## UNCLASSIFIED\\FOR OFFICIAL USE ONLY

Comment Report: All Comments Project: (CRSO EIS) IEPR Reviews Review: EIS Review Displaying 23 comments for the criteria specified in this report. 656 ms to run this page

ld 📥 Discipline Section/Figure Page Number Line Number Final Panel Comment 8587361 Environmental n/a n/a Comment Classification: Unclassified\\For Official Use Only (U\\FOUO) (Document Reference: Significance Level - Medium/High) The implementation of adaptive management in the CRSO would benefit from a more robust, science-based adaptive management model that can be used to guide program development and support future decision making. (Attachment: CRSO\_EIS\_Final\_Panel\_Comment\_1.docx) Submitted By: Lynn McLeod (781/681-5510). Submitted On: May 19 2020 1-0 Evaluation Concurred The co-lead agencies agree that "implementation of a practically optimal CRSO will require a timely, robust, scientific adaptive management model to confirm, test, or modify management operations and effectively deal with changing conditions and new information over time." We have added additional content to Appendix R to more clearly make this point. Additional information and discussion is included in the attached response. Submitted By: Rachel Mesko (651-323-7178) Submitted On: Aug 11 2020 (Attachment: CRSO EIS IEPR FPC 1.docx) 1-1 Backcheck Recommendation Close Comment Concur Submitted By: Lynn McLeod (781/681-5510) Submitted On: Aug 11 2020 Current Comment Status: Comment Closed Final Panel Comment 8587362 Cultural Resources n/a n/a 2 Comment Classification: Unclassified\\For Official Use Only (U\\FOUO) (Document Reference: Significance Level - Medium/High) The CRSO DEIS does not identify which built resources are eligible for listing in the NRHP, and what effects project actions would have on such resources. (Attachment: CRSO EIS Final Panel Comment 2.docx) Submitted By: Lynn McLeod (781/681-5510). Submitted On: May 19 2020 1-0 Evaluation Non-concurred The co-lead agencies acknowledge the importance of the National Historic Preservation Act (NHPA) and implement a robust section 106 compliance program in keeping with the FCRPS Systemwide Programmatic Agreement (SWPA), as described in section 3.16.1. Additional information and discussion is included in the attached response. Submitted By: Rachel Mesko (651-323-7178) Submitted On: Aug 11 2020 (Attachment: CRSO EIS IEPR FPC 2.docx) 1-1 Backcheck Recommendation Close Comment Concur - The Panel understands and appreciates the PDT's response, but feels that the Colead agency's Section 106 compliance program would be strengthened by using the National

8587366 Comment Classific (Document Refere The approach use and subjective. (Attachment: CRS	Submitted By: Lynn M Current Comment Sta Cultural Resources ation: <b>Unclassified\\For O</b> nce: Significance Level - M d to determine what constit	n/a fficial Use Only ( ledium) utes a built resources ent_4.docx)	losed (U\\FOUC	Final Panel Comment 4 <b>D)</b> us an archaeological pr	n/a roperty is too narrow
8587366 Comment Classific (Document Refere The approach use and subjective.	Submitted By: Lynn M Current Comment Sta Cultural Resources ation: Unclassified\\For Of nce: Significance Level - M d to determine what constit	n/a fficial Use Only ( ledium) :utes a built resou	losed (U\\FOUC	Final Panel Comment 4 <b>))</b> us an archaeological pr	n/a roperty is too narrow
8587366 Comment Classific (Document Refere	Submitted By: Lynn M Current Comment Sta Cultural Resources ation: Unclassified\\For Ot nce: Significance Level - M	n/a fficial Use Only ( edium)	losed (U\\FOU(	Final Panel Comment 4 <b>))</b>	n/a
3587366	Submitted By: Lynn M Current Comment Sta Cultural Resources	n/a	losed	Final Panel Comment 4	n/a
	Submitted By: Lynn M Current Comment Sta	itus: Comment Cl	losed		
	Submitted By: Lynn M				
		Icl and (781/681-F	5510) Su	bmitted On: Aug 11 20	20
	1-1 Backcheck Recomme Concur - The respons considered is satisfac	ndation <b>Close Co</b> se from the PDT tl story.	omment hat emer	ging climate change in	formation will be
	Submitted By: Rachel CRSO_EIS_IEPR_FP	Mesko (651-323- C_3.docx)	-7178) S	ubmitted On: Aug 11 2	020 (Attachment:
	Additional information	and discussion is	s include	d in the attached respo	onse.
	1-0 Evaluation Non-concerned Extreme events were change studies and we temperature patterns and volumes. The eva projections developed techniques, and hydro information was used river systems and res	urred included in the cli vork, the co-lead a and resulting char aluation consisted l using multiple gli blogic models. Dei to describe the p sources due to pot	imate an agencies nges in u of the fu obal clim tails of th otential ch tential ch	alysis. Through on-goin evaluated potential shi inregulated Columbia E ill range of the latest c ate models, emissions his evaluation are in ch effects (both beneficial anges in climate for all	ng regional climate ifts in precipitation and Basin streamflow timin limate change scenarios, downscalir apter 4 of the EIS. Th and adverse) on the I alternatives.
Revised May 19 2	020.		ay 19 20	20	
Attachment: CRS	D_EIS_Final_Panel_Comme	ent_3.docx)	40.00	20	
The assessment of	r climate change does not o	consider the impa	icts of ind	creases in extreme clin	nate events.
(Document Refere	nce: Significance Level - M	edium)		, . , .	
Comment Classifi	Environmental	fficial Use Only (	(U\\FOUC	3 D)	n/a
				Final Panel Comment	
	Current Comment Sta	itus: Comment Cl	losed		
	Submitted By: Lynn M	/IcLeod (781/681-5	5510) Su	bmitted On: Aug 11 20	20
	those built resources could focus on those operational and struct	that are eligible for historic properties tural measures un	or the NF with the der the v	RHP, or historic propert highest likelihood to b various alternatives.	ies. Thus, the Co-lead be impacted by the
	properties and resolve	ermine the effects any adverse effects	s of the o ects. The	properties would strean operational and structure Co-leads would only r	eservation Act. Using nline the Co-lead ral measures on histor need to concentrate of
	Programmatic Agreen the NRHP eligibility p agency's ability to det	nent for complianc rocess to identify	ce with th	ne National Historic Pre	·

