings elsewhere in the overall WSIP; and (b) that delays in completing the CDRP would potentially affect drought year water supply reliability for the PUC's water customers. In order to address these concerns, BAWSCA made ten recommendations regarding WSIP scope and budget issues and WSIP schedule issues.

¹ BAWSCA represents the interests of 24 cities and water districts, and two private utilities, that purchase water wholesale from the PUC.

With regard to WSIP scope and budget issues, BAWSCA recommended that the PUC direct staff to:

1. Immediately implement a cost saving plan aimed at slowing the expenditure of contingency funds and soft costs so that all available funds can be used for completing the WSIP within the approved budget.
2. Re-evaluate the forecast cost at completion for individual projects and for the WSIP as a whole.
3. Identify potential project cost reductions or savings to fund the remaining estimated costs, and identify any budget shortfall.
4. Provide this information as part of the Notice of Change that is anticipated following the final negotiation of the Calaveras Project change order but no later than the Commission's March 19, 2013 meeting.
5. Report back to the Commission by February 26, 2013 on the progress made on each of these recommended actions.

With regard to WSIP schedule issues, BAWSCA recommended that the Commission direct PUC staff to:

1. Review and present schedules for all remaining WSIP projects.
2. Review and present schedules for completing other activities related to achieving the Levels of Service goal.
3. Present a plan to the Commission for keeping all projects and activities except the Calaveras Project on schedule for completion by the end of July, 2016.
4. Prepare and implement a plan to terminate all unnecessary WSIP organizational components by July 31, 2016, except for the Calaveras Dam Replacement Project.
5. Provide the above information to the Commission as part of the second Notice of Change, but not later than March 19, 2013.

At the January 22, 2013, PUC Commission meeting, the Commission incorporated these ten BAWSCA recommendations into its approval of the subject requested release of reserves of \$117,000,000 from the WSIP Program Management Reserve, for the increased construction costs resulting from the needed CDRP modifications.

DETAILS OF PROPOSED LEGISLATION

The PUC is now requesting the release of the \$117,000,000 from the WSIP Program Management Reserve, which is currently on Budget and Finance Committee reserve. The PUC requires this funding due to increased construction costs on the Calaveras Dam Replacement Project (CDRP), resulting from project modifications needed to address previously undiscovered landslide hazards, as described in the Background section, above. The reserved funds will provide CDRP construction funding through 2017. However, the requested \$117,000,000 release of reserve does not include management or engineering costs, potential environmental mitigation costs, or additional contingency funding for the remainder of the CDRP construction work (see below for additional information).

FISCAL IMPACT

Water Revenue Bond proceeds previously approved by the Board of Supervisors are the source of funds for the \$117,000,000 release of reserves. These Water Revenue Bonds are repaid from water rate revenues paid by the PUC's water customers, including San Francisco water ratepayers and the PUC's wholesale customers, who are represented by the Bay Area Water Supply and Conservation Agency (BAWSCA). Adding the requested \$117,000,000 to the previously approved CDRP budget of \$415,637,844 (including the remaining contingency not used to date of \$6,934,303) would result in a revised CDRP budget totaling \$532,637,844. The increased construction costs for the CDRP would be absorbed within the existing overall WSIP budget, which the PUC currently forecasts will remain at \$4,585,556,260.

A summary of the sources and uses of the released funds is shown in Table 1, below.

Table 1. Summary of Sources and Uses for CDRP Changes

Sources	Amount
Requested release of reserves from WSIP Program Management Reserve	\$117,000,000
Remaining contingency not used to date, which has been previously included in the approved CDRP Budget of \$415,637,844	6,934,303
Total Sources	\$123,934,303
Uses	
Pending change orders approved by the PUC that have yet to be authorized by the City Controller's Office	\$1,037,000
Potential change orders still being negotiated with the Contractor	3,391,223
Other project costs (additional detail in Table 2, below)	119,506,080
Total Uses	\$123,934,303

Source: PUC

A detailed breakdown of the \$123,934,303 in uses is provided in Table 2, below.

