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00001 appearing as a rebuttal witness, it may be easier to go 2 1 TUESDAY, DECEMBER 2, 1993, 8:30 A.M. ahead and hear him at the time that we hear the other 2 --000--4 witnesses on historical conditions in the Mono Basin. 3 MR. DEL PIERO: Ladies and gentlemen, this hearing 5 MR. BIRMINGHAM: If Mr. Chesley was able to travel to 4 will come to order. 6 Sacramento to participate in the public policy hearing, I 5 This is a continuation of the hearing regarding the 7 don't know of any reason why he wouldn't be able to travel 6 amendment to the City of Los Angeles' water rights licenses Sacramento to participate as witness in the proceeding, and 8 7 to divert water from streams tributary to Mono Lake. 9 perhaps we can overcome the Department's objection if we can 8 When last we left we had the last panel, I think, on get a copy of the photographs that Mr. Chesley offered, and 10 9 behalf of the Los Angeles Department of Water and Power. 11 he can be presented as a witness by the Mono Lake 10 Seated are Mr. Hasencamp, Mr. Deas, and up to bat is Mr. 12 Committee/National Audubon Society when it presents its case 11 Dodge. 13 in chief, which will come after the Department of Fish and 12 MR. DODGE: I have a preliminary matter, Mr. 14 Game. 13 Chairman. MR. DODGE: I am not suggesting that Mr. Chesley, 15 14 MR. DEL PIERO: There is nothing preliminary about 16 whom I have never met -- I assume he can travel to 15 any matter you bring. 17 Sacramento. He did it once, I assume he can do it again. 16 MR. DODGE: We have scheduled tomorrow a panel of 18 My only suggestion was that tomorrow -17 historical witnesses, and they have all submitted written 19 MR. DEL PIERO: He is elderly, but he appeared very 18 declarations in a timely manner, except Wallace McPherson, 20 fit. 19 who was then in a Reno hospital. 21 MR. DODGE: But tomorrow we have a panel of witnesses 20 MR. DEL PIERO: Mr. McPherson is the gentleman who talking about historical conditions. It just makes sense 22 21 resided out on Paoha Island; is that correct? 23 that he would join that panel. MR. DODGE: His father took tours out on Paoha 22 24 If the Chair desires he should come to Sacramento, 23 Island. I don't know whether he resided out there, but the 25 again that's fine, too. 24 family ran the Mono Inn for many many years. 00005 MR. DEL PIERO: Do we know if he is available 25 Mr. McPherson did not submit a declaration. We 1 00002 2 tomorrow, Mr. Canaday? 1 submitted to the Board a declaration that Mr. McPherson had 3 MR. CANADAY: I am not sure of his availability 2 previously submitted to Judge Finney. 4 tomorrow, but he lives only about an hour and fifteen 3 I learned vesterday that while Mr. McPherson is at 5 minutes from Sacramento. He is closer to Sacramento than 4 home in Bridgeport, he is quite ill and unable to join us 6 Mono Lake. He lives up in Pine Grove above Jackson, 5 tomorrow. 7 MR. DEL PIERO: I think we will have him here in 6 We would propose instead of calling him as a rebuttal 8 Sacramento witness, to try to add a gentleman who, I believe his name 7 MR. BIRMINGHAM: If we can obtain copies of his 9 8 is Walter Chesley to the panel tomorrow. I am told Mr. 10 photographs, we will have no objection to his appearing as a 9 Chesley appeared in the public policy session here in 11 witness. 10 Sacramento and had a bunch of photographs and talked about MR. DEL PIERO: Let me indicate to Mr. Dodge why I 12 11 the 13 think I would rather have him here in Sacramento. He is MR. DEL PIERO: 1 recall Mr. Chesley. 12 more than capable of being examined and cross-examinationed. 14 13 MR. DODGE: He talked about historical conditions in 15 He is a pretty articulate gentleman, and during his policy 14 Rush Creek relating to waterfowl and things like that. 16 statement he indicated, at least he appeared to indicate a 15 I don't know whether he is available, but if he is, 17 pretty fair recollection of facts in regard to various 16 we would like to bring him over to the Mono Basin tomorrow, 18 streams and tributaries to Mono Lake. I don't have a 17 but if there is going to be objection to that, I want to get 19 problem with having him here. 18 it resolved now. And one other thing, sir, given the timing that we 20 19 MR. DEL PIERO: Is there going to be objection to 21 have, since we had five scheduled, if we are down to four, I 20 that? 22 have a greater sense that we are going to be able to 21 MR. BIRMINGHAM: I was not present during the public 23 complete all four without having to rush them, and without 22 policy statement that was made by Mr. Chesley. 