Milestone	Action	Target Completion	Status	Completion Date
I. Reportir	ng and Implementation			
(I).1.a Prov	ride a report of implementation to the Commissioner and Deputy Commissioners.			
			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.	8/23/2019	https://www.usbr.gov/mp/hydro.html.	8/23/2019
(I).1.b Prov	vide an implementation status report to the Commissioner and Deputy Commissioners.			
		40/22/2040	This was in all the conf County and County a	40/40/2046
	Provide an implementation status report of the action plan within 120 days of memo.	10/23/2019	This revised plan as of October 18, 2019 is the 120-day status report. This revised plan as of April, 2020 and presented to the next customer forum (CCC), tentatively	10/18/2019
	Dravida a status report avery 6 months	4/20/2020	schedule May 14, 2020.	4/14/2020
+	Provide a status report every 6 months. Provide a status report every 6 months.	10/16/2020		4/14/2020
+	Provide a status report every 6 months. Provide a status report every 6 months.	4/15/2021		
+	Provide a status report every 6 months. Provide a status report every 6 months.	10/12/2021		
+	Provide a status report every 6 months.	4/8/2022		_
II. Implem	entation - Cost Stability - Predictability and Transparency			
(II).1.a Wo	rk with customers, WAPA and project proponent for Sites/North-of-Delta Off-Stream Storage (NODO	S) Project on hydropow	er purpose analysis.	
	Discuss analysis of benefits, costs, and financial impacts associated with the draft feasibility			
	report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power		Discussion Initiated in January 2019 customer meeting and ongoing per customer request to	
	customers at Power Customer Customer Coordination Committee (CCC) meeting.		,	
	()	1/15/2019	receive updates.	3/13/2019
	Draft Lt-gen hydropower purpose analysis for Sites/NODOS project discussion with power		receive updates.	3/13/2019
	· · · · ·		receive updates. Draft Lt-Gen anlaysis in review processes. MP-700 currently reviewing Paul Landry white paper.	3/13/2019
	Draft Lt-gen hydropower purpose analysis for Sites/NODOS project discussion with power		Draft Lt-Gen anlaysis in review processes. MP-700 currently reviewing Paul Landry white paper. Discussed with Power customers on 2/11/2020 CCC Meeting and with WAPA/Sites	3/13/2019
	Draft Lt-gen hydropower purpose analysis for Sites/NODOS project discussion with power		praft Lt-Gen anlaysis in review processes. MP-700 currently reviewing Paul Landry white paper. Discussed with Power customers on 2/11/2020 CCC Meeting and with WAPA/Sites Administrator. Sites/NODOS is behind schedule due to staffing issues. Met internally and with	3/13/2019
	Draft Lt-gen hydropower purpose analysis for Sites/NODOS project discussion with power		Draft Lt-Gen anlaysis in review processes. MP-700 currently reviewing Paul Landry white paper. Discussed with Power customers on 2/11/2020 CCC Meeting and with WAPA/Sites Administrator. Sites/NODOS is behind schedule due to staffing issues. Met internally and with Sites administrator in Jan/Feb 2020. Currently pursuing 2x paths with USBR as exchange	3/13/2019
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	Draft Lt-gen hydropower purpose analysis for Sites/NODOS project discussion with power		Draft Lt-Gen anlaysis in review processes. MP-700 currently reviewing Paul Landry white paper. Discussed with Power customers on 2/11/2020 CCC Meeting and with WAPA/Sites Administrator. Sites/NODOS is behind schedule due to staffing issues. Met internally and with Sites administrator in Jan/Feb 2020. Currently pursuing 2x paths with USBR as exchange customer or investor. AECOM is still working on the Feasability report itself and expect delivery at the end of April 2020. A determination of feasibility is expected by the Secretary around	3/13/2019
	Draft Lt-gen hydropower purpose analysis for Sites/NODOS project discussion with power preference customers.	2/11/2019	Draft Lt-Gen anlaysis in review processes. MP-700 currently reviewing Paul Landry white paper. Discussed with Power customers on 2/11/2020 CCC Meeting and with WAPA/Sites Administrator. Sites/NODOS is behind schedule due to staffing issues. Met internally and with Sites administrator in Jan/Feb 2020. Currently pursuing 2x paths with USBR as exchange customer or investor. AECOM is still working on the Feasability report itself and expect delivery at the end of April 2020. A determination of feasibility is expected by the Secretary around November 2020. The feasibility report will go forward using the 2017 draft EIS/EIR that went out	3/13/2019
