## **CVP Power Initiative Implementation Plan**

Last Revised:

4/13/2021

Milestone	Action	Timeline	Target Completion	Status	Completion Date	Lead Office	Lead POC
I. Reporting	g and Implementation						
(I).1.a Provid	le a report of implementation to the Commissioner and Deputy Commissioners.					CVO	Melavic
				Reclamation provided a coordinated action plan, complete with milestones, tasks and target			
				completion dates for each directive on August 23. All information can be found here			
	Develop a schedule with reporting milestones within 60 days of memo.	Within 60 days of memo	8/23/2019	https://www.usbr.gov/mp/hydro.html.	8/23/2019		
(I) 1 b Drovid	le an implementation status report to the Commissioner and Deputy Commissioners.					CVO	Melavic
(I).1.b Provid	le an implementation status report to the commissioner and Deputy Commissioners.					CVO	IVIEIAVIC
	Provide an implementation status report of the action plan within 120 days of memo.	120 days of memo	10/23/2019	This revised plan as of October 18, 2019 is the 120-day status report.	10/18/2019		
				This revised plan as of May, 2020 and presented to the next customer forum (CCC), scheduled on	20, 20, 2020		
	Provide a status report every 6 months.	every 6 months	4/20/2020	June 2, 2020.	5/18/2020		
	Provide a status report every 6 months.	every 6 months	10/16/2020	This revised plan as of October, 2020 and presented to the next customer forum (CCC).	10/16/2020		
	Provide a status report every 6 months.	every 6 months	4/15/2021	This is the revised plan as of April, 2021 and will be presented to the next customer forum (CCC)	4/15/2021		
	Provide a status report every 6 months.	every 6 months	10/12/2021				
	Provide a status report every 6 months.	every 6 months	4/8/2022				
II. Impleme	ntation - Cost Stability - Predictability and Transparency						
(II).1.a Work	with customers, WAPA and project proponent for Sites/North-of-Delta Off-Stream Storage (NOD	OS) Project on hydropower ¡	purpose analysis.			MP-700	<del>Ryan Davis</del> <mark>Vi</mark>
	Discuss analysis of benefits, costs, and financial impacts associated with the draft feasibility			Discussion Initiated in January 2019 customer meeting and ongoing per customer request to receive			
	report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power			updates. It has been decided that hydropower generation is no longer being used or considered as a			
	customers at Power Customer Coordination Committee (CCC) meeting.		1/15/2019	benefit for NODOSand thus no longer in the benefit calculation for Reclamation purposes.	3/13/2019		
				This Item was discussed with Power customers on 2/11/2020 at the CCC Meeting and with			
				WAPA/Sites Administrator. Sites/NODOS is behind schedule due to manning issues. Sites is currently			
				pursuing 2x paths with USBR as exchange customer or investor. Results in FR are now out of date due			
				to sponsor changing many facilities/configurations. Recent efforts have removed hydropower generation as a claimed benefit from the NODOS project. As a result, no further hydropower			
				modeling has been reviewed. The Authority, under its new alternative, is producing new hydropower			
				modeling, independently of Reclamation and will make this modeling available December 2020;			
	Draft Lt-Gen hydropower purpose analysis for Sites/NODOS project discussion with power			however, this modeling is unlikely to impact any benefit analysis as hydropower generation is no			
	preference customers.		2/11/2019	longer being used in the benefit calculation for Reclamation purposes.	2/11/2020		
			2,11,2010	The NODOS Feasibility Study is currently at OMB (9/18/2020) despite the Sites Authority reviewing	_,,		
				different alternatives. USBR expects a determination of feasibility by the Secretary around November			
				2020. The feasibility report will go forward using the 2017 draft EIS/EIR that went out for public			
	Submit administrative Final Feasibility Report to Commissioner's Office.		5/28/2020	comment. The final EIS/EIR is to be completed by Spring 2022.	9/2/2020		
	Submit administrative Final Environmental Impact Statement to Commissioner's Office.  Participate in regular calls and discussions with Joint Power Authority to develop operations plan		5/1/2022	The NODOS project was determined technically and financially feasibile by the Secretary in December 2020. Hydropower generation is limited to two 40MW generating facilities. A publicly available detailed project description is listed on Sitesproject.org. A supplemental draft EIS/EIR will go out for public review August/September 2021. The final EIS/EIR is to be completed by summer 2022.			