24 having to shorten up the time being allowed to those people MR. DEL PIERO: Mr. Pollak was. 23 25 who present testimony tomorrow. 24 MR. BIRMINGHAM: So, at this point, I really can't 00006 25 say whether or not there would be -- actually, I think that 1 So, if we can get him here, I would rather have him 00003 2 here. there will be an objection. If the Mono Lake 1 з MR. SMITH: Could you please have him provide us with Committee/National Audubon Society call Mr. Chesley, they 4 the photos at the earliest opportunity so we can distribute 2 can call him in their case in chief, but we have absolutely 5 those no idea of what Mr. Chesley will testify about. 4 MR. DODGE: I will certainly do the best I can. I 6 MR. DEL PIERO: Mr. Pollak, did you not receive 5 7 have never said one word to the man. He may not do what I copies of Mr. Chesley's statement and the photographs? 6 8 tell him. MR. POLLAK: We have a copy of the transcript of the CROSS-EXAMINATION 7 9 by MR. DODGE: 8 public policy hearing. We have not received the photographs 10 a from staff. 11 0 Most of my questions will be for Mr. Hasencamp, so MR. DEL PIERO: He provided them to staff and they Mr. Deas, you can relax for the most part. If I catch you 10 12 were supposed to be duplicated for you? sleeping, I will have a question for you. 11 13 MR. POLLAK: That's my understanding. 12 14 Mr. Hasencamp, I want to ask a few questions about 13 MR. DEL PIERO: Did you know that? 15 LADWP's proposed Management Plan. Now you indicated in 14 MR. CANADAY: We don't have his photographs. 16 response to Ms. Cahill's question that under the LADWP MR. DEL PIERO: Who has them, do we know? 17 15 Management Plan that flows in the upper Owens River would 16 MR. CANADAY: I believe he still has them. There was 18 exceed 200 cfs. Do you recall that testimony? 17 a question -- Dan do you recall? 19 MR. FRINK: Yes, I recall he testified and there was 20 MR. HASENCAMP: A Yes. 18 19 a question as to whether he would participate in the 21 Q Can you tell the Board approximately how often that 20 hearing. We did not propose to call him as a witness, 22 would happen? 21 although I know the Board members were interested in hearing 23 I don't have that data in front of me. I know that 24 the State Board staff has a copy of the data. 22 from him. As it is, I think in view of the dispute that has 23 25 α Calculations have been provided to me which would 00007 24 arisen over historical conditions in the Mono Basin, he suggest that in approximately 17 years of the months under 25 probably could be called as a rebuttal witness, and the 1 the LADWP Management Plan flows would exceed 200,cubic feet 00004 2 logistics of the matter are such that even if he is 1 per second in the upper Owens River. з

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4 Does that sound about right to you? 6 had told us that that was a flow-through situation. Do you 5 That sounds like a reasonable estimate. Α 7 recall that testimony.? 6 0 Now, you also told us about the fact that there were 8 A Yes. 7 certain trigger points under the LADWP Management Plan such 9 Q Now, have you looked at the EBASCO report on Parker 8 that if Mono Lake got to a certain level, there would be no 10 and Walker Creeks? 9 diversions. 11 Α No. I have not. 10 Do you recall that testimony? 12 α For Parker and Walker Creeks, are you aware that a 11 A Yes. 13 single channel was created in 1990 to carry the water? 12 a And do those trigger points lead on occasion to great 14 Α No. 15 Q 13 fluctuations from month to month in the amount of water Are you aware that there are any problems With the 14 delivered to the upper Owens River? 16 Channel of Walker and Parker Creek\$ carrying the high spring 15 17 Α No, not really. runoff? 16 α But does that happen occasionally? 