



AET 4-25-18 Public Forum - FINAL paty/2

Recommendations



- Receive and file the attached March 2019 Monthly Status Report for the Water Reclamation Facility
- Receive the Basis of Design Report (BODR)
- Provide input regarding the potential change orders (PCOs)





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Key accomplishments and challenges



Key Accomplishments	Critical Challenges					
General Program						
Initiating SHPO coordinationKick-off for the FEIR addendum	 CCC meeting moved from May to July 2019 (to be hosted in SLO County) 					
Water Reclamation Facility						
Negotiation of potential change orders						
Conveyance Facilities						
Advancement of the 60-percent design	 Access for field investigations (geotechnical and surveying) 					
Recycled Water Facilities						
Draft results for the Phase 1 hydrogeological study	Access for pilot well planning					

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Project dashboard



Performance Measure	Data	Target	Current	Delta	Status	G	Ø	R
1: Total Project Costs	Total Program Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$125.9 M	\$124.5 M	-1.2%	G	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
1.1: WRF Costs	On Site WRF Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$77.1 M	\$77.9 M	1.0%	G	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
1.2: Conveyance Facilities Costs	Conveyance Facilities Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$26.3 M	\$29.5 M	11.8%	R	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
1.3: Recycled Water Facilities Costs	Off Site Injection Facilities Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$12.1 M	\$5.7 M	-52.9%	G	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
1.4: General Program Costs	Program Management Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$10.5 M	\$11.5 M	9.5%	Ŷ	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
2: Conveyance Pipeline Installed	Feet of conveyance pipeline installed (thru 3/31/19)	18,500 LF	0.0 LF	0.0%	G	<= 5%	> 5% and <=7.5%	>7.5%
3: Compliance Date Countdown	Days Remaining to Compliance Date (as of 3/31/19)	1,795 days	1,321 days	-474 days	G	<=98%	> 98% and <=90%	> 90%

Current expenditures and revised budget FACILITY PROJE



Project	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)	Total Project Cost (Est.) ⁽¹⁾	Cost Expended to Date (%)
General Program	\$6,041,480	\$6,190,871	73.1%	\$11,471,480	52.7%
WRF	\$1, 654 , 952	\$67,234,512	2.5%	\$77 , 858 , 063	2.1%
Conveyance Facilities	\$549,733	\$1, 360,564	40.4%	\$29,457,010	1.9%
Recycled Water Facilities	\$205,677	\$508,947.00	29.5%	\$5 , 665 , 677	3.6%
Total	\$8,451,843	\$75,294,894	9.3%	\$124,452,231	6.8%

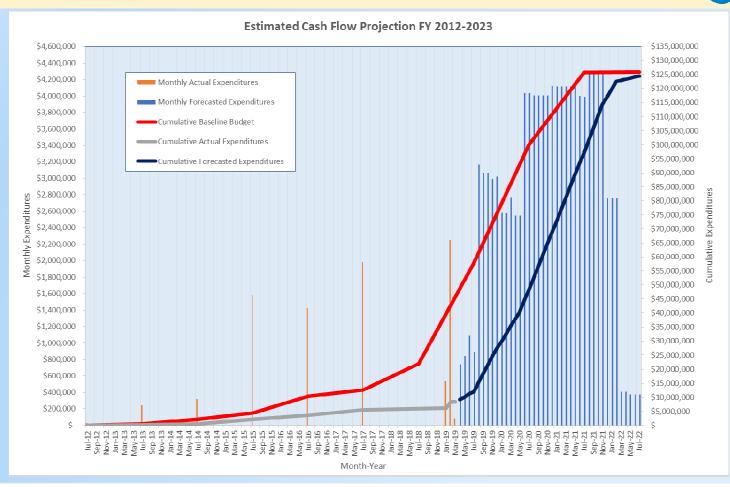
Notes:

Cost includes the total anticipated cost for each element of the Project.

