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BEFORE THE
CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

CALIFORNIA WATERFIX WATER)
RIGHT CHANGE PETITION)
HEARING)

JOE SERNA, JR. BUILDING
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
BYRON SHER AUDITORIUM
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PART 1 - REBUTTAL

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Reported By: Candace Yount, CSR No. 2737, RMR, CCRR
Certified Realtime Reporter

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1 until this matter is clarified by Miss McGinnis.

2 MR. O'LAUGHLIN: Okay. Thank you.

3 CO-HEARING OFFICER DODUC: Thank you.

4 MR. O'LAUGHLIN: Kevin, can you pull up DWR-10.

5 (Document displayed on screen.)

6 MR. O'LAUGHLIN: Yeah, there we go. Thank you.

7 Mr. Leahigh, Tim O'Laughlin, San Joaquin
8 Tributaries Authority. I have questions about your
9 rebuttal testimony.

10 I'd like to go into this in a little more
11 detail than what we've previously done, so I'm going to
12 refer -- This is the Primary Sources of Water for State
13 Water Project Exports, Page 6 of your exhibit.

14 It says down in the legend, "Flood control
15 releases and unstored flow."

16 Do you see that in the legend?

17 WITNESS LEAHIGH: Yes.

18 MR. O'LAUGHLIN: And then in the first Water
19 Year, you have a Water Year depicted, which is 2011, and
20 it says "(Wet)."

21 Do you see that?

22 WITNESS LEAHIGH: Yes.

23 MR. O'LAUGHLIN: And then above that, it
24 appears that the legend is depicted in kind of a -- I'm
25 color-blind so I'm going to say purple and it says

1 "3.61."

2 Do you see that on the exhibit?

3 WITNESS LEAHIGH: Yes.

4 MR. O'LAUGHLIN: Okay. So the first question I
5 have is: The 3.61 is what?

6 WITNESS LEAHIGH: That's 3.61 million
7 acre-feet.

8 MR. O'LAUGHLIN: Okay. And so this is -- In
9 that year -- And these are Water Years; correct?

10 WITNESS LEAHIGH: That's correct. The tabling
11 next to the year is -- depicts the Water Year type.

12 MR. O'LAUGHLIN: Okay. But what I first want
13 to understand is: 2011 is a Water Year, not a Calendar
14 Year; correct?

15 WITNESS LEAHIGH: I believe this analysis was
16 done . . . I think it was done using calendar years.

17 MR. O'LAUGHLIN: Okay. Okay. Interesting.

18 So in the Calendar Year. Do you -- Well, let
19 me ask a preliminary question.

20 When you make allocations to your contractors,
21 are they made in a Calendar Year or in a Water Year?

22 WITNESS LEAHIGH: Allocations to our
23 contractors are based on a Calendar Year.

24 MR. O'LAUGHLIN: Okay. So, in this, then,
25 looking at 3.61 million, that would be the amount of

1 water in 2011 that was exported that was flood control
2 releases and unstored flow; correct?

3 WITNESS LEAHIGH: Correct.

4 MR. O'LAUGHLIN: And that is -- Is that broken
5 down by a month or is that just the total volume for the
6 year?

7 WITNESS LEAHIGH: This is the total volume for
8 the year.

9 MR. O'LAUGHLIN: Is there backup data depicting
10 the amount of water that was diverted in 2011 by month?

11 WITNESS LEAHIGH: There's backup data depicting
12 the amount by day, and those are the exhibits that
13 were -- was part of the exhibit that was submitted
14 yesterday.

15 MR. O'LAUGHLIN: Correct. Okay. Perfect.
16 Okay.

17 And when it says "wet," is wet based on a
18 San Joaquin River Basin Index, a Sac Valley Index? What
19 indexes are you using for that depiction?

20 WITNESS LEAHIGH: That's the Sacramento Valley
21 Index. Oftentimes they're the same, but in this
22 particular case, it was -- it was based on the Sacramento
23 Valley.

24 MR. O'LAUGHLIN: Now, in this document, I want
25 to focus first on flood control releases.

1 So are the flood control releases depicted in
2 the 3.61 million acre-feet only flood control releases
3 from Oroville?

4 WITNESS LEAHIGH: I think the way the analysis
5 was done, yes, I believe it's flood control releases from
6 Lake Oroville.

7 MR. O'LAUGHLIN: Okay. So other operations,
8 either at Shasta, at Yuba, on the American, New Melones,
9 East Bay MUD, their flood control releases if they
10 occurred in 2011 would not be depicted in this graph; is
11 that correct?

12 WITNESS LEAHIGH: I believe that's correct.

13 MR. O'LAUGHLIN: All right. So the next phrase
14 in the legend is "Unstored Flow."

15 What do you -- What do you mean by the term
16 "unstored"?

17 WITNESS LEAHIGH: So, unstored flow would be
18 flows that did not derive from Project storage releases.
19 So the exception there is -- The flood control releases,
20 if, for example, were encroached into flood control
21 storage, we would have to release that storage for flood
22 control purposes. And so -- so it's lumped in the same
23 category as the unstored flow, which would be unregulated
24 flows from elsewhere in the system.

25 MR. O'LAUGHLIN: Well, I -- That's confusing to

1 me, so -- Sorry.

2 So are flood control releases and unstored flow
3 one and the same or are they different? Or does unstored
4 flow subsume flood control releases?

5 WITNESS LEAHIGH: So flood control releases
6 could be either stored releases or unstored releases. So
7 they could be either.

8 The -- Right. So they could be either one of
9 those. I think the key here -- And maybe I need to
10 clarify that a little bit.

11 Essentially -- So most of the flows here are
12 exported under excess conditions. So there's a number of
13 different sources which would fall in this category, and
14 those excess conditions, there's typically more unstored
15 flow -- Well, there is more unstored flow than is
16 necessary for meeting all of the Delta requirements, the
17 in-basin uses, and then some of those are picked up by
18 the Project facilities in the Delta.