1	proposal.		Ongoing	Participating in Reservoir Committee and Executive Committee meetings.	Ongoing		
	Work with WAPA, customers and project proponents to finalize operations plan after determination of feasibility.		Sametime in 2022	LT-GEN and NODOS-Power models are currently being finalized by Jacobs Inc. and are expected by the end of March 2021. A draft term sheet describing proposed operations will be available by August 2021. WAPA Interconnection request will likely begin in 2022 as the project's operations plan and electrical requirements are further refined.			

	nmunicate any modifications to the benefits analysis in the NODOS Feasibility Report to power cust	omers and appropriate stakeholders.				MP-700	<del>Ryan Davis</del> Vi
				This Item was discussed with Power customers on 2/11/2020 at the CCC Meeting and with			
				WAPA/Sites Administrator. Sites/NODOS is behind schedule due to manning issues. Sites is currently			
				pursuing 2x paths with USBR as exchange customer or investor. Results in FR are now out of date due			
				to sponsor changing many facilities/configurations. Recent efforts have removed hydropower			
				generation as a claimed benefit from the NODOS project. As a result, no further hydropower			
				modeling has been reviewed. The Authority, under its new alternative, is producing new hydropower			
				modeling, independently of Reclamation and will make this modeling available December 2020;			
	Draft Lt-Gen benefits analysis for Sites/NODOS project for discussion with power preference			however, this modeling is unlikely to impact any benefit analysis as hydropower generation is no			
	customers.			longer being used in the benefit calculation for Reclamation purposes.	2/11/2020		
				The NODOS Feasibility Study is currently at OMB (9/18/2020) despite the Sites Authority reviewing	2,11,2020		
				different alternatives. USBR expects a determination of feasibility by the Secretary around November			
				2020. The feasibility report will go forward using the 2017 draft EIS/EIR that went out for public	- 1- 1		
	Submit administrative Final Feasibility Report to Commissioner's Office.		5/28/2020	comment. The final EIS/EIR is to be completed by Spring 2022.	9/2/2020		
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	Participate in regular calls and discussions with Joint Power Authority to develop operations plan						
	proposal.		Ongoing	Participating in Reservoir Committee and Executive Committee meetings.	Ongoing		
	Work with WAPA, customers and project proponents to finalize operations plan after determination of feasibility.			Schedule will be created after determination of Feasibility; Principles of Operation and basic guidelines include no harm to CVP Operations. LT-GEN and NODOS-Power models are currently being finalized by Jacobs Inc. and are expected by the end of March 2021. A draft term sheet describing proposed operations will be available by August 2021. WAPA Interconnection request will likely begin in 2022 as the project's operations plan and electrical requirements are further refined.			
1 - 14/	ulu viith was fadaud aast ahan wastu oo was wasfawaya waxay sustan aya WARA ayd stalishalday fay C		•-			NADCO	M/alab
L.C Wor	rk with non-federal cost share partners, preference power customers, WAPA and stakeholders for SI	iasta kaise nydropower purpose analysi:	is.			MPCO	Welsh
	Provide Shasta Dam Raise updates at WAPA CCC meeting to ensure benefits, costs, and financial						
	impacts associated with the draft Feasibility Report's inclusion of a hydropower purpose to the						
	proposed project are analyzed, evaluated, and considered as the project moved forward.		8/22/2019	Complete.	8/22/2019		
				Lt-Gen and PLEXOS models have been evaluated by Reclamation. Lt-Gen model may be			
				overpredicting generation and therefore planning division proposed a regression approach to address the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the Plexos model.			