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	Draft Lt-gen hydropower purpose analysis for Sites/NODOS project discussion with power preference customers.	2/11/2019	Draft Lt-Gen anlaysis in review processes. MP-700 currently reviewing Paul Landry white paper. Discussed with Power customers on 2/11/2020 CCC Meeting and with WAPA/Sites Administrator. Sites/NODOS is behind schedule due to staffing issues. Met internally and with Sites administrator in Jan/Feb 2020. Currently pursuing 2x paths with USBR as exchange customer or investor. AECOM is still working on the Feasability report itself and expect delivery at the end of April 2020. A determination of feasibility is expected by the Secretary around November 2020. The feasibility report will go forward using the 2017 draft EIS/EIR that went out for public comment. The final EIS/EIR is to be completed by end of 2021.	3/13/2019
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(II).1.b Con	Draft Lt-gen hydropower purpose analysis for Sites/NODOS project discussion with power preference customers. Submit administrative Final Feasibility Report to Commissioner's Office. Submit administrative Final Environmental Impact Statement to Commissioner's Office. Participate in regular calls and discussions with Joint Power Authority to develop operations plan proposal. Work with WAPA, customers and project proponents to finalize operations plan after determination of feasibility. nmunicate any modifications to the benefits analysis in the NODOS Feasibility Report to power custo Draft Lt-gen benefits analysis for Sites/NODOS project for discussion with power preference	2/11/2019 10/31/2020 10/31/2020 Ongoing TBD mers and appropriate st	Draft Lt-Gen anlaysis in review processes. MP-700 currently reviewing Paul Landry white paper. Discussed with Power customers on 2/11/2020 CCC Meeting and with WAPA/Sites Administrator. Sites/NODOS is behind schedule due to staffing issues. Met internally and with Sites administrator in Jan/Feb 2020. Currently pursuing 2x paths with USBR as exchange customer or investor. AECOM is still working on the Feasability report itself and expect delivery at the end of April 2020. A determination of feasibility is expected by the Secretary around November 2020. The feasibility report will go forward using the 2017 draft EIS/EIR that went out for public comment. The final EIS/EIR is to be completed by end of 2021. Participating in Reservoir Committee and Executive Committee meetings. Schedule will be created after determination of Feasibility; Principles of Operation and basic guidelines include no harm to CVP Operations Draft Lt-Gen anlaysis in review processes. MP-700 currently reviewing Paul Landry white paper.	3/13/2019 Ongoing

	rticipate in regular calls and discussions with Joint Power Authority to develop operations plan			
l'	oposal.		Participating in Reservoir Committee and Executive Committee meetings.	
	ork with WAPA, customers and project proponents to finalize operations plan after		Schedule will be created after determination of Feasibility; Principles of Operation and basic	
det	termination of feasibility.	TBD	guidelines include no harm to CVP Operations	
(II) 1 c - Work with	h non-federal cost share partners, preference power customers, WAPA and stakeholders for Sha	sta Paisa hydronowar	nurnose analysis	
	ovide Shasta Dam Raise updates at WAPA CCC meeting to ensure benefits, costs, and financial	sta Kaise Hydropower	purpose arranysis.	
	pacts associated with the draft Feasibility Report's inclusion of a hydropower purpose to the			
	oposed project are analyzed, evaluated, and considered as the project moved forward.	8/22/2019	Complete	8
p. C	project and anian, 200, or an access of an access and an and project more and not an access and acc	0/22/2013	LT-Gen and PLEXOS models continue to be analyzed by Reclamation. LTGen model may be	
			overprediciting generation and therefore planning dviision is reviewing model and looking for	
			solutions. They are currently migrating to a greater focus on LT GEN for power modeling, instead	
Lt-	gen corrections for power benefits due/to-be-completed.	11/1/2019	of PLEXOS. Currently finishing CalSim modeling and then will pivot focus on LTGen.	
	entract to be awarded to provide additional PLEXOS runs to improve hydropower benefits	11/1/2013	or received missing easing modeling and their will proceeds on Er dem	
	alysis.	11/1/2020	Contract awarded. Complete.	8
			Benefits analysis will be provided at the power customer meeting following completion.	