19 MR. O'LAUGHLIN: Well, your terminology's kind
20 of strange because -- and I'm trying to get a handle on
21 this.

22 Earlier you talked about this flood control
23 releases only being from Oroville. Now you're talking
24 about other sources.

25 Are there other sources for flood control

1 releases and unstored flow other than Oroville in this
2 chart, or is this just Oroville?

3 WITNESS LEAHIGH: Yes. You were -- I think,
4 before, you were asking me specifically on the component
5 there that -- of the two, which is flood control
6 releases. That -- In the analysis, that component, I
7 believe, was from Lake Oroville itself.

8 In the unstored flow component, that could
9 include flood control that releases from other
10 reservoirs.

11 MR. O'LAUGHLIN: Okay. So in regards to
12 Oroville, you mentioned something that I find strange.

13 How is it, when you're in a flood control
14 operation, that you're releasing stored water?

15 WITNESS LEAHIGH: So after, let's say, a big
16 storm event, inflow into Oroville has exceeded the
17 outflow, and so there's storage gains. And if those
18 storage gains cause us to encroach into our flood control
19 requirement that required vacant space, then we would be
20 required to release that stored water that's encroached
21 in the flood control space and release it downstream.

22 MR. O'LAUGHLIN: So when you use the term
23 "storage," are you using the term "storage" based in a
24 legal sense or just in a practical sense?

25 WITNESS LEAHIGH: I would say in a practical

1 sense.

2 MR. O'LAUGHLIN: Thank you.

3 And, in fact, you wouldn't know by looking at
4 this chart whether or not the water had been stored in
5 Oroville for 28 days and then released; is that correct?

6 WITNESS LEAHIGH: No, I wouldn't know the
7 timing on that.

8 MR. O'LAUGHLIN: Okay. So let's go to what's
9 been marked as 905 but when we get to it we'll identify
10 the top of it.

11 (Document displayed on screen.)

12 MR. O'LAUGHLIN: And this has been identified
13 as "Data for DWR Exhibits 850 and 851, 2015" and we'll
14 just identify it as such and we will not use "905."

15 So let's go through this. This is a
16 fascinating -- And thank you for providing this graph. I
17 think it's a fascinating graph to look at.

18 Let's just go through kind of the headings so
19 we understand what we're looking at.

20 So can you tell us -- And this may be
21 redundant, but just so it's clear in the record, can you
22 tell us the heading what "FRSA" means.

23 WITNESS LEAHIGH: Yeah. That's Feather River
24 Service Area. So essentially the Feather River
25 Settlement Contractors' deliveries at Thermalito

1 Afterbay.

2 MR. O'LAUGHLIN: Okay. Then the next overall
3 heading is "Instream Requirements (Primary)."

4 Can you explain what that is.

5 WITNESS LEAHIGH: Yes. So, as -- as part of
6 our FERC license and agreements with Department of Fish
7 and Wildlife, we have year-round instream flow
8 requirements for the Feather River.

9 MR. O'LAUGHLIN: And so you have to release
10 those flow requirements under your FERC license to meet
11 those requirements; is that correct?

12 WITNESS LEAHIGH: That's correct.

13 MR. O'LAUGHLIN: Now, in this -- Under that
14 heading Instream Flow Requirements (Primary), there are
15 two subsections. One is called "Balance Conditions."

16 Can you explain to us what balance conditions
17 are.

18 WITNESS LEAHIGH: Yeah. So balance conditions
19 are when the releases from the Project reservoirs plus
20 any unregulated flows in the system downstream of the
21 Project reservoirs are approximately equal to the needs
22 for in-basin uses to meet the D-1641 requirements and the
23 Project exports.

24 MR. O'LAUGHLIN: Okay. And also -- So then we
25 get a further breakdown under balance conditions, and it

1 says "Exports (2nd)."

2 Can you tell us what that is.

3 WITNESS LEAHIGH: Yeah. So some of the
4 instream requirements that -- the instream flows that are
5 released, the primary purpose of the release is to meet
6 those in-river requirements on the Feather River, but
7 then there are -- there can be secondary use for that
8 water.

9 And in this case, that "(2nd)" indicates the
10 secondary use of those flows and, in this case, on that
11 column, a secondary use would be exported at the SWP
12 export facilities.

13 MR. O'LAUGHLIN: Okay. So looking at the
14 second column, it says that on January 1st of 2015, it
15 has a zero.

16 So under that scenario, would it be true that
17 water that had been released to meet an instream flow
18 requirement was not, in effect, exported on that day?

19 WITNESS LEAHIGH: That's correct. For the
20 purposes of this accounting, it's not assumed to be
21 exported.

22 MR. O'LAUGHLIN: Okay. Then if we went down to
23 January 15th, 2015, it appears there's a number 900 in
24 that column Exports (2nd) and that would tell you that
25 900 cfs of instream flow water that had been released at

1 Oroville was secondarily diverted at the export pumps;
2 correct?

3 WITNESS LEAHIGH: Correct.

4 MR. O'LAUGHLIN: Now, is -- This data that is
5 collected in this chart, is this post-processed data or
6 is this done on a daily basis?

7 WITNESS LEAHIGH: No. This -- Well, this
8 analysis was -- was post-processed. This analysis was
9 done specifically for this proceeding, for this -- for
10 this exhibit that was -- that we provided.

11 MR. O'LAUGHLIN: Okay. So -- So would that be
12 also true -- Well, we'll go -- Sorry. I'm jumping ahead.
13 Okay. Sorry. Got to slow down.

14 Balanced conditions. "In-Basin" is denoted in
15 Balanced Conditions and it also has a paren and it says
16 "(2nd)."

17 Can you tell us what that is.

18 WITNESS LEAHIGH: Yes. So numbers in that
19 column, as they are in the Export column, they should
20 only show up in those two -- in one of those two columns
21 if the Delta condition is not in excess.

22 So, in other words, balanced, but the -- So,
23 again, there's a secondary use for some of those instream
24 flow requirements to the Feather River. And at times
25 when we're in balanced conditions and all of the in-basin

1 uses are not being met by other natural flows in the
2 system, the Projects are releasing supplemental flows to
3 make up the difference.