	Lt-Gen corrections for power benefits due/to-be-completed.			the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the	ongoing	CGB 700	James Lu
	Contract to be awarded to provide additional PLEXOS runs to improve hydropower benefits		TBD 2021	the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the Plexos model.		CGB 700	James Lu
	·		TBD 2021 11/1/2020	the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the Plexos model.  Contract awarded. Complete.	ongoing 8/19/2019	CGB 700	James Lu
	Contract to be awarded to provide additional PLEXOS runs to improve hydropower benefits		TBD 2021 11/1/2020	the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the Plexos model.		CGB 700	James Lu
	Contract to be awarded to provide additional PLEXOS runs to improve hydropower benefits analysis.  Complete revised benefits analysis.		TBD 2021 11/1/2020	the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the Plexos model.  Contract awarded. Complete.  Benefits analysis will be provided at the power customer meeting following completion. Currently	8/19/2019		
.1.d Wor	Contract to be awarded to provide additional PLEXOS runs to improve hydropower benefits analysis.		TBD 2021 11/1/2020 4/1/2021	the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the Plexos model.  Contract awarded. Complete.  Benefits analysis will be provided at the power customer meeting following completion. Currently reviewing the modelling results of the revised benefits analysis. No new updates as of 3/19/2021	8/19/2019	CGB 700 MP-700	James Lu  Vince Barbara
1.d Wor	Contract to be awarded to provide additional PLEXOS runs to improve hydropower benefits analysis.  Complete revised benefits analysis.		TBD 2021 11/1/2020 4/1/2021	the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the Plexos model.  Contract awarded. Complete.  Benefits analysis will be provided at the power customer meeting following completion. Currently	8/19/2019		
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1.d Wor	Contract to be awarded to provide additional PLEXOS runs to improve hydropower benefits analysis.  Complete revised benefits analysis.  rk with preference power customers and WAPA as appropriate on other feasibility studies.  Discuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings to ensure		TBD 2021 11/1/2020 4/1/2021	the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the Plexos model.  Contract awarded. Complete.  Benefits analysis will be provided at the power customer meeting following completion. Currently reviewing the modelling results of the revised benefits analysis. No new updates as of 3/19/2021  As reported at the power update provided at the October 10, 2019 CCC meeting, a Reclamation team has actively been analyzing the models LT Gen and Plexos to assess the level of accuracy appropriate	8/19/2019		
1.d Wor	Contract to be awarded to provide additional PLEXOS runs to improve hydropower benefits analysis.  Complete revised benefits analysis.  rk with preference power customers and WAPA as appropriate on other feasibility studies.  Discuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings to ensure the benefits, costs, and financial impacts associated with the inclusion of a hydropower purpose	Every power meeting	TBD 2021 11/1/2020 4/1/2021	the bias. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead of PLEXOS. Lt-Gen is being utilized to provide the power benefits due to unforeseen restrictions in the Plexos model.  Contract awarded. Complete.  Benefits analysis will be provided at the power customer meeting following completion. Currently reviewing the modelling results of the revised benefits analysis. No new updates as of 3/19/2021  As reported at the power update provided at the October 10, 2019 CCC meeting, a Reclamation team	8/19/2019	MP-700	

	Modify appropriate internal directives to include outreach for stakeholders and power marketing agencies. Determine if additional outreach is required before feasibility is determined and add to		Following release of Appraisal Study D&S (CMP 09-01) and Planning Policy (CMP P09), Reclamation will begin updates to CMP 09-02 in 2019. CMP 09-02 was revised on December 12, 2019. As D&S are			
	appropriate directives and standards (if not already included).		7/31/2020 updated, BOR will provide updates to CVP Power customers as relevant.	Complete 12/12/2019	84-55000	
	Reclamation's Planning Office (MP-700) will begin coordination and development of detailed					
	operations plan if and when feasibility is appropriately determined and Congressional					5
	authorization is provided for a project.  As	needed basis.	Ongoing Work will occur if/when feasibility is determined for any proposed project.	Ongoing	MP-700	Vince B
II) 1 a - Dava		r cost recovery			MP-3000	Lubas-\
ii). 1.e Deve	elop a Standard Operating Procedure (30F) to document methodology and procedures for construction	cost recovery.	Reclamation met with the CVP FAC and determined the SOP will document what Reclamation will do		1011-3000	Lubas
	Meet with CVP Financial Affairs Committee (FAC) to determine items for SOP.		7/19/2019 to ensure repayment is accomplished by 2030.	7/19/2019		
	Wheet with evi i managinatura committee (interpreta determine items for cont.		An SOP was drafted and sent to FAC customers and WAPA for CVP Power customers for review.	7,13,2013		
			Customers provided feedback and BOR made necessary changes. As of 10/13/2020, The SOP is out			
	Develop draft SOP within 60 days of meeting with FAC.		9/17/2019 for a second review.	9/18/2020		
	Share draft SOP at next FAC meeting.		9/20/2019 Initial draft SOP was shared 9/18/2020. Revised SOP has been sent to FAC and WAPA customers.	9/18/2020		
			Reclamation will share the final SOP for Construction Cost Recovery with Power customers at the	, ,		
			Customer Meeting immediately following the finalization of the SOP. Power customers have already			
			received the most updated draft SOP. The final SOP is complete and will be shared with Power			
	Share draft SOP at WAPA CCC Customer Meeting.	•	10/10/2019 customers at the next customer meeting.	6/9/2020		
	· · · · · · · · · · · · · · · · · · ·					
II).1.f Devel	lop aid-to-irrigation document for Water Infrastructure Improvement for the Nation (WIIN) Act project	s.			84-55000	Bill Tay
			Reclamation provided a presentation and consulted with water and power stakeholders on TRMR			
	Develop document describing handling of aid-to-irrigation for WIIN Act construction prepayment		#122, which was then finalized August 2019. The document can be found here:			
		thin 60 days of memo.	8/28/2019 https://www.usbr.gov/recman/temporary_releases/pectrmr-122.pdf	8/28/2019		
		· · ·		, ,		
II).1.g Share	e the SOP documenting the methodology for treatment of non-permanent revenue.					