1-1	Evaluation <b>Non-concur</b> The co-lead agencies r a built resource versus agency cultural resource professional cultural res- resource characteristic historic archaeological structures, and multi-co- evidence of one or mor description of what con- draft EIS. Additional information a Submitted By: Rachel M CRSO_EIS_IEPR_FPC Backcheck Recomment Concur - The Panel stil approach on what cons provide clarity for unde under the various altern 50 years of age, no lor provide such flexibility. Offices in the states of what constitutes an arc could develop an appro- Submitted By: Lynn Mo	rred respectfully disagree the an archaeological prop ses team leads have ove sources management ex- differences between pre- sites, historic built envir omponent sites, or sites re of the aforementioned and discussion is include (651-323-7178) S _4.docx) dation Close Comment Il feels that the DEIS wo stitutes a built resource rstanding the difference natives. Clearly the stan inger in use, and deterion While the Panel apprece Washington, Oregon, Id chaeological resource ve bach based on the cons stace (781/681-5510) Su	approach used to deter erty is too narrow or sub er approximately 70 year operience and are very of e-contact archaeological onment sites, to include that exhibit one or more d site types. The agencie he built environment in s ed in the attached respo Submitted On: Aug 11 20 build benefit from a broad versus an archaeological s and treatment of both idard that defines a built rating as an archaeologic states that the State Hist daho and Montana use versus a built resource, th ensus of the definitions ubmitted On: Aug 11 20	mine what constitutes ojective. The co-lead rs of combined cognizant of the sites, post-contact and buildings and e characteristics or es provide an adequate section 3.16.2.5 of the nse. 020 (Attachment: der, more flexible il property that would types of resources resource that is over cal property does not oric Preservation varying definitions of e Co-lead agencies used by those states. 20
8587367	Economics	n/a	Final Panel Comment 5	n/a
Comment Classification (Document Reference: The definition of local workshops in recreation. (Attachment: CRSO_EI Submitted By: Lynn Mc 1-0	a: Unclassified\\For Off Significance Level - Mea versus non-local visitors S_Final_Panel_Commer Leod (781/681-5510). S Evaluation Non-concur The PDT does not com appropriate for the agg the regional economic spending in gateway co Additional information a Submitted By: Rachel N CRSO_EIS_IEPR_FPC Backcheck Recomment Concur - The Panel is Submitted By: Lynn Mc	icial Use Only (U\\FOU dium) is not appropriate for the nt_5.docx) submitted On: May 19 20 rred cur that the definition of regation of economic im impact analysis is at the impacts in terms of jobs ommunities. and discussion is include Mesko (651-323-7178) S _5.docx) dation Close Comment able to concur given the sLeod (781/681-5510) St us: Comment Closed	D20 F local versus non-local versus non-local versus non-local versus non-local versus non-local versus from changes in resite- or project- level, versus and income of changes ed in the attached responded in the attached res	nic impacts from visitors is not ecreation. The focus of vhich is designed to s in non-local visitor nse. 020 (Attachment: vided by the PDT. 20
			Final Danal Commercia	
8587370	Economics	n/a	6	n/a

Comment Classification (Document Reference:	n: Unclassified\\For Off Significance Level - Me	<b>icial Use Only (U∖\FOU</b> dium)	0)	
The inconsistent use of results for shipment co	f datasets for the commo sts.	odities modeled by SCE	NT and TOM distorts th	e comparisons of
(Attachment: CRSO_EI	S_Final_Panel_Commer	nt_6.docx)		
Submitted By: Lynn Mo	Leod (781/681-5510). S	ubmitted On: May 19 20	)20	
1-0	Evaluation <b>Non-concur</b> The PDT concurs that identical data, but it do would be significantly a wheat production as we Snake River which, as the lower Snake River.	rred it would be ideal to have es not concur that the e iffected by this change. ell as the 10-year averag the reviewer notes, is th	e both the SCENT and <sup>-</sup> iffect of shipping costs u The basis for the TOM ge of downriver wheat s ne majority of the comm	TOM models utilize inder the alternatives model is the regional hipments on the lower odities that travel on
	Additional information a	and discussion is include	ed in the attached respo	nse.
	Submitted By: Rachel I CRSO_EIS_IEPR_FPC	Mesko (651-323-7178) S _6.docx)	Submitted On: Aug 11 20	020 (Attachment:
1-1	Backcheck Recommend Concur - Given the new concur.	dation <b>Close Comment</b> v information and clarific	cations provided, the Pa	nel is now able to
	Submitted By: Lynn Mo	Leod (781/681-5510) Su	ubmitted On: Aug 11 20	20
	Current Comment Statu	us: Comment Closed		
8587372	Economics	n/a	Final Panel Comment 7	n/a
Comment Classification (Document Reference: The CRSO DEIS does incorporated into the S (Attachment: CRSO_EI	n: Unclassified\\For Off Significance Level - Me not explain how the risk CENT model, and this ri S_Final_Panel_Commer	icial Use Only (U\\FOU dium) a associated with disrupt isk does not appear to b nt_7.docx)	<b>O)</b> ion/delay due to high-w be included in the TOM	ater conditions is at all.
Submitted By: Lynn Mo	Leod (781/681-5510). S	ubmitted On: May 19 20	)20	
1-0	Evaluation <b>Non-concut</b> While the commenter is commenter is not corre disruption is incorporate lower Snake River under Columbia River under I is conducted using the Additional information a	rred s correct that risk of disr ct that risk is not incorp ed into shipper costs. Sl er MO3. There would no MO3. As such, a change TOM model.	ruption is included in the orated in the TOM mod hipping would be entirel of be an increased risk o e in risk is not relevant t ed in the attached respo	e SCENT model, the el. The typical risk of y precluded from the of disruption on the to the assessment that nse.
	Submitted By: Rachel I CRSO_EIS_IEPR_FPC	Mesko (651-323-7178) S _7.docx)	Submitted On: Aug 11 20	020 (Attachment:
1-1	Backcheck Recomment concur - Given the new concur.	dation Close Comment information and clarific	ations provided, the Par	nel is now able to
	Submitted By: Lynn Mo	Leod (781/681-5510) Su	ubmitted On: Aug 11 20	20
	Current Comment Statu	us: Comment Closed		
0507075		,		
858/3/5	Economics	n/a		n/a

