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**UNITED STATES DISTRICT COURT  
EASTERN DISTRICT OF CALIFORNIA**

<p>PACIFIC COAST FEDERATION OF FISHERMEN’S ASSOCIATIONS, <i>et al.</i>,</p> <p style="text-align: center;">Plaintiffs,</p> <p>v.</p> <p>GINA RAIMONDO, <i>et al.</i>,</p> <p style="text-align: center;">Defendants.</p>
<p>THE CALIFORNIA NATURAL RESOURCES AGENCY, <i>et al.</i>,</p> <p style="text-align: center;">Plaintiffs,</p> <p>v.</p> <p>GINA RAIMONDO, <i>et al.</i>,</p> <p style="text-align: center;">Defendants.</p>

Case No. 1:20-cv-00431 JLT EPG

ORDER GRANTING IN PART REQUEST TO EXTEND INTERIM OPERATIONS PLAN; DENYING ALL OTHER ALTERNATIVE REQUESTS FOR RELIEF; DENYING MOTION TO STRIKE AS MOOT; AND CONTINUING STAY.

(Docs. 482, 492, 497, 506, 508)

Case No. 1:20-cv-00426 JLT EPG

ORDER GRANTING IN PART REQUEST TO EXTEND INTERIM OPERATIONS PLAN; DENYING ALL OTHER ALTERNATIVE REQUESTS FOR RELIEF; DENYING MOTION TO STRIKE AS MOOT; AND CONTINUING STAY.

(Docs. 336, 338, 354)

**I. INTRODUCTION**

These related cases involve challenges to a pair of “biological opinions” (BiOps) issued by the National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service (FWS) in 2019 pursuant to the Endangered Species Act (ESA), 16 U.S.C § 1531 *et seq.* The 2019 BiOps

1 address the impact on various ESA-listed species of implementing an updated plan issued by the  
2 U.S. Bureau of Reclamation (Reclamation) and California’s Department of Water Resources  
3 (DWR) for the long-term operation of the Central Valley Project (CVP) and the State Water  
4 Project (SWP) (collectively, “Water Projects” or “Proposed Action”). FWS’s 2019 BiOp  
5 addresses Water Project impacts on the ESA-listed delta smelt; NMFS’s 2019 BiOp addresses  
6 impacts on various other aquatic species, including several salmonid species discussed in this  
7 order.

8 Plaintiffs<sup>1</sup> in both cases allege that NMFS and FWS violated the Administrative Procedure  
9 Act (APA), 5 U.S.C. § 706, in various ways by concluding that the Water Projects would not  
10 jeopardize the continued existence of the ESA-listed species addressed in each biological opinion.  
11 (*PCFFA* Doc. 52; *CNRA* Doc. 51.)<sup>2</sup> Both sets of Plaintiffs also bring claims against Reclamation  
12 under the ESA and the National Environmental Policy Act (NEPA), 42 U.S.C. § 4321 *et seq*,  
13 challenging Reclamation’s adoption and implementation of the Proposed Action (*Id.*)<sup>3</sup> The State  
14 Plaintiffs’ complaint in *CNRA* also alleges that Reclamation has violated the APA by failing to  
15 comply with the California Endangered Species Act (CESA), conformance with which State  
16 Plaintiffs maintain is required by various provisions of federal law. (*CNRA* Doc. 51 (*CNRA* FAC),  
17 ¶¶ 145–54.)

18 In late 2021 and early 2022, when this case was assigned to U.S. District Judge Dale A.  
19 Drozd, the parties briefed a highly complex set of motions, including motions for voluntary  
20 remand without vacatur, a request made by Federal Defendants and State Plaintiffs to impose a  
21 stipulated package of interim injunctive relief measures in the *CNRA* case that would govern  
22

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23  
24 <sup>1</sup> Plaintiffs in *Pac. Coast Fed’n of Fishermen’s Ass’ns v. Ross*, 1:20-cv-00431-JLT-EPG (*PCFFA*), are a coalition of  
25 six environmental organizations (collectively referenced herein as “PCFFA”). Plaintiffs in *Cal. Natural Res. Agency  
v. Ross*, No. 1:20-cv-00426-JLT-EPG (*CNRA*), are the People of the State of California, California’s Natural  
Resources Agency, and California’s Environmental Protection Agency (State Plaintiffs).

26 <sup>2</sup> Hereinafter, the Court will omit the “PCFFA” designation from record documents in that case but will continue to  
27 distinguish documents of record in the *CNRA* case by retaining the “CNRA” designation when citing documents from  
*CNRA*.

28 <sup>3</sup> Collectively, NMFS, FWS, and Reclamation, along with the individual named heads of those agencies, are  
referenced as “Federal Defendants.”

1 operations for the remainder of the 2022 “Water Year” (WY)<sup>4</sup>, and what was effectively a cross-  
2 motion filed by PCFFA to impose a competing package of interim injunctive measures. In a 122-  
3 page, detailed order issued on March 11, 2022, Judge Drozd granted the motion for voluntary  
4 remand without vacatur of the challenged BiOps, approved the stipulated interim operations plan  
5 (2022 IOP), denied PCFFA’s competing injunctive relief requests, and stayed the case through  
6 September 30, 2022. (Doc. 394 (2022 IOP Order).)

7 The parties filed status reports toward the end of WY 2022. (Docs. 404–406.)

8 Recognizing that the remand (and associated revisions to the BiOps and related documents) is not  
9 anticipated to be complete until 2024 (*see* Doc. 406 at 3), Federal Defendants and State Plaintiffs  
10 proposed extending the IOP (the 2023 IOP), with some modifications, through December 31,  
11 2023. (*See generally* Doc. 406.) On February 24, 2023, the Court approved the proposed 2023  
12 IOP, rejected all alternative forms of relief, and continued the stay of these matters through  
13 December 31, 2023. (Docs. 462 (2023 IOP Order), 463.)

14 As instructed by the Court, in mid-November 2023, the parties filed a joint status report  
15 that once again reiterated that remand is not anticipated to be complete until late 2024 (*see* Doc.  
16 482 at 4) and proposing a schedule that would allow the Court to consider a request to extend the  
17 IOP for an additional year. (Doc. 467.) The Court issued a briefing schedule (Doc. 479) and  
18 shortly thereafter continued the operation of the 2023 IOP and the stay through the end of March  
19 2024 (Doc. 483). The final briefs were filed in early March 2024<sup>5</sup> and the parties all agreed that  
20 no evidentiary hearing was needed. (Doc. 503.) Having considered the filings submitted by all  
21 parties (Docs. 482, 485–96, 500–501, 504–510; *CNRA* 338, 348) and the entire extensive record,  
22 the Court **GRANTS IN PART** the motion to extend the IOP (Doc. 482); **DENIES** all other  
23 proposed forms of interim relief; **DENIES AS MOOT** Federal Defendants’ motion to strike  
24 (Doc. 508); and **CONTINUES the STAY** of these cases through the issuance of a new Record of  
25 Decision or December 20, 2024, whichever is first.

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26 <sup>4</sup> A “Water Year” runs from October 1 of the preceding calendar year through September 30 of the current calendar  
27 year. (*See* 11/23/21 Grober Decl., *CNRA* Doc. 223, ¶ 26.)

28 <sup>5</sup> Documents continued to be filed through the end of March, including a motion to strike, response, and reply. (Docs.  
508–10.)

1 **II. BACKGROUND<sup>6</sup>**

2 In the interest of expedience, the Court provides here only that background information  
3 which is most essential to explaining and understanding its reasoning herein. The 2022 and 2023  
4 IOP Orders provide additional, highly detailed background. To fully understand the reasoning  
5 presented below, a review of those prior orders is recommended.

6 **A. The Endangered Species Act<sup>7</sup>**

7 “Under the ESA, the Secretary of the Interior and the Secretary of Commerce are charged  
8 with identifying threatened and endangered species and designating critical habitats for those  
9 species.” *Nat. Res. Def. Council v. Jewell*, 749 F.3d 776, 779 (9th Cir. 2014) (*NRDC v. Jewell*)  
10 (citing 16 U.S.C. § 1533). FWS and NMFS administer the ESA on behalf of the Departments of  
11 the Interior and Commerce, respectively. *See* 50 C.F.R. §§ 17.11, 222.101(a), 223.102, 402.01(b).  
12 Most pertinent to these cases is Section 7 of the ESA. 16 U.S.C. § 1536 (Section 7). Section  
13 7(a)(2) imposes a procedural duty on the federal agencies to consult with the FWS or NMFS,  
14 depending on the protected species,<sup>8</sup> to “insure that any action authorized, funded, or carried out  
15 by such agency . . . is not likely to jeopardize the continued existence of any endangered species  
16 or threatened species or result in the destruction or adverse modification” of critical habitats of  
17 listed species. 16 U.S.C. § 1536(a)(2). An agency “action” is defined to mean all activities carried  
18 out by federal agencies, including, among other things, the granting of licenses and permits. *See*  
19 50 C.F.R. § 402.02. “If a contemplated agency action may affect a listed species, then the agency  
20 must consult with the Secretary of the Interior, either formally or informally.” *Am. Rivers v.*

21  
22 \_\_\_\_\_  
23 <sup>6</sup> For simplicity and to ensure clarity of the record, the Court refers to declarations by their date, followed by the  
24 declarant’s last name. The first time any declaration is referenced, the Court has endeavored to provide the Docket  
25 Number.

26 <sup>7</sup> Though other statutes are implicated in these cases, the ESA forms the core of the parties’ arguments and therefore  
27 is the focus of the court’s attention. Relevant aspects of other statutes are discussed as necessary.

28 <sup>8</sup> Generally, FWS has jurisdiction over species of fish that either (1) spend the major portion of their life in fresh  
water, or (2) spend part of their lives in estuarine waters, if the remaining time is spent in fresh water. *See Cal. State  
Grange v. Nat’l Marine Fisheries Serv.*, 620 F. Supp. 2d 1111, 1120 n. 1 (E.D. Cal. 2008), *as corrected* (Oct. 31,  
2008). NMFS is granted jurisdiction over fish species that (1) spend the major portion of their life in ocean water, or  
(2) spend part of their lives in estuarine waters, if the remaining portion is spent in ocean water. *Id.* Relevant to the  
cases before the court, FWS exercises jurisdiction over the delta smelt; NMFS exercises jurisdiction over the winter-  
run and spring-run and the CV steelhead.

1 NMFS, 126 F.3d 1118, 1122 (9th Cir. 1997).

2 Formal consultation results in the issuance of a BiOp by the relevant wildlife agency  
3 (FWS or NMFS). *See* 16 U.S.C. § 1536(b). If the BiOp concludes that the proposed action would  
4 jeopardize the species or destroy or adversely modify critical habitat, *see id.* § 1536(a)(2), then  
5 the action may not go forward unless the wildlife agency can suggest a “reasonable and prudent  
6 alternative[]” (RPA) that avoids jeopardy, destruction, or adverse modification. *Id.*

7 § 1536(b)(3)(A). If a BiOp concludes that the proposed action (or the action implemented in  
8 conjunction with actions described in the RPA) will cause incidental taking of protected species,  
9 but that despite this taking, the action will not jeopardize the species or threaten critical habitat,  
10 the wildlife agency

11 shall provide the Federal agency and the applicant concerned, if any  
12 with a written statement that—

13 (i) specifies the impact of such incidental taking on the species,

14 (ii) specifies those reasonable and prudent measures that the  
15 Secretary considers necessary or appropriate to minimize such  
16 impact,

17 (iii) . . . , and

18 (iv) sets forth the terms and conditions (including, but not limited to,  
19 reporting requirements) that must be complied with by the Federal  
20 agency or applicant (if any), or both, to implement the measures  
21 specified under clauses (ii) and (iii).

22 *Id.* § 1536(b)(4). This required written statement, with its “reasonable and prudent measures”  
23 (RPMs) and associated terms and conditions, is referred to as an “Incidental Take Statement”  
24 (ITS), which, if followed, exempts the action agency from the prohibition on takings found in  
25 Section 9 of the ESA. *Id.* § 1536(o); *Aluminum Co. of Am. v. Adm’r, Bonneville Power Admin.*,  
26 175 F.3d 1156, 1159 (9th Cir. 1999).

## 27 **B. Listed Species at Issue**

28 The winter-run and spring-run Chinook salmon (*Oncorhynchus tshawytscha*), and  
California Central Valley (CV) steelhead (*Oncorhynchus mykiss*), are “anadromous” fish,  
meaning that they live most of their lives in salt water, but “are born, mature, lay eggs, and often  
die in inland freshwater lakes and rivers.” *San Luis & Delta-Mendota Water Auth. v. Locke*, 776

1 F.3d 971, 986–87 (9th Cir. 2014) (*San Luis v. Locke*).

2 After they grow from fry (baby fish) to smolts (juvenile fish) in fresh  
3 water, anadromous salmon outmigrate through rivers and deltas into  
4 the oceans and seas where they will spend most of their adult lives.  
5 When it is time to reproduce, these salmon migrate back through the  
6 deltas to the rivers and lakes in which they were born to lay eggs.  
7 During this migration, salmon must pass impediments in inland  
8 rivers such as locks, dams, channels, and pumps.

9 *Id.* at 987.

10 Winter-run Chinook salmon (winter-run) are listed as endangered under the ESA. (Doc.  
11 85-2 (2019 NMFS BiOp) at p. 65<sup>9</sup>.) Before construction of Shasta Dam, the winter-run had access  
12 to the Sacramento River upstream of Shasta Dam’s present location and to the upper tributaries  
13 where springs provided cold water throughout the summer. (*Id.* at pp. 69–70.) Shasta Dam and  
14 Keswick Dam (a smaller, regulating dam that sits nine miles downstream of Shasta) now block  
15 access to this extensive former spawning habitat of the winter-run. (*Id.* at p. 70.) As a result, the  
16 only wild population of winter-run spawns exclusively in the reaches of the Upper Sacramento  
17 River below Keswick Dam and this “single population . . . has been supported by cold water  
18 management operations at Shasta Dam.” (*Id.*) Generally, winter-run adults migrate upstream  
19 through the San Francisco Bay-Delta region during the winter and spring months and spawn in  
20 the upper Sacramento River in the summer months. (*Id.* at pp. 70–71.) The ocean stage of the  
21 winter-run life cycle typically lasts three years. (*PCFFA*, Doc. 85-18 (2009 NMFS BiOp) at p.  
22 87.)<sup>10</sup>

23 The Delta smelt (*Hypomesus transpacificus*) is a “small, two-to-three inch species of fish  
24 endemic to the San Francisco Bay/Sacramento–San Joaquin Delta Estuary [(Delta)].” *San Luis &*  
25 *Delta-Mendota Water Auth. v. Jewell*, 747 F.3d 581, 595 (9th Cir. 2014) (*San Luis v. Jewell*). In  
26 1993, FWS concluded the Delta smelt’s population had declined by ninety percent over the  
27 previous twenty years and listed it as a “threatened” species under the ESA. Determination of  
28 Threatened Status for the Delta Smelt, 58 Fed. Reg. 12,854, 12,855–56 (Mar. 5, 1993).

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<sup>9</sup> Where the Court references a record document’s internal pagination, it refers to the page as “p. \_\_\_.” Otherwise, page references are to the .pdf page reference provided by the Court’s CM/ECF system.

<sup>10</sup> Spring-run Chinook salmon and CV steelhead—species discussed at some length in the 2022 IOP Order—are not focal points of the analysis herein.

1           The Longfin smelt (*Spirinchus thaleichthys*) is a small translucent silver fish with olive-  
2 to-grayish-brown markings and pinkish iridescence. (CNRA FAC, ¶ 38.) Longfin smelt exhibit a  
3 predominantly two-year life cycle and reach lengths of 90–124 mm, though some live a third year  
4 and grow somewhat larger. (*Id.*) They are known to inhabit the entire San Francisco estuary. (*Id.*)  
5 Larvae hatch during the coldest water temperatures of the year, become abundant in January,  
6 typically peak in February, and decline March through May. (*Id.*, ¶ 39.) Mature fish migrate  
7 upstream to Suisun Bay and the western Sacramento-San Joaquin Delta in preparation for  
8 spawning. (*Id.*) According to the CNRA FAC: “Water quality in the longfin smelt incubation and  
9 early nursery areas of the Sacramento-San Joaquin Delta and Suisun Bay is critical for the San  
10 Francisco estuary population. Eggs, larvae, and small juvenile longfin smelt require adequate  
11 winter-spring river flows from spawning habitat and require suitable brackish-water rearing  
12 habitat.” (*Id.*)

13           The Longfin smelt population has experienced a “long term declining trend” in  
14 abundance, with data suggesting a relationship between higher abundance and higher outflow.  
15 (12/22/23 Baxter Decl., Doc. 482-7, ¶¶ 11-13.)<sup>11</sup> Longfin smelt have been listed under CESA  
16 since 2009, Cal. Code Regs. tit. 14, § 670.5(b)(2)(E), and were formally proposed for listing  
17 under the ESA on October 7, 2022, 87 Fed. Reg. 60957 (Oct. 7, 2022). As of the date of this  
18 Order, listing under the federal ESA has not been finalized.

19           Given the pending listing, Federal Defendants indicate they are conferring with FWS on  
20 the CVP’s effects on longfin smelt in a process called “conferencing” as part of the ongoing  
21 remand. *See* 50 C.F.R. § 402.10; (*see* also 12/22/23 White Decl., Doc. 482-3, ¶ 13). Under this  
22 procedure, if FWS has not made a final listing determination when the reinitiated CVP  
23 consultation concludes, then FWS will provide the results of the conference so that it may later be  
24 adopted as the biological opinion and incidental take statement for Longfin smelt if the species  
25 ultimately is listed under the ESA. 50 C.F.R. § 402.10(d)-(e). If Longfin smelt are listed before  
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27 <sup>11</sup> Defendant Intervenors’ declarant, Dr. Hanson, indicates that there has been a “substantial decline” in the  
28 correlation between Longfin abundance and outflow, (Hanson 1/31/24 Decl., Doc. 486, ¶ 18), but nonetheless does  
not dispute the existence of a correlation. The Court agrees with State plaintiffs that this is ultimately a dispute over  
the magnitude of the correlation. (*See* Doc. 348 at 8.)

1 the remand, then FWS may cover the species in the biological opinion and incidental take  
2 statement in accordance with 50 C.F.R. § 402.14. (*See also* 12/22/23 Allen Decl., Doc. 482-5, ¶  
3 8.)

#### 4 **C. Overview of the Water Projects and Impacts on Listed Species**

5 The CVP and the SWP, “operated respectively by [Reclamation] and the State of  
6 California, are perhaps the two largest and most important water projects in the United States.”  
7 *San Luis v. Jewell*, 747 F.3d at 592. “These combined projects supply water originating in  
8 northern California to more than 20,000,000 agricultural and domestic consumers in central and  
9 southern California.” *Id.* As one part of CVP operations, Reclamation releases water stored in  
10 CVP reservoirs in northern California; this water then flows down the Sacramento River to the  
11 Delta. *See id.* at 594. Pumping plants in the southern region of the Delta (South Delta) then divert  
12 the water to various users south of the Delta. *See id.* at 594–95.