			Two draft SOP's have been prepared. They are being reviewed internally and shared with			
			Reclamation FAC customers prior to sharing with WAPA for their comments. Still in Internal review			
			process. Two Draft SOPS were shared with FAC members and WAPA on 5/26/2020. Changes and			
	Share draft SOP with customers at customer CCC meeting.	· · · · · · · · · · · · · · · · · · ·	10/10/2019 comments were received and documented.	5/26/2020		
			Non-permanent revenue SOP is complete and will be shared with power customers at the next			
	Discuss two finalized SOPs with power customers at CCC meeting.	· · · · · · · · · · · · · · · · · · ·	10/10/2019 customer meeting.	4/2/2021		
	Finalize SOP, which identifies (a) what this revenue represents (definition of this water), (b) the		Non-permanent revenue SOP is complete and will be shared with power customers at the next			
	justification for the accounting process, and (c) description of the rate-setting schedules.	view annually.	11/1/2019 customer meeting.	4/2/2021		
	Review the guidelines annually.		11/1/2020 Reclamation can review Guidelines annually as needed.	Ongoing		
II).1.h Work	k with WAPA to maintain 10-year forecast of capital improvements. Review with customers at Technica	I Committee Meetings.			CVO	Melavi
	Complete 10-year forecast of capital improvements for CVP power infrastructure.		8/6/2019 Complete and ongoing revisions tied to each MMPPC meeting.	8/6/2019		
	I Doctomotion provided a precentation and an enperturity to review the 10 year teresect with CVD. I			0,0,2013		
	Reclamation provided a presentation and an opportunity to review the 10-year forecast with CVP		This was provided at the MMPPC and Technical Committee Meeting and finalized August 2019			
		ery Technical Committee	8/6/2019 Complete and ongoing.	8/6/2019		
		ery Technical Committee	8/6/2019 Complete and ongoing.  For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised			
		ery Technical Committee	8/6/2019 Complete and ongoing.  For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised and shared with power customers more frequently than annually (MMPPC, Technical Committee and			
	customers at Technical Committee Meetings.		8/6/2019 Complete and ongoing.  For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised and shared with power customers more frequently than annually (MMPPC, Technical Committee and CCC meetings). This has been included as part of the agenda for each meeting and is updated	8/6/2019		
	customers at Technical Committee Meetings.	nually.	8/6/2019 Complete and ongoing.  For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised and shared with power customers more frequently than annually (MMPPC, Technical Committee and			
II) 1 i - Work	Update 10-year forecast annually.	nually.	8/6/2019 Complete and ongoing.  For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised and shared with power customers more frequently than annually (MMPPC, Technical Committee and CCC meetings). This has been included as part of the agenda for each meeting and is updated	8/6/2019  Complete/Ongoing	MP-3000	Lubac
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II).1.i Work	Update 10-year forecast annually.  And with WAPA, power customers, and stakeholders to develop a variance percentage threshold between	nually.	8/6/2019 Complete and ongoing.  For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised and shared with power customers more frequently than annually (MMPPC, Technical Committee and CCC meetings). This has been included as part of the agenda for each meeting and is updated regularly. Updates are shared at each meeting as part of the agenda.  Reclamation submitted a memorandum to WAPA for approval, which proposes to establish a 10% variance threshold for budget and actual expenditures on multi-purposes O&M Construction Costs.	8/6/2019  Complete/Ongoing	MP-3000	Lubas
II).1.i Work	Update 10-year forecast annually.  And with WAPA, power customers, and stakeholders to develop a variance percentage threshold between Reclamation will seek customer and stakeholder input on appropriate variance percentage	nually.  budgeted and actual expenditures.	8/6/2019 Complete and ongoing.  For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised and shared with power customers more frequently than annually (MMPPC, Technical Committee and CCC meetings). This has been included as part of the agenda for each meeting and is updated regularly. Updates are shared at each meeting as part of the agenda.  Reclamation submitted a memorandum to WAPA for approval, which proposes to establish a 10% variance threshold for budget and actual expenditures on multi-purposes O&M Construction Costs. Explanation of any exceedance beyond 10% will be provided by both agencies. The memorandum was	8/6/2019 Complete/Ongoing	MP-3000	Lubas