4 And during any of those periods, you could see
5 numbers in that column where a secondary use of the
6 in-bay -- of the minimum flows at the Feather River could
7 also serve the purpose of filling in that gap for
8 in-basin use.

9 MR. O'LAUGHLIN: So in-basin use would be,
10 like, Feather River contractors; correct? As an example.

11 Or is --

12 WITNESS LEAHIGH: Well --

13 MR. O'LAUGHLIN: -- this someone else?

14 WITNESS LEAHIGH: -- they would be -- they
15 would be Feather River diverters downstream --

16 MR. O'LAUGHLIN: Okay.

17 WITNESS LEAHIGH: -- of Thermalito.

18 MR. O'LAUGHLIN: Such as a riparian right
19 holder?

20 WITNESS LEAHIGH: Correct.

21 MR. O'LAUGHLIN: Okay. Right. So in this same
22 column, there's --

23 WITNESS LEAHIGH: Well --

24 MR. O'LAUGHLIN: I'm sorry this is tedious but
25 I just want to make sure we go through this.

1 Go ahead.

2 WITNESS LEAHIGH: Yeah. I guess I'd caution a
3 little bit about that.

4 It's not in terms of identifying specifically
5 who would be entitled to that water. That's not really
6 part of the analysis. But it is making up a gap between
7 natural flows and then the other in-basin uses and D-1641
8 requirements.

9 MR. O'LAUGHLIN: Now, is the in-basin use
10 that's depicted there in (2nd), is that limited to the
11 Feather River, the Sacramento River Basin, or the Delta,
12 or all three?

13 WITNESS LEAHIGH: Yeah. It would -- could be
14 making up a difference in any of those locations.

15 MR. O'LAUGHLIN: So if there was an in-basin
16 condition in the Delta where there was supposedly a prior
17 right, those people at a certain point in time may have
18 picked up this water that had been released for other
19 instream flow requirements and used it in the Basin;
20 correct?

21 WITNESS LEAHIGH: Well, I -- We didn't look at
22 that in-depth in terms of legal uses of water. We didn't
23 assess -- We are not assessing that in part of this
24 analysis.

25 MR. O'LAUGHLIN: It just means that somebody

1 downstream may have picked it up and used it in the mass
2 balance basis and, therefore, it had to be accounted for;
3 correct?

4 WITNESS LEAHIGH: That's right. In terms of --
5 Just in terms of the straight mass balance, that's --
6 that's really all that we're looking at here.

7 MR. O'LAUGHLIN: Right. And I'm not saying
8 that anybody downstream had the legal entitlement to that
9 water. I'm just saying, on a mass balance basis, some --
10 in some way, that water left the system and you accounted
11 for it in the -- in the code by saying in-basin and in
12 use --

13 WITNESS LEAHIGH: Yes.

14 MR. O'LAUGHLIN: -- right?

15 WITNESS LEAHIGH: Essentially, that's correct.

16 MR. O'LAUGHLIN: All right. Excess -- Under
17 the Instream Requirements (Primary) still, you have
18 "Excess Conditions."

19 Can you explain what that is.

20 WITNESS LEAHIGH: Yes. So that would be the
21 other condition when we're -- When the Delta is not
22 considered to be in balance, it would be considered in
23 excess.

24 So this would be when the releases from the
25 Project reservoirs plus any other unregulated flows into

1 the system exceed the -- all the in-basin uses, the
2 D-1641 standards are all being met, and . . . Yeah,
3 that's -- that's essentially what it is.

4 MR. O'LAUGHLIN: Okay. There's two components
5 listed under "Excess Conditions," and I couldn't tell if
6 they were under the Excess Conditions or just under the
7 Instream Requirements (Primary).

8 So are the ag -- it says, A-G, Ag, and then
9 Fish.

10 Are those specifically under the "Excess
11 Conditions" or are they just generally under the heading
12 "Instream Requirements"?

13 WITNESS LEAHIGH: Well, they're under both. So
14 this would be instream flow requirements to the Feather
15 River that are occurring in excess conditions.

16 And so, then, we're not -- In that case, we're
17 not -- You know, we're still required to meet those
18 minimum instream flows, but there's no secondary use of
19 that water in terms of the Delta, so in terms of the
20 exports or in filling the gap in the in-basin use.

21 So we've classified those minimum releases
22 under Excess Conditions as -- for fish primarily because
23 that is the required -- required flow.

24 The Ag component on there is just -- It's a --
25 It's a buffer that, because our requirement -- this

1 minimum flow requirement is -- we're required -- we're
2 required to keep that all the way down to the -- well,
3 essentially the mouth of the Feather River, but the
4 Sacramento.

5 But, in practical terms, we just need to meet
6 it between the Thermalito Afterbay outlet to the
7 confluence with the Yuba because the Yuba is providing
8 additional flows.

9 The -- So the Ag component is a buffer on top
10 of the required fish flows to account for any diverters
11 between Thermalito Afterbay outlet and the confluence
12 with the Yuba River so that we could guarantee that
13 the -- that the 900 cfs fish flow is -- is being kept all
14 the way downstream.

15 MR. O'LAUGHLIN: In that regard, is there any
16 analysis anywhere that -- It's kind of peculiar to me
17 that we're releasing water for ag diversions in January
18 about demand and use? I mean, that seems kind of strange
19 that you'd have an ag use in the middle of January.

20 Or is it mainly a buffer?

21 WITNESS LEAHIGH: It --

22 MR. O'LAUGHLIN: See, what I'm trying to
23 understand is --

24 WITNESS LEAHIGH: Yeah.

25 MR. O'LAUGHLIN: -- I get it if you were

1 releasing it in June, July and August, people downstream
2 are diverting. But is this kind of just a buffer for the
3 fish flows sure that what I would call carriage losses,
4 whether it's trees, vines, whatever, water seeps out, but
5 you've got to make sure you get your 900 down there.