			Final Panel Comment 8	
Comment Classification	n: Unclassified\\For Off	icial Use Only (U\\FOU	0)	
(Document Reference:	Significance Level - Me	dium)		
The assumption that al MO alternatives misrep	Il new power generation presents the estimated or	and transmission infrast osts and benefits.	ructure would be immed	diately available for all
(Attachment: CRSO_EI	IS_Final_Panel_Commer	nt_8.docx)		
Submitted By: Lynn Mo	cLeod (781/681-5510). S	ubmitted On: May 19 20	020	
1-0	Evaluation <b>Non-concu</b> The commenter questic including a timeline for evaluating costs and be reasons for the approa	rred ons the use of 2022 as t the implementation and enefits according to the ch taken in the EIS.	he study year for the El cost analysis. While the comment, Bonneville fee	IS and suggests ere is merit in els confident in the
	Additional information a	and discussion is include	d in the attached respo	nse.
	Submitted By: Rachel I CRSO_EIS_IEPR_FPC	Mesko (651-323-7178) S 8.docx)	ubmitted On: Aug 11 20	020 (Attachment:
1-1	Backcheck Recomment Concur - The Panel is provided.	dation <b>Close Comment</b> able to concur given the	additional information a	and clarification
	Submitted By: Lynn Mo	Leod (781/681-5510) Su	ubmitted On: Aug 11 20	20
	Current Comment Statu	us: Comment Closed		
8587376	Environmental	n/a	Final Panel Comment	n/a
Comment Classification (Document Reference:	n: Unclassified\\For Off Significance Level - Me	icial Use Only (U\\FOU dium)	0) Lrisk of fish mortality is	misleading
	So levels exceeding 110	produce an increased	Thisk of hish mortality is	inisieaung.
(Attachment: CRSO_E	IS_Final_Panel_Commer	nt_9.docx)		
Submitted By: Lynn Mo	cLeod (781/681-5510). S	ubmitted On: May 19 20	020	
1-0	Evaluation <b>Non-concu</b> TDG levels of 110% sa However the DEIS doe are reported as the pro and for steelhead only identified as higher risk uncertainties in effects stages, so a conservati related mortality estima process. The co-lead a elevated risk of mortality	rred aturation does, with suffic s not emphases 110% a oportion of time exceedin an estimated average ex of GBT. Despite many in free swimming fish in ive approach is prudent. ates generated by the UV gencies updated the Fin ty associated with TDG	cient duration, increase as a standard. TDG leve g TDG of 120% or 125 xposure is presented. H field studies there are s general, the variety of The co-lead agencies of N TDG model in their d al EIS and clarified the was considered for non-	the risk of mortality. Is among alternatives %, for modeled salmon igher TDG levels are till many remaining species and life did not use the TDG ecision making description of how -salmonids.
	Additional information a	and discussion is include	d in the attached respo	nse.
	Submitted By: Rachel I CRSO_EIS_IEPR_FPC	Mesko (651-323-7178) S 9.docx)	ubmitted On: Aug 11 20	020 (Attachment:
1-1	Backcheck Recommend Non-Concur - The basi An increase of 1 % of s incidence or even seve generally undetectable. an increase in risk at s	dation <b>Close Comment</b> c issue is use of the tern saturation may technical rity of GBD. However, th Most Columbia River S lightly greater than 110	m "risk" in the absence ly produce a small incre nis increase in risk is su ystem field studies do r % of saturation.	of a true risk analysis. ase in "risk" of the ifficiently small as to be not provide evidence of

	Tailrace conditions are of tailrace areas prohib to develop high internal juvenile salmonids in tai that remain in tailrace a downstream displaceme risk of GBD at TDG lev field studies with TDG compensation is comme brief residence in tailrace Submitted By: Lynn Mc Current Comment Statu	not of great concern in it most fish from remain I levels of TDG that may illrace areas indicate res areas for prolonged peri- ent, thus are exposed to rels of 110-120 % of sat levels of 110-120 % and only adequate to avoid i ce areas. Leod (781/681-5510) Su us: <b>Comment Closed</b>	this issue. The extreme ing in these areas for s result in GBD. The rec sident times of minutes ods need to remain nea hydrostatic compensat uration. The general ab higher provide evidenc ncreased risk of GBD d	ly high water velocities ufficient periods of time corded durations of to several hours. Fish r the bottom to avoid ion that decreases the sence of GBD in many se that depth uring the relatively 20
8587377	Environmental	n/a	Final Panel Comment 10	n/a
A percent change in the the degree of GBD imp (Attachment: CRSO_EI Submitted By: Lynn Mc	Significance Level - Med e 5-year average maxim bact to the fish. S_Final_Panel_Commer Leod (781/681-5510). S	num TDG as compared t nt_10.docx) ubmitted On: May 19 20	to the No Action Alterna	tive does not reflect
	5-year average maximu not used for this purpos alternatives to compare described due to the co different life stages. Additional information a Submitted By: Rachel M CRSO_EIS_IEPR_FPC	Im does not reflect to de se. It is an index to iden the water quality effect omplexity and uncertaint and discussion is include Mesko (651-323-7178) S _10.docx)	egree of risk for GBD ar tify the long-term differe s. TDG effects on fish v y in fish behavior, and o ed in the attached respo submitted On: Aug 11 20	nd this information was ences in TDG among vere subjectively differing sensitivities of nse. 020 (Attachment:
1-1	Backcheck Recommend Non-Concur - The 5-ye differences among the not purported to repres distinguishing difference evaluating total dissolve Although there is subst that is of substantial va supersaturation. The tw provide reference to nu adult salmonids that av conditions. This is an artificial crite alternatives. This risks that is not of any value Submitted By: Lynn Mc	dation <b>Close Comment</b> ar average maximum do alternatives evaluated b ent TDG impacts on fish es among the alternative ed gas supersaturation i antial complexity in fish lue in determining adve to documents cited above merous investigations the oid gas bubble disease rion that does not usefut introducing a confusing Leod (781/681-5510) Su	bes not provide a useful y the Draft EIS. If the "s n.", it would be of little of es. The basic purpose of s to protect aquatic life. behavior, it is only the rse effects of total disso ve (Weitkamp and Katz nat document or infer th under reservoir and free and unnecessary analys ubmitted On: Aug 11 20	index to distinguish 5-year maximums were or no value in f regulating and fish's depth distribution lived gas 1980, Weitkamp 2020) e depth of juvenile and e-flowing river es in the evaluated sis to TDG regulation 20
	Current Comment Statu	us: Comment Closed		
8587380	Environmental Engineering	n/a	Final Panel Comment	n/a