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	Update 10-year forecast annually.  And with WAPA, power customers, and stakeholders to develop a variance percentage threshold between threshold.  Reclamation will seek customer and stakeholder input on appropriate variance percentage threshold.  On Determine appropriate variance percentage threshold between budgeted and actual expenditures for transparency of multipurpose O&M and construction costs.  Document and share variance percentage commitment with power customers.	budgeted and actual expenditures.  going.	8/6/2019 Complete and ongoing.  For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised and shared with power customers more frequently than annually (MMPPC, Technical Committee and CCC meetings). This has been included as part of the agenda for each meeting and is updated regularly. Updates are shared at each meeting as part of the agenda.  Reclamation submitted a memorandum to WAPA for approval, which proposes to establish a 10% variance threshold for budget and actual expenditures on multi-purposes O&M Construction Costs. Explanation of any exceedance beyond 10% will be provided by both agencies. The memorandum was submitted on 9/23/2020.  Reclamation prepared a memorandum for WAPA for approval, which proposes to establish a 10% variance threshold for budget and actual expenditures on multi-purposes O&M Construction Costs. Explanation of any exceedance beyond 10% will be provided by both agencies. The memorandum was 1/13/2020 drafted on 9/23/2020 and will be sent to WAPA for approval by the end of April.  6/1/2020 This information will be shared at the CCC meeting immediately following finalization.  Reclamation continues to develop this report and will share when completed. Suggested metrics for the data shared with customers via email. CVO Office shared Benchmarking data from 2016-2018	8/6/2019  Complete/Ongoing  9/23/2020  4/15/2021  4/15/2021		
	Update 10-year forecast annually.  And with WAPA, power customers, and stakeholders to develop a variance percentage threshold between threshold.  Reclamation will seek customer and stakeholder input on appropriate variance percentage threshold.  On Determine appropriate variance percentage threshold between budgeted and actual expenditures for transparency of multipurpose O&M and construction costs.  Document and share variance percentage commitment with power customers.	budgeted and actual expenditures.  going.	For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised and shared with power customers more frequently than annually (MMPPC, Technical Committee and CCC meetings). This has been included as part of the agenda for each meeting and is updated regularly. Updates are shared at each meeting as part of the agenda.  Reclamation submitted a memorandum to WAPA for approval, which proposes to establish a 10% variance threshold for budget and actual expenditures on multi-purposes O&M Construction Costs. Explanation of any exceedance beyond 10% will be provided by both agencies. The memorandum was submitted on 9/23/2020.  Reclamation prepared a memorandum for WAPA for approval, which proposes to establish a 10% variance threshold for budget and actual expenditures on multi-purposes O&M Construction Costs. Explanation of any exceedance beyond 10% will be provided by both agencies. The memorandum was 1/13/2020 drafted on 9/23/2020 and will be sent to WAPA for approval by the end of April.  6/1/2020 This information will be shared at the CCC meeting immediately following finalization.  Reclamation continues to develop this report and will share when completed. Suggested metrics for the data shared with customers via email. CVO Office shared Benchmarking data from 2016-2018 with Power customers in February 2020 at the TC Meeting	8/6/2019  Complete/Ongoing  9/23/2020  4/15/2021  4/15/2021		Lubas V

(III) 1 a - I laa kaat ayallahla salamaa!thl =t h							
III).1.a Use best available science with plant bypass operations.						CVO	Kit
				Reclamation will continue to coordinate with the groups to use data for decision-making and to			
				incorporate real-time monitoring into decisions. Updates from these meetings are provided during			
				customer meetings. In late October 2019, Reclamation and WAPA's engagement with the American			
				River group resulted in mitigating a proposed bypass of Folsom Powerplant by applying available			
				science. For Fall 2020 Reclamation is awaiting a power bypass proposal from the American River			
Coordinate with the American River and Sacramento Ri	iver groups when evaluating nower plant			Group. This proposal will be evaluated using current, relevant information and the best available			
	iver groups when evaluating power plant				0		
bypass operations for species mitigation.		Ongoing	Ungoing	science.	Ongoing	3	
				Reclamation will continue to coordinate with the groups to use data for decision-making and to			
				incorporate real-time monitoring into decisions. Updates from these meetings are provided during			
				customer meetings. In late October 2019, Reclamation and WAPA's engagement with the American			