6 WITNESS LEAHIGH: That would actually be a more
7 accurate way to -- to label this --

8 MR. O'LAUGHLIN: Okay.

9 WITNESS LEAHIGH: -- particular column.

10 MR. O'LAUGHLIN: Okay. So moving on, "Release
11 to Support."

12 Now, it says "Release to Support." So this is
13 this a release from Oroville to support either flood or
14 exports?

15 WITNESS LEAHIGH: Yes. This is -- This would
16 be the release of stored water.

17 MR. O'LAUGHLIN: Okay. So this is -- This is
18 actual --

19 WITNESS LEAHIGH: Well, I take that back.

20 MR. O'LAUGHLIN: Okay.

21 WITNESS LEAHIGH: I'm not sure if it's only
22 stored water for the Flood column, but I think that is
23 the case for the Export.

24 MR. O'LAUGHLIN: Okay. So -- Because you'd
25 have to have control of the stored water to re-divert it

1 under your Permits at Clifton Court; correct?

2 WITNESS LEAHIGH: Well, this is just trying to
3 break down the components of the releases and then the
4 components of the sources of export for the purposes of
5 developing those graphs. So that's what this is all
6 about.

7 MR. O'LAUGHLIN: But do you understand that, if
8 you do not control the water and/or divert it at Oroville
9 under your Permits, do you understand if you have a right
10 or don't have a right to re-divert that water at Clifton
11 Court Forebay?

12 MR. BERLINER: Objection: Calls for a legal
13 conclusion.

14 MR. O'LAUGHLIN: If he knows.

15 MR. BERLINER: That doesn't change the
16 character of the question.

17 CO-HEARING OFFICER DODUC: Mr. O'Laughlin, I
18 believe, is asking Mr. Leahigh that question with respect
19 to his understanding as an Operator.

20 MR. O'LAUGHLIN: Um-hmm.

21 CO-HEARING OFFICER DODUC: So overruled.
22 Please answer.

23 WITNESS LEAHIGH: My understanding is, we need
24 to meet our Permits, and that we are.

25 MR. O'LAUGHLIN: Okay. So -- And let's look

1 down on that column, then, real quickly.

2 On January 15th, again, it looks like, there is
3 a number 64 in the Export column, and that would be 64
4 cfs of water was released from Oroville to support the
5 exports that occurred; is that correct?

6 WITNESS LEAHIGH: Yes, essentially.

7 MR. O'LAUGHLIN: Essentially --

8 CO-HEARING OFFICER DODUC: Could you --

9 WITNESS LEAHIGH: Well, so this is --

10 CO-HEARING OFFICER DODUC: I'm sorry.

11 WITNESS LEAHIGH: Again, this is -- So that 64
12 is part of that column, which is a tally of releases from
13 Oroville specifically for export purposes.

14 CO-HEARING OFFICER DODUC: How much additional
15 time do you need to wrap this up, Mr. O'Laughlin?

16 MR. O'LAUGHLIN: I hope to be done by noon.

17 CO-HEARING OFFICER DODUC: Okay.

18 MR. O'LAUGHLIN: Because I'm assuming -- And I
19 can look at Miss Spaletta. But I'm assuming a lot of the
20 questions that I'm asking are preliminary foundational
21 questions that somebody else would be asking. I'm sorry.

22 CO-HEARING OFFICER DODUC: No.

23 MR. O'LAUGHLIN: It's just, you're stuck with
24 me. Sorry.

25 CO-HEARING OFFICER DODUC: It could be worse,

1 Mr. O'Laughlin.

2 (Laughter.)

3 MR. O'LAUGHLIN: Wow. I feel sorry for that
4 person.

5 CO-HEARING OFFICER DODUC: Well, we'll go ahead
6 and allow you to take till noon to wrap up.

7 Let me also take this opportunity to invite
8 Mr. Herrick, since I see him suffering standing there
9 straining to read the screen:

10 If you would like to -- If any of you would
11 like to make use of these front desks and the screens
12 there, please feel free to do so.

13 MR. O'LAUGHLIN: So back -- back to it.

14 So the 64 cfs is water released to support the
15 diversions, and so if we went over -- I'm going to skip a
16 little bit to ask this question.

17 That same day, it says SWP Exports are 4,927.

18 Do you see -- Do you see that, John? I'm
19 sorry, Mr. Leahigh. I'm sorry.

20 WITNESS LEAHIGH: Yes, I see that.

21 MR. O'LAUGHLIN: Okay. So -- Now, is the 64
22 within the 4,927? In other words, is it an instantaneous
23 accounting that's occurring or is there a time lag with
24 this chart? Because clearly if you release water on
25 January 15 at Oroville, you're not diverting it on the

1 same day; right?

2 WITNESS LEAHIGH: Yeah. So, this is -- this is
3 not intended to be an absolute reflection of -- It
4 doesn't take into account timing.

5 It's -- This is -- For the purpose that this
6 data is intended, it -- it is in sufficient -- in my
7 judgment in sufficient detail in order to capture the
8 components that are shown in those graphs.

9 The -- One of the reasons I'm -- So, my staff
10 prepared this. This -- This table was not intended to be
11 an exhibit; right? We only provided this table at the
12 request of one of the attorneys.

13 So the organization of this table is -- I'm not
14 completely familiar with, so that's why I'm trying to
15 work through this with you.

16 But the -- the point that is being made with
17 this table, it is -- it is not intended to be a precise
18 reflection of operations.

19 MR. O'LAUGHLIN: Oh, yeah. No. I mean --

20 WITNESS LEAHIGH: Just to be clear.

21 MR. O'LAUGHLIN: -- come on.

22 WITNESS LEAHIGH: Just to be clear.

23 MR. O'LAUGHLIN: That's like your measuring 64
24 cfs at Oroville and following it all the way down and
25 picking it up. I mean --

1 WITNESS LEAHIGH: That's right.

2 MR. O'LAUGHLIN: Yeah.

3 WITNESS LEAHIGH: That's right.

4 MR. O'LAUGHLIN: So move back on the record,
5 then.

6 So, to go to -- There's a requirement that says
7 "In-Basin Requirement."

8 So what is that requirement for? That's
9 different than In-Basin (2nd).

10 WITNESS LEAHIGH: Yes. So this would be --
11 Right. So this is also for the same purpose as that
12 column that was under Instream Requirements as a
13 secondary use.

