

Update on Delta Conveyance

Bay-Delta Committee Item 6a September 22, 2020

Delta Conveyance

Metropolitan Board Actions

December 2020 2021-22 Planning Costs

- Funding Agreement for planning costs
- Review Delta Conveyance Agreement in Principle
- Potential updates to Delta Conveyance Design and Construction Authority (DCA)

Post-2022 Planning Costs

Funding agreement for additional planning costs

Project Participation

 Approve Project/Contract Amendment for Conveyance

Regulatory Actions



Draft EIR/S



Final EIR/S



Federal/State ESA Approvals



Project Approval ROD/NOD

This slide does not show all necessary permits and regulatory processes. It is a general representation of one way DWR may seek to comply with regulatory requirements.



SWRCB

Change in Point of Diversion



DSC

Certification of Consistency

Bay-Delta Committee Septembe

Bay-Delta Committee

Overview

Overview

DCA Agreement

Outline Proposed
Board Action

Board Action

Funding request
for planning costs

Address

Potential updates

to DCA

questions from

September

Committee

Bay-Delta

meeting

benefits

Funding

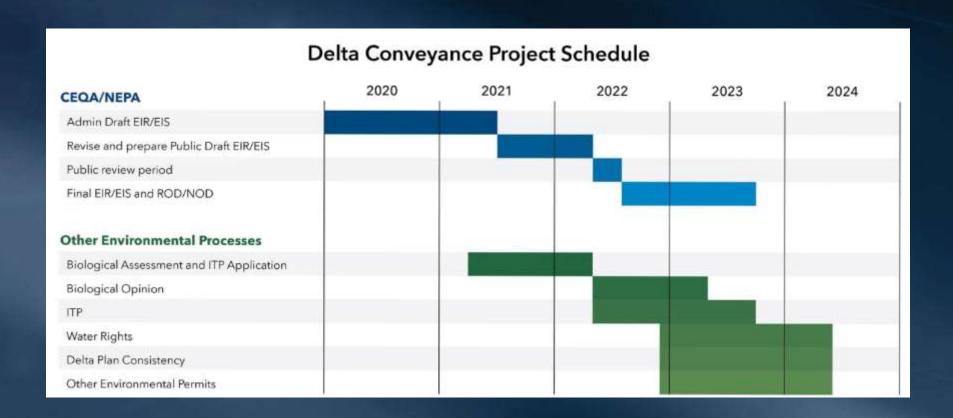
Agreement

Monthly updates on Delta Conveyance Design and Construction Authority, Delta Conveyance Finance Authority, and Delta Conveyance Authority Delta Stakeholder Engagement Committee

Overview

- Delta Conveyance
 - Preliminary costs and cost allocation
 - Preliminary benefits
 - Agreement in Principle
 - Funding Agreement
 - Next steps
- Updates
 - Delta Conveyance Design and Construction Authority
 - Stakeholder Engagement Committee

Project Schedule



Delta Conveyance Preliminary Costs and Cost Allocation

Preliminary Cost Information Assumptions

Proposed facilities included in estimate:

- One Tunnel Total capacity 6,000 cfs
- Two intakes at 3,000 cfs each
- 42 miles of tunnel and associated shafts
- Southern complex facilities
 - Pump station
 - Forebay
 - Connections to existing CA Aqueduct



Preliminary DCA Cost Assessment

DCA Program Scope:

Cost assessment based on DWR's Proposed Project in NOP Conceptual Engineering Report (CER) is not completed

Purpose:

Early cost assessment to inform Public Water Agency's investment in project planning

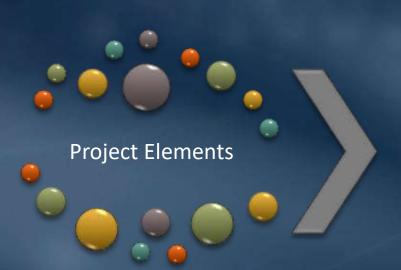
DCA Cost Assessment:

\$15.9 billion in non-discounted dollars

Included:

Based on preliminary engineering, but includes project costs for construction, management, oversight, mitigation, planning, soft costs, and contingencies

Review of CWF Cost Estimate and Preliminary DCA Cost Assessment



Construction Costs



Contingencies

Construction Costs
Soft Costs

Intakes
Tunnels
South Delta Facilities
Pumping Plant

CWF 1 level DCA 3 levels

Contingency Levels for DCA Preliminary Cost Assessment



CA WaterFix Overall Contingency

35% of construction costs

Contingency and Soft Cost Variance Preliminary Costs

Category	DCA Estimate (\$ Billions)	% of Baseline Construction Cost	Industry Range ⁴ (% of Baseline Construction Cost)	Applied Industry Range (\$ Billions)	Variance from Industry Range (\$ Billions)
Baseline Construction	8.371	100	100	8.37	-
Contingency	3.71 ²	44	10 to 30	0.84 to 2.51	1.20 to 2.87
Program Management	0.42	5	6	0.50	(80.)
Design & CM	2.42	29	10 to 15	0.84 to 1.26	1.16 to 1.59
Subtotal for Variance ³	14.92	178	126 to 151	10.55 to 12.64	2.28 to 4.37
DCO oversight, mitigation, land acquisition	.98	n/a	n/a	n/a	n/a
Total Project	15.9	n/a	n/a	n/a	n/a