				River group resulted in mitigating a proposed bypass of Folsom Powerplant by applying available			
				science. For Fall 2020 Reclamation is awaiting a power bypass proposal from the American River			
Coordinate with American River and Sacramento River	groups to ensure use of best available			Group. This proposal will be evaluated using current, relevant information and the best available			
science with plant bypass operations.	8		Ongoing	science.	Ongoing	,	
science with plant bypass operations.			Origonia	Science.	Origonia	5	
				The WADA fisheries higherist has been negligible in all positions to all positions and all offs.		1	
				The WAPA fisheries biologist has bee participating in all pertinent river system groups. All efforts are			
II).1.b Coordinate with WAPA fisheries biologist in adaptive manag	gement committees.			made to include the WAPA fisheries biologist in pertinent river systems discussions.	Ongoing	cvo	Kite
Invite WAPA biologist to tour the Central Valley Office	control center and provide an overview of						
CVO operations.	,		4/26/2010	Complete.	4/26/2019		
			7, 20, 2013		7, 20, 2013	+	
Invite MAADA fish suits bish site to the day of the	aggregation of the second seco						
Invite WAPA fisheries biologist to attend adaptive man							
Group and Sacramento River Temperature Task Group)	) to help ensure requests for power bypass						
operations are supported by best available science.			6/20/2019	Any information from those meetings is updated through WAPA's channels.	6/20/2019	<u> </u>	
II).1.c Review Shasta Water Control Manual (WCM) potential.						CVO-100	
				This action will occur when the U.S. Army Corps of Engineers initiates revisions to the WCM. The			
Reclamation will evaluate the forecast-informed reserv	oir operations when the U.S. Army Corps of			Shasta Water Control Manual can only be triggered by the Army Corps; which has not yet happened.	When action is	S	
Engineers opens this process for comment.	,	Ongoing	When situation occurs		nitiated by the USACE		
0					,		
II).1.d Provide updates on flood control operations.						CVO	Kite
				Flood operations updates are now included in the weekly status report to power customers			
Include flood operations updates in the weekly status r	reports to power customers.	Ongoing	8/30/2019	when in flood operations.	8/30/2019		
			3,23,232	Reclamation provides water operations updates at each power customer CCC meeting. This includes	5,00,000		
Discuss as a part of Reclamation's "Power Update" at a	All Power Customer CCC meetings	Ongoing	Ongoine	flood control operations when relevant.	Ongoing		Mal
Discuss as a part of Reciamation's Power Opuate at a	in Power Customer CCC meetings.	Ongoing	Ungoing	nood control operations when relevant.	Ongoing	gicvo	Mel
U) 1 - CVD II dan arran Ortana Cabadulina Francoscali at Mainte	war and Maior Businet Blancius Committee	(NANADDC)				6) (0)	Ган
II).1.e CVP Hydropower Outage Scheduling - Framework at Mainte		ee (IVIIVIPPC)				CVO	Fox
Inform customers about the concepts adopted in the C	CVP Hydropower Outage Scheduling						
framework document by posting to Reclamation's web	osite.		6/25/2019	Content of the Outage Scheduling Framework was presented at the summer 2019 CCC meeting.	6/25/2019		
Include an agenda item on the next MMPPC and the M			, ,			1	
schedule and receive input from power customers.	0 11 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9/5/2010	This action will occur when the next MMPPC is scheduled.	4/13/2020		
ISSUES ALE ALIA LESELY ETIDAL HOLL DOWN CLUMOTIC 13			3/3/2013	The second secon	., 15, 2020	+	
osticatio and receive input from power customers.		•	I			CVO	Fox
						ICVU	FUX
II).1.f Coordinate O&M, outages at MMPPC	ng to discuss and according to its according to			Declaration added this item to its arounds and will continue to discuss and according to at \$45,4000			
II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting	ng to discuss and coordinate items related		_	Reclamation added this item to its agenda and will continue to discuss and coordinate at MMPPC			
II).1.f Coordinate O&M, outages at MMPPC	ng to discuss and coordinate items related		Ongoing	meetings.	Ongoing		
II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting to O&M and planned and ongoing outages.				meetings.  Reclamation developed a guide and cost calculator. These are regularly used and discussed at		S	
II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting items for the MMPPC meeting items.				meetings.	Ongoing 4/2/2020	S	
II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting to O&M and planned and ongoing outages.  Develop a scheduling guide that Reclamation Area Office				meetings.  Reclamation developed a guide and cost calculator. These are regularly used and discussed at		3	