Col	omplete revised benefits analysis.		Currently reviewing the modelling results of the revised benefits analysis.	
(II).1.d Work with	h preference power customers and WAPA as appropriate on other feasibility studies.			
Dis	scuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings to ensure		As reported at the power update provided at the October 10, 2019 CCC meeting, a Reclamation	
the	e benefits, costs, and financial impacts associated with the inclusion of a hydropower purpose		team has actively been analyzing the models LT Gen and Plexos to assess the level of accuracy	
for	r proposed projects are analyzed, evaluated, and considered as projects move forward.	Ongoing	appropriate for feasibility studies. As of April, 2020, this is still ongoing.	
(II).1.d.1 If feasib	pility is appropriately determined and Congressional authorization provided for a project - work v	vith power customers,	WAPA, project proponents, water contractors, and stakeholders to develop detailed operations pla	n.
Mo	odify appropriate internal directives to include outreach for stakeholders and power marketing		Following release of Appraisal Study D&S (CMP 09-01) and Planning Policy (CMP P09),	
_	encies. Determine if additional outreach is required before feasibility is determined and add to		Reclamation will begin updates to CMP 09-02 in 2019. CMP 09-02 was revised on December 12,	
	propriate directives and standards (if not already included).	7/31/2020	2019. As D&S are updated, BOR wil provide updates to CVP Power customers as relevant.	
	clamation's Planning Office (MP-700) will begin coordination and development of detailed			
1 '	perations plan if and when feasibility is appropriately determined and Congressional			
aut	thorization is provided for a project.	Ongoing	Work will occur if/when feasibility is determined for any proposed project.	
/II) 1 a Davidar a	a Standard Operating Procedure (SOP) to document methodology and procedures for construction	an cost recovery		
(ii). i.e Develop a	a standard Operating Procedure (SOP) to document methodology and procedures for construction	on cost recovery.	Reclamation met with the CVP FAC and determined the SOP will document what Reclamation will	
NAC	eet with CVP Financial Affairs Committee (FAC) to determine items for SOP.	7/10/2010	do to ensure repayment is accomplished by 2030.	7
	evelop draft SOP within 60 days of meeting with FAC.	<u> </u>	An SOP has been drafted and is under internal review.	
	are draft SOP at next FAC meeting.	9/20/2019	All SOF has been drafted and is under internal review.	
	are draft SOP at WAPA CCC Customer Meeting.	10/10/2019		
5110	are draft 501 at WALA eee customer weeting.	10/10/2013		
(II).1.f Develop ai	id-to-irrigation document for Water Infrastructure Improvement for the Nation (WIIN) Act project	cts.		
			Reclamation provided a presentation on and consulted with water and power stakeholders on	
De	evelop document describing handling of aid-to-irrigation for WIIN Act construction prepayment		TRMR #122, which was then finalized August 2019. The document can be found here:	
and	d new construction projects funded under WIIN authorities within 60 days of memo.	8/28/2019	https://www.usbr.gov/recman/temporary_releases/pectrmr-122.pdf	8
(II).1.g Share the	SOP documenting the methodology for treatment of non-permanent revenue.			
			Two draft SOP's have been prepared. They are being looked at internally and shared with	
			Reclamation FAC customers proir to sharing with WAPA. This is something that needs shared	
			with the FAC for their comment prior to providing to WAPA for their comments. Still in Internal	
	are draft SOP with customers at customer CCC meeting.		review process.	
	scuss two finalized SOPs with power customers at CCC meeting.	10/10/2019	To be shared at a CCC meeting following internal review of the SOP.	
	nalize SOP, which identifies (a) what this revenue represents (definition of this water), (b) the			
jus	stification for the accounding process, and (c) description of the rate-setting schedules.	11/1/2019		
	view the guidelines annually.	11/1/2020		

•	k with WAPA to maintain 10-year forecast of capital improvements. Review with customers at Technica	Committee Meetill	Po-	
	Complete 10-year forecast of capital improvements for CVP power infrastructure.	8/6/2019	Complete and ongoing revisions tied to each MMPPC meeting.	
	Reclamation provided a presentation and an opportunity to review the 10-year forecast with CVP	3, 3, 2323	This was provided at the MMPPC and Technical Committee Meeting and finalized August 2019	
	customers at Technical Committee Meetings.	8/6/2019	Complete and ongoing.	