Table 2. Detailed Breakdown of \$123,934,303 in Total Uses

Trend Item	Description	Amount
Pending change orders approved by the PUC that have yet to be authorized by the City Controller's Office		\$1,037,000
Potential change orders still being negotiated with the Contractor		3,391,223
Other Project Costs		119,506,080
Differing site conditions on the Left Abutment Excavation	Additional excavation and disposal quantities for the left abutment in Observation Hill	\$110,000,000
Foundation Grouting Quantity Overrun	Foundation drilling and grouting quantity overrun	4,500,000
Remnants of Area B	Additional Excavation to remove remnants of Area B	2,400,000
Disposal of Overrun Excavation Volume	Additional excavation volume for the dam foundation and embankment, and spillway due to original grade discrepancy	572,334
Additional Work	Changes to concrete placement temperature, new wet curing of concrete, additional anchoring, and new zone 5 criteria	410,000
Differing site conditions -Blasting of Temblor Overburden Borrow Area-B	Blasting of temblor overburden at Borrow Area B	400,000
Increase Bid item 5.2 - Grouting Setup	Increase Bid Item 5.2 for the setup for nipple installation	250,000
Additional best management practices - Flextera	Additional best management practices – Flextera bonding agent	175,000
Adit Alignment, Existing vs. New	Alignment Issue, existing vs. new adits	150,000
Bathymetric Surveying on reservoir	Perform bathymetric survey on the reservoir	145,000
Remove fill material west 19.5' conduit	Additional excavation west of the 19.5' outlet conduit	120,000
2012 Shutdown Dewatering of 72" Outlet	Initial dewater of 72" outlet during shutdown, and continue dewatering to control infiltration	100,000
Excavation upstream of Right Abutment below contour	Excavate and dispose of additional material, and relocation of dewatering infrastructure	100,000
Dam Crest Turn Around Area	Changes to cul-de-sac detail	100,000
Algae Bloom in Reservoir	Treatment of algae in reservoir	75,000
Additional Field office Equipment	Purchase of additional field office equipment such as projector and screen	25,000
Cleaning of 20' x 200' strip	Cleaning of 20' X 200' strip of foundation	25,000
Intake Tower, 6000 psi Concrete	Difference between 6000 and 4000 psi concrete	25,000
Discontinuities inside Existing 72" Pipeline	Repair of discontinuities inside the existing 72" outlet pipe during 2012 shutdown	25,000
Fixed Cone Valve Testing	Perform additional fixed cone valve testing prior to refurbishment	25,000
Double Blocking Platform at Intake	Install double-blocking platform at the existing intake	15,000
Repair Potassium Permanganate sample line	Plugging the leak on the Potassium Permanganate line	5,000
Adjustment to round down the total request to \$117,000,000		(136,254)
Total Uses		\$123,934,303

If the Board of Supervisors approves the PUC's requested \$117,000,000 release of reserves, the PUC's WSIP Program Management Reserve, which presently has a balance of \$117,103,288, would have a remaining balance of only \$103,288. A balance of \$103,288 in the WSIP Program Management Reserve for the entire \$4,585,556,260 WSIP budget is inadequate, particularly considering the potential for unforeseen future costs deriving from the following factors:

- Five WSIP projects are still in the pre-construction phase, with a total value of \$317,000,000.
- Seventeen projects totaling \$2,593,000,000 are still undergoing construction.
- The requested release of reserves would not provide any funding for (a) management and engineering (soft) costs; (b) any unforeseen CDRP environmental mitigation costs; or (c) any construction contingency required for the 25 additional months that are now required to complete the CDRP and the entire WSIP.

According to PUC Budget Director Mr. Carlos Jacobo, the PUC will be replenishing the WSIP Program Management Reserve through savings realized from (a) lower construction bids on other active WSIP projects; (b) closeout of projects with remaining balances; (c) reduction of the construction contingency amounts on other WSIP projects that are near completion and have a low risk of additional change orders; and (d) reduction of soft (management) costs on the overall WSIP. The PUC is currently developing an estimate of the amount of savings that can be reasonably realized through these four sources. According to WSIP Director Ms. Julie Labonte, the PUC will provide an update on the total estimated savings to the PUC Commission on March 19, 2013, and will provide a formal response to the PUC pertaining to the ten BAWSCA recommendations after the PUC Commission's April 23 meeting.

POLICY CONSIDERATION

The PUC Should Report Its Responses to the Ten BAWSCA Recommendations to the Budget and Finance Committee of the Board of Supervisors

As is noted in the Background Section above, the PUC Commission approved the \$117,000,000 release of reserve, and incorporated 10 recommendations made by BAWSCA to the PUC Commission. These recommendations include requiring the PUC to report on cost saving measures that may be necessary to ensure that the PUC does not exceed the total WSIP budget of \$4,585,556,260.

Because the PUC Commission adopted the BAWSCA recommendations when it approved the PUC's requested release of \$117,000,000 reserves, and because those recommendations speak to fiscal and other concerns, the Budget and Legislative Analyst recommends that on or before May 31, 2013, the PUC report to the Budget and Finance Committee of the Board of Supervisors with the following information requested by BAWSCA:

- A cost saving plan for slowing the expenditure of contingency funds and soft costs so that all available funds can be used for completing the WSIP within the approved \$4,585,556,260 budget;

- A re-evaluated forecast of cost at completion for individual WSIP projects and for the WSIP as a whole;
- Potential project cost reductions or savings to fund the remaining estimated costs, and identify any budget shortfall;
- Revised schedules, as necessary, for all remaining WSIP projects;
- Schedules for completing other activities related to achieving the PUC's Levels of Service goal;
- A plan for keeping all other WSIP projects and activities, aside from the CDRP, on schedule for completion by the end of July 2016; and
- A plan to terminate all unnecessary WSIP organizational components, except for the Calaveras Dam Replacement Project, by July 31, 2016.