Comment Classification: Unclassified\\For Official Use Only (U\\FOUO) (Document Reference: Significance Level - Medium)

It is unclear why MO1, MO3, and MO4 were burdened with new irrigation diversions that are 25 times greater than those used for the Preferred Alternative.

(Attachment: CRSO\_EIS\_Final\_Panel\_Comment\_11.docx)

Submitted By: Lynn McLeod (781/681-5510). Submitted On: May 19 2020

1-0	Evaluation <b>Non-concu</b> This language is in Cha This operational measu million acre-feet could provided in the No Acti up to 45,000 acre-feet and extent of the devel this measure would cha Odessa Subarea of the acre-feet for M&I of the needed, on demand. T of authorized project ac demand arises during t Because multiple factor then translates into cha EIS, though the H&H s in each MO.	rred apter 7 and explains wh ure was included in MO1 be pumped from Lake F ion. This measure was u of water above the No A lopment of new water su ange the timing of delive e Columbia Basin Project e current supplies) from he 45,000 acre-feet wat cres. Water pumped from the irrigation season (Ma rs contribute to the amo anges in power generative exection explains the mea	y the CBP diversion was MO3, and MO4 where Roosevelt at Grand Could updated for the Preferred Action due to the uncerta upply projects for the full ery of recently developed t (164,000 acre-feet for September and October er supports near-term ac n Lake Roosevelt would arch to October). unt of water in the river on, etc, this was not exp sures that lead to change	s decreased in the PA: e an additional 1.15 ee above what was d Alternative to pump ainty over the timing l volume. Additionally, d water supplies for the irrigation and 15,000 to when the water is dditional development be delivered as the and reservoirs that plicitly called out in the ges in flow and storage
	Additional information a	and discussion is include	ed in the attached respo	nse.
	Submitted By: Rachel I CRSO_EIS_IEPR_FPC	Mesko (651-323-7178) S 11.docx)	Submitted On: Aug 11 20	020 (Attachment:
1-1	Backcheck Recommend Concur - The Panel co beneficial effects of the The Panel understands uncertain, both in terms However, the relative m benefits of the increase cropland loss in Region B.	dation <b>Close Comment</b> ncurs with the addition of additional water supply that further developme s of its timing and the to nagnitude of the two wa ed pumping at Grand Co n C. Some mention of the	of text in Section 3.12.1. diversion were not ana nt of cropland in the Col otal acreage that may ult ter volumes begs at leas oulee could be significan his should be presented	4 which clarifies that lyzed. lumbia Basin Project is timately be developed. st some mention that tly larger than the in 3.12.2.2 for Region
	Submitted By: Lynn Mo	cLeod (781/681-5510) Si	ubmitted On: Aug 11 20	20
	Current Comment State	us: Comment Closed		
8587383	Hydraulics	n/a	Final Panel Comment	n/a
Comment Classification (Document Reference: The use of monthly and impact aspects of the o	n: Unclassified\\For Off Significance Level - Me d weekly flows in the H& quality and use of the C	<b>icial Use Only (U\\FOU</b> dium/Low) &H models does not rep RSO environment by ad	<b>O)</b> licate local hydraulic cor ult and juvenile fish duri	nditions that would ng passage.
(Attachment: CRSO_EI	S_Final_Panel_Commer	nt_12.docx)		

Submitted By: Lynn McLeod (781/681-5510). Submitted On: May 19 2020

1-0 Evaluation Non-concurred

Estimated monthly and two week flows in of themselves does not describe the hydraulic characters. However, many of the key factors for differentiating among the alternatives were qualitatively described, to include adult passage delays, and tailrace eddies, that delay juveniles and increase their predation risk. They types of modeling necessary to address