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Current vs. planned expenditures





Gant chart schedule





Key construction milestones



Project Name	Start of Cons	struction	End of Co	nstruction	Permit Compliance Date	
	Planned	Actual	Planned	Actual	Planned	Actual
WRF	August 09, 2019		June 09, 2022		February 28, 2023	
Conveyance Facilities	July 21, 2021		June 21, 2022		NA	NA
Recycled Water Facilities	May 11, 2020		November 19, 2021		NA	NA









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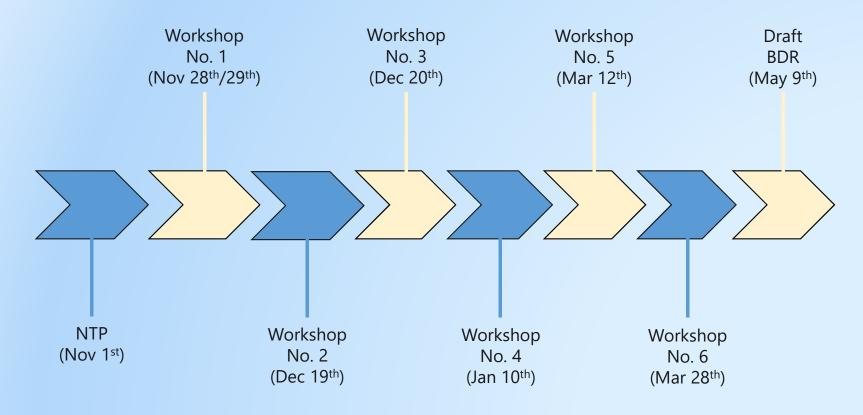
Progression of the project



- Master Plan
- Design-Build RFP
- Design-Build Proposal
- Basis of Design Report/30 Percent Design
- Grading Package
- 60 Percent Design
- 90 Percent Design

Collaborative work product





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Purpose of the BDR

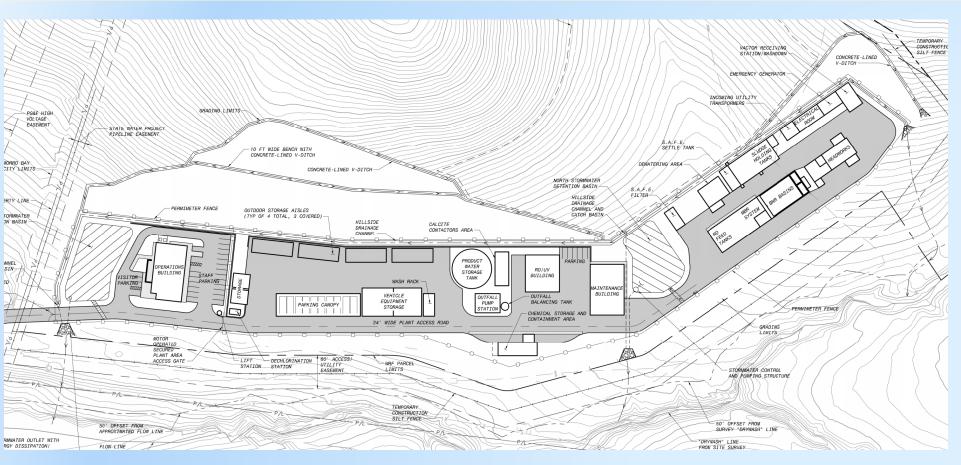


- Define project scope
- Advance the WRF design to minimize future changes
- Focus on site plan refinement (advanced earthwork)
- Early procurement of critical pieces of equipment
- Support early start construction efforts

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Revised site plan













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What is a PCO?