RECOMMENDATIONS

1. Request that the PUC report to the Budget and Finance Committee of the Board of Supervisors by May 31, 2013 on the PUC's responses to BAWSCA's ten recommendations, as discussed in the Policy Consideration section below.
2. Approve the requested release of reserved funds.

Summary of Calaveras Dam Project Modifications

Adopted Project	Modified Project
Facilities	
Replacement dam: design criteria, design and composition of the replacement dam (Final EIR, pages 3-24 to 3-28)	Same, no changes
Spillway: Excavation of a portion of Observation Hill for new spillway with an overall slope of 1.3:1 resulting in 1.87 million cubic yards of non-NOA containing excavated materials for disposal (Final EIR, pages 3-28 to 3-30 and 3-37)	Spillway excavation in portion of Observation Hill graded from overall slope of 1.3:1 to 2:1 resulting in an additional 1.3 million cubic yards of non-NOA containing excavated materials for disposal
Intake shafts/ adits (tunnel entrance) (Final EIR, pages 3-30 to 3-31)	Same, no changes
Outlet pipe, stream discharge valves, supporting facilities (Final EIR, pages 3-31)	Same, no changes
Instrumentation (Final EIR, pages 3-31 to 3-32)	Same, no changes
Alameda Creek Diversion Dam (ACDD) bypass facility (Final EIR, pages 3-32)	Same, no changes
Construction	
Use of the existing dam as the cofferdam (Final EIR, page 3-33)	Same, no changes
Excavation and construction of the dam foundation and embankment resulting in 2.325 million cubic yards of material for disposal (Final EIR, pages 3-35 to 3-37)	Additional excavation of left dam abutment and foundation to remove newly discovered landslide hazards resulting in an additional 1.71 million cubic yards of material for disposal
Source of materials for construction (Final EIR, pages 3-37 to 3-42)	Same, no changes
Construction staging areas (Final EIR, page 3-43)	Same, no changes
Four disposal sites with a combined total capacity of 5.28 million cubic yards (Final EIR, pages 3-43 to 3-49)	Five disposal sites added with combined total capacity of 3.235 million cubic yards to accommodate excess excavated materials resulting from additional excavation in Observation Hill and expansion of Disposal Site 2 from 900,000 cubic yards to 1.3 million cubic yards
Haul route located on the northeast side of the reservoir between the dam and Disposal Site 7 (Final EIR, page 3-54)	New haul route to Disposal Site 7 through Disposal Site F to access Disposal Sites 7 and G, would replace the Disposal Site 7 haul road
Demolition and construction of support buildings (Final EIR, page 3-55)	Same, no changes
Blasting (Final EIR, pages 3-55 to 3-56)	Same, no changes
Construction of ACDD bypass facility (Final EIR, pages 3-56 to 3-59)	Same, no changes
SFPUC standard construction measures and greenhouse gas reduction actions (Final EIR, pages 3-59 to 3-60)	Same, no changes
Two shutdowns of the dam outlet works during construction (approximately mid-April to mid-November in either 2011 and 2012 or 2012 and 2013) to allow excavation of the dam foundation and extension of the outlet conduit, and to connect the new intake shaft to the outlet conduit (Final EIR page 3-62)	One additional shutdown of the dam outlet works in mid-April to mid-November 2015
Operations	
Calaveras Reservoir operations (Final EIR, pages 3-64 to 3-65)	Same, no changes.
Cone valve operations (Final EIR, pages 3-65 to 3-66)	Same, no changes
ACDD Operations (Final EIR, page 3-66)	Same, no changes
Resident rainbow trout flow releases (Final EIR, pages 3-66 to 3-69)	Same, no changes
Steelhead flow releases (Final EIR, pages 3-69 to 3-70), including footnotes to Table 3.7 (page 3-70)	Same, no changes

Summary of Project Construction Schedule Changes

The resulting changes to the detailed project construction schedule contained in the EIR are shown below in ~~strikethrough~~ and underline format.