13 “Although the [Water] Projects provide substantial benefits to people and to state  
14 agriculture, they arguably harm species native to the Delta by modifying those species’ natural  
15 habitats.” *San Luis v. Locke*, 776 F.3d at 986. The Water Projects do so in several ways. First, as  
16 mentioned, the dams that make the CVP and SWP possible have blocked access to the colder  
17 water upstream spawning and rearing habitat of migratory fish species. *Nat. Res. Def. Council v.*  
18 *Norton*, 236 F. Supp. 3d 1198, 1204 (E.D. Cal. 2017) (*NRDC v. Norton*). This has limited (and in  
19 some cases all but eliminated) spawning and rearing habitat for these species and confined certain  
20 populations to spawning areas where flows and temperatures are largely controlled by releases  
21 from upstream dams. *See id.*

22 In addition, the Water Projects pump fresh water out of the “Old and Middle River”  
23 (OMR) branches of the San Joaquin River in volumes sufficient to reverse the flow in OMR. *Id.*  
24 at 996. “Absent pumping, [these] rivers would flow north into the Delta.<sup>12</sup> Under pumping

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25 <sup>12</sup> The hydrodynamics of the Delta are highly complex and are influenced by, among other things, inflow from the  
26 various watersheds that drain into the Delta, Water Project actions, and tidal influences. (*See* 2019 NMFS BiOp at p.  
27 148 (“There are two primary categories of effects in the south Delta due to water export: (1) salvage and entrainment  
28 from increased predation probability and exposure to poor water quality conditions. Key water-project-related drivers  
of south Delta hydrodynamics are Vernalis inflow, CVP and SWP exports from the south Delta export facilities and



1 operations, the rivers flow south to the [CVP’s] Jones and [SWP’s] Banks pumping plants.” *San*  
2 *Luis v. Locke*, 776 F.3d at 986. Listed species—particularly juveniles—can be caught in the  
3 negative current and drawn towards the pumping facilities. *Id.* Some of these fish are “salvaged”  
4 at the pumps, “meaning they are diverted from the fatal pumping plants to fish salvage facilities  
5 and into tanks where they are counted, measured, loaded into trucks, driven north, and dumped  
6 back into the Delta.” *Id.* But even if salvaged, fish that are drawn towards the pumps by the  
7 “negative OMR” flow have a lower likelihood of surviving outmigration than their counterpoints  
8 that avoid “entrainment”<sup>13</sup> by Water Project operations. *Id.* “The collection of fish of concern at  
9 the export facilities is a clear indicator that fish have been diverted from their migratory paths into  
10 the channels of the south Delta.” (11/23/21 Herbold Decl., *CNRA Doc. 224*, ¶ 39.) For example,  
11 when the Delta smelt was listed as endangered, “Delta water diversions,” including those  
12 resulting from operations of the CVP and SWP, were deemed a significant “synergistic cause[ ]”  
13 of the decline in the population. 58 Fed. Reg. at 12,859.

#### 14 **D. 2008/2009 Biological Opinions**

15 The Water Projects have undergone numerous rounds of review under the ESA, resulting  
16 in BiOps issued by FWS and NMFS that have imposed various forms of regulatory constraints  
17 upon Water Project operations. These BiOps have also been the subject of numerous lawsuits that  
18 form the backdrop for the present disputes.

19 A 2008 FWS BiOp concluded that “CVP/SWP operations have entrained smelt, including  
20 adults, larvae, and juveniles, at the Banks and Jones facilities; reduced smelt habitat; and reduced  
21 [ ] Delta outflows, altering the location of [the Low Salinity Zone]<sup>14</sup>.” *Id.* at 598. The 2008 FWS

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22 construction of agricultural barriers; these drivers interact with tidal influences over much of the central and southern  
23 Delta. In day-to-day operations, these drivers are often correlated with one another (for example, exports tend to be  
24 higher at higher San Joaquin River inflows) and regulatory constraints on multiple drivers may simultaneously be in  
effect.”.)

25 <sup>13</sup> “Entrainment consists of two parts; the capture of fish at the export facilities’ fish screens and the much larger, but  
26 uncounted, loss of fish diverted off their migratory paths and into channels of the south Delta where predation is  
high.” (11/23/21 Herbold Decl., *CNRA Doc. 224*, ¶ 39.)

27 <sup>14</sup> “Two related standards are used to describe the salinity of the Bay–Delta. The first is the Low Salinity Zone or  
28 LSZ. The LSZ is the transition point between the freshwater of the inland rivers and brackish water flowing eastward  
from San Francisco Bay and the Pacific Ocean and includes water ranging in salinity from 0.5 parts per thousand to  
six parts per thousand. The second is referred to as X2. X2 represents the point in the Bay–Delta at which the salinity

1 BiOp recommended a suite of actions (a reasonable and prudent alternative, or “RPA” in the  
2 parlance of the ESA) designed to protect against the harm the water projects would otherwise  
3 cause to delta smelt. (*See* Doc. 85-17 (2008 FWS BiOp) at pp. 279–85.) That RPA included  
4 measures to limit how “negative” OMR flows could become and other actions designed to  
5 provide sufficient Delta outflow to maintain Delta smelt habitat conditions. (*See id.* at pp. 281–  
6 83.)

7 Similarly, an NMFS 2009 BiOp concluded that “the long-term operations of the CVP and  
8 SWP are likely to jeopardize the continued existence” of and “destroy or adversely modify”  
9 critical habitat for winter-run, spring-run, and CV steelhead. (*See* 2009 NMFS BiOp at p. 575.)  
10 That BiOp also included an RPA designed to allow the projects to continue operating without  
11 causing jeopardy to the species or adverse modification to its critical habitat. (*Id.* at pp. 575–671.)  
12 The 2009 NMFS BiOp provided a succinct overview of that 2009 NMFS RPA, pertinent parts of  
13 which provide helpful background here:

14 Water operations result in elevated water temperatures that have  
15 lethal and sub-lethal effects on egg incubation and juvenile rearing  
16 in the upper Sacramento River. The immediate operational cause is  
17 lack of sufficient cold water in storage to allow for cold demands.  
18 This elevated temperature effect is particularly pronounced in the  
19 Upper Sacramento for winter-run and mainstem spring-run, and in  
20 the American River for steelhead. The RPA includes a new year-  
21 round storage and temperature management program for Shasta  
22 Reservoir and the Upper Sacramento River . . . .

23 \*\*\*

24 [W]ater pumping causes reverse flows, leading to loss of juveniles  
25 migrating out from the Sacramento River system in the interior Delta  
26 and more juveniles being exposed to the State and Federal pumps,  
27 where they are salvaged at the facilities. The RPA prescribes Old and  
28 Middle River flow levels to reduce the number of juveniles exposed  
to the export facilities and prescribes additional measures at the  
facilities themselves to increase survival of fish.

(*Id.* at pp. 576–77.)<sup>15</sup>

#### 25 **E. Temperature Management at Shasta Dam under the 2009 NMFS BiOp**

26 Generally, temperature management below Shasta/Keswick Dams involves the release of

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27 is less than two parts per thousand.” *San Luis v. Jewell*, 747 F.3d at 595 (internal record citations omitted).

28 <sup>15</sup> The 2008 FWS and 2009 NMFS BiOps were the subject of numerous lawsuits but were ultimately upheld by the Ninth Circuit. *See San Luis v. Jewell*, 747 F.3d 581; *San Luis v. Locke*, 776 F.3d 971.

1 cold water to meet target temperatures at various temperature compliance points (TCPs) along the  
2 Sacramento River. Keswick Dam is located at River Mile 302. (Doc. 85-12, at p. 2–13.) The  
3 farthest upstream TCP identified in the 2009 NMFS BiOp is Clear Creek (about 10 river miles  
4 below Keswick), then Airport Road Bridge (15 river miles below Keswick), Balls Ferry (25 river  
5 miles below Keswick), and Bend Bridge (44 river miles below Keswick). (*Id.*) The general  
6 purpose of these TCPs is to keep water temperatures cool enough to avoid damaging salmon  
7 eggs, a phenomenon known as “temperature-dependent mortality” (TDM). (*See* Doc. 85-12 at 4-  
8 29; 3/5/20 Rosenfield Decl., ¶ 138.)

9 NMFS’s 2009 BiOp required Reclamation to develop a temperature management plan  
10 (TMP) by May 15 of each year and to implement Shasta Dam operations so as to achieve daily  
11 average water temperatures not to exceed 56°F between Balls Ferry and Bend Bridge from May  
12 15 through September 30 for the protection of winter-run, and not in excess of 56°F between  
13 Balls Ferry and Bend Bridge from October 1 through October 31 for the protection of spring-run  
14 in the mainstem Sacramento River “whenever possible.” (2009 NMFS BiOp at p. 601.) The 2009  
15 NMFS RPA acknowledged that “extending the range of suitable habitat by moving the  
16 compliance point downstream from Balls Ferry” must be balanced against the need to conserve  
17 storage so to accumulate a sufficient cold water pool for use during the subsequent temperature  
18 management season. (*Id.* at 602.)

19 The 2009 NMFS BiOp also addressed practices related to how much water would be  
20 carried over in storage at Shasta Reservoir from one year to the next, a concept termed “carryover  
21 storage,” that is often referred to as “end-of September” or “EOS” storage. It first explained the  
22 pre-existing approach to carryover storage:

23 Before the TCD was built, NMFS required that a 1.9 [million acre  
24 feet (“MAF”)]<sup>16</sup> end-of-September (EOS) minimum storage level be  
25 maintained to protect the cold water pool in Shasta Reservoir, in case  
the following year was critically dry<sup>17</sup> (drought year insurance). This

26 <sup>16</sup> An acre foot of water is the volume of water required to cover one acre of surface area to the depth of one foot, or  
27 approximately 43,560 cubic feet. *United States v. Westlands Water Dist.*, 134 F. Supp. 2d 1111, 1139 n. 61 (E.D. Cal.  
2001).

28 <sup>17</sup> Water Project managers use various scales to describe hydrologic conditions. The most commonly referenced in  
this case is the water year type designation for the Sacramento Valley, which is determined by a formula set forth in

1 was because a relationship exists between EOS storage and the cold  
2 water pool. The greater the EOS storage level, typically the greater  
3 the cold water pool. The requirement for 1.9 MAF EOS was a  
4 reasonable and prudent alternative (RPA) in NMFS' winter-run  
5 opinion (NMFS 1992). Since 1997, Reclamation has been able to  
6 control water temperatures in the upper Sacramento River through  
7 use of the TCD. Therefore, NMFS changed the RPA to a target, and  
8 not a requirement, in the 2004 CVP/SWP operations Opinion.

9 (*Id.* at p. 250.) The 2009 NMFS BiOp continued this approach, setting forth EOS carryover  
10 storage targets in the RPA, with the lowest target being 1.9 MAF in the driest category of years,  
11 and delineating steps Reclamation must take if the various targets cannot be reached. (*See*  
12 *generally id.* at pp. 590–603.) The 2009 NMFS BiOp estimated that—based on then-available  
13 information—the 1.9 MAF target would not be met in 10% of years. (*Id.* at p. 250.) The 2009  
14 RPA also provided drought exception procedures and contingency plans if these temperatures and  
15 carryover storage targets could not be achieved. (*Id.* at p. 600.)

#### 16 **F. Loss of Temperature Control in 2014 and 2015**

17 In 2014, California was in the third year of a drought. (2019 NMFS BiOp at p. 69.)  
18 According to PCFFA's expert, Dr. Jonathan Rosenfield, early in 2014, Reclamation moved the  
19 temperature compliance point "far upstream above Clear Creek's confluence with the Sacramento  
20 River," predicting it could provide required water temperatures to that point. (3/5/20 Rosenfield  
21 Decl., Doc. 82, ¶ 171.) However, despite initial modeling that indicated compliance was possible  
22 and despite Reclamation obtaining various waivers from state Delta outflow requirements that it  
23 asserted were necessary to maintain appropriate water temperatures, river temperatures at the  
24 revised temperature control point exceeded 56°F. (*Id.*) This resulted in temperature-dependent  
25 egg mortality in 2014 of 77% (*id.*) and extremely poor egg-to-fry survival (measured as the  
26 percentage of eggs that survived to produce fry capable of passing the Red Bluff Diversion Dam  
27 on the lower Sacramento River) of approximately 4%. (2019 NMFS BiOp at p. 69.)

28 This unfortunate story repeated in 2015. (*See* 3/5/20 Rosenfield Decl., ¶ 172.) Winter run  
egg-to-fry survival that year was the lowest on record (approximately three percent), "due to the

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California State Water Resources Control Board Decision 1641 on page 188. As State Plaintiffs' expert witness Les Grober has explained: "There are five year types: critically dry, dry, below normal, above normal, and wet." (11/23/21 Grober Decl., ¶ 26 n. 8.) There is also a separate water year type designation for the San Joaquin River watershed. (*See* 2/10/22 Conant Decl., Doc. 451-1, Attachment.)

1 inability to release cold water from Shasta Dam in the fourth year of the drought.” (*Id.*) As a  
2 result, and as the 2019 NMFS BiOp explains, “[w]inter-run [] returns in 2016 to 2018 were low,  
3 as expected, due at least in part to poor in-river conditions for juveniles from brood year 2013 to  
4 2015 during drought years.” (*Id.*) Although “[t]he 2018 adult winter-run return (2,639) improved  
5 from 2017 (977),” it was “dominated by hatchery-origin fish.” (*Id.*)

6 In 2016, after the years of drought and concerns over extremely low population numbers  
7 of winter-run and Delta smelt, FWS and NMFS reinitiated consultation under the ESA. (*See*  
8 Docs. 85-4, 85-5.) Reclamation specifically acknowledged the precarious situation of the winter-  
9 run and Delta smelt in its requests for re-initiation of consultation. (*Id.*)

#### 10 **G. 2019 Biological Opinions**

11 In January 2019, Reclamation issued a biological assessment (BA)<sup>18</sup> for the Proposed  
12 Action. (*See* 2019 NMFS BiOp at p. 12.) Pursuant to the ESA, Reclamation again consulted with  
13 FWS and NMFS. (*See id.*)

14 In July 2019, NMFS prepared a draft BiOp in which the agency concluded that, absent  
15 constraints, the Reclamation’s proposed plan as set forth in the January 2019 BA was likely to  
16 jeopardize the continued existence of, and destroy or adversely modify the critical habitat of, the  
17 listed salmonid species. (Doc. 85-13.) Thereafter, Reclamation and DWR incorporated changes to  
18 the proposed plan, including additional commitments to address impacts to listed species. (*See*  
19 2019 NMFS BiOp at pp. 12–14.)

20 A few months later, on October 21, 2019, Reclamation issued a revised, Final BA  
21 describing a revised operating plan for the Water Projects (Doc. 85-12), which constituted the  
22 final Proposed Action. On the same day, NMFS issued a BiOp that concluded Reclamation’s  
23 revised proposed plan was not likely to jeopardize the existence of winter-run and spring-run  
24

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25 <sup>18</sup> Under the ESA, an agency proposing to take an action (often referred to as the “action agency”) must first inquire  
26 of FWS and/or NMFS whether any threatened or endangered species “may be present” in the area of the proposed  
27 action. *See* 16 U.S.C. § 1536(c)(1). If endangered species may be present, the action agency may prepare a BA to  
28 determine whether such species “is likely to be affected” by the action. *Id.*; 50 C.F.R. § 402.12(b). “An agency may  
avoid the consultation requirement only if it determines that its action will have ‘no effect’ on a listed species or  
critical habitat.” *Karuk Tribe of Cal. v. U.S. Forest Serv.*, 681 F.3d 1006, 1027 (9th Cir. 2012) (*en banc*) (internal  
citation omitted). If the BA determines that a threatened or endangered species is “likely to be affected,” the agency  
must formally consult with FWS and/or NMFS. *See* 16 U.S.C. § 1536(a)(2); 50 C.F.R. § 402.14.

1 salmon and Central Valley steelhead beyond that permitted under its 2009 opinion. (*See generally*  
2 2019 NMFS BiOp.) Following a very similar consultation pathway, FWS issued an opinion that  
3 Reclamation’s proposed plan was not likely to jeopardize the continued existence of the Delta  
4 smelt or modify its habitat. (Doc. 85-1 (2019 FWS BiOp).) Having found no jeopardy, the BiOps  
5 imposed no additional protective conditions on the Proposed Action, which was allowed to  
6 proceed as described in Reclamation’s Final BA. These related lawsuits followed.

7 **H. Temperature Management at Shasta Dam under the 2019 NMFS BiOp<sup>19</sup>**

8 The 2019 NMFS BiOp set forth a “tiered” Shasta temperature management strategy  
9 designed, at least facially, to account for the real-time spatial and temporal distribution of redds  
10 (egg clusters) to attempt to conserve cold water for use when it is most needed. A Reclamation  
11 witness described this tiered approach generally as follows.

12 The tiered strategy recognizes that cold water is a scarce resource  
13 and that additional measures may be required when hydrology and  
14 meteorology do not provide sufficient cold water to avoid  
15 temperature dependent mortality throughout the entire temperature  
16 management period. The tiered strategy is intended to optimize use  
of cold water at Shasta for Winter-Run Chinook Salmon eggs based  
on life-stage-specific requirements during the temperature  
management season.

17 (3/26/20 White Decl., Doc. 119-1, ¶ 23 (citing Doc. 85-12 at 4-31 to 4-32).)

18 The 2019 NMFS BiOp concluded that the Clear Creek TCP serves as a reliable surrogate  
19 for controlling temperatures at the farthest downstream redd location. (*See* 2019 NMFS BiOp at  
20 pp. 173, 237.) The tiered strategy adopts the view that using cold water too early (i.e., before  
21 redds are deposited) and/or to meet a TCP too far downstream of the actual location of redds,  
22 wastes cold water that is needed later in the season during the critical incubation season. Thus, the  
23 tiered strategy hypothetically “allows for strategically selected temperature objectives,” based on  
24 projected total storage, the available “cold water pool,” meteorology, and downstream conditions  
25 (which can influence how much water Reclamation must release for other reasons), among other  
26

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27 <sup>19</sup> The Court recognizes that the 2019 BiOps evaluated, and approved, Water Project operations and protective  
28 measures as proposed by Reclamation and described in Reclamation’s Proposed Action. Purely for ease of reference,  
however, the Court occasionally refers to the applicable regulatory constraints as stemming from the 2019 BiOps  
themselves.

1 things. (Doc. 85-12 at 4-28.)