14 But in this particular case, this would be the
15 primary reason for the release from Lake Oroville is to
16 meet those in-basin requirements.

17 So we're already releasing enough to meet that
18 Feather River flow. This would be additional flow on top
19 of that to meet some of those in-basin charges.

20 MR. O'LAUGHLIN: And whoever did -- graphed it
21 did a good job because the total Oroville release is the
22 sum of the 900 cfs depicted in their Exports (2nd) and
23 Release to Support Exports 64 totals the total release
24 from Oroville of 964 cfs; correct?

25 WITNESS LEAHIGH: Correct.

1 MR. O'LAUGHLIN: Okay. Then moving over. Now
2 we get to the exports. So that's the release side. Now
3 we get to the exports side.

4 So, on that day, 4,927 was diverted by the SWP;
5 correct?

6 WITNESS LEAHIGH: Correct.

7 MR. O'LAUGHLIN: Okay. Then you -- you denote
8 in the next column whether the Delta is in excess, yes or
9 no. And if it's in, I'm assuming that's a no and the Y
10 is a yes; correct?

11 WITNESS LEAHIGH: Correct.

12 MR. O'LAUGHLIN: And then you also are -- This
13 is pretty helpful. It tells us if any flood releases on
14 that, yes or no. And, once again, it's a no for that
15 day, so there's no flood releases for that day.

16 Then you summed it up. It looks like somebody
17 added something for the charts. It says "Exported
18 Unstored Flow," which appears to me to be the SWP export
19 number of 4,927 minus the total Oroville release of 964;
20 is that correct?

21 I'm terrible at math.

22 WITNESS LEAHIGH: No. Well, let's see. Not
23 necessarily.

24 Can you say --

25 MR. O'LAUGHLIN: It's 3,000 -- It ends up,

1 John, being 3,963 cfs of un -- exported unstored flows.

2 WITNESS LEAHIGH: I'm sorry. What -- That's in
3 the column -- last column on the right.

4 MR. O'LAUGHLIN: Yes.

5 WITNESS LEAHIGH: Yes.

6 MR. O'LAUGHLIN: Yes. Right.

7 So now we have 964 cfs being released from
8 Oroville, and if I understand the charts right, 900 is
9 for fishery flows. You were able to pick that up at the
10 exports. You're able to pick up the 64 cfs at the
11 exports.

12 And the difference is, all this other water
13 being released from either the Sacramento, the American,
14 the Yuba, the Mokelumne, the New Melones, that shows up
15 in the Delta and you're able to pump; correct?

16 WITNESS LEAHIGH: Right. So in this entire
17 period, there was sufficient unstored flows to meet all
18 the in-basin requirements and that's why you see only
19 zeros in those two columns for in-basin requirements, and
20 there was additional unstored flow that was available for
21 export. Some of that occurred in balanced conditions and
22 some of that occurred in excess conditions.

23 But, for the entire period, there was
24 additional unstored flow available for export and that's
25 what's reflected in that column.

1 MR. O'LAUGHLIN: Now, do you -- As you sit here
2 today, do you still have a memory of 2015, or did you try
3 to wipe that out in your mind?

4 WITNESS LEAHIGH: I think it's completely gone.

5 MR. O'LAUGHLIN: I wouldn't blame you.

6 WITNESS LEAHIGH: 2017 wiped that out pretty
7 fast.

8 MR. O'LAUGHLIN: That's probably true.

9 Okay. Can we scroll down a little bit. Let's
10 look at July and August of this year 2015.

11 (Scrolling down document.)

12 MR. O'LAUGHLIN: Now, I know we don't have the
13 columns. We're still looking at the same exhibit.

14 But in this -- We're having releases that are
15 occurring.

16 What I find interesting about this -- Oh,
17 shoot, I lost my -- Can you scroll back up real quick? I
18 lost one heading. I'm sorry.

19 (Scrolling up document.)

20 MR. O'LAUGHLIN: Okay. You can scroll back
21 down to the July.

22 (Scrolling up document.)

23 MR. O'LAUGHLIN: So the second column in is
24 from -- If you look at this -- Let's pick a date. Let's
25 just use the one at the bottom of this, 21-July-15.

1 And if we start -- I'm going to start at the
2 right-hand side, and I want to focus on the 2,960.
3 That's the amount of release being -- being made, is that
4 correct, from Oroville on that day?

5 WITNESS LEAHIGH: I don't remember the
6 headings.

7 So it's either that column or the one to the
8 left. I forget which.

9 MR. O'LAUGHLIN: Okay. Actually, it's the one
10 to the -- I believe it is the one to the left. It's
11 2,210 is being released.

12 Can you scroll -- God, I hate these charts.
13 Scroll back up. Sorry. I'll get this one.

14 (Scrolling up document.)

15 MR. O'LAUGHLIN: Total Oroville release is the
16 second. It's SWP, and then we go to Delta in Excess.

17 John, just to focus -- I just want to focus on
18 the Oroville release and the Oroville exports. So the
19 second column in where it says "Delta in Excess" would be
20 the total Oroville release and then the SWP exports.

21 You see that?

22 WITNESS LEAHIGH: Yeah.

23 MR. O'LAUGHLIN: Let's scroll down again to
24 July. Sorry about that. We'll get through this.

25 (Scrolling down document.)

1 MR. O'LAUGHLIN: Thank you very much.

2 So now we're back down here again.

3 So the total Oroville release now, which is the
4 second column in from where it says "N," says 2,960 cfs
5 as being released.