	these factors in th Preferred Alternatic consequences suc	e tailraces is ver ve includes and ch as those that	ry expensive Adaptive Ma could arise f	and often very difficult anagement Framework rom some the uncertair	to validate. The to address unintended nty in local hydraulics.
	Additional informa	tion and discuss	ion is include	ed in the attached respo	onse.
	Submitted By: Rad CRSO_EIS_IEPR	chel Mesko (651- _FPC_12.docx)	-323-7178) S	Submitted On: Aug 11 2	020 (Attachment:
	1-1 Backcheck Recom Concur - The PDT unintended conse	mendation <b>Clos</b> 's choice of usin quences is a sati	e Comment ng an Adaptiv isfactory app	ve Management Framev roach.	work to address
	Submitted By: Lyr	n McLeod (781/6	681-5510) Si	ubmitted On: Aug 11 20	)20
	Current Comment	Status: Comme	nt Closed		
8587388	Environmental	n/a		13	n/a
(Document Refere	of climate changes does	- Medium/Low) not consider the	adaptability	of fish to changing clir	natic conditions.
(Attachment: CRS	O_EIS_Final_Panel_Co	mment_13.docx)			
Submitted By: Lyr	n McLeod (781/681-551	0). Submitted O	n: May 19 20	020	
	adapted to each lo selection forces so recognized adaption success in the hor temperatures and Additional informa	tion and discussi tion and discussi tion and discussi	er temperatu f adaption cr water obliga umbia River I of warm wa ion is include	ure, runoff timing, etcete ould be expected. Howe tes has been in migrati basin. Meeting the chal ter will be a challenge. ed in the attached respondent	era are very powerful ever, much of the on timing to allow lenges of higher onse.
	CRSO_EIS_IEPR	_FPC_13.docx)	020 1110) 0		
	1-1 Backcheck Recom	mendation <b>Clos</b>	e Comment		
	Submitted By: Lyr	in McLeod (781/6	681-5510) Si	ubmitted On: Aug 11 20	)20
	Current Comment	Status: Comme	nt Closed		
				Final Devision of	
8587390	Environmental	n/a		14	n/a
Comment Classifi (Document Refere	cation: <b>Unclassified\\Fo</b> ence: Significance Level	r Official Use O - Medium/Low)	nly (U\\FOU	0)	
In evaluating the resources is not c	oss of LSR hydro gener onsidered as the most l	ation (part of MC kely replacemen	D3), regional t energy sou	development of new re irce.	enewable generation
(Attachment: CRS	O_EIS_Final_Panel_Co	mment_14.docx)			
Submitted By: Lyr	n McLeod (781/681-551	0). Submitted O	n: May 19 20	020	
	1-0 Evaluation Concu The underlying pro- for the four lower not be the entity a	<b>rred</b> emise of the com Snake River dan acquiring the new	nment, that n ns' generatio / resources,	natural-gas may not be n in some scenarios ar are already described i	the likely replacement nd that Bonneville may n the EIS.

	Additional information a	and discussion are inclue	ded in the attached resp	oonse.
	Submitted By: Rachel I CRSO EIS IEPR FPC	Mesko (651-323-7178) S 14.docx)	Submitted On: Aug 11 20	020 (Attachment:
1-1	Backcheck Recommend Concur	dation Close Comment		
	Submitted By: Lynn Mo	Leod (781/681-5510) Su	ubmitted On: Aug 11 20	20
	Current Comment State	us: Comment Closed		
8587397	Economics	n/a	Final Panel Comment 15	n/a
Comment Classification (Document Reference:	: Unclassified\\For Off Significance Level - Me	icial Use Only (U\\FOU dium/Low)	0)	
The use of averages fr average expenditures of	om a USACE nation-wic on a regional scale.	le database for expendit	ure data may not accur	ately represent the
(Attachment: CRSO_EI	S_Final_Panel_Commer	nt_15.docx)		
Submitted By: Lynn Mo	Leod (781/681-5510). S	submitted On: May 19 20	)20	
1-0	Evaluation <b>Non-concu</b> The PDT agrees with t expenditure profiles that	rred he commenter that expe at are specific to the stud	nditure data would idea dy sites or the Pacific N	lly reflect the lorthwest.
	Additional information a	and discussion are inclue	ded in the attached resp	oonse.
	Submitted By: Rachel I CRSO_EIS_IEPR_FPC	Mesko (651-323-7178) S 15.docx)	Submitted On: Aug 11 20	020 (Attachment:
1-1	Backcheck Recomment Concur - Given the info be stratified as recommon possible to stratify the sampling methodology	dation <b>Close Comment</b> ormation provided, the P nended. We do, however national expenditure dat or because the survey in	anel concurs that the e r, suggest the PDT furth a by region. For examp nstrument or something	xpenditure data cannot her explain why it is not le, is it because of the else.
	Submitted By: Lynn Mo	Leod (781/681-5510) Su	ubmitted On: Aug 12 20	20
	Current Comment State	us: Comment Closed		
8587404	Cost Engineering	n/a	Final Panel Comment 16	n/a
Comment Classification (Document Reference:	: Unclassified\\For Off Significance Level - Me	icial Use Only (U\\FOU dium/Low)	0)	
The system cost model	s do not communicate r	risk under the MO altern	atives.	
(Attachment: CRSO_EI	S_Final_Panel_Commer	nt_16.docx)		
Submitted By: Lynn Mo	Leod (781/681-5510). S	ubmitted On: May 19 20	)20	
1-0	Evaluation <b>Concurred</b> The PDT agrees that the system costs could be 3.19 and Appendix Q) Appendix Q, Chapter 1 related to the development estimates include unce additional mitigation me	he risk and uncertainty s better communicated in to better describe risk at , second to last paragra hent of the cost analysis rtainty, such as construct easures and the Fish an	surrounding the CRSO in the EIS. The PDT will r nd uncertainty regarding ph includes some descr and cost estimates. So ction costs of the structu d Wildlife Program cost	mplementation and revise the EIS (Section g the cost estimates. ription on uncertainty ome of the cost ural measures and the s.
		and discussion are inclu		