- 1. This removes \$354 M from the DCA construction costs since those were line item risk mitigation contingencies.
- 2. This adds \$354 M to the DCA stated contingency of 3.3 to include risk mitigation contingencies.
- 3. Does not include DCO oversight, mitigation, land acquisition, capital costs, and O&M costs.
- 4. Based on level of detail provided in DCA documents and estimate

Delta Conveyance Preliminary Benefits

Project Objectives Defined

CLIMATE RESILIENCY:

Addresses climate change, extreme weather, and rising sea-levels in the Delta for the SWP

SEISMIC RESILIENCY:

Minimizes health/safety risk to public from earthquake-caused reductions in water delivery quality and quantity from the SWP

WATER SUPPLY RELIABILITY:

Restores and protects ability to deliver SWP water in compliance with regulatory and contractual constraints

OPERATIONAL RESILIENCY:

Provides SWP operational flexibility to improve aquatic conditions and manage risks of additional future constraints

Preliminary Project Benefits

SWP Reliability and Resilience Compared to Future Conditions

Without Project may result in ~300,000 AF to 1 MAF reduction in SWP supplies

CLIMATE RESILIENCY

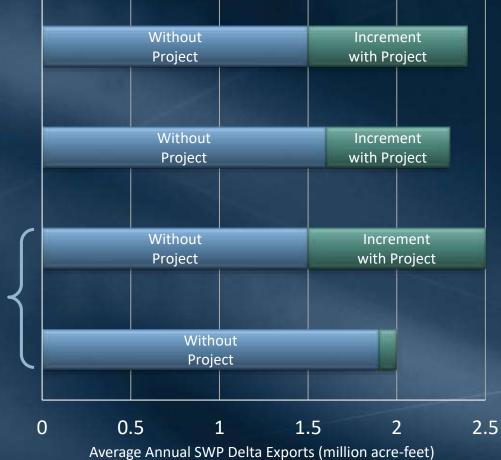
Protect up to ~900 TAFY under extreme sea level rise

SEISMIC RESILIENCY

Protect or preserve up to ~700 TAFY under seismic risks and Delta island flooding

WATER SUPPLY RELIABILITY OPERATIONAL RESILIENCY

Protect or provide ~100 TAFY to ~1000 TAFY More restrictive South Delta Increased Delta Outflow Requirements



TAFY = Thousand acre-feet per year on average

Note: Project has potential to increase SWP reliability or mitigate losses under many plausible future risk scenarios

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Agreement in Principle (AIP) for SWP Delta Conveyance Contract Amendment

Delta Conveyance AIP

- Option to opt-out of Delta Conveyance costs and benefits
- Option to assume additional Delta Conveyance costs and benefits if available
- Effective Date will be after the contract extension amendment becomes effective
- Costs and benefits are allocated based on the Delta Conveyance Participation Table
- Includes whitepaper that provides details about how benefits would be accounted for and how excess capacity can be used

Funding Agreements

Key Provisions

- Funding Agreements for \$385 million for planning costs from 2021-2024
- Authorizes contributed funds to be spent on DCA invoices consistent with the Joint Exercise of Powers Agreement and with DWR's Delta Conveyance Office environmental planning costs
- Allows customization for contributed funds
- Provides flexibility to provide additional funds without amendments to the Agreement

Options

- Statement of Charges PAYGO or Lump Sum Payments
- Authorization for entire share of \$385 million in planning costs or only first two years
- Will allow for additional funds to be contributed upon showing of board authorization without further amendment

Delta Conveyance Allocation Factor (%) Planning Costs

Delta Conveyance Project

Delta Conveyance Allocation Factor Planning Costs
100%

SWP Contractors (29 SWP)

North of Delta Exemption (24 SWP)

South of Delta Participants (18 SWP)

NOD SWP Contractors (5)

0% of Total

SOD Non-Participating
SWP Contractors (6)

0% of Total

SWP Contractors (29) 100% of Total



SOD SWP Contractors (24) 100% of Total



SOD Participating SWP Contractors (18)
100% of Total

Metropolitan

Est. 65% of Total

Bay-Delta Committee

Sep Oct Nov Dec **Board Action** Overview DCA Agreement **Outline Proposed Board Action Preliminary costs DCA Agreement** Funding request for planning costs **Preliminary Address** benefits questions from Potential updates

to DCA

September

Committee

Bay-Delta

meeting

Funding

Agreement

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Delta Conveyance Design and Construction Authority Update

Delta Conveyance Design and Construction Authority

August

- Amendment #3 to the Joint Exercise of Powers Agreement
- Presentation on Delta Conveyance Preliminary Cost Assessment
- Stakeholder Engagement Committee Update

September

- Amendment #4 to the Joint Exercise of Powers Agreement
- Expand the DCA Delta Stakeholder Engagement Committee and Appoint an Ex Officio Member to the Committee
- Stakeholder Engagement Committee Update

Delta Conveyance Stakeholder Engagement Committee August

- DWR Updates
- Intakes Design Refinements
- Traffic Reductions
- Briefing on Bethany Alternative

Delta Conveyance Stakeholder Engagement Committee Virtual Tours

- Proposed Project Overview https://youtu.be/xWGD1kuwb7Q
- Intakes https://youtu.be/JRkYO4FGTP8
- Tunnels and Shafts https://youtu.be/HKxS5r3i-gc
- Southern Forebay https://youtu.be/TL 1JZD2JZY
- South Delta Conveyance https://youtu.be/XhmDljSKLMw