Suggested change to the WRF identified

Determination of material change in DB scope

Development of raw order of magnitude (ROM) cost

Decision made to move forward

Development of Draft PCO

Review of Draft PCO by Program Manager

Discussion of Comments

Development of Final PCO and Negotiation

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Summary of proposed PCOs

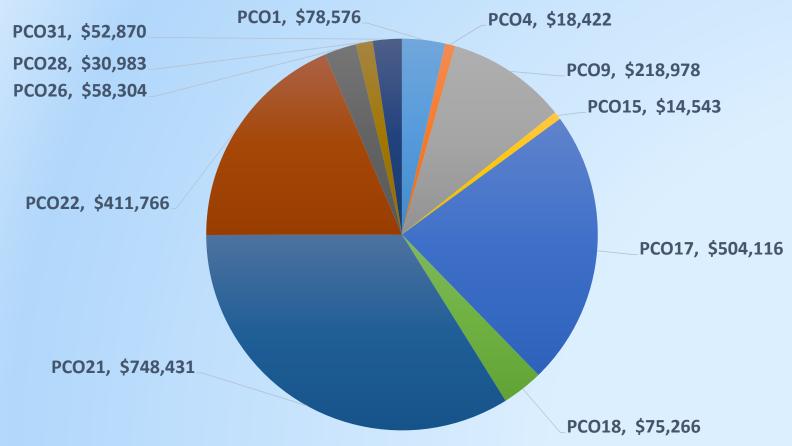


- Reconciliation of DB team's interpretation of the RFP and the City's ultimate needs
- Total of 17 PCOs being considered
- Total cost impact of \$1,867,907
 - Cost Increase = \$2,212,255
 - Cost Savings = (\$344,348)
- Planned contingency for WRF
 - Baseline = \$6.2 million
 - Current = \$4.4 million