The estimated duration of construction would be approximately ~~4~~ 7 years. In the first construction season, which ~~would be began in August 2011 assuming Notice to Proceed is issued to the contractor in spring of that year,~~ work would primarily included:

- Mobilization (e.g., site preparation, establishing staging areas);
- Demolition of existing site facilities (exclusive of the dam);
- Preparing the haul roads and access roads;
- Stabilizing the right abutment landslide;
- Begin ~~C~~ constructing the dikes for Disposal Sites 3 ~~and 7~~;
- ~~Excavating the stilling basin, and placement of the excavated materials in disposal sites;~~
- ~~Importing 20,800 cubic yards of filter and drain materials for Disposal Sites 3 and 7 finger drains;~~
- ~~Starting excavation of the dam foundation;~~
- ~~Excavating the intake shaft and adits; and~~
- Installing temporary water and power supplies for construction; and
- Implementing temporary wintertime stabilization measures each year.

In the second construction season, assumed to be 2012, work ~~would~~ primarily included:

- Excavating the ~~lower left abutment trench~~;
- Stabilizing the right dam abutment landslide;
- Excavating the right dam abutment;
- Excavating the dam foundations;
- Grouting the right abutment foundation;
- Excavating the intake shaft and adits;
- Excavating Borrow Area B;
- Complete constructing the dikes for Disposal Sites 3 and 7;
- ~~Constructing the intake shaft and tower;~~
- Constructing the stilling basin;
- ~~Constructing the crest electrical building;~~
- Interconnecting the old and new intake shafts and connecting to outlet conduit;
- ~~Start importing 298,300 cubic yards of filter and drain materials for dam construction; and~~
- Importing 20,800 cubic yards of filter and drain material for Disposal Sites 3, 7, and A/D; and
- Constructing the west shore haul route.

In the third construction season, assumed to be 2013, work would primarily include:

- Preparing Disposal Sites F and I for use;
- Preparing left abutment layback area;
- Installing turbidity curtains for Disposal Sites F and I;
- Excavating spillway cut;
- Hauling temporary spoils into Disposal Site A/D;
- Constructing the dam crest electrical building;
- ~~Importing filter and drain materials for dam construction;~~
- ~~Excavating the upper left abutment trench;~~
- Preparing the core and shell foundations and grouting; and
- Installing upstream intake pipe.
- ~~Beginning excavation of the spillway foundation;~~
- ~~Starting construction of the spillway chute; and~~
- ~~Constructing the replacement dam up to Elevation 655 feet.~~

In the fourth construction season, assumed to be 2014, work would primarily include:

- Complete importing filter and drain materials;
- Constructing the spillway;
- Completing construction of the embankment;
- Excavating the channel in the existing dam;
- Installing the instrumentation;
- Installing plantings and restoring construction areas;
- Constructing permanent access roads and repaving the dam access road; and
- Repaving Calaveras Road.
- Preparing Disposal Site G to receive disposal material;
- Complete left abutment excavation;
- Complete spillway and stilling basin excavation;
- Complete dam foundation excavation;
- Grouting the left abutment; and
- Begin excavating Borrow Area E.

In the fifth construction season, assumed to be 2015, work would primarily include:

- Starting importation of 298,300 cubic yards of filter and drain materials for dam construction;
- Begin constructing replacement dam; and
- Installing downstream outlet pipe.

In the sixth construction season, assumed to be 2016, work would primarily include:

- Complete importing filter and drain materials for dam construction;
- Complete constructing replacement dam;
- Constructing spillway and chute;
- Constructing stilling basin;
- Interconnecting the old and new intake shafts and connecting to outlet conduit;
- Excavating channel in the existing dam; and
- Constructing spillway bridge.

In the seventh construction season, assumed to be 2017, work would primarily include:

- Constructing the downstream electrical building, and utilities;
- Constructing permanent access roads and repaving the dam access road;
- Restoring disposal sites, borrow areas, staging areas, and haul roads; and
- Repaving Calaveras Road.



San Francisco Water Power Sewer

Services of the San Francisco Public Utilities Commission

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TO: Angela Calvillo, Clerk of the Board of Supervisors

FROM: Radhika Fox, 554-1830

DATE: January 24, 2013

SUBJECT: WSIP Program Management Release of Reserve,
\$117,000,000

RECEIVED
BOARD OF SUPERVISORS
SAN FRANCISCO
2013 JAN 24 PM 4:50
AK

Attached please find a letter requesting the release of reserve of \$117,000,000 from WSIP's Program Management Reserve Project CUW395.

We have provided the original signed letter and three additional copies for the Budget and Finance Committee.

Please contact us if you need any additional information. Thank you for your assistance.

Edwin M. Lee
Mayor

Anson Moran
President

Art Torres
Vice President

Ann Moller Caen
Commissioner

Francesca Vietor
Commissioner

Vince Courtney
Commissioner

Harlan L. Kelly, Jr.
General Manager

130032