2 The temperature targets for each “Tier” under the 2019 BiOps are as follows:

- 3 • In Tier 1 years, Reclamation will maintain daily average temperatures of 53.5°F at  
4 Clear Creek throughout the entire temperature management season (May 15 through  
5 Oct 30). (2019 NMFS BiOp at pp. 241–2.)
- 6 • In Tier 2, Reclamation will target 53.5°F at Clear Creek during the “critical egg  
7 incubation period.” (*Id.* at p. 242.)
- 8 • Tier 3 is the proposed operation when the cold water pool in Shasta Reservoir on May  
9 1 is less than 2.3 million acre-feet or when modeling suggests that maintaining 53.5°F  
10 at the Clear Creek TCP would have higher mortality than a warmer temperature. (*Id.*)  
11 In a Tier 3 year, Reclamation would target 53.5°–56° degrees at Clear Creek during  
12 the critical egg incubation period and would consider “intervention measures.”<sup>20</sup> (*Id.*)  
13 Reclamation would not allow temperatures to exceed 56° but would decrease  
14 temperatures to below that during the periods of greatest temperature stress on the  
15 species. (*Id.*)
- 16 • Tier 4 conditions are “defined by mid-March storage and operations forecasts of  
17 Shasta Reservoir total storage less than 2.5 million acre-feet at the beginning of May,  
18 or if Reclamation cannot meet 56°F at Clear Creek gauge.” (*Id.* at p. 243.) In Tier 4  
19 years, Reclamation will “initiate discussions with FWS and NMFS on potential  
20 intervention measures to address low storage conditions that continue into April and  
21 May.” (*Id.* at p. 243.)

22 Under the 2019 NMFS BiOp, temperature management planning begins in early February,  
23 when Reclamation prepares forecasts of water year runoff using precipitation to date, snow water  
24 content accumulations, and runoff. If, for example, May 1 storage is projected to be less than 2.5  
25 MAF, Reclamation would initiate discussions on intervention measures for a Tier 4 year.

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27 <sup>20</sup> The “[i]ntervention measures” referenced in the 2019 NMFS BiOp include “consulting with [FWS and NMFS,  
28 increasing hatchery intake, adult rescue, and juvenile trap and haul.” (*Id.* at p. 249.) NMFS notes in the 2019 NMFS  
BiOp that “any benefits from implementation of these measures is not included in results presented [therein] due to  
their inability to be characterized by the modeling.” (*Id.* at p. 243.)

1 Reclamation would then perform initial temperature modeling in early April, which is timed to  
2 coincide with the release of certain critical forecasts. This April temperature model scenario is  
3 then used to develop an initial TMP. After Reclamation determines the actual May 1 cold water  
4 pool volume, it presents a draft TMP to stakeholders the first week of May, with the final TMP  
5 being submitted to NMFS and SWRCB on or before May 20. During the temperature  
6 management “season” (i.e., the time of year when temperature is managed under the TMP), the  
7 2019 NMFS BiOp calls for Reclamation to convene the Sacramento River Temperature Task  
8 Group at least monthly during the season and to provide real time reports on temperature  
9 performance. (*See generally* Doc. 363 at 25–26 (citing Doc. 85-12 at 4-15, 4-32 to 4-33 & Shasta  
10 Cold Water Pool Management Guidance Document cited therein).) NMFS provides technical  
11 assistance, review, and comment on the draft and final temperature management plans through  
12 the Sacramento River Temperature Task Group. (2019 NMFS BiOp pp. 256–57; Doc. 85-12 at 4-  
13 35.)

14 The 2019 NMFS BiOp plans for certain other measures designed with an intent to benefit  
15 winter-run. Among other things, the Proposed Action notes a Resolution adopted by the  
16 Sacramento River Settlement Contractors (SRS Contractors)<sup>21</sup>, pursuant to which, during drier  
17 water years (Tier 3 and Tier 4), the SRS Contractors will meet and confer with Reclamation,  
18 NMFS, and other agencies as appropriate to determine if there is any role for the SRS Contractors  
19 in connection with Reclamation’s operational decision-making for Shasta Reservoir annual  
20 operations. (Doc. 85-12 at 4-89.) While a pre-determined reduction (25%) in deliveries to the  
21 SRS Contractors is automatically triggered in certain dry years under their “settlement” contracts,  
22 other actions may be considered, including: (1) modifying the scheduling of spring diversions by  
23 the SRS Contractors; (2) voluntary, compensated water transfers by the SRS Contractors subject  
24 to Reclamation approval; and (3) delayed SRS Contractor diversion for rice straw decomposition  
25 during the fall months. (*Id.*) The Proposed Action also includes non-flow measures such as

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26 <sup>21</sup> The SRS Contractors are “individuals and entities . . . that individually hold settlement agreements (the SRS  
27 Contracts) with [ ] Reclamation.” (2019 NMFS BiOp at p. 8.) The SRS Contractors hold “senior” rights that pre-date  
28 the CVP and SWP, and thus Reclamation’s “without action” scenarios assume these senior rights holders would  
continue to divert water under their pre-CVP/SWP rights, because that is what they previously did in absence of the  
operation of the CVP and SWP. (Doc. 85-12 at 3-17.)



1 spawning and rearing habitat restoration, construction of lower intakes in critical areas, and other  
2 fish passage projects. (*Id.* at 4-40 to 4-42.) Despite these, NMFS conceded in its 2019 BiOp that:

3           The proposed action will result in ongoing adverse effects to  
4           Sacramento River winter-run Chinook salmon. The most significant  
5           adverse effects . . . are temperature dependent egg mortality that will  
6           occur in all of the Summer Cold Water Pool Management tier types,  
7           but most significantly in tier 3 and 4 years.

8 (2019 NMFS BiOp at p. 753.) The plaintiffs in these lawsuits vigorously challenge on many  
9 fronts the sufficiency of the 2019 NMFS BiOp’s tiered management approach.

### 10 **I. Issuance of State ITP and Negotiation of the 2022 IOP**

11           On March 31, 2020, after the filing of these related lawsuits, the State of California issued  
12 its Incidental Take Permit (State ITP) covering the operations of the SWP and addressing the  
13 impacts of the SWP on species listed under CESA. (Doc. 314-1.) Among other things, the State  
14 ITP required that the SWP’s operations abide by protective measures *in addition to those set forth*  
15 *in the 2019 biological opinions.* (*See generally id.*) This created a potential for conflict (or “mis-  
16 alignment”) between SWP and CVP operations. (11/23/21 Leahigh Decl., *CNRA* Doc. 222, ¶ 49.)  
17 Such mis-alignment can, in turn, cause various problems, including inefficiencies and  
18 management complications. (*See id.*, ¶ 52.)

19           Beginning in early 2021, the parties agreed to several limited stays to allow for review of  
20 these cases by the then-new Biden Administration. (*See Docs.* 278 at 8–9.) In the summer of  
21 2021, state and federal water and fisheries agencies began discussing ways to reconcile the  
22 operations of the CVP and SWP given the conflicts between the 2019 BiOps and the State ITP.  
23 On August 20, 2021, this Court issued an order staying the litigation through September 30, 2021.  
24 (Doc. 285.)

25           On September 30, 2021, Federal Defendants formally reinitiated consultation on the  
26 challenged biological opinions. (11/23/21 Conant Decl., Doc. 314-2, ¶ 9.) As mentioned, the  
27 remand is ongoing with a current estimate of completion by the end of 2024. (Doc. 482-4.)

28           Concerned about how the projects were to be operated while the re-initiated consultation  
was ongoing, the court encouraged the parties to engage in the “serious task of determining how  
the projects will be operated during any interim period if ESA-consultation is re-initiated.” (Doc.

1 285 at 4.) Those efforts resulted in the filing of a motion to approve the 2022 IOP, which was the  
2 subject of extensive briefing and a day-long evidentiary hearing (*see* Doc. 377), followed by  
3 issuance of the IOP Order on March 11, 2022. (Doc. 394.)

4 The following year, given that the remand was still in progress, the Federal Defendants  
5 and State Plaintiffs again negotiated an IOP, which was again presented to the Court for approval.  
6 After extensive briefing, including numerous objections and proposals for alternative relief, and  
7 an evidentiary hearing, the 2023 IOP was approved. (*See* 2023 IOP Order.)

## 8 **J. Overview of Pending Motions**

9 The disputed issues related to interim relief for 2024 are even narrower in scope than  
10 those addressed in the 2023 IOP Order. This is in part because, as discussed below, many of the  
11 disputed provisions have already expired or are highly unlikely to be triggered in the remainder of  
12 the Water Year.

13 The 2024 IOP itself proposes certain changes, many of which are ministerial and do not  
14 warrant detailed discussion. (*See* Doc. 482 at 6.) The substantive changes include the following:

- 15 • Reclamation has agreed to adopt and apply to the CVP several provisions of the ITP  
16 pertaining to the protection of Longfin smelt, including ITP Conditions of Approval  
17 8.3.3, 8.4.1, and 8.4.2. (2024 IOP, ¶ 6.i-iv.) These provisions are described in greater  
18 detail below as appropriate.
- 19 • Reclamation has also agreed to reduce exports consistent with ITP Condition of  
20 Approval 8.17 as follows: In the event that WY 2024 is classified based on the San  
21 Joaquin Valley 60-20-20 index as Critical, Dry, or Below Normal, Reclamation will  
22 “ensure a volumetric reduction consistent with DWR’s implementation” of Condition  
23 8.17. (2024 IOP, ¶ 12.) In the event WY 2024 is classified as Above Normal,  
24 Reclamation will reduce exports by 100,000 AF to contribute to Spring outflow,  
25 except that the reductions will be suspended during high flow conditions as described  
26 in ITP Condition 8.17. (*Id.*)
- 27 • The moving parties have further agreed to modify the so-called “turbidity bridge  
28 avoidance” action, which was included in the 2019 FWS BiOp and ITP Condition of

1 Approval 8.5.1, to address an “inconsistency” in the way DWR and Reclamation “off  
2 ramped” from that action. (2024 IOP, ¶ 8.) Put another way, Reclamation has agreed  
3 to time the duration of the turbidity bridge avoidance action in a way that is consistent  
4 with DWR’s timing. (*See id.*)

5 The proponents of the 2024 IOP seek judicial approval of their proposal, inclusive of the  
6 above changes.

7 PCFFA objects to the 2024 IOP unless it is modified in various ways that are discussed in  
8 detail below. In general, PCFFA requests provisions that: (a) again impose slightly lower  
9 temperature targets for winter-run during the temperature management season in dryer years;  
10 (b) also impose temperature targets for all other year types; (c) require that Reclamation manage  
11 operations to meet higher carryover storage goals in certain year types; (c) close the so-called  
12 “stored water loophole”; (d) prohibit Reclamation from seeking exemptions from California  
13 Water Quality Standards unless Reclamation first suspends non-essential deliveries to CVP  
14 contractors to the extent of Reclamation’s discretionary authority, and (e) extend the 2024 IOP’s  
15 protections for Longfin smelt through March 31. (*See Doc. 492 at 16–17.*)

16 Defendant Intervenors raise some general objections but focus on the 2024 IOP’s  
17 proposed measures to protect Longfin smelt, the inclusion of which Defendant Intervenors  
18 maintain are unlawful and unreasonable given that Longfin smelt have yet to be listed under the  
19 ESA. (*See generally Doc. 495.*)

20 Though the timeline of the Court’s review has been limited by the need to rule on these  
21 matters as quickly as possible, the Court has thoroughly considered all of these arguments and  
22 supporting documentation.

### 23 III. STANDARDS OF DECISION

#### 24 A. Applicable Standards of Decision Articulated in Prior Orders

25 The Court has previously engaged in a thorough examination of the competing standards  
26 and articulated several key holdings relevant here.

27 First, the Court concluded that jurisprudence related to approval of consent decrees  
28 represents “the best—and possibly the only practical way—to approach the interim injunctive

1 relief proposals in this case.” (*Id.* at 71.) This is because “the IOP [is] a stipulation among the  
2 parties to the *CNRA* case regarding the form of injunctive relief those parties believe should be  
3 imposed . . .” (*Id.*)

4 Where a stipulation results in the termination of claims, it is often  
5 termed a “consent decree.” *See Gates v. Shinn*, 98 F.3d 463, 468 (9th  
6 Cir. 1996). Courts draw upon relatively well-developed standards  
7 when determining whether it is appropriate to adopt a consent decree.  
8 Approval of a proposed consent decree lies within the discretion of a  
9 district court. *See United States v. Oregon*, 913 F.2d 576, 580 (9th  
10 Cir. 1990). A district court may approve a consent decree when the  
11 decree is “fair, reasonable and equitable and does not violate the law  
12 or public policy.” *Turtle Island Restoration Network v. U.S. Dep’t of*  
13 *Com.*, 672 F.3d 1160, 1165 (9th Cir. 2012). If the consent decree  
14 “comes within the general scope of the case made by the pleadings,  
15 furthers the objectives upon which the law is based, and does not  
16 violate the statute upon which the complaint was based, the  
17 agreement should be entered by the court.” *Hawaii’s Thousand*  
18 *Friends, Life of Land, Inc. v. Honolulu*, 149 F.R.D. 614, 616 (D.  
19 Haw. 1993) (quoting *Sierra Club, Inc. v. Elec. Controls Design Inc.*,  
20 909 F.2d 1350, 1355 (9th Cir. 1990)). Additionally, the court must  
21 “be satisfied that the decree represents a reasonable factual and legal  
22 determination.” *Oregon*, 913 F.2d at 581 (internal quotation  
23 omitted). A court’s discretion should be exercised in favor of the  
24 strong policy favoring voluntary settlement of litigation because  
25 settlements “conserve judicial time and limit expensive litigation,”  
26 *Ahern v. Cent. Pac. Freight Lines*, 846 F.2d 47, 48 (9th Cir. 1988),  
27 but a court must nonetheless independently scrutinize its terms and  
28 avoid “rubber stamp approval,” *United States v. Montrose Chem.*  
*Corp. of Cal.*, 50 F.3d 741, 747 (9th Cir. 1995); *see also Local No.*  
*93, Int’l Ass’n of Firefighters v. City of Cleveland*, 478 U.S. 501, 525  
 (“[A] federal court is more than a recorder of contracts from whom  
 parties can purchase injunctions; it is an organ of government  
 constituted to make judicial decisions.”).

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The Ninth Circuit recognized in *Federal Trade Commission v.*  
*Enforma Natural Products, Inc.*, that standards applicable to the  
review of consent decrees are relevant to stipulated injunctions as  
well, because a stipulated injunction is effectively a “temporary  
settlement” of a lawsuit. 362 F.3d 1204, 1218 (9th Cir. 2004).

(2022 IOP Order at 71–73; *see also id.* at 74 (noting that “by applying at least some principles  
from consent decree review to the stipulated injunction in that case, the Ninth Circuit’s ruling in  
*Enforma* gives strong support for the proposition that it is appropriate to draw from consent  
decree jurisprudence to evaluate stipulated injunctions”).)

Second, and relatedly, the Court rejected PCFFA’s contention that the IOP must “avoid

1 jeopardy” to be adopted. (*Id.* at 67–69.) Though the ESA imposes upon the CVP and SWP  
2 operators a *substantive* obligation to ensure that agency action is not likely to jeopardize the  
3 continued existence of any ESA-listed species or result in the destruction or adverse modification  
4 of a listed species’ designated critical habitat, *see* 16 U.S.C. § 1536(a)(2), in this Circuit, “[i]t is  
5 *not* an abuse of discretion for a court to issue an injunction that *does not completely prevent the*  
6 *irreparable harm that it identifies.*” *See Nat’l Wildlife Fed’n v. Nat’l Marine Fisheries Serv.*, 886  
7 F.3d 803, 823 (9th Cir. 2018) (*NWF III*) (emphasis added). The Court concluded that this rule  
8 applies with equal force in the context of the approval of a consent decree:

9 [I]n *Turtle Island*, intervenors argued that the injunctive relief  
10 contained within the proposed consent decree was unreasonable  
11 because Federal Defendants did not comply with the ESA’s best  
12 available science requirement, 16 U.S.C. § 1536(a)(2), before  
13 entering into the agreement. *Turtle Island*, 834 F. Supp. at 1015–16.  
14 But, as the district court in that case observed, “[p]rovided that the  
15 proposed consent decree is fair, reasonable, and equitable, and does  
16 not violate the law or public policy, it need not utilize the best  
17 scientific evidence. Such a requirement would transform evaluation  
18 of a proposed consent decree into a decision on the merits in  
19 contravention of controlling authority.” *Id.* at 1019 (citing *Oregon*,  
20 913 F.2d at 582) . . .

21 In sum, while jeopardy is certainly relevant, the court is not  
22 convinced that every injunction imposed in an ESA [case] must  
23 demonstrably “avoid jeopardy.” Or, conversely, that a court cannot  
24 adopt an injunction unless it demonstrably “avoids jeopardy.” While  
25 a court “must act within the bounds of the [applicable] statute[s] and  
26 without intruding upon the administrative province,” it “may adjust  
27 its relief to the exigencies of the case in accordance with the equitable  
28 principles governing judicial action.” *NWF III*, 886 F.3d at 823.

(2022 IOP Order at 69.)

Third, at a bare minimum,<sup>22</sup> the “traditional” standard for the imposition of preliminary

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<sup>22</sup> A preliminary injunction “can take two forms,” either a “prohibitory injunction” or a “mandatory injunction.” *Marlyn Nutraceuticals, Inc. v. Mucos Pharma GmbH & Co.*, 571 F.3d 873, 878–79 (9th Cir. 2009). A “Prohibitory injunction” simply “preserve[s] the *status quo* pending a determination of the action on the merits,” while a “mandatory injunction” “orders a responsible party to take action.” *Id.* (quotation omitted). In the context of injunctive relief, “[t]he *status quo* means the last, uncontested status which preceded the pending controversy.” *Garcia v. Google, Inc.*, 786 F.3d 733, 740 n.4 (9th Cir. 2015) (internal quotation omitted). Mandatory injunctions are “particularly disfavored,” and a plaintiff’s burden is “doubly demanding” when seeking one. *Id.* “In general, mandatory injunctions are not granted unless extreme or very serious damage will result and are not issued in doubtful cases.” *Marlyn Nutraceuticals*, 571 F.3d at 879 (internal quotation marks and citation omitted). Consequently, in seeking a mandatory injunction plaintiffs must “establish that the law and facts *clearly favor*” their position. *Garcia*, 786 F.3d at 740 (emphasis in original). As the Court previously explained, other courts have found that the mandatory injunction standard applies under somewhat similar circumstances. (*See* IOP Order at 62–63 (collecting cases).) The Court again finds it unnecessary to determine whether the mandatory injunction standard

1 injunctive relief applies to any competing requests for relief not included within the stipulated  
2 IOP's terms. The 2022 IOP Order articulated the familiar standards in detail:

3 The "traditional" standard for the imposition of preliminary  
4 injunctive relief "requires a party to demonstrate 'that he is likely to  
5 succeed on the merits, that he is likely to suffer irreparable harm in  
6 the absence of preliminary relief, that the balance of equities tips in  
7 his favor, and that an injunction is in the public interest.'" *Stormans,  
8 Inc. v. Selecky*, 586 F.3d 1109, 1127 (9th Cir. 2009) (quoting *Winter  
9 v. Nat. Res. Def. Council, Inc.*, 555 U.S. 7, 20 (2008)); *see also Ctr.  
10 for Food Safety v. Vilsack*, 636 F.3d 1166, 1172 (9th Cir. 2011)  
11 ("After *Winter*, 'plaintiffs must establish that irreparable harm is  
12 likely, not just possible, in order to obtain a preliminary injunction.');" *Am. Trucking Ass'n, Inc. v. City of Los Angeles*, 559 F.3d 1046, 1052  
13 (9th Cir. 2009). The Ninth Circuit has also held that an "injunction is  
14 appropriate when a plaintiff demonstrates . . . that serious questions  
15 going to the merits were raised and the balance of hardships tips  
16 sharply in the plaintiff's favor." *All. for Wild Rockies v. Cottrell*, 632  
17 F.3d 1127, 1134–35 (9th Cir. 2011) (internal quotation and citation  
18 omitted).<sup>23</sup> For the purposes of injunctive relief, "serious questions"  
19 refers to questions which cannot be resolved one way or the other at  
20 the hearing on the injunction and as to which the court perceives a  
21 need to preserve the *status quo* lest one side prevent resolution of the  
22 questions or execution of any judgment by altering the *status quo*.  
23 Serious questions are substantial, difficult and doubtful, as to make  
24 them a fair ground for litigation and thus for more deliberative  
25 investigation.