II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting to O&M and planned and ongoing outages.  Develop a scheduling guide that Reclamation Area Office  II).2.a Review and revise Hydropower Program Policy (FAC P04).	ces will utilize to help schedule outages.			meetings.  Reclamation developed a guide and cost calculator. These are regularly used and discussed at		S	Bish
II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting to O&M and planned and ongoing outages.  Develop a scheduling guide that Reclamation Area Office  II).2.a Review and revise Hydropower Program Policy (FAC P04).  Revise existing Hydropower Program Policy to develop	ces will utilize to help schedule outages.  appropriate language that Power Resources			meetings.  Reclamation developed a guide and cost calculator. These are regularly used and discussed at		3	Bish
II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting to O&M and planned and ongoing outages.  Develop a scheduling guide that Reclamation Area Office  II).2.a Review and revise Hydropower Program Policy (FAC P04).	ces will utilize to help schedule outages.  appropriate language that Power Resources			meetings.  Reclamation developed a guide and cost calculator. These are regularly used and discussed at		3	Bish
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II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting to O&M and planned and ongoing outages.  Develop a scheduling guide that Reclamation Area Office  II).2.a Review and revise Hydropower Program Policy (FAC P04).  Revise existing Hydropower Program Policy to develop Office will maintain, monitor, and renew procurement program services in a way that is consistent with existing	ces will utilize to help schedule outages.  appropriate language that Power Resources options to streamline regional hydropower		7/3/2019	meetings.  Reclamation developed a guide and cost calculator. These are regularly used and discussed at MMPPC meetings.  Complete.	4/2/2020 7/3/2019	PRO	Bish
II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting to O&M and planned and ongoing outages.  Develop a scheduling guide that Reclamation Area Office II).2.a Review and revise Hydropower Program Policy (FAC P04).  Revise existing Hydropower Program Policy to develop Office will maintain, monitor, and renew procurement program services in a way that is consistent with existing Brief DC leadership on Policy overview briefing.	ces will utilize to help schedule outages.  appropriate language that Power Resources options to streamline regional hydropower		7/3/2019 9/20/2019	meetings.  Reclamation developed a guide and cost calculator. These are regularly used and discussed at MMPPC meetings.  Complete.  Complete.	4/2/2020 7/3/2019 9/20/2019	PRO	Bish
II).1.f Coordinate O&M, outages at MMPPC  Include an ongoing agenda item for the MMPPC meeting to O&M and planned and ongoing outages.  Develop a scheduling guide that Reclamation Area Office  II).2.a Review and revise Hydropower Program Policy (FAC P04).  Revise existing Hydropower Program Policy to develop Office will maintain, monitor, and renew procurement program services in a way that is consistent with existing	ces will utilize to help schedule outages.  appropriate language that Power Resources options to streamline regional hydropower		7/3/2019 9/20/2019	meetings.  Reclamation developed a guide and cost calculator. These are regularly used and discussed at MMPPC meetings.  Complete.	4/2/2020 7/3/2019	PRO	Bish

Develop specific benchmarks to measure cost savings by using new procurement tools.  IV. Implementation - Value of Resource			Reclamation will share the benchmarks on the MP Power Website and in customer meetings.  Reclamation continues to explore procurement streamlining solutions. A benchmark strategy was developed in November 2019. At this point the Tennessee Valley Authority interagency Agreement has not been utilized on CVP projects. We have coordinated with them on upcoming work and plan to have them onsite to look at the proposed projects. We are also working on additional contracts to help in the streamlining efforts.  Ongoi		
(IV).1.a Continued support for WAPA - Energy imbalance market (EIM)			All initial hardware, software, and procedural needs for CVP participation in CAISO's Western Energy	CVO	Melavio
Continue to meet with customers to evaluate benefit and costs for implementation.			Imbalance Market (EIM) are in place. CVP will begin live operations in the EIM at 0001 on March 25th, 2021. Beyond the March 25th go-live, CVO will continue to work with WAPA and other partners on refinements of effective market operational strategies to capitalize on the flexibility of the CVP hydro resources in the EIM. Future updates on the economic performance of the EIM will generally be provided by the WAPA SNR office during their regular customer meetings.  Ongoi	ng	
Continue coordination meetings with Reclamation, WAPA and BANC.		4/2019 - Ongoing	Frequent meetings continue to occur between Reclamation, WAPA, and BANC. Ongoin	ng	
		,	Public comment period on EIM ended on 8/16/19. On Aug 27, 2019, WAPA made a determination to		