6 You see that?

7 WITNESS LEAHIGH: 2960 cfs.

8 MR. O'LAUGHLIN: Yes.

9 WITNESS LEAHIGH: Yeah.

10 MR. O'LAUGHLIN: Okay. Then it says that --
11 And these are the things I didn't understand.

12 It says exports are minus 12. Can you explain
13 to me what that is?

14 And minus -- I mean, there's a whole column of
15 them there in July. What's going on there? How do you
16 divert negative numbers?

17 WITNESS LEAHIGH: I don't know for sure what
18 the -- what the reason is here in this particular case.

19 Sometimes, because of the way that SWP
20 export -- Well, it depends -- This is . . .

21 I don't know offhand why that is. I'd have
22 to -- I'd have to check with the person who prepared
23 this.

24 WITNESS NADER-TEHRANI: It looks like it
25 matches the number in the third column from left.

1 MR. O'LAUGHLIN: Yes, it does, so --

2 WITNESS NADER-TEHRANI: So now the question is,
3 what is the -- Can you scroll back up?

4 MR. O'LAUGHLIN: Yeah. Can you scroll back up
5 real quick, Kevin?

6 (Scrolling up document.)

7 MR. O'LAUGHLIN: Yes. So that would be Export
8 (2nd), which doesn't make any sense how you come up with
9 a negative number on exports.

10 So going down to the time period in July. This
11 chart last night just confused me no end. Sorry.

12 Because I thought I understood it until I got to July.

13 If you could scroll back down again.

14 (Scrolling down document.)

15 MR. O'LAUGHLIN: July 21. There we go.

16 July 21.

17 So if we move it over, there's also these add
18 numbers. So it says that at the exports you picked up
19 247 cfs of water at the exports that was unregulated, and
20 yet you pumped minus 12.

21 So let's focus on the 247. Where -- Where's
22 that this 247 number coming from in that year and in that
23 month?

24 WITNESS LEAHIGH: I don't know offhand.

25 MR. O'LAUGHLIN: Would that be part of your --

1 Is that part of your unstored water releases? It says
2 unstored flows.

3 WITNESS LEAHIGH: No. This would -- Well, this
4 would be -- For that column, it should be unstored
5 flows . . . in the system, but I don't know exactly where
6 they're -- It's not -- It doesn't specify where.

7 MR. O'LAUGHLIN: Right. So that's one of my
8 questions.

9 So when you did the graph -- And I'm looking at
10 this time period because it's a critical time period in
11 the system, 2015. Water's tight, reservoirs are
12 dropping, we're in the middle of a drought.

13 So can you tell today where that water's coming
14 from? And you know what -- Let's ask that question
15 first.

16 Can you tell where it's coming from?

17 WITNESS LEAHIGH: No.

18 MR. O'LAUGHLIN: Okay. Is it possible as you
19 sit here today that, of the 247, some of that water is
20 San Joaquin River flow?

21 WITNESS LEAHIGH: In 2015?

22 MR. O'LAUGHLIN: Um-hmm.

23 WITNESS LEAHIGH: Yeah. I wouldn't know.

24 MR. O'LAUGHLIN: Okay.

25 WITNESS LEAHIGH: I'd have to do -- use one of

1 Dr. Nader-Tehrani's DSM-2 modeling.

2 MR. O'LAUGHLIN: Okay. Can we go to April
3 or -- Let's go to April of 2015, if we could real quick.

4 I'm almost done. Any day in April would be
5 great, Kevin.

6 (Document displayed on screen.)

7 MR. O'LAUGHLIN: Ah, perfect.

8 All right. So, once again in this chart, it
9 appears that -- Let's pick a date. Let's go to
10 April 30th. Seems like a good time period, because it's
11 right at the bottom and --

12 (Line on chart highlighted.)

13 MR. O'LAUGHLIN: Thank you. That's very
14 helpful. Thank you.

15 So we're not releasing flood flows. The Delta
16 is not -- not in excess, and the CVP -- the SWP --
17 sorry -- is exporting 996 cfs of water. Okay?

18 And it says on the chart that none of that is
19 unstored flow.

20 Do you see that?

21 WITNESS LEAHIGH: Yes.

22 MR. O'LAUGHLIN: Okay. So how is it that
23 you're -- that -- So 805 is being used in the basin, I
24 understand that, under in-basin requirement.

25 The total release is 1800. So if I subtract

1 that 805, I'm assuming that's being consumed, so that
2 gets me down to a thousand.

3 And then how is it that -- Given those numbers,
4 do you -- is it the addition of the 246 that gets you up
5 a thousand that allows you to export the 996, John?

6 WITNESS LEAHIGH: Yeah, looks like that's the
7 difference.

8 MR. O'LAUGHLIN: Okay. So if I'm looking at
9 this chart, then, what this kind of tells me during this
10 critical time period is that you're -- in this condition,
11 you're releasing the instream requirements under Primary
12 in a balanced condition and there's 750 cfs being
13 released, and that's meeting a fishery flow requirement
14 somewhere in the system, and then you release an
15 additional 246 of stored water, it appears, to actually
16 divert 996.

17 And it's really close. That's roughly a
18 thousand cfs; correct?

19 WITNESS LEAHIGH: Yeah. So -- Right.

20 So that -- The 996 is coming from -- It's
21 stored water releases in either case. It's just that
22 part of that water served the primary purpose of instream
23 flow first before it was exported.

24 MR. O'LAUGHLIN: So would you know on this date
25 whether or not the instream release requirement of 750

1 cfs on April 15th was stored water or bypass flows at
2 Oroville?

3 WITNESS LEAHIGH: Yeah. I'm not sure.

4 MR. O'LAUGHLIN: Okay. Thank you.

5 Do you --

6 WITNESS LEAHIGH: But I'm sure it's -- Yeah. I
7 mean, just sitting here, I couldn't tell you. I'd have
8 to examine it some more.

9 MR. O'LAUGHLIN: Right. Because you'd have to
10 actually look at what inflow was coming into Oroville and
11 what demands were being made on Oroville to understand
12 whether or not that was actually stored water or water
13 that was bypass flows at that period of time; correct?