	.	2, 2, 2 2	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	
	Update 10-year forecast annually.	8/1/2020	Committee and CCC meetings).	
(II).1.i Work	with WAPA, power customers, and stakeholders to develop a variance percentage threshold between	hudgeted and actua	l expenditures	
(,	Reclamation will seek customer and stakeholder input on appropriate variance percentage	Dangerou and detail	- expensations	
	threshold.	10/31/2019	Coordinate variance percentage determination with WAPA, power customers and stakeholders.	
	Determine appropriate variance percentage threshold between budgeted and actual expenditures	-,-,	, , ,	
	for transparency of multipurpose O&M and construction costs.	1/13/2020		
	Document and share variance percentage commitment with power customers.		This information will be shared at CCC meeting.	
(II).1.j Imple	ement benchmarking of CVP hydropower data and share annually.			
			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-	
	Prepare preliminary report outling results of cost and operational data for CVP generators.	10/31/2019	2018 with Power customers in February 2020 at the TC Meeting	
			Results were shared at customer TC meeting in February 2020 following completion. This is an	
	Share results with Reclamation management and power customers.	10/31/2019	annual requirement and will continue each year after benchmarking results are finalized.	
	Prepare and share report with Reclamation management and power customers annually.	10/31/2020	Results will be shared at TC meetings annually.	
•	nentation - Lost Production Opportunities			
	best available science with plant bypass operations.		Reclamation will continue to coordinate with the groups to use data for decision-making and to	
			Reclamation will continue to coordinate with the groups to use data for decision-making and to incorporate real-time monitoring into decisions. Undates from these meetings are provided	
			incorporate real-time monitoring into decisions. Updates from these meetings are provided	
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	best available science with plant bypass operations. Coordinate with the American River and Sacramento River groups when evaluating power plant	Ongoing	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	
	best available science with plant bypass operations.	Ongoing	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.	
	best available science with plant bypass operations. Coordinate with the American River and Sacramento River groups when evaluating power plant	Ongoing	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. Reclamation will continue to coordinate with the groups to use data for decision-making and to	
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(III).1.d Provide u	updates on flood control operations.			
			Flood operations updates are now included in the weekly status report to power	
Inc	clude flood operations updates in the weekly status reports to power customers.	8/30/2019	customers when in flood operations.	8/30/
D:-			Reclamation provides water operations updates at each power customer CCC meeting. This	
Dis	scuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings.	Ungoing	includes flood control operations when relevant.	On
(III).1.e CVP Hydr	opower Outage Scheduling - Framework at Maintenance and Major Project Planning Committee	e (MMPPC)		
Inf	orm customers about the concepts adopted in the CVP Hydropower Outage Scheduling			
fra	mework document by posting to Reclamation's website.	6/25/2019	Framework is available at https://www.usbr.gov/mp/hydro.html.	6/25/
	clude an agenda item on the next MMPPC and the MP SNR O&M meeting to discuss FY20			
Ou'	tage schedule and receive input from power customers.	9/5/2019	This action will occur when the next MMPPC is scheduled (proposed date is 7/15/2020).	4/13/
(III).1.f Coordinat	te O&M, outages at MMPPC			
	clude an ongoing agenda item for the MMPPC meeting to discuss and coordinate items related		Reclamation added this item to its agenda and will continue to discuss and coordinate at MMPPC	
	O&M and planned and ongoing outages.	Ongoing	meetings.	ong
De	velop a scheduling guide that Reclamation Area Offices will utilize to help schedule outages.	4/1/2020	Reclamation continues to develop this guide and provide updates at MMPPC meetings.	ong
(III).2.a Review a	nd revise Hydropower Program Policy (FAC P04).			
	vise existing Hydropower Program Policy to develop appropriate language that Power			
Res	sources Office will maintain, monitor, and renew procurement options to streamline regional			
hyd	dropower program services in a way that is consistent with existing law and regulations.	7/3/2019	Complete.	7/3/2
Bri	ef DC leadership on Policy overview briefing.	9/20/2019	Complete.	9/20/2
Pul	blish revised Hydropower Program Policy.	12/1/2019	FAC P04 was revised and published on 10/23/2019	10/23/2
(III) 2 h - Track and	d evaluate the performance of implemented procurement streamlining solutions.			