26 *Republic of the Philippines v. Marcos*, 862 F.2d 1355, 1362 (9th Cir.  
1988) (quotations marks and citation omitted).

27 The party seeking an injunction bears the burden of proving these  
28 elements. *Klein v. City of San Clemente*, 584 F.3d 1196, 1201 (9th  
Cir. 2009); *see also Caribbean Marine Servs. Co. v. Baldrige*, 844  
F.2d 668, 674 (9th Cir. 1988) (citation omitted) ("A plaintiff must do  
more than merely allege imminent harm sufficient to establish  
standing; a plaintiff must demonstrate immediate threatened injury  
as a prerequisite to preliminary injunctive relief."). Finally, an  
injunction is "an extraordinary remedy that may only be awarded  
upon a clear showing that the plaintiff is entitled to such relief."  
*Winter*, 555 U.S. at 22.

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That said, "[e]nvironmental injury, by its nature, can seldom be  
adequately remedied by money damages and is often permanent or

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applies here because PCFFA has failed to meet its burden under the more relaxed, traditional standard.

<sup>23</sup> The Ninth Circuit has found that this "serious question" version of the circuit's sliding scale approach survives "when applied as part of the four-element *Winter* test." *All. for the Wild Rockies*, 632 F.3d at 1134. "That is, 'serious questions going to the merits' and a balance of hardships that tips sharply towards the plaintiff can support issuance of a preliminary injunction, so long as the plaintiff also shows that there is a likelihood of irreparable injury and that the injunction is in the public interest." *Id.* at 1135.

1 at least of long duration, *i.e.*, irreparable.” *Amoco Prod. Co. v. Vill.*  
2 *of Gambell*, 480 U.S. 531, 545 (1987). In the context of the ESA,  
3 “Congress has spoken in the plainest of words, making it abundantly  
4 clear that the balance has been struck in favor of affording  
5 endangered species the highest of priorities . . .” *TVA v. Hill*, 437  
6 U.S. at 194. To show irreparable harm in the context of the ESA,  
7 plaintiffs do not need to demonstrate an “extinction level” threat. *See*  
8 *[NWF III]*, 886 F.3d [at] 818–19 [ ] (“*NWF III*”) (indicating without  
9 specifying that some “lesser magnitude” of harm will suffice); *see*  
10 *also Nat’l Wildlife Fed’n v. Nat’l Marine Fisheries Serv.*, 524 F.3d  
11 917, 930 (9th Cir. 2008) (“*NWF IP*”) (finding that an agency “may  
12 not take action that deepens [pre-existing/baseline] jeopardy by  
13 causing additional harm”). Thus, for example, impeding a listed  
14 species’ progress toward recovery may suffice to satisfy the  
15 irreparable harm requirement. *Wishtoyo Found. v. United Water*  
16 *Conservation Dist.*, No. CV 16-3869-DOC (PLAx), 2018 WL  
17 6265099, at \*65 (C.D. Cal. Sept. 23, 2018), *aff’d*, 795 F. App’x 541  
18 (9th Cir. 2020); *see also PCFFA v. Gutierrez*, 606 F. Supp. 2d  
19 [1195,] 1207–10, 1249 [(E.D. Cal. 2008)].

20 Any injunction must be narrowly tailored to avoid the irreparable  
21 harm identified. *NWF III*, 886 F.3d at 823. “There must be a  
22 sufficient causal connection between the alleged irreparable harm  
23 and the activity to be enjoined, but a plaintiff need not further show  
24 that the action sought to be enjoined is the exclusive cause of the  
25 injury.” *Id.* (internal quotation and citation omitted). Moreover, “[i]t  
26 is not an abuse of discretion for a court to issue an injunction that  
27 does not completely prevent the irreparable harm that it identifies.”  
28 *Id.* Finally, a court may decline to impose injunctive relief that is  
infeasible. *See NWF v. NMFS*, No. CV 01-640-RE, 2005 WL  
3576843, at \*7 (D. Or. Dec. 29, 2005) (declining to order requested  
ESA relief where the proposed measures were not feasible).

(2022 IOP Order at 61–64.)

## **B. Renewed Arguments Regarding Standards of Decision**

The Federal Defendants and State Plaintiffs once again assert that the Court’s prior rulings regarding the applicable standards of decision are “law of the case” and therefore that the Court should not revisit its rulings on those issues. (*See* Doc. 482 at 10; *see also* Doc. 406 at 9.) The Court has addressed this argument previously as follows:

Though [the Moving Parties’] general description of the law of the case doctrine is correct, the doctrine is more nuanced than Federal Defendants acknowledge. “The law of the case doctrine does not . . . bar a court from reconsidering its own orders before judgment is entered or the court is otherwise divested of jurisdiction over the order.” *See Askins v. U.S. Dept. of Homeland Sec.*, 899 F.3d 1035, 1042 (9th Cir. 2018); *see also Dreith v. Nu Image, Inc.*, 648 F.3d 779, 787–88 (9th Cir. 2011) (“[A] district court has the inherent power to revisit its non-final orders, and that power is not lost when the case

1 is assigned mid-stream to a second judge.”). “That leaves the district  
2 court free to correct any errors or misunderstandings without having  
3 to find that its prior decision was ‘clearly erroneous.’” *Askins*, 899  
4 F.3d at 1043. Nonetheless, just because the Court may reconsider the  
conclusions of the 2022 IOP Order does not mean that it will be  
moved to do so. *See id.* at 1043 (“The district court may decide the  
second motion . . . in the same way it decided the first.”).

5 (2023 IOP Order at 26–27.) The parties’ recent arguments do not move the needle on this subject.

#### 6 IV. EVIDENTIARY MATTERS

7 At least one party has requested that the Court take judicial notice of documents in the  
8 public record. Those requests are GRANTED as to any such documents that have been cited  
9 herein. (Doc. 507.) To the extent those documents have not been cited, the requests for judicial  
10 notice are **DENIED AS MOOT**.

#### 11 V. ANALYSIS OF THE 2024 IOP<sup>24</sup>

12 As in prior orders, the Court structures its review of the 2024 IOP around the general rule  
13 that a district court may enter a proposed consent judgment, or in this case approve a stipulated  
14 injunction, “if the court decides that it is fair, reasonable, and equitable and does not violate the  
15 law or public policy.” *Sierra Club*, 909 F.2d at 1355.

##### 16 A. Fairness

17 “Fairness should be evaluated from the standpoint of signatories and nonparties to the  
18 decree.” *Turtle Island*, 834 F. Supp. 2d at 1016 (internal citations and quotations omitted). “In  
19 determining whether a proposed consent decree is fair, courts examine both procedural and  
20 substantive fairness.” *Id.*; *see also United States v. Pac. Gas & Elec.*, 776 F. Supp. 2d 1007, 1024  
21 (N.D. Cal. 2011) (*PG&E*).

##### 22 1. Procedural Fairness

23 The 2022 IOP Order explained how procedural fairness is to be evaluated:

24 To evaluate procedural fairness, the court must determine whether  
25 the negotiation process was “fair and full of adversarial vigor.”  
26 *United States v. Chevron*, 380 F. Supp. 2d 1104, 1110–11 (N.D. Cal.  
2005). If the decree is the product of “good faith, arms-length

27 <sup>24</sup> Once again, the Court has not found it practical to include a separate “findings of fact” section in this order; rather,  
28 it has included relevant discussion of the factual record within its analysis. To the extent that any finding in the  
analysis section could be interpreted as a finding of fact rather than a conclusion of law, that is the Court’s intent, as  
is the reverse.



1 negotiations,” it is “presumptively valid.” *Id.* (quoting *Oregon*, 913  
2 F.2d at 581). At the same time, “the district court must ensure that  
3 the agreement is not . . . a product of collusion . . .” *PG&E*, 776 F.  
4 Supp. 2d 1025.

5 (2022 IOP Order at 80.) Applying these standards, the 2022 IOP Order found that the 2022 IOP  
6 was produced from intensive negotiations that lasted more than two months, with meetings that  
7 occurred sometimes multiple times per week. (*Id.* at 81.) The Court rejected Defendant  
8 Intervenors’ argument that negotiations between the Federal Defendants and State Plaintiffs were  
9 “politically-motivated” and therefore were not undertaken in good faith. (*Id.*) Instead, the 2022  
10 IOP Order found that because Federal Defendants have maintained throughout these proceedings  
11 that they have not violated the law, whereas State Plaintiffs consistently maintained the contrary  
12 position, the IOP negotiations were not tainted by collusion. (*Id.*) Moreover, the Court found that  
13 there was no requirement that the negotiations be inclusive because “[t]he Government need not  
14 allow third parties to participate in settlement negotiations.” (*Id.* at 83, citing *Turtle Island*, 834 F.  
15 Supp. 2d at 1020–21; *see also id.* (“So long as a party is given the opportunity to ‘air its  
16 objections and the district court has determined that the settlement is fair and reasonable, a party’s  
17 lack of consent will not block the entry of the consent decree/temporary settlement.”).)

18 In relation to the 2023 IOP, the Court found no reason to change the fairness analysis  
19 because no objecting party presented any new information. (2023 IOP Order at 30–31.) There  
20 was no suggestion that the postures of the Federal Defendants and State Plaintiffs have changed;  
21 they remained adversarial. (*Id.*) Negotiations were thorough and frequent. (*Id.*)

22 Once again, the present record supports the same conclusion. (*See* Doc. 482 at 10–11  
23 (indicating that Federal Defendants and State Plaintiffs met regularly to negotiate the renewed  
24 IOP, met with representatives of the other parties to these related cases, provided them with a  
25 draft IOP, and solicited their feedback).) The 2024 IOP is procedurally fair.

## 26 2. Substantive Fairness

27 In evaluating substantive fairness, it is “important for the district court to be fully  
28 informed regarding the costs and benefits of the decree.” *Chevron*, 380 F. Supp. 2d at 1113  
(citing *Montrose Chem. Corp.*, 50 F.3d at 746). However, “[i]t is not the duty of the court to

1 determine whether ‘the settlement is one which the court itself might have fashioned, or considers  
2 ideal.’” *Chevron*, 380 F. Supp. 2d at 1111 (quoting *United States v. Cannons Eng’g Corp.*, 899  
3 F.2d 79, 84 (1st Cir. 1990).). Rather, substantive fairness “mirrors the requirement that the decree  
4 be equitable.” *United States v. Telluride*, 849 F. Supp. 1400, 1402 (D. Co. 1994). Put another  
5 way, the substantive fairness inquiry “concerns the issues of corrective justice and  
6 accountability.” *Arizona ex rel. Woods v. Nucor Corp.*, 825 F. Supp. 1452, 1458 (D. Ariz. 1992),  
7 *aff’d sub nom. Arizona v. Components Inc.*, 66 F.3d 213 (9th Cir. 1995). “[T]he court’s approval  
8 is nothing more than an amalgam of delicate balancing, gross approximations and rough justice.”  
9 *Oregon*, 913 F.2d at 581 (internal quotations omitted). The court “need only be satisfied that the  
10 decree represents a ‘reasonable factual and legal determination.’” *Id.*

11 The 2022 IOP relied upon *Hawaii’s Thousand Friends*, 149 F.R.D. at 616, to provide a  
12 general, practical approach to its analysis of the 2022 IOP, which Judge Drozd concisely  
13 described as “a complex package of measures that is layered on top of one of the most complex  
14 regulatory schemes in all of environmental law.” (2022 IOP Order at 84.) In *Hawaii’s Thousand*  
15 *Friends*, the district court found that a consent decree (or here a stipulated injunction) should be  
16 approved if it “comes within the general scope of the case made by the pleadings, furthers the  
17 objectives upon which the law is based, and does not violate the statute upon which the complaint  
18 was based.” 149 F.R.D. at 616. Following this rubric, the 2022 IOP Order found “[i]n a broad  
19 sense,” that “the IOP addresses real disputes between Federal Defendants and State Plaintiffs in  
20 meaningful and reasonably practical ways,” (2022 IOP Order at 84), that the central components  
21 of the IOP came “within the general scope of the case made by the pleadings,” and that the 2022  
22 IOP meaningfully and reasonably addressed each of those issues, keeping in mind the central role  
23 of the Court, which is to determine whether the IOP “furthers the objectives upon which the law  
24 is based.” *Id.* The Court relied on this general standard to evaluate the 2023 IOP. (*See generally*  
25 2023 IOP Order.)

26 In support of Court approval of the longfin smelt provisions included in the 2024 IOP,  
27 State Plaintiffs appear to suggest that the Court “should” approve a consent decree if it  
28 (1) comes within the general scope of the claims advanced in the pleadings; (2) furthers the

1 objectives of (and therefore does not violate) laws underpinning those claims, even if the consent  
2 decree may violate another statute or public policy. (*See CNRA* Doc. 348 at 3–5 (suggesting that  
3 the Court should disregard Defendant Intervenors’ arguments that the 2024 IOP violates the  
4 Central Valley Project Improvement act (CVPIA) and the Agreement Between the United States of  
5 America and the Department of Water Resources of the State of California for Coordinated Operation  
6 of the Central Valley Project and the State Water Project (COA)).) To the extent State Plaintiffs  
7 truly intended for their argument to go this far, the Court finds it unpersuasive. Though it is true  
8 the *CNRA* FAC does not contain any claim premised upon the CVPIA or COA, the Court’s  
9 review of a consent decree is not as limited as State Plaintiffs suggest. The Court cannot disregard  
10 the general standard articulated by the Ninth Circuit, which permits approval of a consent decree  
11 when the decree is “fair, reasonable and equitable and does not violate the law or public policy.”  
12 *Turtle Island*, 672 F.3d at 1165. That some cases appear to conflate the requirement for  
13 evaluating whether a consent decree violates law or public policy with the requirement that the  
14 decree’s terms fall within the general scope of the statutes underpinning the claims in the case,  
15 *see Sierra Club*, 909 F.2d at 1355, does not mean those tests always and entirely overlap. It would  
16 seem to go without saying that a party cannot use a court-approved consent decree to evade  
17 otherwise enforceable legal constraints. *See Keith v. Volpe*, 118 F.3d 1386, 1393 (9th Cir.1997)  
18 (“[P]arties to the Consent Decree . . . [can]not agree to terms which would exceed their authority  
19 and supplant [other] law[s].”); *St. Charles Tower, Inc. v. Kurtz*, 643 F.3d 264, 270 (8th Cir. 2011)  
20 (“While parties can settle their litigation with consent decrees, they . . . cannot consent to do  
21 something together that they lack the power to do individually.”); *Kasper v. Bd. of Election*  
22 *Comm’rs of the City of Chicago*, 814 F.2d 332, 341–42 (7th Cir. 1987) (“Because a consent  
23 decree’s force comes from agreement rather than positive law, the decree depends on the parties’  
24 authority to give assent. . . . A consent decree is not a method by which [ ] agencies may liberate  
25 themselves from the statutes enacted by the legislature that created them.”).

26 a. *General Issues Relevant to Substantive Fairness*

27 The proponents of the 2024 IOP again to offer several general justifications for a finding  
28 that the IOP is substantively fair.

1 i. The IOP Corrects Mis-Alignment of the CVP and SWP

2 Federal Defendants and State Plaintiffs continue to maintain that the 2024 IOP corrects  
3 mis-alignments between the CVP and the SWP caused by the State ITP. (Doc. 482 at 14–15;  
4 12/22/23 Allen Decl., Doc. 482-5, ¶¶ 11–12; 12/22/23 White Decl., Doc. 482-3, ¶ 15; 2/21/24  
5 White Decl., Doc. 500-2, ¶ 14.) As the 2022 IOP Order explained: “While the State’s ITP on its  
6 face only constrains the operations of state agencies (i.e. the California Department of Water  
7 Resources), the state and federal projects are operated in concert with one another. Federal  
8 Defendants and State Plaintiffs persuasively assert that a disconnect of this nature can cause  
9 inefficiencies in the use and management of water resources.” (2022 IOP Order at 18; *see also*  
10 11/23/21 Leahigh Decl., ¶ 52 (“From a project operator perspective, misalignment between CVP  
11 and SWP operations creates significant challenges for management of the two projects. There is  
12 no clear guidance on how the differing export constraints would fit within the current  
13 [Coordinated Operating Agreement] framework between the two Projects.”); 11/23/21 Conant  
14 Decl., ¶¶ 7–8 (echoing that “[A]lignment in years where there is not enough water to meet all  
15 project needs, such as occurred in water year 2021, improves the efficient use of scarce water  
16 supplies. Reclamation has concerns that implementing inconsistent CVP and SWP operations  
17 would be inefficient and could result in both projects’ being unable to maximize available water,  
18 especially in dry hydrology.”).)