			move forward with their Sierra Nevada Region's participation in EIM. Reclamation is continuing to		
Continue to provide support for following WAPA determination on implementing EIM.		Ongoing	support WAPA during implementation process. 8/27/20	.9	
(IV).1.b Explore water order schedules to allow for better forecasting of O'Neil Pump/Generation Plant operations a	and power demands.			CVO	Fox
Meet with SLDMWA, San Joaquin River Water Authority, and San Joaquin River Exchange Contractors to discuss option on improving O'Neil Operations.			Water customers (SLDMWA, San Joaquin River Water Authority, and San Joaquin River Exchange Contractors) have agreed to improve forecasting of operations at O'Neill Complete.  6/12/20:	0	
Share power economics data with water customers.			Economics shared - Complete. 6/12/20:	_	
Test the new process to transmit O'Neill and Tracy PUP schedules to the SLDMWA.		, ,	A new process was developed and testing began in October 2019. The process includes transmitting daily pumping generation schedules between CVO and SLDMWA. Denver IT approved direct transfer of data to SLDMWA in December 2019.		
		,-,			
(IV).1.c Adopt principles outlined in framework on improved operational flexibility.					
Discuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings.  Ongo	going	Ongoing	Power Update is provided at CCC meetings regularily.  Ongoi	ng CVO	Melav
(IV).1.d Advance discussions about optimizing operational flexibility scheduling.					
Evaluate proposals submitted by power customers to determine whether they should become part of standard operations.		8/2019 - Ongoing	USBR and WAPA explored scheduling flexibility for the Base Resource product to allow customers to realize higher value for the product. As a general rule, subject to generation holding load requirements, the customers' hourly scheduling limits for Base Resource will follow the market price hydropower websitend. These scheduling flexibility enhancements have been instituted as standard operating process and have resulted in increased value of the Base Resource by allowing customers to schedule less energy in the low value hours and more energy in the high value hours.  Reference Region hydropower website for graphic updates and have resulted in increased value of the Base Resource by allowing customers to schedule less may also be presentation by WAP energy in the low value hours and more energy in the high value hours.	te te A.	
Discuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings.  Ongo	going	10/10/19 - Ongoing	Experiments are evaluated monthly and discussed regularly at Power Customer CCC meetings.  Ongoin	g CVO	
(IV).2 Track schedule for California zero carbon and carbon neutral rulemaking process.					Bisho
Reclamation's Power Resources Office will track the schedule for the California zero carbon and carbon neutral energy rulemaking process.		9/1/2021	Reclamation is registered with California State list-serves responsible for SB-100 implementation and will receive updates as the rulemaking process continues. Reclamation's Power Resources Office will continue to work with the HPOC to keep awareness of this action. Reclamation supports Power Customer's desire to have large hydro count for renewable energy credits and understands the significance of this desire. No significant updates to SB-100/zero carbon goals.  Ongoin	ng	
V. Implementation - Improved Customer Service					
Vi implementation - improved customer service					
				1	1

	Engage power in the planning process and provide regular updates to power customers.	Ongoing		The State of California continues to proceed with planning efforts for the Delta Conveyance Project. The state released the Notice of Preparation (NOP) for the new project. Reclamation submitted a comment letter that requested a clear delineation between the existing biological monitoring requirements and the monitoring requirements resulting from changes from system wide programs due to the addition of the Delta Conveyance Project; an initial plan that describes how DWR would operate the Delta Conveyance Project and comply with Federal Endangered Species Act requirements related to operations; and a detailed analysis of the effects of the Delta Conveyance Project on the CVP. From Reclamation's perspective, there is not anything new to report. Reclamation has not reengaged with the State of California on Delta Conveyance Project and we are not sure what direction this Administration will want to go regarding the project and our participation.	Ongoing	, cvo	
(V).1.I	o Develop Mid-Pacific webpage on Reclamation's website to host initiative updates.					PAO	Plain
	Develop webpage that contains the (a) coordinated action plan, (b) biannual updates, (c) accomplishments, and (d) reference materials for the CVP Power Initiative.		6/24/2019	The webpage and all associated information can be found here: https://www.usbr.gov/mp/hydro.html - Complete.	6/24/2019	)	