(III).2.b Hack and	evaluate the performance of implemented procurement streamining solutions.		Reclamation will share the benchmarks on the MP Power Website and in customer meetings.	
De	velop specific benchmarks to measure cost savings by using new procurement tools.	11/1/2019	Reclamation continues to explore procurement streamlining solutions.	Ong
IV. Implementa	ation - Value of Resource			
(IV).1.a Continue	d support for WAPA - Energy imbalance market (EIM)			
			Reclamation provided the data for the gap analysis to BANC. Reclamation continues work on	
			planning SCADA modifications for entering into the EIM. Reclamation received approval from	
			customers' Governance Board for funding the EIM in future year. October 2019 status:	
			Reclamation (CVO) planning to develop new dispatch algorithm by Sep 2020. WAPA and	
			Reclamation have held meetings up through April 2020 in regards to evaluating benefits and	
Co	ntinue to meet with customers to evaluate benefit and costs for implementation.	4/2019 - Ongoing	costs for implementation. Reclamation has developed an O&M cost rate.	4/2020 - Ong
Co	ntinue coordination meetings with Reclamation, WAPA and BANC.	4/2019 - Ongoing	Frequent meetings continue to occur between Reclamation, WAPA, and BANC.	4/2020 - Ong
			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.	
Co	ntinue to provide support for following WAPA determination on implementing EIM.	Ongoing	Reclamation is continuing to support WAPA during implementation process.	8/27,
(IV).1.b Explore v	water order schedules to allow for better forecasting of O'Neil Pump/Generaton Plant operations	s and power demands		
	pot with SLDMANA. San Joaquin Biyor Water Authority, and San Jacquin Biyor Sychono		Water sustamors (SLDMWA San Japania Biver Water Authority, and San Japania Biver Suchara	
	eet with SLDMWA, San Joaquin River Water Authority, and San Joaquin River Exchange	C /4.2 /2.2.4.2	Water customers (SLDMWA, San Joaquin River Water Authority, and San Joaquin River Exchange	6/40
	ntractors to discuss option on improving O'Neil Operations.		Contractors) have agreed to improve forecasting of operations at O'Neill Complete.	6/12/
Sha	are power economics data with water customers.	6/12/2019	Economics shared - Complete.	6/12

(IV).1.c Ad	opt principles outlined in framework on improved operational flexibility.			
	Discuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings.	Ongoing	Power Update was provided at the CCC on October 10, 2019.	Ongoin
(IV).1.d Ad	 vance discussions about optimizing operational flexibility scheduling.			
	Evaluate proposals submitted by power customers to determine whether they should become part of standard operations. Discuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings. k schedule for California zero carbon and carbon neutral rulemaking process.		Experiments 1, which proposed lower minimum takes in daylight low value hours, and 2, which proposed lower minimum takes in surrounding hours by raising minimum takes in the monring on-peak hours, were accepted by Reclamation and WAPA to become a part of standard operations in August 2019. Experiment 3, under which customers pre-disclose portions of their intended BR schedule, appears to be a useful tool, but needs some automation to reduce the impact on schedulers for customer data collection. A new experiment (4) was proposed by a WAPA contractor at last customer meeting which would provide a volume target to customers with the goal of providing even more customer flexibility. The proposal is a recognition that there is a machine minimum at which some machines will operate at; an opportunity to watch lake levels to minimize between hours of midnight and HE16 and move production of BR energy to the high value hours Reclamation is considering this experiment and alternatives. Exp 4 could realize higher value from reshape, but could also create difficult generation transitions and create sub-optimal max peaking periods. All Experiments showed reduction on Max Peaking Experiments are evaluated monthly and discussed regularly at Power Customer CCC meetings. Reclamation is registered with California State list-serves responsible for SB-100 implementation	2/2020 - Ongoir 10/10/19 - Ongoir
	Reclamation's Power Resources Office will track the schedule for the California zero carbon and carbon neutral energy rulemaking process.	9/1/2021	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.	Ongoiı
V. Implem	nentation - Improved Customer Service			
(V).1.a Add	opt framework for large-scale delta conveyance facility.			
	Engage power in the planning process and provide regular updates to power customers.	5/31/19 - 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.	4/20/2020 - Ongoir
(\/) 1 h - Do	velop Mid-Pacific webpage on Reclamation's website to host initiative updates.			
(٧).1.0 Det				