Update on Delta Conveyance

Special Committee on Bay-Delta
Item 3a
June 25, 2019
Overview

Statewide Water Resilience Portfolio Development
- Climate change resiliency
- Seismic risks
- Elements of statewide water portfolio
- Metropolitan’s success developing portfolio approach

Delta Conveyance Planning Update

Delta Conveyance Design and Construction Authority Update
Climate Change Resiliency
Snowpack Functions as California’s Largest Reservoir

**Sacramento Valley**
- ~13.5 MAF
- Storage Capacity

**San Joaquin Valley**
- ~11 MAF
- Storage Capacity

**Snowpack**
- ~15 MAF/year
- Storage Capacity
Sierra snowpack is projected to decrease by 48-65 percent by the end of this century.

Source: California Water Plan Update 2013
Sea Level Rise
Potential Water Resources Impacts

Source: CDWR Fact Sheet
Seismic Risks
Shaking from “Regional” Bay-Delta faults at 0.2 - 0.5g ground acceleration

Shaking from “Local” South Midland and West Tracy faults at 0.2 - 0.5g ground acceleration
Elements of Statewide Water Portfolio
Policy directive

1. Develop water resilience portfolio meeting the needs of California's communities, economy, and environment through the 21st century

2. Adapt to climate change effects

3. Assess current planning to modernize conveyance through the Delta with a new single tunnel project
Water Resilience Portfolio

Principles

- Prioritize multi-benefit approaches that meet multiple needs at once
- Utilize natural infrastructure such as forests and floodplains
- Embrace innovation and new technologies
- Encourage regional approaches among water users sharing watersheds
- Incorporate successful approaches from other parts of the world
- Integrate investments, policies and programs across state government
- Strengthen partnerships with local, federal and tribal governments, water agencies and irrigation districts, and other stakeholders
**Water Resilience Portfolio Elements**

Build on programs, policies and investments already in place to build a climate-resilient water system.

Specifics are being defined, but likely include:

- Recycling
- Conservation
- Stormwater capture
- Groundwater recharge
- Modernizing water infrastructure -- including in the Delta -- to withstand climate pressures
Governor Newsom

- Stated that modernized Delta conveyance is needed as part of a water resilience portfolio for California.
- Directed his team to take steps to advance a smaller capacity, strategically designed single tunnel to deliver water through the Delta.
- The Department of Water Resources will begin taking those steps.
Inventory and assess

- Demand for water on a statewide and regional basis
- Water quality of our aquifers, rivers, lakes and beaches
- Projected water needs for communities, economy and environment
- Anticipated impacts of climate change to our water systems, including growing drought and flood risks, and other challenges to water supply reliability
- Work underway to complete voluntary agreements for the Sacramento and San Joaquin river systems regarding flows/habitat
- Current planning to modernizing modernize conveyance through the Bay-Delta with a new single tunnel project
- Expansion of the state’s drinking water program to ensure all communities have access to clean, safe & affordable drinking water
- Existing water policies, programs, and investments within state government
State Agencies Seek Input on Creating Climate-Resilient Water System

- Comments requested by September 1
  - Input through the summer at regularly scheduled and special public meetings
  - Working with universities, community organizations, water agencies and others to hold workshops and listening sessions around the state
- Agencies expect to submit recommendations to Governor Newsom later this year
**Metropolitan’s Comments on Creating Climate-Resilient Water System**

**Input from board**

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Metropolitan’s Success
Developing and Implementing Water Portfolio
Integrated Resource Plan Development

Process of MWD Regional Collaborative

1993

1994 Blue Ribbon Study

1996 IRP

1999 Strategic Plan

1999 Blue Ribbon Study

2004 IRP

2010 IRP

2011 Blue Ribbon Study

2015 IRP

2020 IRP Update

Special Committee on Bay-Delta
2015 IRP Strategy Continues Diversified Approach

Achieve
Conservation Savings
1.5 Million Acre-Feet/YR

Develop
Local Water Supplies
2.43 Million Acre-Feet/YR

Maintain Colorado River Aqueduct Supplies
900 Thousand Acre-Feet/YR

Stabilize
State Water Project Supplies
1.2 Million Acre-Feet/YR
Diversify The Water Portfolio

1990 – 41% Local

Heavy dependence on imported supply and SWP Diversions

2040 – 65% Local

Emphasis on Conservation and Local Supplies
Delta Conveyance Planning Process
Delta Conveyance Planning Process

Project Cost Allocation
- Public Negotiations
- Agreement in Principal

EIR Notice of Preparation

Environmental Review including CEQA and other permits

Engineering Design

Outreach

2019 2020 2021 2022

Approximate
Delta Conveyance Design and Construction Authority

Amendment of Joint Exercise of Powers Agreement with Department of Water Resources

Scope

- DCA to provide engineering, design, geotechnical, environmental and similar services in support of the environmental analysis for a potential Delta conveyance project

- Informs environmental review to address and define mitigation needs
2018 Negotiations

- Addressed cost allocation for CA WaterFix and water management measures (transfers/exchanges)

May 2019 Negotiations

- Amended the Agreement in Principal from the 2018 negotiation to remove CA WaterFix cost allocation because project is no longer being pursued
Public Negotiations between SWP Contractors and DWR

Current Negotiations

- Remove WaterFix allocation portion of the Agreement in Principle and leave remaining water management tools, to be executed once CEQA analysis is recirculated and approved

Upcoming Negotiations

- Develop agreement between DWR and SWP contractors on cost allocation for Delta conveyance
- May begin as soon as July 2019
State Administration’s proposal for Delta conveyance will be presented to Metropolitan’s Board for consideration after:

- Project has been defined by the State
- Cost allocation approach is agreed upon
Delta Conveyance Design and Construction Authority Update
Authorized the President to Execute an Amendment to the Joint Exercise of Powers Agreement for Planning and Environmental Services in Support of the Environmental Analysis for a Potential Delta Conveyance Project

Approved revision of the Scope of Services for Jacobs Engineering Group, Inc. to align with new planning and environmental support services

Approved FY 2019/20 Budget

Authorized the Executive Director to negotiate and execute a lease for office space at 980 9th Street in Sacramento, California

Authorized amendment to bylaws for administrative issues
Metropolitan’s Portfolio Approach to Water Supply Planning

30-Years

$782 million invested
2,848,000 AF saved

$158 million invested
941,000 AF recovered

$474 million Invested
2,757,000 AF produced

$1.4 B Cumulative Investment
## SUMMARY BUDGET FOR FY 2019/2020

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