18 No, I am not aware of it. Α 17 No, because Grant Lake rises when the runoff rises, 19 α Assuming there were a problem with the channel of 18 It captures most of the runoff and then it is released later 20 Walker and Parker Creeks carrying the natural high spring in the year. When the natural flow in the Owens River runoff which you propose to send through without diversion, 19 21 20 starts to wane, then that is supplemented from Grant Lake 22 does the LADWP proposed Management Plan also include 21 water. 23 reoccupying distributary channels to take care of the high 22 Q So, if I were to give you a scenario where in month 24 spring runoff? 23 one, 250 cubic feet per second goes into the upper Owens 25 А Well, on Parker Creek there would be some diversions 24 River, and in month two, by reason of your trigger point, 00011 25 zero goes into the upper Owens River, and in month three 1 during the high flow events so they would flow as flow-00008 2 through conditions except for some irrigation diversions 1 230 cfs goes into the upper Owens River, is it your upstream. But the plan does not specifically address the з 2 testimony that does not occur under the LADWP plan? 4 distributaries on Parker or Walker Creeks. з Α I don't believe it does. 5 ٥ Doesn't address it one way or another? 4 Q Now, Ms. Cahill asked you some questions about the 6 А No. 5 frequency of your minimum flows. Now, your minimum flows 7 Q Now you told us that DWP's plan called for flows that 6 8 are shown on Table A; is that right? would emulate the shape of the natural hydrograph. 7 Minimum flows for which creek? 9 Do you recall that testimony? 8 Q Well, for Lee Vining Creek and Rush Creek; right? 10 Α Mimics the natural hydrograph. 9 Q Α Yes. 11 And that was testimony that Dr. Beschta gave, too: 10 Q On Table A, and depending on the month, the minimum 12 Wasn't it? 11 Lee Vining Creek is either 15 or 25; is that correct? 13 on А Yes 12 Q А Yes, those are target minimums. If there is not flow 14 Are you familiar with the flows in Rush Creek that 13 15 the DWP has sent down since Judge Finney's injunction in in the creek, then we cannot achieve those flows. 14 Ω Okay, are those also daily minimums? 16 June of 19897 15 No. 17 I am familiar with some of the flows. I don't know Α Α 16 α 18 So, it is possible then that for some given day the timing and magnitude of the entire period. Since June of 1989 until the present relating to Rush 17 within a month that the flow would be less than 157 19 ۵ 18 Well, if the water is not in the creek, it would not Creek, has the DWP attempted to mimic the natural Α 20 hydrograph? 19 achieve those flows. 21 20 Assuming the water is in the creek, are those daily 22 α Α There has been a small amount of that, but certainly, 21 minimums in addition to monthly averages? 23 not what our plan is proposing to do. 22 Oh, yes, they are. Α 24 a Does someone have our Exhibit 229 -- if we can 23 ۵ Now, your model is a monthly model based on what, 52 25 distribute that to people. 24 00012 years of data; is that right? 25 Fifty-three years of data. 1 Mr. Hasencamp, I will represent to you that in Α 00009 2 Exhibit 229 we have done our best to draw in two things, and 1 ō Fifty-three years of data, so you would have data for 3 I am talking about Rush Creek here. One is the minimum 2 53 years of 12 months, or 600 some odd months; correct? 4 daily inflow since the injunction came into being. That's 3 5 the dotted line. The solid line is the mean daily release. Sounds about right. Α 4 Q Now, can you tell me, just take Lee Vining Creek, how 6 Could you just sort of familiarize yourself with that 5 many of those 600 some odd months, I believe is 636 months, 7 document. I can give you a paper copy of it if that would 8 6 what percentage of those 636 months would Lee Vining Creek help. 7 be flowing at its minimum? 9 Α Okay. MR. DODGE: Mr. Chairman, did you get a copy of this? 8 Α I can't tell you exactly, but in the summertime, not 10 9 very often; and in the wintertime, more often. MR. DEL PIERO: Yes. 11 10 Now, Ms. Cahill tried to get you to agree yesterday 12 MR. DODGE: Q Let me know when you are ready to talk a 11 that Lee Vining Creek would be at its minimum approximately 13 about this. 12 77 percent of the months. 14 А i am ready. 13 Does that sound about right to you, or not? 15 Q Now, you would agree that in 1990 there was no effort 14 Α Well, it doesn't sound right. 