19 In the present briefing, Defendant Intervenors offer evidence of situations where the CVP  
20 and SWP were able to coordinate on specific matters prior to the IOP. Specifically, Ronald  
21 Milligan opines that there have been two instances since 2020 when the SWP and CVP has been  
22 governed by different operational criteria due to the more restrictive flow measures contained in  
23 the State ITP for the benefit of Longfin smelt that did not (at least at those times) apply to the  
24 CVP. (1/31/24 Milligan Decl., Doc. 487, ¶ 9.) According to Mr. Milligan, “[t]he difference in  
25 restrictions on OMR flow applicable to each project did not cause a problem for operations. In  
26 both instances CVP and SWP operators coordinated pumping and tracked exports through the  
27 ‘exports sharing account’ to comply with the export sharing requirement in COA.” (*Id.*, ¶ 10.)  
28 However, in reply, Federal Defendant’s expert, Kristin White, explained that “[there remains a

1 need to provide operational certainty and maintain efficient operations of a coordinated system.”  
2 (2/21/24 White Decl., ¶ 17.) This is because, for example, “when the projects are operating to  
3 separate standards, Reclamation’s access to use the Intertie—which allows water to be moved  
4 from one canal to the other (i.e. the Delta Mendota Canal to the California Aqueduct or vice  
5 versa)—is limited. This potentially limits Reclamation’s flexibility in performing maintenance  
6 and could limit other areas of flexibility, as well.” (*Id.*)

7 Overall, the Court finds that the “misalignment” rationale continues to provide general  
8 support for extending the IOP. Nonetheless, in part because of its obligation to ensure interim  
9 relief is “narrowly tailored,” the Court has not relied upon it as the sole justification for the  
10 finding of reasonableness as to any particular provision of the IOP or as to the IOP as a whole.

11 ii. The IOP Prevents Unnecessary Litigation

12 The various iterations of the IOP also reflect a temporary settlement of a highly complex  
13 lawsuit. Though the approval of the IOP continues to be time consuming, this process has  
14 nonetheless saved judicial and party resources, including resources needed to complete the  
15 ongoing remand. (*See* 12/22/23 Marcinkevage Decl., ¶ 16 (indicating that further litigation would  
16 harm the ability of agency staff to complete the remand process).) The Court continues to find  
17 this consideration highly relevant.

18 b. *Shasta Operations & Related Issues*

19 i. 2024 IOP’s Shasta Operations Provisions

20 The 2024 IOP retains the essential elements of the 2022 and 2023 IOPs related to Shasta  
21 Reservoir/Dam operations. If WY 2024 is classified as a Critical, Dry, or Below Normal, the  
22 2023 IOP imposes certain procedures and actions that must be taken to provide cold water  
23 conditions for winter run Chinook Salmon egg incubation. (*See* 2024 IOP, ¶¶ 13–17.) In addition,  
24 the 2024 IOP calls upon Reclamation to set carryover storage volume goals according to water  
25 year type. More specifically, under the 2024 IOP:

- 26 • Reclamation is again generally committing to meet daily average water temperatures at  
27 the Clear Creek gauge on the Sacramento River of 55°F (in critical years) and 54°F (for  
28 dry and below normal years) from May 1–October 31. (*Id.* ¶ 16.)

- 1 • Reclamation will use the following “potential” end-of-September Shasta carryover storage  
2 “goals” to “inform the development of a final [carryover storage] target”: 1.2–1.8 MAF in  
3 a Critical year; 1.8–2.5 MAF in a Dry year; 2.5–3.2 MAF in a Below Normal year. (*Id.* ¶  
4 17.)
- 5 • If Reclamation is unable to meet the temperature-related habitat criteria described above  
6 for “Critical, Dry, or Below Normal years,” then the Shasta Planning Group, will “agree  
7 on temperature management that provides sufficient habitat for the longest period  
8 possible.” (*Id.*, ¶ 13.i.b.)
- 9 • In Critical or Dry years only, Reclamation will operate Shasta Reservoir to meet the  
10 following priorities in the following order (*id.*, ¶ 13.):
  - 11 (a) Public health and safety, defined as meeting municipal and industrial Delta salinity  
12 requirements and minimum deliveries for public health and safety;
  - 13 (b) Meeting the habitat needs of winter-run chinook salmon by, among other things,  
14 not scheduling or make deliveries of “stored water” for any reason other than for  
15 “public health and safety” until Reclamation approves a temperature management plan  
16 that will meet the winter-run habitat criteria (in the form of the temperature targets  
17 identified above) and End-of-September storage goals.
  - 18 (c) “Deliveries of stored water to senior water contractors and Central Valley Project  
19 Improvement Act (CVPIA) level 2 refuge supplies after ensuring any such deliveries  
20 are consistent with the above priorities.”
  - 21 (d) Other deliveries after ensuring any such deliveries are consistent with the above  
22 priorities.

23 ii. Prior Finding of Reasonableness.

24 Because some of the discussion that follows builds upon the Court’s prior findings that the  
25 2022 and 2023 IOP’s Shasta Operations provisions were reasonable, the Court reiterates the  
26 essential aspects of that reasoning from the 2020 IOP Order here:

27 First and foremost, the IOP aims to provide much-needed protection  
28 for winter-run eggs in the Upper Sacramento River in the coming  
water year. . . . Winter-run experienced high levels of temperature-

1 related egg mortality in 2020 and 2021. Current water storage  
2 conditions and ongoing drought risk a third year of significant  
3 temperature related egg mortality. This presents a serious concern for  
4 the species as a whole in terms of its ability to persist and to recover  
5 because of: (a) its three-year life cycle and (b) the fact that it is  
6 geographically vulnerable since the only population spawns in the  
7 reaches below Shasta Dam. This situation warrants the taking of  
8 measures to protect all freshwater life stages of winter run to  
9 minimize that risk. As a threshold matter, this issue falls well within  
10 the scope of the claims State Plaintiffs have brought against Federal  
11 Defendants in this case. The operative complaint in CNRA  
12 specifically alleges that the Proposed Action as approved by the 2019  
13 NMFS BiOp degrades conditions for listed species impacted by  
14 Shasta Dam operations and fails to require appropriate cold water  
15 pool operations, including by eliminating carryover storage  
16 requirements. (*See CNRA FAC*, ¶¶ 80–81, 93, 104.)

17 Substantively, the IOP takes balanced and reasonable steps toward  
18 addressing the risks identified above in several interrelated ways.  
19 First, the IOP sets forth temperature targets for winter run incubating  
20 eggs that are (if they can be maintained) more protective and more  
21 biologically justifiable than those that would govern under the dry  
22 year (Tier 3 and Tier 4) scenarios of the 2019 NMFS BiOp. Even  
23 assuming there is a scientific foundation for the idea that winter-run  
24 incubating eggs can withstand temperatures at or above 56°F (with  
25 56°F being allowed in Tier 3 years and no upper limit applied in Tier  
26 4 years under the 2019 NMFS BiOp) for certain periods of time,  
27 nothing in the law requires managers to operate right up to that line,  
28 which would leave the fish and project operators no room for error.  
*Cf. San Luis. v. Jewell*, 747 F.3d at 624 (finding it was error for the  
district court to require the agency to explain why it picked one  
protective measure over another one that would have had less impact  
on water supply; “FWS need only have adopted a final RPA which  
complied with the jeopardy standard and which could be  
implemented by the agency”).

19 Second, the IOP tackles the related problem of attempting to balance  
20 the need for suitable instream temperatures this year against the need  
21 to ensure sufficient water is carried over as storage into WY 2023. It  
22 does so by setting reasonable carryover storage goals that must be  
23 prioritized vis-à-vis consumptive uses of water (other than for health  
24 and safety purposes). As Dr. Herbold cogently explained, the IOP’s  
25 targeted ranges recognize the reality of the present situation, namely  
26 that managers “cannot make water.” (Herbold Second Decl., ¶ 56.)  
27 The court views the IOP’s approach to carryover storage as a  
28 reasonable step in the right direction that, while not guaranteeing any  
particular carryover storage outcome, re-prioritizes carryover storage  
from a mere “consideration” under the 2019 NMFS BiOp to a more  
formalized component of the temperature planning process.

26 Third, the IOP directly addresses the concern shared by all moving  
27 parties that authorizing deliveries of stored water from Shasta early  
28 in the year may foreclose the most advantageous temperature  
management options by delaying deliveries of stored water until a  
temperature management plan is in place. As noted above, the court

1 finds persuasive the central premise underpinning this requirement:  
2 “A principal problem with operations under the [2019 NMFS] BiOp  
3 is the incorrect presumption that one can wait to determine how this  
4 complex system can be successfully operated to achieve many goals  
5 until after some decisions are made that reduce the availability of  
6 options to achieve temperature management goals.” (Grober Suppl.  
7 Decl., ¶ 46.) Put simply, in a situation where very difficult choices  
8 need to be made, Reclamation’s commitment in the IOP to release  
9 no stored water beyond that needed for health and safety purposes  
10 until a water management plan is adopted “ensures that the maximum  
11 amount of flexibility will be retained to use water wisely.” (Herbold  
12 Second Decl., ¶ 37.)

13 Relatedly, the IOP modifies the decision-making guidelines and  
14 structure in ways that reinforce the IOP’s prioritization of winter run  
15 habitat needs. The guidelines come in the form of a prioritization  
16 system [applicable in Critical and Dry years] that gives first priority  
17 to public health and safety. Second priority is given to the habitat  
18 needs of winter-run, which are embodied in (a) the temperature  
19 targets discussed above that are designed to prevent catastrophic  
20 temperature dependent mortality in dryer years and (b) the carryover  
21 targets that acknowledge the demonstrated need to plan ahead for  
22 subsequent years. Only once a water management plan is in place  
23 that addresses the second priority for the longest period possible can  
24 the third and fourth priorities be satisfied: deliveries to senior water  
25 contractors and to “Level 2” wildlife refuges; and other deliveries.  
26 The IOP also modifies the decision-making structure to ensure  
27 appropriate weight is given to the second priority by giving the  
28 assigned wildlife agency (NMFS) final say in the temperature  
management planning process through the six-agency Shasta  
Planning Group. Defendant Intervenor’s witness Lee Bergfeld  
critiques the Group’s role as “duplicative” and because it excluded  
the SRS Contractors. (Bergfeld Decl., ¶¶ 47–48.) But the record  
before the court indicates that the Shasta Planning Group structure  
will coordinate with other parties, including the SRS Contractors,  
through other means. In fact, Reclamation, a member of the Shasta  
Planning Group, is actively doing so now.

It is the interrelatedness of all of these elements that undermines  
many of its detractors’ arguments. As all parties appear to  
acknowledge, no one can predict today exactly how day-to-day  
operations under the IOP will differ from management that would  
have taken place under the 2019 NMFS BiOps. Defendant  
Intervenors use this as an avenue for attacking the IOP, arguing that  
its proponents have “not shown the IOP’s temperature targets will  
avoid harm.” (CNRA Doc. No. 233 at 26 (emphasis added).) But  
requiring in advance a definitive demonstration of how the IOP will  
function in practice throughout the coming water year would  
effectively preclude the very thing that makes the most (and perhaps  
only) sense here, namely, conserving as much water as possible  
(without endangering human health and safety) until sufficient  
information is available to generate a temperature management plan.  
Ultimately, by calling for early season delivery delays, the IOP  
provides managers flexibility in meeting the habitat needs while also  
increasing the likelihood that they will succeed in doing so by



1                   delaying deliveries until a temperature management plan is in place.  
2 (2022 IOP Order at 84–87.)

3                   iii.     IOP Proponents’ General Justifications for a Renewed Finding of  
4                                   Reasonableness

5                   The moving parties provide two primary justifications for a renewed finding that the  
6 IOP’s Shasta provisions are again fair and reasonable. First, given that the Court analyzed  
7 materially indistinguishable versions of these provisions in the 2022 and 2023 IOP Order and  
8 found them to be fair and reasonable, the proponents of the IOP argue that the logic of the Court’s  
9 prior order should still hold. (Doc. 482 at 4; *see also* Doc. 406 at 11 (citing 2022 IOP Order at  
10 83–105).) The Court agrees that its prior orders provide the general backdrop for its reasonable  
11 analysis here, taking into consideration current circumstances.

12                   Second, Federal Defendants and State Plaintiffs argue that the IOP “functioned well, both  
13 operationally and biologically, and has met their intended function by establishing a prioritization  
14 structure for operational and species needs, establishing a manageable process to execute that  
15 structure, and ensuring that the prioritization structure was implemented.” (*Id.* at 12.) The  
16 proponents of the 2024 IOP acknowledge that the 2023 IOP did not directly control Shasta  
17 Operations during the temperature management season. (*See* 2/21/24 Marcinkevage Decl., ¶¶ 10–  
18 11.) Nonetheless, they maintain that the 2023 IOP provided important governance and decision-  
19 making provisions that improved outcomes. (*Id.* at ¶ 10 (“Coordination [under the IOP’s Shasta  
20 Planning Group] proved essential for reaching agreement on a final temperature management  
21 plan that had to be developed with consideration for several competing water quality standards.  
22 Without this level of coordination through the Shasta Planning Group, I cannot say with  
23 confidence that temperature performance could have improved. Therefore, I conclude that the  
24 IOP’s governance and decision-making processes and outcomes had a positive impact on winter-  
25 run Chinook salmon in 2023.”).

26                   iv.     2023 Water Year and Outcomes at Shasta Dam

27                   Water Year 2023 was formally classified as “Wet” for both the Sacramento and San  
28 Joaquin Valleys. (12/22/23 White Decl., ¶ 3.) As a result, many of the IOP’s Shasta operations

1 provisions were not triggered and Reclamation was able to manage Shasta releases so that  
2 temperatures did not exceed 53.5°F at Clear Creek throughout the entire temperature management  
3 season. (*Id.*, ¶ 5.) This, in turn, led to very low temperature dependent mortality of winter-run  
4 Chinook. (12/22/23 Marcinkevage Decl., ¶ 13 (indicating that preliminary modeling showed only  
5 2% temperature dependent mortality).) Other largely uncontrollable sources of mortality to  
6 salmonids remained significant. Notably, the ongoing problem of thiamine deficiency, discussed  
7 in the Court’s prior orders (*see, e.g.*, Doc. 468 at 48–50), may have impacted the overwhelming  
8 majority of young Chinook salmon in the region. (12/22/23 Marcinkevage Decl., ¶ 15.)

9 Wet conditions in 2023 also allowed California’s reservoirs to largely recover from the  
10 recent drought. Shasta Reservoir, for example, began the temperature management season in May  
11 2023 with 4.45 MAF in storage and began WY 2024 with 3.3 MAF. (12/22/23 White Decl., ¶¶ 4,  
12 8.)

13 In declarations submitted in late December 2023, Reclamation officials asserted there was  
14 a “high chance” of meeting the 53.5°F temperature targets again in the 2024 temperature  
15 management season, absent a significant change in hydrology. (*Id.*) These assertions were  
16 reiterated in late February 2024. (2/21/24 White Decl., ¶ 5; 2/21/24 Marcinkevage Decl., ¶ 14  
17 (“[C]urrent hydrology suggests a low likelihood of experiencing a drier water year type, even if  
18 the hydrology moves toward drier conditions in the remainder of the precipitation season; as of  
19 February 12, 2024, Shasta Reservoir is at 122% of historic average and 83% of total capacity  
20 (approximately 3.77 MAF). Given current conditions at Shasta Reservoir, it is highly likely that  
21 conditions will support water temperature management of 53.5°F for much, if not all, of the  
22 winter-run Chinook salmon temperature management season; in that case, the IOP’s dry-year  
23 provisions will not control.”).) The Court also takes judicial notice of the March 1, 2024 water  
24 supply forecast of the “Sacramento Valley Water Year Type Index 40-30-30” (SVI)—the index  
25 used to determine applicability of the Shasta provisions of the IOP. *California Data Exchange*  
26 *Center, California Department of Water Resources, 2024 Water Year Forecast as of March 1,*  
27 *2024, available at:* <https://cdec.water.ca.gov/reportapp/javareports?name=WSI> (last visited Mar.  
28 28, 2024); (*see also* 2/10/22 Conant Decl., Doc. 457 (explaining the various water supply indices,

1 how they are used, and where the latest updates can be found).) According to the March 1, 2024  
2 SVI, there is no more than a 1% chance that the Sacramento Valley Water Year Type Index will  
3 be Dry or Critical, though it remains unclear which of the other water year types will prevail, with  
4 either a Below Normal or Above Normal determination appearing to be the most likely outcomes.  
5 (*Id.*)

6 By their own terms, many of the 2024 IOP’s provisions related to Shasta operations will  
7 only be triggered if the water year is classified as Critical, Dry, or Below Normal, with the most  
8 controversial provisions only applying in Critical or Dry years. (*See, e.g.*, 2024 IOP, ¶ 4, 12–13.)  
9 Nonetheless there remains a not insignificant chance that at least the Below Normal provisions of  
10 the 2024 IOP applicable to Shasta operations may still apply. (*See See 2/21/24 Marcinkevage*  
11 *Decl.*, ¶ 14.) As such, the Court believes there is reason to evaluate at least those Shasta  
12 provisions that apply in Below Normal or wetter years.

13 v. Defendant Intervenors’ Related General Objections

14 a) *Changed Hydrology*

15 Defendant Intervenors generally argue that because 2023 was a “hydrological and  
16 biological success,” the 2024 IOP is “not a reasonable resolution of the interim relief issues in this  
17 case.” (Doc. 485 at 21).<sup>25</sup> They point to the above-mentioned statistics about WY 2023 and the  
18 start of WY 2024 and emphasize that winter run Chinook egg-to-fry survival in 2023 was  
19 approximately 25%, a “far cry” from the 2.2% and 2.6% estimates from 2021 and 2022,  
20 respectively. (*Id.* (citing 1/31/24 Cavallo Decl., Doc. 489, ¶ 5; 1/1/22 Cavallo Decl., Doc. 333, at  
21 17 Table 2).) In addition, Shasta Lake had 3.332 MAF in storage at the end of September 2023,  
22 whereas its 2021 and 2022 end-of-September storage totals were 1.07 and 1.5 MAF, respectively.  
23 (*Id.* (citing record).) Defendant Intervenors maintain, therefore, that “the circumstances this Court  
24 faced in issuing the prior two orders are simply not present” this year. (*Id.*)

25 The record does not support Defendant Intervenors’ position on this point for several  
26 reasons. First, despite the upswing in survival experienced by winter-run Chinook juveniles in  
27

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28 <sup>25</sup> It is somewhat unclear whether the Defendant Intervenors object wholesale to the 2024 IOP or only to the  
“changes” it makes to the 2023 IOP’s provisions. (*See* Doc. 485 at 21.)

1 2023, “juvenile survival to the Delta [has] fluctuated greatly” in recent years, “and the cohort  
2 replacement rate has been negative, indicating that the species condition is not stable and is, in  
3 fact, still at risk.” (2/21/24 Marcinkevage Decl., Doc. 501-1, ¶ 7.)