1-1	Backcheck Recommend	dation Close Comment		
				20
	Submitted By: Lynn Mc	Leod (781/681-5510) S	ubmitted On: Aug 11 20	20
	Current Comment Statu	us: Comment Closed		
8587408	Economics	n/a	Final Panel Comment	n/a
Comment Classification (Document Reference:	: Unclassified\\For Off Significance Level - Me	icial Use Only (U\\FOU dium/Low)	0)	
The IMPLAN analysis f	or the power generation	and transmission mode	el was not modeled prop	erly.
(Attachment: CRSO_EI	S_Final_Panel_Commer	nt_17.docx)		
Submitted By: Lynn Mc	Leod (781/681-5510). S	ubmitted On: May 19 2	020	
	It is correct that the cui means that the power in data to quantify indirect estimate a total effect. and induced effects that the state. This is referre Additional information a Submitted By: Rachel I CRSO_EIS_IEPR_FPC	rrent IMPLAN modeling rate effects rely on state t and induced impacts, We agree that this appr at occur due to intercont ed to as "leakage" in th and discussion are inclu Mesko (651-323-7178) S _17.docx)	analysis is conducted a e-level spending and sta and results are then sur roach results in some ur nected businesses that a e context of regional eco ded in the attached resp Submitted On: Aug 11 20	t the state level. This te-specific multiplier nmed across states to naccounted for direct are affected outside of onomic modeling. Donse.
1-1	Backcheck Recommend Concur - The Panel is	dation <b>Close Comment</b> able to concur given the	e clarification provided.	
	Submitted By: Lynn Mc	Leod (781/681-5510) S	ubmitted On: Aug 11 20	20
	Current Comment Statu	us: Comment Closed		
	Environmental		LEINAL DANAL / AMMART	
8587414	Environmental Engineering	n/a	18	n/a
8587414 Comment Classification (Document Reference: The CRSO DEIS does Columbia River area ur	Environmental Engineering 1: <b>Unclassified\\For Off</b> Significance Level - Mer not include any information the No Action Alter	n/a icial Use Only (U\\FOU dium/Low) tion on the potential for native or the action alte	earthquakes and any re	n/a sulting impacts to the
8587414 Comment Classification (Document Reference: The CRSO DEIS does Columbia River area ur (Attachment: CRSO_EI	Environmental Engineering 1: <b>Unclassified\\For Off</b> Significance Level - Mer not include any informat nder the No Action Alter S_Final_Panel_Commer	n/a <b>icial Use Only (U\\FOU</b> dium/Low) tion on the potential for native or the action alte nt_18.docx)	earthquakes and any re	n/a sulting impacts to the
8587414 Comment Classification (Document Reference: The CRSO DEIS does Columbia River area ur (Attachment: CRSO_EI Submitted By: Lynn Mc	Environmental Engineering : <b>Unclassified\\For Off</b> Significance Level - Me not include any informander the No Action Alter S_Final_Panel_Commer :Leod (781/681-5510). S	n/a <b>icial Use Only (U\\FOU</b> dium/Low) tion on the potential for native or the action alte nt_18.docx) submitted On: May 19 2	earthquakes and any reprinting assessed.	n/a esulting impacts to the

	Submitted By: Rachel M CRSO EIS IEPR FPC	Mesko (651-323-7178) S 18.docx)	Submitted On: Aug 11 2	020 (Attachment:
1-1	Backcheck Recommend Concur - The Panel act included in the final EIS recognized and genera the alternatives.	dation <b>Close Comment</b> cepts the PDT's explana S to demonstrate that po Ily considered (as stated	ations and suggests that otential earthquake effect d above) and judged to	t those explanation be ots and concerns were not significantly affect
	Submitted By: Lynn Mc	Leod (781/681-5510) Su	ubmitted On: Aug 11 20	20
	Current Comment Statu	us: Comment Closed		
8587420	Risk Assessment	n/a	Final Panel Comment 19	n/a
Comment Classification (Document Reference:	: Unclassified\\For Off Significance Level - Me	icial Use Only (U\\FOU dium/Low)	0)	
It is unclear how risk a CRSO.	nd uncertainty have bee	n integrated into the co	mplex adaptive system	managed under the
(Attachment: CRSO_EI	S_Final_Panel_Commer	nt_19.docx)		
Submitted By: Lynn Mo	Leod (781/681-5510). S	ubmitted On: May 19 20	)20	
1-1	operational measures is have historically operat cumulative impacts. Th anadromous migrating Structural uncertainty re the short and long term social welfare. The teal River and previous dan effects along with supp understand changes to quality, power production of uncertainty. There all change, changes to pot the region will meet the anticipate and modeled Additional information a Submitted By: Rachel M CRSO_EIS_IEPR_FPC Backcheck Recommend Concur - The Panel ac explanations, and sugg added to the final EIS	s well understood. MO1, ted within, and was used e exception is in the fish fish to spill levels, TDG, elates to breaching the of mused a previous resen n breaching activities for lemental modeling. We hydrology, water quality on and fish responses. E re also conditions outsid wer production from car ose demands, changes i l in the analysis. and discussion are inclue Mesko (651-323-7178) S _19.docx) dation <b>Close Comment</b> cepts and appreciates th ests that the content of	MO2, and MO4 operated to interpret modeling r in response, and in parti- and the hypotheses of earthen embankments of purces as well as to reg voir drawdown pilot stu- rempirical data to ident used the best available, y, navigation and transp Even so, each model ca- le of the federal actions bon, gas, wind, and futu- n development, etc, whi ded in the attached resp submitted On: Aug 11 20 me PDT's clarifying and the (clarifying and sumi-	e within ranges we esults to describe the cular, response of latent mortality. If the federal dams and dy on the lower Snake ify potential short term current models to ortation, recreation, air n introduce an elemen , such as climate ure demands and how ich the team tried to ponse. D20 (Attachment: summarizing marizing) discussion be
	Submitted By: Lynn Mc	Leod (781/681-5510) Su	ubmitted On: Aug 11 20	20
	Current Comment Statu	us: Comment Closed		
			Final Danal Comment	
8587425	Environmental	n/a	20	n/a
Comment Classificatior (Document Reference:	: Unclassified\\For Off Significance Level - Me	icial Use Only (U\\FOU dium/Low)	0)	
It is unlikely that the re on the Columbia River dam construction.	latively small-scale habit tributaries due to large	tat restorations propose watershed impacts from	d will restore historic lev various human activitie	vels of the fish stocks s prior to and since