16 to mimic the natural hydrograph. In fact, there was quite a 15 Q You think it is a lower number: right? 17 constant release: correct? 16 Α Yes. 18 Are you indicating that the dotted line is the А 17 ۵ And can you give me any estimate of the percentage of 19 natural hydrograph. Yes. 18 the time it would be at its minimum? 20 ۵ 19 Not really, other than in the summertime it would be So, Grant Lake Reservoir inflow includes the Lee А 21 Α 20 above the minimum much more often. 22 Vining conduit plus the natural channel of Rush Creek; is The same question for Rush Creek; can you give me any that what I understand? 21 Q 23 22 estimate as to the percentage of the months that Rush Creek 24 Q No, this is the inflow to Grant Lake from Rush Creek. 25 23 would be flowing at your proposed minimum? Α So this chart doesn't include Lee Vining? 24 A This is the release from Rush Creek because, of 00013 25 1 Q course, Walker and Parker Creeks flow in near the Narrows. That is correct. 00010 2 Α And the injunction you are referring to, so I 1 Ω understand, is the lake level injunction or the streamflow? I am talking about the release, yes. з 2 Again, I can't tell you precisely. 4 Lake level injunction. Α Q з Q Can you give me an estimate? 5 MR. BIRMINGHAM: Perhaps if the witness could have a 4 copy of the injunction that Mr. Dodge is referring to -- in: Α 6 No. α 5 Let's move on to Parker and Walker Creeks. Now, you 7 fact, I think there are two injunctions that are relevant

8 here. One is the injunction on minimum lake level which 10 feet and you get to 6373.3; right? specifies maximum and minimum, actually maximum flows that 9 11 Α Yes, 6373.3. 10 can be released down Rush Creek, and then there is the a 12 That's modeled information; is that right? 11 second interim streamflow order which specifies maximum and 13 Α It's modeled and it also is based on what actually minimum flows that can be released down the streams, and if 12 14 happened during the most recent drought we had. 13 there are going to be questions about it, I think it only 15 ۵ Now, Mr. Deas, you also had some drought analysis; 14 fair the witness have an opportunity to examine the 16 correct? 15 injunctions as well as the graph. 17 MR. DEAS: A Referring to --MR. DEL PIERO: Are you going to ask questions about In your written testimony I am referring to. 16 18 Q 17 the injunction? 19 A I did no analysis. 18 MR. DODGE: He doesn't need the injunction to answer 20 Q You took a look at Jones & Stokes' eight-year 19 these questions 21 analysis? MR. DEL PIERO: So long as the questions are limited 20 22 А Yes, I did. 21 to the chart that has been presented to the witness, I am 23 Q And you suggested in Table E, didn't you, at page 12 22 not going to ask --24 of your testimony, that, in fact, Jones & Stokes had MR. DODGE: Q I am really trying to establish a 23 25 predicted too great a drop? 24 couple of, I think, pretty obvious points. One, in 1990, 00017 and I am referring, by the way, only as a time reference 25 1 A Yes. 00014 Q 2 So, you said in Table E -- I'm going to run out of 1 I will just tell you in June of 1989, Judge Finney set a 3 room. 2 lake level injunction. And that was reinstated in 1990, and 4 Mr. Canaday gave me the world's smallest blackboard. з that is just for a time reference. 5 MR. DEL PIERO: He did that intentionally. 4 Now, I want to ask you, in 1990, wouldn't you agree 6 (Laughter) with me that in terms of releases that are shown on our MR. DODGE: Q You have an eight-year drought and 5 7 6 Exhibit 229, assuming those are accurate, that there was no 8 Jones & Stokes had it dropping 6.01 feet to arrive at 6371, 7 effort to emulate the natural hydrograph? 9 and you said it was only going to be 4.6 feet to arrive at 6372.4; isn't that right basically? 8 Well, I would say yes, but then, I would say we were 10 9 following the preliminary injunction which required us to Only for the uncertainties that we quantified. 11 10 release all the water that was stored in Grant Lake down to 12 α Well, I mean, it's right here in table E. 11 the minimum Grant Lake level proposed by Judge Finney so 13 Α Right, that is with respect to the correction to the 12 there was no effort to mimic the hydrograph. 