PCOs do not result in an increase in the total Project budget

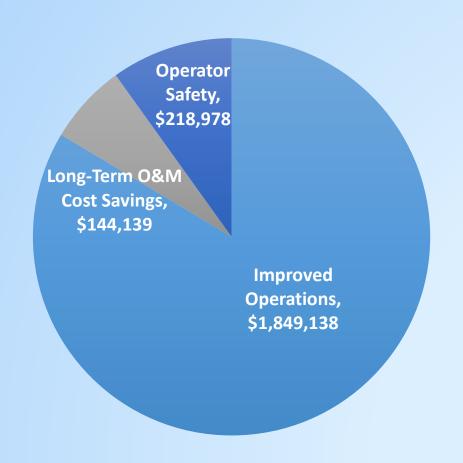
Breakdown of cost increases





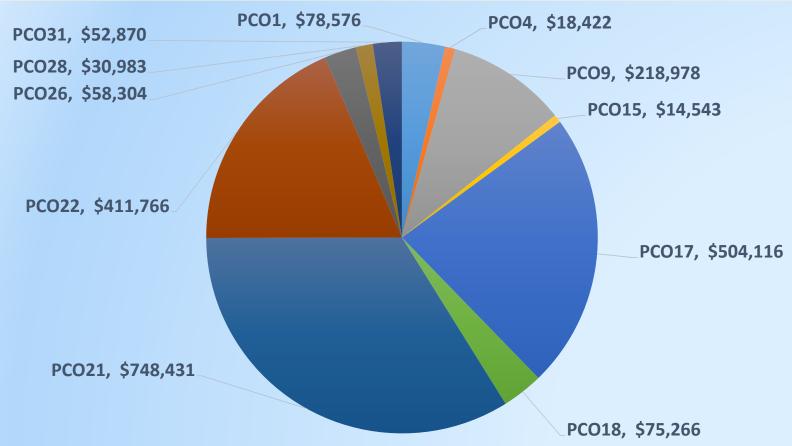
Cost increase justification





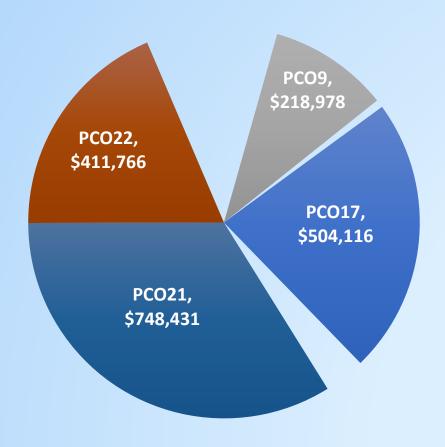
Breakdown of cost increases



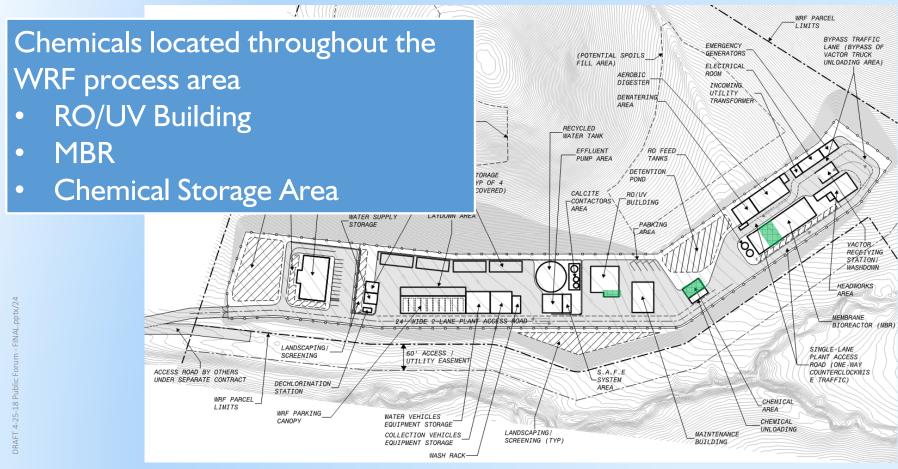


Breakdown of cost increases



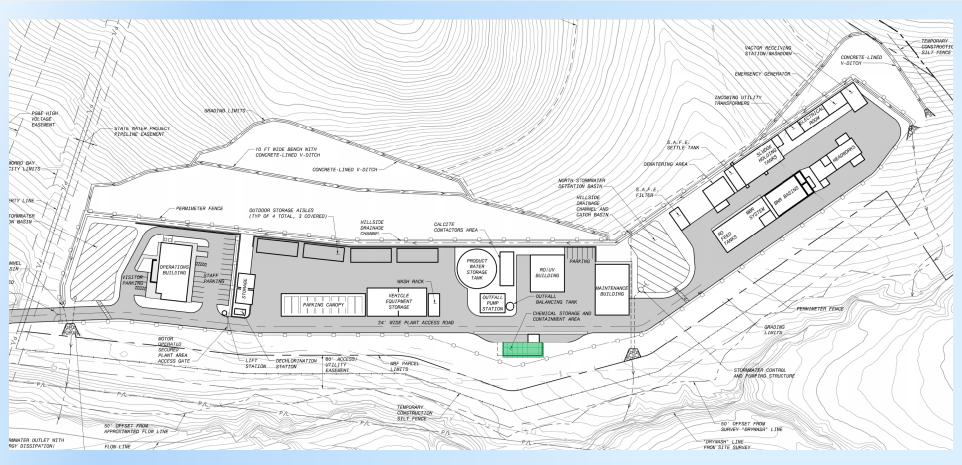




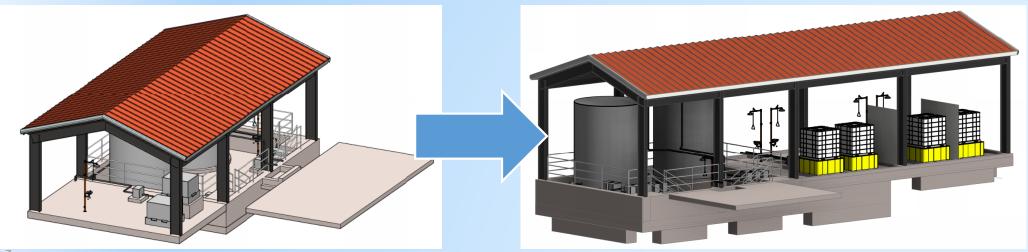


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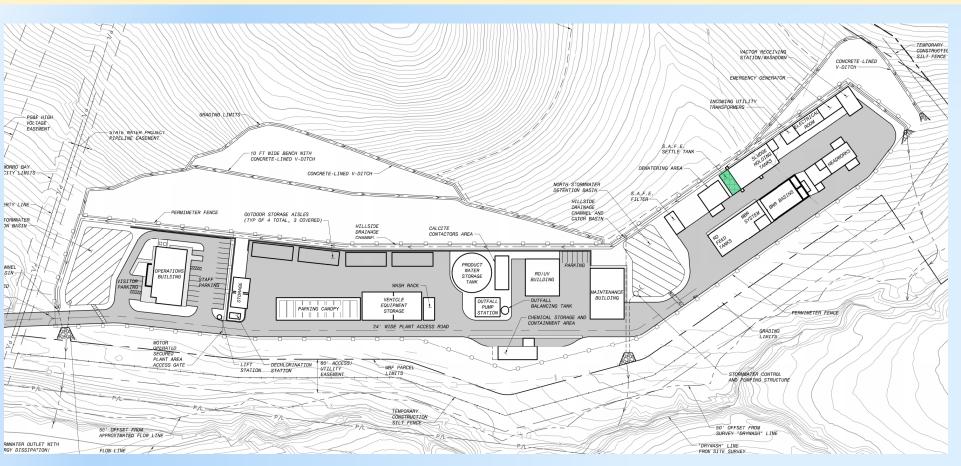