(Attachment: CRSO_EI	S_Final_Panel_Comme	nt_20.docx)		
Submitted By: Lynn Mo	Leod (781/681-5510). S	Submitted On: May	19 2020	
1-0	Evaluation <b>Concurred</b> The purpose of the CF operated as a system, well as relevant law, m and steelhead populati 7 of the ESA, the oper any species listed undo of any listed species. F the myriad factors affe Additional information a Submitted By: Rachel CRSO EIS IEPR FPC	AS EIS is to update while meeting the nost notably, the Ei on is not the purporation and maintena er the ESA, or des Recovery is a shar cting the listed spe and discussion are Mesko (651-323-7 <sup>-1</sup> 2 20.docx)	e operation and configuration fish and wildlife authorized p ndangered Species Act (ESA) ose, nor a requirement of the ance of the CRS may not jeo troy or adversely modify desi ed responsibility, led by NOA ecies.	of the 14 dams urposes of the dams as ). Recovery of salmon EIS. Under the section pardize the existence of gnated critical habitat A Fisheries to address ponse. 020 (Attachment:
1-1	Backcheck Recommen	dation Close Com	ment	
	Concur			
	Submitted By: Lynn Mo	cLeod (781/681-55	10) Submitted On: Aug 11 20	20
	Current Comment Stat	us: Comment Clo	sed	
			Final Panel Comment	
8587427	Environmental	n/a	21	n/a
(Attachment: CRSO_EI Submitted By: Lynn Mc	S_Final_Panel_Comme Leod (781/681-5510). S	nt_21.docx) Submitted On: May	19 2020	
1-0	Evaluation <b>Non-concu</b> The co-lead agencies a more precise. However by the general public. The the EIS. The term gas bubble to trauma are commonly disease and trauma, a effect decisions. Additional information a Submitted By: Rachel CRSO_EIS_IEPR_FPC Backcheck Recommen Concur - Explanation r	rred agree that the TDC r, NEPA document We believe, the de rauma will be retain used in the literatur change will not im and discussion are Mesko (651-323-7 2_21.docx) dation <b>Close Com</b> not valid. The term	G definition the commenter pros s are to written in plain langu escription is sufficiently accurate ned as both gas bubble disea ire, the condition fits within the prove clarity of the document included in the attached resp 178) Submitted On: Aug 11 20 <b>ment</b> "trauma" is no more likely to	by b
	members of the genera years we have found th hydrostatic pressure an disease. However, we terminology that would Submitted By: I ynn Mo	al public than the v hat non-technical p nd depth in total di have not encounte avoid its use in th cLeod (781/681-55	vord "disease". Over a period beople have difficulty understa ssolved gas supersaturation a ered any difficulty in their unde e EIS. 10) Submitted On: Aug 11 20	of approximately 50 anding the role of and gas bubble erstanding the technical
	Current Comment Stat	us: Comment Clos	sed	