4 Second, though a Critical or Dry year classification appears to be highly unlikely, a Below  
5 Normal year remains a possibility. As it has previously indicated, the Court agrees with NMFS  
6 Assistant Regional Administrator Cathy Marcinkevage that “[the measures associated with these  
7 drier water year classifications provide important protective measures should wetter hydrology not  
8 develop through the remainder of the year.” (12/22/23 Marcinkevage Decl., ¶ 11.) Moreover, the  
9 exact options available to managers during the temperature management season cannot be  
10 predicted with confidence at this time, meaning that the *procedures* of the IOP remain important:

11 Considering the current storage conditions at Shasta Reservoir, it  
12 seems quite likely that Reclamation would manage Shasta Reservoir  
13 as a Tier 1 year. In Tier 1 years, Reclamation determines that cold  
14 water pool is sufficient (i.e., more than 2.8 MAF of cold water pool  
15 in Shasta Reservoir at the beginning of May or modeling suggests  
16 that a daily average temperature of 53.5°F at CCR can be maintained  
17 from May 15 to October 31) and proposes to operate to a daily  
18 average temperature of 53.5°F at the CCR gaging station to minimize  
19 TDM. Although Tier 1 years generally have sufficient cold water to  
20 maintain 53.5°F through October 31, the unknown meteorology of  
21 coming months continues to present a small risk of temperatures  
22 rising above 53.5°F, particularly towards the end of the temperature  
23 management season in September and October. Though Reclamation  
24 is able to generally manage these risks through real time operations  
25 of the temperature control device, temporary exceedances may occur  
26 and allowable tolerances will be identified in the annual temperature  
27 management plan through coordination with SRTTG.

28 (2/21/24 Marcinkevage Decl., ¶ 16.)

b) *Water Supply Impacts*

29 The SRS Contractors again revisit the subject of water supply tradeoffs associated with  
30 the IOP. (Doc. 485 at 22–23.) Though arguably these objections focus on the Longfin smelt  
31 provisions, the Court reiterates here its previous ruling concerning how such evidence may be  
32 considered:

33 “Congress removed from the courts their traditional equitable  
34 discretion in injunction proceedings of balancing the parties’  
35 competing interests.” *PCFFA v. Gutierrez*, 606 F. Supp. 2d at 1204;  
36 see also *NWF I*, 422 F.3d at 793–94 (“Congress has determined that  
37 under the ESA the balance of hardships always tips sharply in favor  
38

1 of endangered or threatened species.”). In practice, this results in a  
2 prohibition of the balancing of economic harms against the  
3 Congressionally determined public interest in preserving endangered  
4 species. *PCFFA v. Gutierrez*, 606 F. Supp. 2d at 1204. A similar  
5 concept has been applied in the context of consent decree approval.  
6 *Turtle Island*, 834 F. Supp. 2d at 1018 (noting that if intervenor  
7 fishing interests ultimately had access to their fishery limited by the  
8 terms of the consent decree “this result would be consistent with the  
9 goals of the ESA and in the public’s interest,” because under Hill,  
10 437 U.S. at 184, “[t]he plain intent of Congress in enacting [the ESA]  
11 was to halt and reverse the trend toward species extinction, whatever  
12 the cost”).

13 Declarations have [ ] been filed in this case, by the SRS Contractors  
14 and others, containing evidence of “pure economic harm” caused by  
15 water supply shortages. (*See, e.g.*, Doc. 439 (Water Resources  
16 Manager of Kern County Water Authority describing, among other  
17 things, economic impacts of water supply shortages).) As the Ninth  
18 Circuit has noted, ESA restrictions have the potential to harm  
19 “millions of acres of land and tens of millions of people,” *San Luis  
20 & Delta-Mendota Water Auth.*, 747 F.3d at 605, who rely on water  
21 from the CVP-SWP. As the 2022 IOP Order indicated: “This is well  
22 established and understood.” (2022 IOP Order at 108 n. 68.) Again,  
23 other declarations detail related issues that are not purely economic,  
24 such as alleged harm to the food supply and harm to underprivileged  
25 communities, schools and businesses that may result from water  
26 delivery restrictions. The Court is permitted to consider these the  
27 societal harms. *PCFFA v. Gutierrez*, 606 F. Supp. 2d at 1213–14  
28 (suggesting court may consider evidence regarding the health and  
safety effects of secondary adverse impacts such as land subsidence,  
land fallowing leading to air quality impacts, and community  
dislocations arising from job losses). The Court has read and  
considered all of declarations addressing these subjects. As the 2022  
IOP Order indicated, “given the statutory priority given to  
endangered species, these concerns can only underscore the court’s  
obligation to ensure that the measures it imposes are narrowly  
tailored to address anticipated harms.” (2022 IOP Order at 109.)

(2023 IOP Order at 55–56.) In considering whether the 2023 IOP was narrowly tailored, the  
Court again takes information regarding water supply costs into consideration as “one reason why  
the Court finds the IOP’s provisions to be more appropriate than the alternatives offered by  
PCFFA.” (*Id.* at 56.)

vi. PCFFA’s Objections and Requested Modifications Related to  
Shasta Operations

As was the case in the briefing leading up to approval of the 2022 and 2023 IOPs, PCFFA  
again argues that the temperature targets and carryover storage goals in the 2023 IOP are  
insufficiently protective. (Doc. 492-2, ¶¶ 16–17.) PCFFA also requests that the Court close what

1 it calls the “stored water loophole” in the 2024 IOP’s prioritization system. (*Id.*, ¶ 13.i.c.)

2 Procedurally, PCFFA once again argues that the Court can modify the proposed 2024 IOP  
3 in the various ways they suggest, so long as the Court provides appropriate findings of fact and an  
4 opportunity to object to the proposed changes. (Doc. 494 at 15 (citing *Enforma*, 362 F.3d at  
5 1218).) Ninth Circuit held in *Enforma* that the district court erred by making two significant  
6 changes to a proposed consent decree prior to approving it. *See id.* Rather, “[i]f the district court  
7 elects to enter a preliminary injunction that varies from the it should be supported by findings of  
8 fact and conclusions of law entered on the record and upon notice to the parties.” *Id.* at 1218–19.  
9 Even assuming the holding of *Enforma* empowers the Court to make the changes PCFFA  
10 suggests, the Court again declines to do so for the reasons set forth below.

11 a) *PCFFA’s Renewed Request to Modify IOP’s Temperature*  
12 *Provisions*

13 With regard to temperature, PCFFA again pushes for slightly lower temperature targets of  
14 54.5°F (as opposed to 55°F) in Critical years; 53.5°F (as opposed to 54°F) in Dry and Below  
15 Normal years. In addition, PCFFA seeks to expand the IOP’s temperature provisions beyond the  
16 dryer year types covered by the proposed 2024 IOP to also require 53.5°F in Above Normal and  
17 Wet years. (Doc. 492-2, ¶ 16.)

18 The Court’s evaluation of PCFFA’s previous temperature-related remedial requests  
19 provides important background. In the 2022 IOP Order, the Court rejected PCFFA’s request to  
20 impose lower temperature targets:

21 PCFFA contends that the IOP’s provisions related to Shasta do not  
22 go far enough in several respects. First, PCFFA argues that the IOP  
23 adopts targets that are biologically unjustifiable. (*See generally* Doc.  
24 No. 638.) With regard to the temperature targets to protect winter-  
25 run incubating eggs, as the court has already acknowledged, the  
26 targets advanced by PCFFA are biologically justified and would help  
27 ensure (if met) very low temperature dependent mortality. Even the  
28 IOP’s advocates acknowledge that some (possibly quite significant)  
temperature related mortality may occur at the temperature targets  
adopted in the IOP. (*See* Brown Decl., ¶ 32; Tr. 42.) But, it is well-  
established that there are tradeoffs in dry years between (a) targeting  
temperatures to a particular level and (b) the length of time that  
temperature target can be maintained, as well as preserving water  
storage to ensure effective temperature management in the following  
year. (*See* Doc. No. 203 at 28 (June 24, 2020 Order discussing these

1 tradeoffs apparent from the record then before the court); 2019  
2 NMFS BiOp at p. 259 (explaining “operational tradeoffs between  
3 maintaining high flows for the fall temperature management versus  
4 reducing flows to conserve storage for the following year’s  
5 temperature management”).)

6 Because of these tradeoffs, the IOP takes a middle-of-the road  
7 approach, setting targets that are likely to be more protective than  
8 those under the 2019 NMFS BiOp, *see* Brown Decl., ¶¶ 32  
9 (explaining that models indicate mortality would be 88-100% if  
10 temperatures are held at or above 56°F [under the 2019 NMFS  
11 BiOp], whereas mortality may be lower 34–74% under the IOP), but  
12 which are somewhat more likely to be achievable than those in the  
13 PCFFA PI. Crucially, while it is not yet clear for how long managers  
14 can achieve the IOP’s temperature targets this year, Reclamation is  
15 at least “committing” to meeting the targets in the IOP. (Tr. 144.)  
16 This contrasts with the evidence in the record before the court  
17 indicating that PCFFA’s more stringent proposed temperature  
18 requirements are unlikely to be achievable. As Mr. Conant testified,  
19 current estimates indicate that end of April storage in Shasta will be  
20 somewhere on the order of 2.1 MAF, (Tr. 125), well shy of the 3.5  
21 MAF PCFFA estimates is needed to meet their proposed temperature  
22 targets. (Rosenfeld Second Decl., ¶ 37.) The court acknowledges that  
23 PCFFA’s witness, Dr. Rosenfield, has also pointed out that the  
24 temperature targets called for in the IOP have only been met once  
25 before where there has been less than 3.5 MAF in storage at the end  
26 of April. (*Id.*, ¶ 38.) This does not bode well for temperature  
27 management efforts in the coming year. But that projection certainly  
28 does not mean the court should choose to implement an even more  
onerous standard. *NWF III*, 886 F.3d at 823 (“It is not an abuse of  
discretion for a court to issue an injunction that does not completely  
prevent the irreparable harm that it identifies.”); *Turtle Island*, 834  
F. Supp. at 1019 (“Provided that the proposed consent decree is fair,  
reasonable, and equitable, and does not violate the law or public  
policy, it need not utilize the best scientific evidence. Such a  
requirement would transform evaluation of a proposed consent  
decree into a decision on the merits in contravention of controlling  
authority.”).

(2022 IOP Order at 87–89.) As the Court later summarized:

22 In sum, record evidence about the water supply situation in 2022  
23 suggested that PCFFA’s alternative temperature targets could not be  
24 met during the 2022 temperature management season. Second, even  
25 acknowledging that, all other things being equal, colder temperatures  
26 are better for egg and fry survival, there are tradeoffs to imposing  
27 colder temperature requirements in dry years. Most directly,  
28 lowering a temperature target can influence the length of time  
managers can keep temperatures from rising to dangerously high  
levels. In addition, lower temperature targets can make it more  
difficult to conserve storage for use in the following year’s  
temperature management season. ([2022] IOP Order at 53, 88.)

(2023 IOP Order at 59–60.)

1 In 2023, PCFFA argued that because the water supply situation going into WY 2023 was  
2 somewhat improved over the previous year, the Court’s feasibility rationale was no longer valid.  
3 The Court “d[id] not see things that way.” (*Id.* at 60.)

4 First, as discussed in the quote above, PCFFA’s own expert witness  
5 indicated that end of April storage likely would have to reach 3.5  
6 MAF to make meeting PCFFA’s Critical year temperature target of  
7 54.5°F feasible; 3.9 MAF would be required to meet the 53.5°F target  
8 PCFFA seeks to impose in Dry or Below Normal years. (*See* 12/16/21 Rosenfield Decl., ¶ 37.) The Court previously indicated in  
9 the 2022 IOP Order that those same storage circumstances would  
10 likely coincide with circumstances that would push the water year  
11 classification out of those respective categories anyway. (*See* 2022  
12 IOP Order at 113 n. 71; *see generally* 1/26/23 Conant Decl., ¶ 3.a &  
13 Ex. 1.) Put another way, if the water supply situation approaches the  
14 levels that might make it possible to meet PCFFA’s temperature  
15 targets, it seems likely that the water year will also shift toward  
16 wetter classifications that will render PCFFA’s proposed targets  
17 inapposite or irrelevant.

18 Moreover, the tradeoff rationale offered in the 2022 IOP Order  
19 remains valid. As the Court explained, (*see* 2022 IOP Order at 84–  
20 87), Water Project managers must balance the goal of temperature  
21 control in a given year against the *often conflicting* but nonetheless  
22 important goal of maintaining sufficient carryover storage to ensure  
23 temperature control in the subsequent year. The IOP’s prioritization  
24 system that applies in Critical and Dry years is designed—at least in  
25 theory—to help maximize the amount of water available to attain  
26 both goals. But maximizing available water does not change the fact  
27 that in any given year maintaining current-year temperatures can  
28 conflict with planning for the next year. This means, ipso facto, that  
applying PCFFA’s lower temperature targets in WY 2023 may make  
it more difficult to ensure sufficient cold water for WY 2024, and  
vice versa. PCFFA offers no clear, direct response to the Court’s  
prior conclusion that the IOP offers a more balanced answer to this  
conundrum nor to the Court’s ultimate conclusion that the IOP is  
reasonable because it operates as a procedural mechanism that  
maximizes the chances of “increasing the size of the pie” available  
to achieve the dual goals of temperature control and carryover  
storage.

The Court reiterates its concern expressed above that no one seems  
to yet be able to articulate why winter-run survival was so poor in  
2022. Neither the temperature dependent mortality modeling for  
2022, which Federal Defendants and PCFFA continue to focus on,  
nor the available data about thiamine deficiency can fully account for  
these losses. PCFFA in fact cites the one government agency  
document that posits a theory: The October 13, 2022 Summary from  
the Sacramento River Temperature Task Group, which indicates that  
background mortality of juveniles might be “a lot higher” in 2022  
because of “turbidity and low flows.” (Doc. 417-14.) As discussed  
above, the Court is not yet convinced by Mr. Cavallo’s arguments  
that the modestly more protective temperature targets of the IOP



1 should be abandoned for an approach that focuses even less on  
2 temperatures, [yet] requiring that the Water Projects operate in dry  
3 years to PCFFA’s alternative temperature targets and carryover  
4 storage requirements could make flow concerns *worse*, not better. To  
5 come full circle, the Court lands in the same place it did previously,  
6 with a finding that the IOP represents the most reasonable approach,  
7 albeit an imperfect one, to protecting the winter-run given the  
8 available information.

9 (2023 IOP order at 60–61.) As discussed above, there is a vanishingly small chance that the  
10 coming year will qualify as Critical or Dry. Therefore, the Court finds it unnecessary to address  
11 PCFFA’s 2024 requests as to those year types.

12 As to the remaining aspects of PCFFA’s temperature target proposal (for Below Normal,  
13 Above Normal, and Wet years), the Court’s thinking has not changed materially, despite changed  
14 water supply conditions. There is no dispute that storage conditions have improved notably over  
15 those prevailing at the time the Court approved either prior IOP. As Reclamation witness Ms.  
16 White opines, “Shasta Reservoir began Water Year 2024 with over 3.3 MAF, and it has a high  
17 chance of starting the 2024 temperature management season with adequate storage for meeting  
18 similar goals as those set in the Temperature Management Plan in Water Year 2023. (2/21/24  
19 White Decl., Doc. 500-2, ¶ 5.) Nonetheless, “if conditions turn dry or very dry for the remainder  
20 of the precipitation season, Shasta Reservoir may not be in a position to provide the same  
21 temperature management it did in Water Year 2023.” (*Id.*) As the Court indicated previously, if  
22 the water supply situation “approaches the levels that might make it possible to meet PCFFA’s  
23 temperature targets, it seems likely that the water year will also shift toward wetter classifications  
24 that will render PCFFA’s proposed targets inapposite or irrelevant.” (*Id.* at 60.) The reverse is  
25 equally true. Should conditions “turn dry or very dry,” the balancing act discussed by the Court in  
26 its prior orders may again come into play.

27 PCFFA is correct that this Court has previously found its slightly lower temperature  
28 targets to be “biologically appropriate,” but PCFFA continues to somewhat overplay the  
consequences of that finding, at least in the context of these interim relief proposals. It is true that  
the record evidence indicates that PCFFA’s ideal 53.5°F temperature target “would help ensure (if  
met) very low temperature dependent mortality” (Doc. 394 at 87) and that temperature dependent

1 mortality increases –possibly exponentially—above that temperature threshold. (Doc. 389 at 157–58.)  
2 But the *marginal* difference PCFFA’s *half a degree change* would make for the amount of suitable  
3 habitat available to winter-run Chinook and most importantly for temperature dependent mortality  
4 remains unclear. When balanced against the various tradeoffs discussed in the Court’s prior orders,  
5 the Court finds that the requested change to the management regime for Below Normal years is not  
6 required for the Court to find the 2024 IOP “reasonable” nor has PCFFA otherwise demonstrated it is  
7 necessary to avoid irreparable harm.

8 As for PCFFA request to expand the IOP’s temperature provisions beyond the dryer year  
9 types covered by the proposed 2024 IOP to also require Reclamation to achieve 53.5°F in Above  
10 Normal and Wet years from May 15 through October 31, the Court finds that PCFFA has not  
11 explained why the modification is needed given that the 2019 NMFS BiOp’s Tiered system  
12 appears to provide for essentially the same practical result.

13 *b) PCFFA’s Alternative Carryover Storage Requirements*

14 PCFFA also requests carryover storage requirements that depart from the proposed 2024  
15 IOP as follows.

16

<b>Year Type</b>	<b>2024 IOP Proposal</b>	<b>PCFFA Proposal</b>
Critical	1.2 MAF to 2.8 MAF	1.9 MAF
Dry	1.8 MAF to 2.5 MAF	2.2 MAF
Below Normal	2.5 MAF – 3.2 MAF	[No alternative proposed]
Above Normal	[None given]	2.9 MAF
Wet	[None given]	3.0

17  
18  
19  
20  
21

22 (See Doc. 492-2, ¶ 17.ii.)

23 Again, because the water supply situation has rendered it highly unlikely that WY 2024  
24 will be classified as Critical or Dry, the Court will not address PCFFA’s alternative carryover  
25 storage proposal for those year types. PCFFA does not propose an alternative carryover storage  
26 requirement for Below Normal years. As for Above Normal and Wet years, PCFFA essentially  
27 offers no justification for adding these provisions to the IOP apart from the argument that the  
28 goals are “attainable” this time around. (See Doc. 492 at 20 (offering scientific evidence related to

1 carryover storage proposal for drier year types but not for proposal related to Above Normal and  
2 Wet years).)

3 c) *Stored Water Loophole*

4 PCFFA asks the Court to address what it considers to be a loophole in the 2024 IOP's  
5 prioritization system applicable in Critical and Dry years. Again, because it is highly unlikely that  
6 either of those year types will be declared, the Court declines to address this nuanced and  
7 complex argument.

8 d) *Conclusion Re 2024 Shasta Provisions*

9 In sum, for the reasons set forth above, the Court again finds the 2024 IOP provisions are  
10 substantively reasonable. They represent a balanced approach to the ongoing risk to salmonids  
11 that spawn in the reaches below Shasta Dam. In particular, the provisions that apply in drier years  
12 should be in place in case conditions turn drier than expected. The alternative proposals are either  
13 inapplicable, unsupported, or not reasonable.

14 Nonetheless, the Court will once again require Federal Defendants to file on the docket of  
15 these cases a copy of the draft and final TMPs for 2024, along with a justification for any planned  
16 departures from the IOP's temperature targets. As it has previously indicated (2023 IOP Order at 64)  
17 in requiring such a filing, the Court is exercising its inherent authority to monitor compliance with its  
18 own orders.