- Cost Impact = \$218,978
 - Increased chemical storage area size
 - Chemical ductbanks and piping
- Rationale
 - Improved operator safety
 - Best management practice for self insured

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PCO 17 – SAFE Equalization Tank

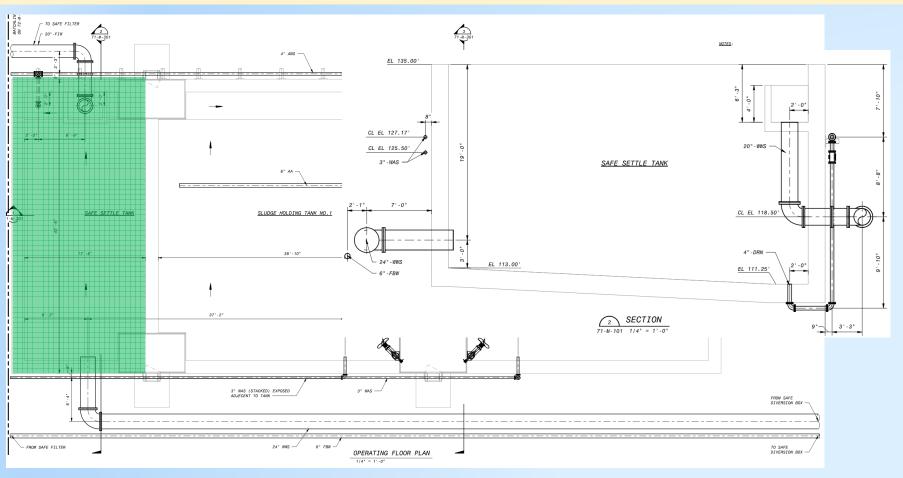




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PCO 17 – SAFE Equalization Tank





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PCO 17 – SAFE Equalization Tank