14 WITNESS LEAHIGH: Well . . . Yeah. I'm just
15 trying to see if it would be fundamental to the
16 spreadsheet that you would be able to tell but I just
17 personally can't decipher that --

18 MR. O'LAUGHLIN: Okay.

19 WITNESS LEAHIGH: -- without examining this
20 spreadsheet a little closer.

21 MR. O'LAUGHLIN: Now, when you pick up under
22 this instream flow requirements, and you talk about
23 instream flow requirements, is embedded within the
24 instream flow requirements -- is X-2 included within that
25 heading? To meet X-2?

1 WITNESS LEAHIGH: If it's set up -- A release
2 for an in-basin use? Well, no, it's not distinguishing
3 between which Delta requirement, but the X-2 is
4 considered one of the Delta requirements.

5 MR. O'LAUGHLIN: Right. So you would have --
6 In looking at this chart, it's hard to tell, because you
7 could be making a fish release -- Are the fish releases
8 only for the Feather River, or embedded within the fish
9 release, are there other Sacramento River and Delta
10 components of D-1641 or the OCAP RPAs or your FERC
11 license that are embedded in those, or is it just Feather
12 River fish flow releases?

13 WITNESS LEAHIGH: No, it's just Feather --
14 Feather River fish flows.

15 And, actually, now, your previous question I
16 think I have the answer to that.

17 MR. O'LAUGHLIN: Oh, good.

18 WITNESS LEAHIGH: Yeah. So it would be stored
19 releases from Oroville. I think that was your question
20 as far as the 750?

21 MR. O'LAUGHLIN: Yes.

22 WITNESS LEAHIGH: Yeah, it would be. And the
23 way I know that is, if there's -- if the right column is
24 indicating no unstored flow for export, then -- then it
25 means that the exports were from stored -- stored

1 releases.

2 MR. O'LAUGHLIN: Okay. So, then, if I looked
3 at that and used that logic as I went through here and
4 looked at July and August, then the component would be
5 that releases to -- if they showed zero in that column,
6 you could have the releases add up and still have
7 exports, even though it's not shown in the Release to
8 Support export column; correct? It would still be stored
9 water.

10 WITNESS LEAHIGH: I'm sorry. Are you talking
11 about July now?

12 MR. O'LAUGHLIN: Yeah. July or August or any
13 month after that.

14 WITNESS LEAHIGH: Sorry. Can you repeat the
15 question?

16 MR. O'LAUGHLIN: Sure.

17 What I'm trying to do is get the general
18 understanding based on what you just said, that if you
19 add up the 246 and the 750, you get to a thousand, and
20 clearly it's showing that the in-basin demand for
21 releases -- in-basin -- Is it zero? I think it's zero.
22 You get -- Sorry. Strike all that.

23 Okay. I've got two other questions in regards
24 to this.

25 Is -- So, when you're doing this accounting

1 methodology and you're looking at stored versus
2 non-stored, this chart isn't talking about stored water
3 under your Permits subject to re-diversion at Clifton
4 Court. It's a shorthand way to let you know what water's
5 being released; is that correct?

6 WITNESS LEAHIGH: It was a -- This -- This
7 analysis . . .

8 Well, this is the analysis that supports the
9 exhibits that were presented in terms of the stacked bar
10 charts. And so the purpose was to provide a breakdown
11 of -- in the -- in the case of the exports, the source of
12 the water that was exported.

13 For the purposes of releases from Lake
14 Oroville, it was to establish what the primary purpose of
15 each component of the release was, and that's what this
16 is.

17 MR. O'LAUGHLIN: Can -- Can you scroll down
18 once more, Kevin? Let's go to August.

19 (Scrolling down document.)

20 MR. O'LAUGHLIN: Perfect. Okay.

21 So in August of that year, I'm looking at this
22 chart, and it says Release to Support exports in 2015 is
23 zero.

24 Do you see that?

25 WITNESS LEAHIGH: I'm sorry. August what?

1 MR. O'LAUGHLIN: Well, they're all zeros in
2 August so far.

3 WITNESS LEAHIGH: Yeah. Okay.

4 MR. O'LAUGHLIN: So it says Release to Support
5 exports, zero.

6 I'm trying to get a handle on how I use this
7 chart.

8 So the State Water Project contractors filed a
9 complaint against the Delta diverters and said that they
10 were -- the Delta diverters were picking up stored water
11 that had been released from Oroville for export.

12 But in looking at this chart, if I looked at
13 it, this chart says no water's being released to support
14 exports in the month of August of 2015.

15 Can I use this chart for that or should I
16 reconcile that in a different manner?

17 MS. MCGINNIS: Objection: This goes beyond the
18 scope of what this data was provided for.

19 Mr. Leahigh just explained the chart and how
20 this data supports it and now we have veered off on how
21 Mr. O'Laughlin should use this chart in the future.

22 MR. O'LAUGHLIN: Well, here -- This is the
23 fundamental point. I've never veered from this from
24 Day 1 in these proceedings, which is trying to understand
25 how water is colored as it moves through the Delta.

1 Because understanding the fundamental premise of whether
2 or not this is stored water has a huge impact on whether
3 or not people downstream are entitled to divert it or
4 not.

5 Because -- Let -- I'll just say this because
6 I've said it before. If stored water is being released
7 subject to re-diversion, I'm perfectly fine with that.
8 But if water isn't being released from stored water meet
9 an export, then the whole question on the left-hand side
10 is, what is the color of that water to meet other water
11 requirements in the basin?

12 MS. MCGINNIS: And we've gone through every
13 column in the table and Mr. Leahigh has explained how it
14 relates to the chart. So I don't see why we continue
15 talking about different dates and different purposes.

16 MR. O'LAUGHLIN: Well, the problem is, you may
17 not, but I get to make my record. And unless you can
18 say -- state an objection under the law, then that
19 objection has absolutely no basis. That's --

20 CO-HEARING OFFICER DODUC: Enough. Enough.
21 Enough.

22 Mr. O'Laughlin --

23 MR. O'LAUGHLIN: Yes.

24 CO-HEARING OFFICER DODUC: -- you've actually
25 been quite artful, and you've laid out what the table is

1 and what it shows. It's obvious the data is what's
2 available here.