19 c. *PCFFA's renewed request to bar Reclamation from seeking exemptions*  
20 *from California's Water Quality Standards unless deliveries are curtailed*

21 PCFFA again asks the Court to prohibit Reclamation from seeking waivers from state  
22 Water Quality Standards until Reclamation first curtails, to the extent of its discretion, water  
23 deliveries and water diversions to all CVP contractors, except for deliveries necessary for human  
24 health and safety and for wildlife refuges. (*Id.*, ¶ 19.) The Court's prior reasoning on this subject  
25 provides context for PCFFA's renewed arguments:

26 PCFFA's proposed injunction also contains a provision that would  
27 require Reclamation to comply with "the provisions of the State  
28 Water Resources Control Board's Water Rights Decision 1641 [(D-  
1641)] applicable to the State Water Project and Central Valley  
Project, including requirements relating to Delta inflows, Delta

1 outflow, X2, and closures of the Delta Cross Channel Gates.”  
2 (PCFFA PI ¶ 5.)

3 D-1641, which is binding on Reclamation, is designed to control  
4 salinity in the Bay Delta to ensure water quality. (See *supra* footnote  
5 32.) Compliance with D-1641 was a “baseline” condition built into  
6 the 2019 BiOps. (See Doc. 322 at 10–11 (providing record  
7 citations).) In other words, harms to fish were evaluated in those  
8 BiOps based upon the assumption that the prescriptions contained  
9 within D-1641 would be implemented.

10 In recent years, due to drought conditions, Reclamation and DWR  
11 have [used TUCPs to seek permission] from the State Board [ ]to  
12 deviate from D-1641. (See, e.g., Doc. 272-4.) [ ] One of the primary  
13 reasons given for applying for (and approving) the TUCPs is to  
14 preserve cold water behind the dams in the system designed to  
15 protect fish later in the year. (See *generally id.*) This has tradeoffs for  
16 water quality and flow downstream, and the State Board has  
17 acknowledged this reality in approving past TUCPs. In particular, in  
18 approving TUCPs, the State Board has specifically acknowledged  
19 the potential harm posed to Delta smelt as a result. (*Id.* at 19.)

20 PCFFA’s proposed injunction would have Reclamation comply with  
21 D-1641 even if it receives a waiver of D-1641’s requirements from  
22 the State Water Resources Control Board. (PCFFA PI ¶ 5.) Under  
23 PCFFA’s revised proposal, even this provision appears to be subject  
24 to the new “best efforts” exception language. As noted previously,  
25 under that language, if Reclamation is unable to meet PCFFA’s  
26 Shasta targets or D-1641’s requirements despite “best efforts” to do  
27 so, and despite “curtailing water deliveries and releases for  
28 diversion” to the “extent permitted by law,” Reclamation could  
deviate from the injunctions’ requirements, provided Reclamation  
meets and confers with the parties as soon as possible. (PCFFA PI at  
3.)

When the initial briefs were filed regarding these injunctive relief  
motions, Reclamation and DWR had a TUCP pending before the  
State Board that would apply this spring. (CNRA Doc. 252-1, Ex. 5.)  
They have since withdrawn that petition. (*Id.*) As a result, there is  
now no immediate danger of a TUCP this year. Nonetheless, PCFFA  
has still expressed its concern because nothing prevents Reclamation  
and DWR from filing another TUCP. (See Doc. 368 at 11.)

The court understands PCFFA’s point in this regard. The BiOps  
assume that the actions required by D-1641 will be implemented.  
Because those actions are protective of fish, that is a material aspect  
of the baseline that the BiOps use to evaluate whether or not the  
Water Projects will cause jeopardy/adverse modification under the  
ESA. No party before the court suggests that the BiOps meaningfully  
considered how fish would be impacted by any TUCPs, let alone by  
the increasingly frequent use of TUCPs. But, PCFFA’s proposal—  
that the court prohibit Reclamation from applying for TUCPs unless  
it jumps through certain identified hoops—is not a reasonable or  
particularly helpful response to this asserted failure. PCFFA’s  
proposal appears to be designed to require Reclamation to do

1 absolutely everything else in its power to meet temperature  
2 requirements for winter-run before applying for a TUCP. The court  
3 has already explained why it believes the IOP’s process provides a  
4 reasonable mechanism for ensuring just this, by requiring  
5 Reclamation to prioritize the needs of winter-run habitat over water  
6 deliveries to the extent it can do so consistent with the law and its  
7 contractual obligations. PCFFA’s proposal would appear to presume  
8 that Reclamation will try to evade or perform some sort of slight-of-  
9 hand with regard to these self-imposed priorities through the  
10 mechanism of applying for TUCPs. In the court’s view, however, it  
11 seems far more likely that a TUCP may be the only way Reclamation  
12 can provide suitable temperatures for winter-run this coming season.

13 Moreover, the TUCP approval process already requires the State  
14 Water Resources Control Board to consider the various species-  
15 versus-species tradeoffs in question here. (Doc. 343-1 at 11–12  
16 (*amicus curiae* brief explaining TUCP process).) The State Board is  
17 also required to consider a number of other interests in the balance  
18 when evaluating TUCPs. (*Id.*) No matter how PCFFA attempts to  
19 describe this aspect of its proposed injunction, adopting it would be  
20 an invasion by this court into the State Board’s process. The court  
21 will not do so on the present record, which does not justify the  
22 undertaking of such an extraordinary measure.

23 (2022 IOP Order at 116–18.)

24 PCFFA’s concerns did not abate in 2023. Despite improved hydrology, Federal  
25 Defendants and DWR again filed a TUCP in early 2023 in part in an effort to recover state water  
26 supplies from the then-recent drought conditions. (*See CNRA* Doc. 320, Ex. 2.) PCFFA again  
27 argues that Water Project managers should be prohibited from seeking waivers from the  
28 requirements of D-1641 unless and until “Reclamation [ ] curtail[s], to the extent of its discretion,  
water deliveries to, water supply allocations for, and water diversions by all contractors of the  
Central Valley Project . . . .” with certain exceptions. (Doc. 416-2.) PCFFA pointed out that the  
analysis included in the TUCP itself indicates that the TUCP could expose salmonids and Delta  
smelt to additional entrainment risk. (*See* 2023 IOP Order at 68.) 2/13/23 TUCP at p. 2-20). At  
the same time, other information suggested these impacts would be minor. (*See id.*) On balance,  
the Court concluded that PCFFA’s broad requested relief was again not justified, though it  
expressed ongoing concern about the overall issue:

To the extent there was any doubt previously, PCFFA has now  
underscored its point about the interplay of TUCPs and the BiOps at  
issue in these cases. Because the BiOps rely heavily on state  
regulatory requirements such as D-1641 as baseline regulatory  
constraints protective of listed species, frequently modifying those

1 constraints raises serious questions about whether the BiOp’s can  
2 reasonably rely on those protections. But that does not mean the  
3 needle has moved sufficiently in favor of the relief PCFFA is  
4 requesting in the present motions. To be clear, PCFFA is requesting  
5 that the Court prohibit Reclamation from petitioning the SWRCB—  
6 the California entity charged with regulating water quality—for  
7 relief from the requirements of D-1641 unless and until Reclamation  
8 first curtails “to the extent of its discretion, water deliveries to, water  
9 supply allocations for, and water diversions by all contractors of the  
10 Central Valley Project,” except those necessary to preserve health  
11 and human safety and wildlife refuges. This remains a truly  
12 extraordinary request that is not justified under the circumstances for  
13 the reasons the Court explained in its prior order.

14 (2023 IOP Order at 68–69)

15 PCFFA’s briefing provides additional information about the use of TUCPs in 2023. After  
16 approving the above-mentioned TUCP in early 2023 in light of the “urgent need for the proposed  
17 changes,” the State Board later found that improved hydrology rendered impacts to protected fish  
18 and wildlife no longer reasonable. (Chisholm Decl., Ex. V (State Board TUCP March 2023  
19 Modification Letter), Doc. 495-6 at p. 2.) In addition, the State Board approved a separate TUCP  
20 in early March 2023 that allowed otherwise unpermitted diversions from the San Joaquin River in  
21 order to allow for greater groundwater basin recharge. (Chisholm Decl. Ex. H (2023 Friant TUCP  
22 approval order), Doc. 493-8.) PCFFA points out that the State Board’s order approving that  
23 TUCP acknowledged the possibility that the change would reduce survival of juvenile spring-run  
24 Chinook salmon out-migrating to the ocean. (*Id.* at 11–13.)

25 Considering all of this information, PCFFA suggests that the Court’s previous hesitation  
26 to interfere in the TUCP process was inappropriate (or at least should not be repeated) because “it  
27 is neither the State Board’s role nor responsibility to enforce ESA requirements. That is a  
28 question for the Court in considering whether and how to modify Federal Defendants’ proposed  
IOP to ensure that Water Project operations do not jeopardize listed species this year.” (Doc. 492  
at 22–23.) The Court will not regurgitate all of its prior rulings on the subject of how ESA  
“jeopardy” should be considered in the context of injunctive relief, but will reiterate one point it  
made in a footnote in 2022:

Jeopardy” is a term of art drawn from the ESA’s consultation  
requirement, which requires that “[e]ach Federal agency shall, in  
consultation with and with the assistance of [FWS or NMFS], insure

1 that any action authorized, funded, or carried out by such agency . . .  
2 is not likely to jeopardize the continued existence of any endangered  
3 species or threatened species or result in the destruction or adverse  
4 modification of habitat of such species.” 16 U.S.C. § 1536(a)(2). The  
5 consultation process set forth in that section of the ESA is what led  
6 to the long line of BiOps, culminating in those challenged in this  
7 case. The 2019 BiOps contain approximately 1300 pages of analysis  
8 aimed at evaluating whether the Water Projects will cause “jeopardy”  
9 or “adverse modification.” From a purely practical perspective, given  
10 the complexity of the jeopardy/adverse modification analyses  
11 performed in the equally complex biological opinions, it is unclear  
12 how a court could possibly evaluate whether a proposed injunction  
13 “avoids jeopardy” within a reasonable timeframe. In its role in  
14 equity, a court can, at best, hope to incorporate into its  
15 harm/reasonableness analyses relevant evidence presented to it  
16 regarding the impacts upon the viability and recovery of species.  
17 Nonetheless, any such effort would never come close to the full  
18 “jeopardy” analysis required in a biological opinion.

19 (2022 IOP Order at 67 n. 53)

20 The process of creating a biological opinion is, at least in the first instance, where the  
21 concept of “jeopardy,” as that term has long been applied in these cases to capture longer term  
22 changes in population size and extinction risk, must be thoroughly and completely evaluated. As  
23 the Court has indicated numerous times, previous biological opinions have relied upon State  
24 Water Quality standards as background protection upon which other protections are layered. The  
25 well-demonstrated, persistent use of TUCPs to evade these requirements cannot be glossed over.  
26 But this does not mean the Court must or should prohibit their use in the context of the 2024 IOP,  
27 which is only a “stop-gap” measure meant to bridge the gap until new biological opinions are  
28 issued. This is particularly so in the total absence of any specific TUCP proposal this water year.  
The Court will not issue the modification PCFFA requests based on a non-specific concern that a  
hypothetical TUCP will cause irreparable harm.

29 d. *2024 IOP’s Delta Operations Provisions*

30 As with the Shasta operational provisions of the 2024 IOP, only certain Delta-related  
31 provisions actually remain in play for WY 2024. Of those provisions, fewer still are actually in  
32 dispute in the parties’ 2024 IOP briefs. As to any provisions that may be applicable this year, but  
33 which are not discussed in the parties’ 2024 IOP briefs, the Court incorporates by reference its  
34 prior analyses of those provisions.

1 i. Turbidity Bridge Avoidance Measure

2 As mentioned, the 2024 IOP contains a provision to harmonize how Reclamation and  
3 DWR implement the previously-approved turbidity bridge avoidance measure. (2024 IOP, ¶ 8.)  
4 No party has formally objected to this adjustment.

5 ii. Longfin OMR Provisions

6 The 2024 IOP calls upon Reclamation to abide by four provisions aimed at protecting  
7 Longfin smelt. (2024 IOP, ¶ 6.i-iv.

8 a) *ITP Condition of Approval 8.3.3 will not control this Water*  
9 *Year and Condition 8.4.1 has expired*

10 ITP Condition of Approval 8.3.3 calls for the OMR flows to be limited after December 1,  
11 if not otherwise required by separate provisions, to maintain a 14-day average OMR index no  
12 more negative than -5,000 cfs if monitoring indicates a certain number of Longfin smelt have  
13 been salvaged at the CVP and SWP export facilities or if other factors indicate a high risk of  
14 Longfin smelt entrainment at those facilities. (State ITP, § 8.3.3, p. 81.) But, the IOP and the 2019  
15 BiOps already require OMR flow to be no more negative than -5,000 after March 1 (*see* 2023  
16 IOP Order at 72), so ITP Condition of Approval 8.3.3 will have no practical effect for the  
17 remainder of this Water Year.

18 ITP Condition of Approval 8.4.1 applies additional OMR restrictions to protect Longfin  
19 Smelt “from the onset of OMR Management . . . through February 28.” (State ITP, § 8.3.3, p. 82.)  
20 Thus, this provision has expired for this water year. Even if the Court were to adopt PCFFA’s  
21 suggested modification of Condition 8.4.1 so that it extended through the end of March, by the  
22 time this order issues, even that extended version of the Condition will have expired.

23 b) *ITP Condition of Approval 8.4.2.*

24 Under the 2024 IPO, Reclamation has also agreed to adopt and implement ITP Condition  
25 of Approval 8.4.2, which is designed to protect against larval and juvenile Longfin smelt  
26 entrainment. (2024 IOP, ¶ 6.iii; State ITP § 8.4.2, p. 82–84.) By its own terms, Condition 8.4.2 is  
27 applicable from January 1 through June 30 and is triggered when either, (a) certain surveys  
28 indicate that Longfin smelt larvae or juveniles have been found in four or more of the twelve set



1 sampling locations in the central and south Delta, or (b) Longfin smelt catch during these samples  
2 exceeds five Longfin smelt larvae or juveniles in two or more of the twelve sampling stations.  
3 (State ITP § 8.4.2.) If either of these thresholds is triggered, DWR and Reclamation shall restrict  
4 water project exports for seven consecutive days to maintain a seven-day average OMR index no  
5 more negative than -5,000 cfs. (*Id.*) In addition, managers conduct weekly (or more frequently if  
6 needed) assessments of larval and juvenile Longfin smelt entrainment risk, and may recommend  
7 additional OMR flow limits between -1,250 and -5,000 cfs. (*Id.*; see also 12/22/23 Marcinkevage  
8 Decl., ¶ 7.)

9 The stated purpose of this provision is to protect larval and juvenile Longfin smelt from  
10 entrainment at the south Delta pumping facilities. (*Id.*) This purpose is reiterated elsewhere in the  
11 record, including the declaration of Randall D. Baxter, a retired California Department of Fish  
12 and Wildlife employee with considerable expertise in Longfin smelt biology and population  
13 dynamics. (12/22/23 Baxter Decl., Doc. 482-7, ¶¶ 1–10.) Mr. Baxter indicates that Longfin smelt  
14 larvae, which hatch primarily between late December and early April, are weak swimmers and  
15 thus are “particularly at risk if they hatch within the influence of the south Delta water export  
16 pumps.” (*Id.*, ¶ 17.) After hatching, the larvae are slow growing and remain dependent on the net  
17 currents they encounter for the first several days post hatching. (*Id.*, ¶ 18.) In Baxter’s opinion,  
18 the fate of any Longfin smelt hatching in the lower San Joaquin River is tied to flow:

19 Those hatching in the lower San Joaquin River are either drawn into  
20 the south Delta by strongly negative Old and Middle River flows  
21 (OMR; export pumping causes currents in the Old and Middle River  
22 channels to flow upstream [negative] toward the pumps) or they are  
23 transported downstream toward Suisun Bay when river flows exceed  
24 export flows and net flow in the lower San Joaquin River becomes  
25 strongly positive ( $\geq 5,000$  cfs). Hydrodynamic modeling suggests  
26 that once particles are drawn into the Delta south of the San Joaquin  
27 River channel, they are unlikely to be “flushed out” and transported  
28 to Suisun Bay by high flows. So once drawn into the south Delta,  
larvae are either eventually entrained in exports, they die within the  
south Delta or they survive and grow sufficiently large (20 mm) to  
be salvaged or at 15-20 mm they become competent enough to  
migrate out of the south Delta. It is believed that this emigration is  
initiated by increasing temperatures in the 20-22°C range beginning  
May through June and creating an increasingly stressful  
environment.

(*Id.*, ¶ 18.) Put simply, while other Conditions of Approval are designed to prevent adult Longfin

1 smelt from moving into (and possibly spawning in) areas of high risk (*id.*, ¶ 24–25.), Condition of  
2 Approval 8.4.2 is designed to sample for larval presence at certain densities and limit entrainment  
3 of larvae and juvenile Longfin smelt.

4 The record suggests that “salmon and steelhead juveniles could benefit from less negative  
5 OMR flows because the timing of the actions overlaps with the presence of these species in the  
6 Delta, and less negative OMR flows can decrease the risk of entrainment and loss at the export  
7 facilities for salmon and steelhead,” (12/22/23 Marcinkevage Decl., ¶ 8), but no party provides  
8 specifics about how much of a benefit to salmonids this would provide or how important that  
9 contribution would be to salmonid survival. Relatedly, no party disputes that Longfin smelt  
10 protection is the primary purpose of Condition 8.4.2.

11 The State Plaintiffs advance several general arguments in favor of a finding that inclusion  
12 of Condition 8.4.2 in the 2024 IOP is “fair, reasonable and equitable and [would] not violate the  
13 law or public policy.” (Doc. 482 at 17–18.) First, they point out that Longfin are need of  
14 protection due to population declines, as State agencies have recognized and the record here  
15 supports. (*Id.* at 17; *see supra* Part II.B.) State Plaintiffs also argue that the Longfin smelt  
16 provisions in the 2024 IOP come “within the general scope of the case made by the pleadings”  
17 because the CNRA FAC alleged that Federal Defendants were violating CESA. (Doc. 482 at 17  
18 (citing *Hawaii’s Thousand Friends*, 149 F.R.D. at 616).) Indeed, CNRA’s fifth claim for relief  
19 alleges that Reclamation violated the APA by conducting CVP operations without complying  
20 with CESA. (CNRA FAC, ¶¶ 145–54.) Though CESA is a state law, CNRA alleges that CESA is  
21 enforceable against Reclamation by virtue of other provisions of federal Reclamation law,  
22 including Section 8 of the Reclamation Act of 1902, which expressly requires Reclamation to  
23 “proceed in conformance” with state water law. (*Id.*) This claim was the subject of extensive  
24 motions to dismiss (*see* CNRA Docs. 117, 119, 121–22, 130–31, 136–38, 141), which were not  
25 resolved prior to voluntary remand of the challenged biological opinions. Finally, State Plaintiffs  
26 emphasize that the Longfin smelt provisions are not inconsistent with the ESA, (Doc. 482 at 18),  
27 a point that no party refutes.