8587429	Environmental	n/a	Final Panel Comment	n/a
Comment Classificatior	n: Unclassified\\For Off	icial Use Only (U\\FOU	0)	1
(Document Reference:	Significance Level - Lov	v)		
Chapter 2 of the CRSC removal of the LSR da	) DEIS does not discuss ms.	increased access by w	hite sturgeon to upstrea	am habitat due to
(Attachment: CRSO_EI	S_Final_Panel_Commer	nt_22.docx)		
Submitted By: Lynn Mo	Leod (781/681-5510). S	ubmitted On: May 19 20	020	
1-0	Evaluation <b>Non-concu</b> None of the resources only described the mea effects to any of the re Environment and Enviro	rred analyzed are described asures that are included sources. This informatio onmental Consequences	in Chapter 2 - Alternativ in each alternative. The n is included in Chapter s.	ves. The alternatives ere is no discussion of r 3 – Affected
	Additional information a	and discussion are inclu	ded in the attached resp	oonse.
	Submitted By: Rachel I CRSO_EIS_IEPR_FPC	Mesko (651-323-7178) S _22.docx)	Submitted On: Aug 11 20	020 (Attachment:
1-1	Backcheck Recommen Concur - With the addi Teleconference, the Pa	dation <b>Close Comment</b> tional information provid inel understands the US	ed by the PDT during th ACE response and Con	ne Comment Response curs.
	Submitted By: Lynn Mo	Leod (781/681-5510) S	ubmitted On: Aug 11 20	20
	Submitted By: Lynn Mo Current Comment State	Leod (781/681-5510) Si us: Comment Closed	ubmitted On: Aug 11 20	20
	Submitted By: Lynn Mc Current Comment Statu	Leod (781/681-5510) Si us: Comment Closed	ubmitted On: Aug 11 20	20
8587433 Comment Classificatior	Submitted By: Lynn Mc Current Comment Statu Other	Leod (781/681-5510) Si us: Comment Closed n/a icial Use Only (U\\FOU	Final Panel Comment	20 n/a
8587433 Comment Classificatior (Document Reference: Discussions of some to difficult to capture and (Attachment: CRSO_EI Submitted By: Lynn Mo	Submitted By: Lynn Mc Current Comment Statu Other : Unclassified\\For Off Significance Level - Lov opics seem fragmented a appreciate details and r S_Final_Panel_Commer :Leod (781/681-5510). S	ELeod (781/681-5510) Si us: <b>Comment Closed</b> n/a <b>icial Use Only (U\\FOU</b> v) and distributed througho each full understanding nt_23.docx) submitted On: May 19 20	Final Panel Comment 23 <b>O)</b> ut the CRSO DEIS in a of the impacts.	n/a way that makes it
8587433 Comment Classificatior (Document Reference: Discussions of some to difficult to capture and (Attachment: CRSO_EI Submitted By: Lynn Mo 1-0	Submitted By: Lynn Mo Current Comment Statu Other : Unclassified\\For Off Significance Level - Low opics seem fragmented a appreciate details and r S_Final_Panel_Commer cLeod (781/681-5510). S Evaluation Non-concu	Leod (781/681-5510) Si us: <b>Comment Closed</b> n/a <b>icial Use Only (U\\FOU</b> v) and distributed througho each full understanding nt_23.docx) submitted On: May 19 20 rred	Final Panel Comment 23 <b>O)</b> ut the CRSO DEIS in a of the impacts.	20 n/a way that makes it
8587433 Comment Classificatior (Document Reference: Discussions of some to difficult to capture and (Attachment: CRSO_EI Submitted By: Lynn Mo <b>1-0</b>	Submitted By: Lynn Mc Current Comment Statu Other : Unclassified\\For Off Significance Level - Low ppics seem fragmented a appreciate details and r S_Final_Panel_Commer :Leod (781/681-5510). S Evaluation Non-concur We agree that the over complex nature of the s document contains the all policy and legal req	Leod (781/681-5510) Si us: <b>Comment Closed</b> n/a <b>icial Use Only (U\\FOU</b> v) and distributed througho each full understanding nt_23.docx) ubmitted On: May 19 20 rred rall length of the docume subject matter and broat necessary information t uirements.	Ubmitted On: Aug 11 20 Final Panel Comment 23 O) ut the CRSO DEIS in a of the impacts. 020 ent is long and difficult t d geographic scope of the is fully evaluate each alt	20 n/a way that makes it to review due to the he EIS. However, the ternative while meeting
8587433 Comment Classificatior (Document Reference: Discussions of some to difficult to capture and (Attachment: CRSO_EI Submitted By: Lynn Mo 1-0	Submitted By: Lynn Mo Current Comment Statu Other : Unclassified\\For Off Significance Level - Low opics seem fragmented a appreciate details and r S_Final_Panel_Commer :Leod (781/681-5510). S Evaluation Non-concur We agree that the over complex nature of the s document contains the all policy and legal req Additional information a	Leod (781/681-5510) Si us: <b>Comment Closed</b> n/a <b>icial Use Only (U\\FOU</b> v) and distributed througho each full understanding nt_23.docx) submitted On: May 19 20 rred rall length of the docume subject matter and broa necessary information t uirements.	<ul> <li>ubmitted On: Aug 11 20</li> <li>Final Panel Comment 23</li> <li>O)</li> <li>ut the CRSO DEIS in a of the impacts.</li> <li>020</li> <li>ent is long and difficult t d geographic scope of the impact scope of the impact and the scope of the impact scope of the</li></ul>	20 n/a way that makes it to review due to the he EIS. However, the ternative while meeting
8587433 Comment Classificatior (Document Reference: Discussions of some to difficult to capture and (Attachment: CRSO_EI Submitted By: Lynn Mo 1-0	Submitted By: Lynn Mo Current Comment Statu Other : Unclassified\\For Off Significance Level - Low opics seem fragmented a appreciate details and r S_Final_Panel_Commer :Leod (781/681-5510). S Evaluation Non-concur We agree that the over complex nature of the s document contains the all policy and legal req Additional information a Submitted By: Rachel I CRSO_EIS_IEPR_FPC	Leod (781/681-5510) Si us: <b>Comment Closed</b> in/a icial Use Only (U\\FOU v) and distributed througho each full understanding nt_23.docx) ubmitted On: May 19 20 rred rall length of the docume subject matter and broa necessary information t uirements. and discussion are inclu Mesko (651-323-7178) S _23.docx)	Ubmitted On: Aug 11 20 Final Panel Comment 23 <b>O</b> ut the CRSO DEIS in a of the impacts. 020 ent is long and difficult t d geographic scope of t o fully evaluate each alt ded in the attached resp Submitted On: Aug 11 20	20 n/a way that makes it to review due to the he EIS. However, the ternative while meeting bonse. 020 (Attachment:
8587433 Comment Classificatior (Document Reference: Discussions of some to difficult to capture and (Attachment: CRSO_EI Submitted By: Lynn Mo 1-0	Submitted By: Lynn Mo Current Comment Statu Other : Unclassified\\For Off Significance Level - Low pics seem fragmented a appreciate details and r S_Final_Panel_Commer SLeod (781/681-5510). S Evaluation Non-concur We agree that the over complex nature of the s document contains the all policy and legal req Additional information a Submitted By: Rachel I CRSO_EIS_IEPR_FPC Backcheck Recommen Concur - The Panel is Panel is satisfied that the understandability of the resolved those shortcom	Leod (781/681-5510) Si us: <b>Comment Closed</b> icial Use Only (U\\FOU v) and distributed througho each full understanding nt_23.docx) ubmitted On: May 19 20 rred rall length of the docume subject matter and broat necessary information to uirements. and discussion are inclu Mesko (651-323-7178) S _23.docx) dation Close Comment pleased to learn that the he PDT understands its a DEIS and assumes that mings.	<ul> <li>abmitted On: Aug 11 20</li> <li>Final Panel Comment 23</li> <li>O)</li> <li>ut the CRSO DEIS in a of the impacts.</li> <li>020</li> <li>ent is long and difficult t d geographic scope of the fully evaluate each alt ded in the attached resp.</li> <li>Submitted On: Aug 11 20</li> <li>e TOC will be expanded general concern with that the updated, final EIS</li> </ul>	20 n/a way that makes it to review due to the he EIS. However, the ternative while meeting ponse. 020 (Attachment:
8587433 Comment Classificatior (Document Reference: Discussions of some to difficult to capture and (Attachment: CRSO_EI Submitted By: Lynn Mo 1-0	Submitted By: Lynn Mc Current Comment Statu Other : Unclassified\\For Off Significance Level - Low pics seem fragmented a appreciate details and r S_Final_Panel_Commer :Leod (781/681-5510). S Evaluation Non-concur We agree that the over complex nature of the s document contains the all policy and legal req Additional information a Submitted By: Rachel I CRSO_EIS_IEPR_FPC Backcheck Recomment Concur - The Panel is Panel is satisfied that the understandability of the resolved those shortcool Submitted By: Lynn Mc	Leod (781/681-5510) Si us: Comment Closed icial Use Only (U\\FOU v) and distributed througho each full understanding nt_23.docx) ubmitted On: May 19 20 rred rall length of the docume subject matter and broa necessary information t uirements. and discussion are inclu Mesko (651-323-7178) S _23.docx) dation Close Comment pleased to learn that the he PDT understands its e DEIS and assumes that mings. ELeod (781/681-5510) Si	ubmitted On: Aug 11 20         Final Panel Comment 23         O)         ut the CRSO DEIS in a of the impacts.         020         ent is long and difficult t d geographic scope of the fully evaluate each alt to fully evaluate each alt ded in the attached resp.         Submitted On: Aug 11 20         e TOC will be expanded general concern with that the updated, final EIS ubmitted On: Aug 11 20	20 n/a way that makes it to review due to the he EIS. However, the ternative while meeting bonse. 020 (Attachment: as recommended. Th he readability and will have adequately 20

UNCLASSIFIED\\FOR OFFICIAL USE ONLY Patent 11/892,984 ProjNet property of ERDC since 2004.