3 You've made your point. It's in the record.
4 We will move on from here.

5 Miss McGinnis, your objection is sustained.

6 And I believe you said you were wrapping up
7 your questions, anyway. So you have established what you
8 wanted to establish, Mr. O'Laughlin, for the record, so
9 can we wrap this up?

10 There is no need in my opinion to link this
11 back to what might or might not happen in 2015 with
12 respect to any complaint that was filed at that time.
13 I'm going to bring this back to the Petition that is
14 before us.

15 MR. O'LAUGHLIN: No. I -- And I agree with
16 that. That's -- Maybe I shouldn't have -- I was trying
17 to be helpful to the witness and maybe that's my
18 downfall.

19 I can ask it a different way, but -- but really
20 the question is -- to everybody in this proceeding is,
21 can I use this chart to understand what water is showing
22 up in the Delta as stored water subject to re-diversion
23 versus water into the Delta to meet other requirements?
24 That's --

25 CO-HEARING OFFICER DODUC: And that's a fair

1 question.

2 MR. O'LAUGHLIN: Oh, I got one.

3 CO-HEARING OFFICER DODUC: Answer that
4 question, please.

5 WITNESS LEAHIGH: You should be able to get
6 that information from this chart, correct.

7 MR. O'LAUGHLIN: Okay. And how would I do
8 that, John? Sorry. Mr. Leahigh.

9 WITNESS LEAHIGH: Well, we just walked through
10 every single column.

11 MR. O'LAUGHLIN: Yeah.

12 WITNESS LEAHIGH: You want to walk through them
13 again --

14 MR. O'LAUGHLIN: No, no, no.

15 So basically the explanation that you gave us
16 previously, we can use those explanations for the columns
17 and add or subtract as we want to come up with what water
18 is subject to either diversion or re-diversion by the SWP
19 at its facilities; correct?

20 WITNESS LEAHIGH: I think the table speaks for
21 itself.

22 MR. O'LAUGHLIN: Okay. And so the -- the only
23 thing we wouldn't understand by your testimony is where
24 these other sources of unstored flows come from; correct?
25 Because you can't tell by this chart what the source of

1 that water is.

2 WITNESS LEAHIGH: Yes, I think that's correct.

3 MR. O'LAUGHLIN: Okay. So I've got two quick
4 questions.

5 CO-HEARING OFFICER DODUC: Hold on,
6 Mr. O'Laughlin. There are people still standing up.

7 Are you standing up for a reason? Ah, just to
8 see.

9 MR. O'LAUGHLIN: So this is for Armin or for
10 you, Mr. Leahigh.

11 So if I'm looking at this column of unstored
12 flow, if the San Joaquin River flows depicted in the
13 modeling show that D-1641 is being met when, in fact,
14 they aren't, would that impact the amount of water that
15 was available for export from unstored flows?

16 Either one of you.

17 WITNESS LEAHIGH: I'm sorry. Can you repeat
18 that question, please?

19 MR. O'LAUGHLIN: Sure.

20 If -- If the modeling done -- If, and I realize
21 it's an if.

22 If the modeling done for this exercise has
23 D-1641 being met when, in fact, it can't be or it wasn't,
24 does that impact the amount of exported unstored flows
25 that may be available in this chart?

1 WITNESS LEAHIGH: I would have to check back to
2 see exactly how -- the fact that we had filed a TUCP in
3 this particular year and the -- so the operative
4 standards were different than what's in D-1641. I'd have
5 to look to see exactly how that was handled in here.

6 MR. O'LAUGHLIN: Okay. And then if we wanted
7 to, we could ask Mr. Tehrani to do a DSM-2 modeling to
8 ascertain that amount; correct?

9 MR. BERLINER: Objection.

10 MR. O'LAUGHLIN: Or the fate of the water in
11 San Joaquin if it hadn't been there.

12 CO-HEARING OFFICER DODUC: What is your
13 objection, Mr. Berliner?

14 MR. BERLINER: If Mr. O'Laughlin is seeking to
15 ask Dr. Nader-Tehrani to do runs for him to help his
16 questions --

17 MR. O'LAUGHLIN: No. I'm just saying if we
18 wanted to do that, it could be done.

19 CO-HEARING OFFICER DODUC: Are you asking if
20 the model is capable of doing that and providing that
21 information?

22 MR. O'LAUGHLIN: Okay. I'll ask it that way.

23 WITNESS NADER-TEHRANI: So now you have to
24 repeat the question, please.

25 MR. O'LAUGHLIN: If -- If the D-1641 flow

1 requirements were shown as being met when, in fact, they
2 could not have been met or were not met, could you run a
3 DSM-2 model to ascertain the fate of how much San Joaquin
4 River flow water was being exported in that time period?

5 WITNESS NADER-TEHRANI: That would not be a
6 very straightforward run. It would require an iterative
7 run, you know, making assumptions and changing, you know,
8 the flows in order to meet those requirements.

9 MR. O'LAUGHLIN: I have one last question.

10 WITNESS NADER-TEHRANI: It would not be
11 straightforward.

12 MR. O'LAUGHLIN: Okay. I have one last
13 question. This is for Armin.

14 If -- If the modeling at Vernalis was done
15 predicated on meeting D-1641 when, in fact, D-1641 has
16 not been met, if there is a deficit there -- if there is
17 a deficit there, where would that deficit be made up in
18 your -- in the California WaterFix proposal for meeting
19 in-Delta requirements or exports?

20 WITNESS MUNÉVAR: Yes. So that's an if. It's
21 a conditional question.

22 MR. O'LAUGHLIN: Huge if.

23 WITNESS MUNÉVAR: So, just to point out what I
24 think I lost in some of this questioning is that the
25 No-Action and the WaterFix have identical operations on