28 Defendant Intervenors object vigorously to approval of any of the Longfin smelt

1 provisions on various grounds. (Doc. 485 at 17–21.) Of particular note, Defendant Intervenor  
2 argue that courts reviewing consent decrees relating to federal environmental laws have only  
3 approved those decrees that “reverted to prior agency decision or, at most, modestly extended  
4 prior agency action.” (*Id.* at 19.) For example, the consent decree at issue in *Conservation*  
5 *Northwest v. Sherman*, 715 F.3d 1181, 1185 (9th Cir. 2013), effectively resulted in a permanent  
6 amendment to a federal Forest Plan. The Ninth Circuit refused to approve that consent decree in  
7 part because the settling parties could “simply let the [changes] stand indefinitely” without first  
8 complying with applicable procedural rulemaking requirements. *Id.* at 1187.<sup>26</sup> In contrast, the  
9 consent decree approved in *Turtle Island*, 672 F.3d at 1168, restored parts of a prior regulatory  
10 regime during a remand period, essentially functioning as a “stop-gap” measure “while the  
11 agencies amended their regulations through existing administrative procedures.” *Sherman*, 715  
12 F.3d at 1187 (discussing *Turtle Island*). Likewise, in *Defenders of Wildlife v. Jewell*, 2016 WL  
13 7852469, at \*4 (D. Ariz. Oct. 18, 2016), the consent decree set a deadline for development of a  
14 recovery plan for a species but did not “set forth substantive provisions of a recovery plan or  
15 otherwise mandate any particular aspect of recovery.” Citing these cases, Defendant Intervenor  
16 argue that the 2024 IOP should not be approved because it seeks to protect an entirely new  
17 species not covered by the challenged 2019 biological opinions and 2020 Record of Decision and  
18 “thus significantly departs from the status quo.” (Doc. 485 at 20.)

19       Though the caselaw does not appear to absolutely prohibit approval of consent decrees  
20 that depart from the status quo, the Court considers the Longfin smelt provisions to be a  
21 significant departure from the other IOP provisions and finds that departure to be relevant to the  
22 reasonableness analysis. “As *Sherman* made clear, each consent decree is evaluated on its own  
23 merits, and there are unique features to this one.” *Idaho State Snowmobile Ass’n v. U.S. Forest*

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24  
25 <sup>26</sup> The Court will not revisit in full its lengthy prior analysis of *Sherman*, which arose in the context of Defendant  
26 Intervenor’s arguments that the various iterations of the IOP should have been subjected to analysis under NEPA.  
27 (2022 IOP Order at 76–79.) In sum, the Court previously found that *Sherman* did not demand that the IOP be  
28 subjected to NEPA analysis (or other procedural rulemaking requirements) because the IOP does not operate as a  
substantial and permanent amendment to a prior regulatory regime. (*Id.* at 79 (“The Ninth Circuit’s holding in  
*Sherman* indicates that a court would abuse its discretion only by approving a consent decree that “permanently and  
substantially” amends an agency’s prior rule. The IOP does not do both and is therefore governed by the Ninth  
Circuit’s decision in *Turtle Island*, which does not require strict compliance with statutory procedural requirements in  
order to be approved by the court.”).) The argument presented here is a related but distinct one.

1 *Serv.*, No. 3:12-CV-447-BLW, 2015 WL 807104, at \*3 (D. Idaho Feb. 26, 2015). The  
2 circumstances pull in several directions here. On the one hand, as mentioned, the record supports  
3 a finding that Longfin smelt legitimately require additional protection against further population  
4 declines and that the claims in the *CNRA* case seek to require Federal Defendants to abide by  
5 CESA mandates designed to provide those protections. It is also true that the 2024 IOP is a  
6 compromise of that (and other) disputed claims, (*see CNRA* Doc. 348 at 4), and that to approve a  
7 consent decree, the Court need not reach and resolve the merits of the claim or controversy.  
8 *Citizens for a Better Env't v. Gorsuch*, 718 F.2d 1117, 1126 (D.C. Cir. 1983). Moreover, Federal  
9 Defendants have proposed Longfin smelt for listing under the ESA and are engaged in active  
10 consultation pursuant to regulations designed to anticipate protective measures for species in the  
11 ESA listing pipeline. (*See supra* Part II.B.)

12 On the other hand, the Court cannot avoid the obvious: Longfin smelt are not yet listed  
13 under the ESA and it remains unclear when, or even if, they will attain that status. Moreover,  
14 apart from the fact that employees of FWS—the agency ultimately responsible for determining  
15 what measures may be required to protect Longfin smelt from jeopardy if they ultimately are  
16 listed—support the inclusion of the Longfin smelt provisions in the 2024 IOP, the record does not  
17 contain information suggesting what protective measures will be required under the ESA, nor  
18 whether they will be substantially identical to those included in the 2024 IOP.

19 In addition, Federal Defendants have never before accepted the premise that a CESA  
20 listing is grounds for the imposition of restrictions upon the operation of a federal water project.  
21 Relatedly, Defendant Intervenors argue that Federal Defendants cannot lawfully impose such  
22 restrictions on the CVP if doing so would require Federal Defendants to violate provisions of the  
23 CVPIA and the COA that call upon Federal Defendants to export and deliver as much water as  
24 possible during times of “balanced conditions.” (*See generally* Doc. 485.)

25 Layered on top of the above complexities is the fact that it remains unclear if Condition  
26 8.5.2 would control any aspect of the projects this water year, even if the Court were to approve  
27 its application to Reclamation and the CVP. Dr. Hanson indicates that in recent years, even when  
28 larval protections have been triggered under 8.4.2, other OMR restrictions aimed at preventing

1 salmonid entrainment instead controlled project operations. (1/31/24 Hanson Decl., Doc. 486, ¶  
2 27.) Moreover, he opines that the proportion of the Longfin smelt population lost to water  
3 diversions is thought to be very small: approximately 1.5% according to a study cited by Dr.  
4 Hanson. (*Id.*, ¶ 28.)

5 Perhaps sensing that the Court might have concerns about imposing a Longfin smelt  
6 provision on Reclamation as part of the 2024 IOP, the State Plaintiffs attempt to suggest that  
7 these provisions are not a departure from the status quo because they operate according to a  
8 familiar mechanism, namely reducing exports to reduce negative (i.e. backwards) flow in OMR if  
9 certain risk triggers are met. (Doc. 482 at 15–16.) FWS witness Kaylee Allen also explains that  
10 Condition 8.4.2 utilizes the same “operational premise” behind the previously-approved IOP  
11 Delta operations protections for salmonids and Dela smelt, namely that if certain triggers are met  
12 OMR flows are managed to prevent species from being drawn into the southern Delta, where they  
13 face increased risks. (12/22/23 Allen Decl., ¶ 10.) The Court does not find these arguments  
14 particularly compelling. Though the mechanism may be the same, its target is not.

15 Relatedly, State Plaintiffs reiterate the general, independent justification given for the  
16 entire IOP: that it will improve coordination between the Reclamation and DWR. Defendant  
17 Intervenors dispute that there will be material gains from coordination in the context of the  
18 Longfin smelt provision. Even assuming improved coordination would avoid inefficiencies, the  
19 Court’s obligation to ensure that any remedy is narrowly tailored means that improved  
20 coordination cannot on its own justify the imposed measure(s). In evaluating this aspect of the  
21 proposed 2024 Consent decree, the Court is again cognizant that the substantive fairness inquiry  
22 “is nothing more than an amalgam of delicate balancing, gross approximations and rough justice.”  
23 *Oregon*, 913 F.2d at 581 (internal quotations omitted). On balance, the Court finds that the  
24 Longfin smelt provisions are not a reasonable extension of the prior IOPs because they depart  
25 from past patterns and will impose upon the CVP protections for a species not yet listed under the  
26 ESA.<sup>27</sup> Obviously, a change in the ESA listing status of the Longfin smelt could alter this

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27  
28 <sup>27</sup> The Court does not intend for this to be an expression of its legal opinion on the applicability of CESA to Reclamation. That question remains unresolved.

1 balance.

2 c) *ITP Condition of Approval 8.4.3*

3 ITP Condition of Approval 8.4.3, provision provides an “offramp” procedure, essentially  
4 an exception, to the other OMR restrictions for Longfin smelt. (2024 IOP, ¶ 6.iv; State ITP  
5 § 8.4.3 at p. 84.) Given that the Court will not be approving the inclusion of the (not otherwise  
6 expired) Longfin smelt provisions of 2024 IOP, there is no need to separately address this  
7 offramp condition.

8 d) *Defendant Intervenors’ alternative request for the Court to*  
9 *condition approval of the Longfin Smelt protections*

10 Defendant-Intervenors advanced an alternative request that Court approval of the Longfin  
11 smelt provisions “does not thereby authorize any export reduction during excess conditions (as  
12 such action that would violate CVPIA section 3411(b)), nor does it excuse Federal Defendants  
13 from any breach of contractual obligations.” (Doc. 504 at 15.) Because the Court will not  
14 approve those provisions, this alternative request is moot, as is Federal Defendants’ motion to  
15 strike the request as untimely. (*See* Doc. 508.)

16 iii. Spring Outflow Provision

17 The 2023 IOP contained a provision that required Reclamation to reduce exports in the  
18 event the Water Year is classified, based on the San Joaquin Valley 60-20-20 index, as Critical,  
19 Dry, or Below Normal, to contribute to the implementation of State ITP Condition of Approval  
20 8.17. (*See* Doc. 482-2, ¶ 12.) The 2024 IOP adds to that a requirement that Reclamation reduce  
21 exports by 100,000 AF in the event the Water Year is classified as Above Normal (*Id.*, ¶ 12.) The  
22 State ITP in turn provides additional detail about the function and purpose of Condition of  
23 Approval 8.17. (State ITP § 8.17 at pp. 102–104.) Generally, the Condition continues  
24 implementation of the so-called “I:E Ratio” that has been utilized in prior measures to protect  
25 listed species. (*See* 2023 IOP Order at 74; 2022 IOP Order at 40–41 (providing background on I:E  
26 ratio, explaining that it was not included in the 2019 NMFS BiOp, and that both the 2022 IOP and  
27 PCFFA’s competing proposal sought to re-impose an I:E ratio).) In 2022, having previously  
28 found the scientific basis for the I:E Ratio to be sound, the Court rejected challenges to inclusion

1 of the Ratio in that year’s IOP. (2022 IOP Order at 97–98.) The Court did so again in 2023 in part  
2 because the parties advanced no substantive objections to it. (2023 IOP Order at 74.)

3 This year, the only objection articulated by Defendant Intervenors to the modified version  
4 of this requirement is that it would benefit Longfin smelt. The IOP itself states that this provision  
5 is “intended to benefit Longfin smelt, Spring-run Chinook Salmon, Winter-run Chinook Salmon  
6 and Central Valley Steelhead.” (*Id.*) Given the record evidence discussing the benefits of this  
7 provision for ESA-listed fish (*see* 2022 IOP order at 98), the Court finds this argument  
8 disingenuous at best. Absent any other substantive objections,<sup>28</sup> the Court finds no reason to  
9 depart from its prior rulings with regard to the IOP’s adoption and implementation of ITP  
10 Condition of Approval 8.17.

11 **B. Public Interest**

12 Finally, applying the consent decree standard, before approving the IOP, the Court must  
13 ensure that the consent decree furthers the public interest. *See PG&E*, 776 F. Supp. 2d at 1029.  
14 Whether a consent decree is within the public interest in part depends on whether it is “consistent  
15 with the statute that the judgment was meant to enforce.” *Turtle Island*, 834 F. Supp. 2d at 1019  
16 (quoting *Gorsuch*, 718 F.2d at 1128). As the 2022 IOP Order explained, “the primary statute at  
17 issue here is the ESA, although CESA is also arguably relevant.” (2022 IOP Order at 105-106 &  
18 n. 67 (explaining that the goals of CESA are substantially identical to those of the ESA and that  
19 while some of the claims in this case arise under NEPA, NEPA has not been the focus of briefing  
20 in relation to approval of the IOP or any of the alternative requests for injunctive relief).)

21 The 2022 IOP Order concisely explained why the IOP was generally consistent with the  
22 ESA, having earlier detailed how the 2022 IOP’s provisions operate to provide additional  
23 protections for listed species above and beyond those contained in the 2019 BiOps:

24 The ESA’s stated purposes are “to provide a means whereby the  
25 ecosystems upon which endangered species and threatened species  
26 depend may be conserved . . . .” 16 U.S.C. § 1531(b); *see also Hill*,  
437 U.S. at 174 (“[E]xamination of the language, history, and

27 <sup>28</sup> Defendant Intervenors do object generally to the water supply impact of reducing exports by 100,000 AF, (Doc.  
28 485 at 13, 22), and somewhat more specifically to the notion that this reduction would materially benefit Longfin  
smelt. (*Id.* at 13.) But they do not specifically contend that the I:E ratio implemented by State ITP Condition of  
Approval 8.17 is not narrowly tailored to the needs of the salmonids it is expressly designed to aid.

1 structure of the [ESA] indicates beyond doubt that Congress intended  
2 endangered species to be afforded the highest of priorities.”). While  
3 a consent decree (or a stipulated injunction by analogy) must be  
4 “consistent with” the relevant statutes, it need not provide all of the  
5 relief a party might otherwise be entitled to under those laws. *See*  
6 *Ctr. for Biological Diversity v. Bureau of Land Mgmt.*, No. C 00-  
7 00927 WHA, 2001 WL 777088, at \*6 (N.D. Cal. Mar. 20, 2001)  
8 (acknowledging that while the plaintiff might have been entitled to  
9 “significant injunctive relief” had they proven all alleged ESA  
10 violations at trial, the consent decree’s terms represented  
11 “compromise and ongoing negotiation” to, for example, allow  
12 “limited expansion of mining”). For all of the reasons set forth above,  
13 the court concludes that the terms of the IOP are consistent with the  
14 ESA.

15 (2022 IOP Order at 106.)

16 For the reasons set forth in the 2022 IOP Order, reiterated in the 2023 IOP Order, and in  
17 the Court’s reasoning above, it reaches the same conclusion again. Given all of the information  
18 before it, with the exception of the Longfin smelt provisions, the IOP represents an appropriate  
19 approach because it is more protective in key ways than the 2019 BiOps. Though these additional  
20 protections may not solve all of the physical and biological problems facing the listed species, the  
21 alternatives offered by the objecting parties are more inappropriate.<sup>29</sup>

## 22 VI. ANALYSIS OF PCFFA’S INJUNCTIVE RELIEF PROPOSAL

23 As PCFFA correctly points out again (Doc. 492 at 15 n. 7), the Court may adopt—if it  
24 deems doing so to be appropriate—elements of its proposed alternative relief in addition to the  
25 terms of the 2023 IOP under the more traditional injunctive relief standards. However, the Court  
26 has already explained above why it believes certain of the additional protections proposed by  
27 PCFFA are not appropriate. For the same reasons, the court declines to impose those provisions  
28 as independent forms of injunctive relief.

## 29 VII. BOND REQUIREMENT

30 Federal Rule of Civil Procedure 65(c) provides

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31 <sup>29</sup> The Court again acknowledges that the 2022 IOP Order found that “the duration of the stipulation should be  
32 considered in the overall fairness analysis and that interim agreements of shorter duration—even ones that have not  
33 complied with rulemaking procedures—may well be accepted and approved by the court.” (2022 IOP Order at 79  
34 (citing *Am. Forest Res. Council v. Ashe*, 946 F. Supp. 2d 1 (D.D.C. 2013).) The 2022 and 2023 IOP Orders  
35 concluded that the fact that the IOPs have extended over multiple years is not surprising nor dispositive. (*See* 2023  
36 IOP Order at 77 n. 66.)



1 Security. The court may issue a preliminary injunction or a  
2 temporary restraining order only if the movant gives security in an  
3 amount that the court considers proper to pay the costs and damages  
4 sustained by any party found to have been wrongfully enjoined or  
restrained. The United States, its officers, and its agencies are not  
required to give security.

5 Here, the only injunctive relief being imposed is at the request of the entities subject to the  
6 injunction, namely the federal and state agencies that operate the CVP and SWP, respectively.  
7 Under these circumstances, no bond will be required

### 8 VIII. REQUEST FOR A STAY

9 The final question involves the request to further stay all proceedings in these actions  
10 through the issuance of a new Record of Decision in connection with the remand or December 20,  
11 2024, whichever is sooner. (Doc. 482 at 21–23.) This time is designed in part to allow Federal  
12 Defendants to conserve resources needed to complete the revisions to the BiOps on remand,  
13 which is now targeted for late 2024. (*See id.* at 22.) The 2022 and 2023 IOP Orders found that a  
14 stay was appropriate under *Landis v. N. Am. Co.*, 299 U.S. 248, 254 (1936). (*See* 2023 IOP Order  
15 at 78–79. That reasoning and conclusion remains valid and no party seriously contests the stay  
16 request or the parameters for expiration. Nothing precluded or precludes a party from seeking  
17 injunctive relief during the pendency of a stay. The request for a stay is **GRANTED**.

### 18 IX. CONCLUSION

19 For the reasons explained above:

20 (1) Federal Defendants’ and State Plaintiffs’ motion for an order extending the IOP as  
21 modified as interim injunctive relief through December 20, 2024, (Doc. 482), is  
22 **GRANTED IN PART** as set forth above.<sup>30</sup>

23 a. To ensure compliance with and appropriate opportunities for review of the  
24 Court’s order imposing the IOP, Federal Defendants shall file on the docket of  
25 these cases a copy of the draft and final TMPs for 2024, along with a  
26 justification for any planned departures from the IOP’s temperature targets.

27 \_\_\_\_\_  
28 <sup>30</sup> Federal Defendants are directed to forthwith submit a word processing version of the proposed order adopting the  
IOP to the Court for signature. The Court will entertain language therein that provides a reasonable period of time for  
Reclamation and DWR to transition away from Reclamation implementing State ITP Condition of Approval 8.4.2.

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(2) PCFFA’s request for alternative/separate injunctive relief (Doc. 492) is DENIED.

(3) Federal Defendants’ motion to strike the requested amendment to the IOP included in the DEFENDANT INTERVENORS’ reply brief (Doc. 508) is DENIED AS MOOT.

(4) Federal Defendants’ and State Plaintiffs’ request for a stay of these cases through December 31, 2023 is GRANTED.

The parties are directed to communicate with one another regularly throughout the remainder of WY 2024 and to file a joint status report with the court *at least* 45 days in advance of the expiration of the stay, or earlier if the parties conclude it is necessary, informing the Court of the need for further proceedings in these actions.

IT IS SO ORDERED.

Dated: March 28, 2024

  
UNITED STATES DISTRICT JUDGE