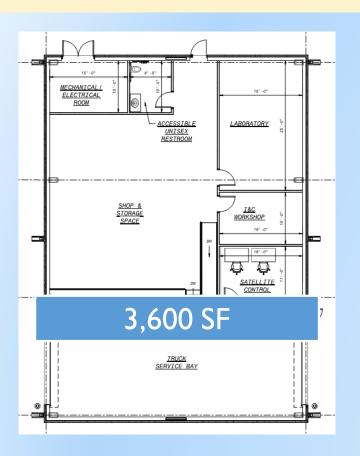


- Cost Impact = \$504,116
 - Concrete tankage
 - Processing piping
- Rationale
 - Improved process performance
 - Operational flexibility
 - Reduced maintenance for the SAFE filter
 - More reliable permit compliance

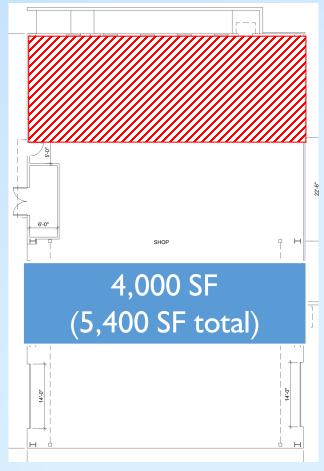
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PCO 21 – Revised Maintenance Building









PCO 21 – Revised Maintenance Building





- Existing Maintenance Space
 - WWTP = 2,260 SF (To be Demolished)
 - Water = 700 SF (Transfer to Consolidated Maintenance)
 - Collections = 1,600 SF (To be Demolished)
 - Facilities = 400 SF (To be Demolished)
 - Total Existing = 5,000 SF

Net reduction in maintenance space due to efficiencies

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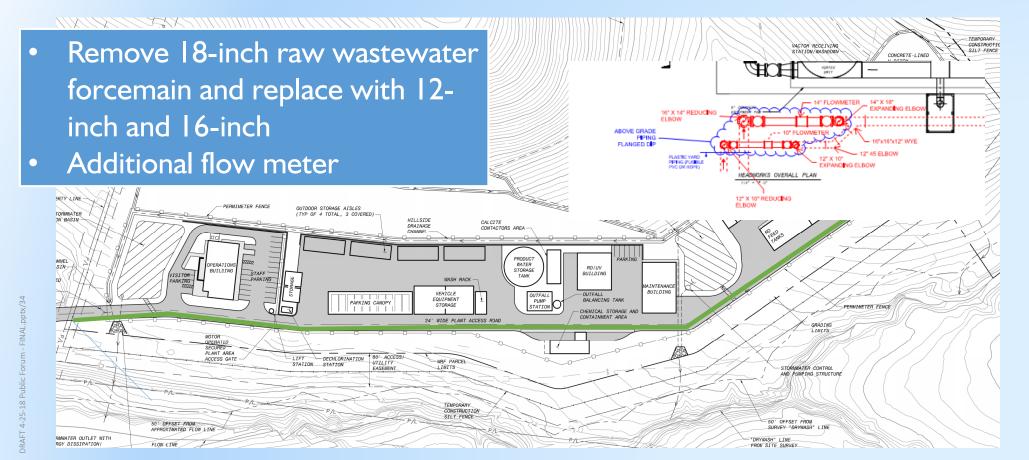
PCO 21 – Revised Maintenance Building



- Cost Impact = \$748,431
 - Increase building footprint
- Rationale
 - Improved operations
 - In line with existing maintenance space for Consolidated Utilities
 Division: Wastewater Treatment, Wastewater Collections and Water
 Distribution needs
 - In line with 2008 Facility Master Plan (RRM Design Group: Maintenance Space Needs)

PCO 22 – Influent Piping/Metering





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PCO 22 – Influent Piping/Metering



- Cost Impact = \$411,766
 - Additional piping
- Previous determination made for the Conveyance Facilities Project
 - Blue Ribbon Commission (June 2018)
 - WRFCAC (December 2018)
 - City Council (January 2019)
- Rationale
 - Improved operability

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Recommendations



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