14 neglection of the first year fish flow releases and the Going forward to 1991, it looks like there is at 0 15 13 termination of a drought with a dry year instead of a wet 14 least some correspondence to the natural hydrograph; would 16 vear. 15 you agree with that? 17 α I also saw in your testimony reference to a drought 16 Yes, again, that's with the interim flow orders which 18 Α of ten years. Do you recall that? 17 took place in 1990, so now that is the pattern there. 19 А That was hypothetical? 18 a And going forward to 1992, there's a brief spike, 20 α Where did you get the figure of ten years? 19 which I believe is the three-day flushing flow; is that 21 A We looked at the criteria used by Jones & Stokes to 20 right? 22 develop their eight-year drought, found that they had 21 A It looks like it. 23 neglected 1935. They had the data there, so we just simply 22 a Okay. And that looks like it took place about a 24 used it and redid the analysis, and under that scenario, 23 quarter of the year after the natural peak; would you agree 25 including all of the droughts that fit the criteria, we with that? 24 00018 25 A Yes. 1 ended up with a ten-year drought instead of the eight-year 00015 2 drought they mentioned. 1 And again, but for that three-day spike, there's no α 3 α But you ended up with a ten-year drought, but then effort to emulate the high flows that occurred in the spring 2 4 you rejected using a ten-year drought; didn't you? з and early summer of 1992? 5 Yes. 4 No. 6 Q А Why did you do that? 5 α And then, going ahead to 1993, would you again agree 7 Because in the historic period we ran out of anything Α 6 with me that there was little effort to mimic natural 8 approaching a ten-year drought, and they are looking at a 7 hydrographs? 9 hundred-year event. 8 No, there was effort, but there was concern about the They stated that an eight-year drought would be a 10 plausible hundred-year event. By simply including one 9 return ditch, so the flows were limited to about 160 cfs. 11. 10 0 Now, looking at figure 3, Mr. Hasencamp, you have 12 additional year, we found not only that the analysis was already testified that that shows the highs and lows of your 11 13 sensitive, but if you took out another year, you might end proposed Management Plan: correct? up with only a seven-year drought, but also, the ten-year 12 14 13 A For the simulation, yes. 15 drought just doesn't seem warranted given the current Q For the simulation, right. And then, if I read your 14 16 hydrologic period we are working with. 15 testimony correctly, in addition to that, you did a drought 17 Q You say the historic record? 16 analysis; correct? 18 A Yes. 17 Α That's correct. 19 a How many years does that go back? ۵ 18 And if I read your drought analysis correctly, you Well, even if you look back to, I think they went to 20 Α 19 analyzed the six-year drought starting at 6377 feet; 21 1902 or --20 correct? 22 Q 1904? 1904. We don't seem to have anything approaching a 23 21 Α That's correct. Α α 22 And you calculated a drop of 3.7 feet to an elevation 24 ten-year drought of this severity. 23 of 6373.3; correct? 25 a If you used a ten-year drought, would you agree with Α 00019 24 Yes. me that both the 6.01 and 4.6 would be a higher number? Q 25 And at that elevation, Negit Island is physically 1 00016 2 А it depends on the drought severity. 1 land bridged; is that right? 3 α But all other things being equal, they would be 4 higher; wouldn't they? Yes, that's true. 2 Α 0 And Twain Island which holds 50 percent of the 5 Well, if you define drought as below normal and you 3 Α 4 nesting gulls is in danger of being invaded; is that right? 6 add ten years of 99 percent of normal rounded off, it would 5 A I can't answer that. 7 not drop. In fact, the lake would rise. So drought 6 Q severity is something you must account for. But you have heard testimony to that effect; haven't 8 I asked you to assume that all things were equal, by 7 you? 9 α 8 A I can't remember exactly. 10 which I mean the severity of the drought for ten years and for eight years. Don't you agree you would get a large drop 9 Q So, we have got here six years, 6377, a drop of 3.7 11

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14 ۵ 12 on the ten-year drought? Let me ask you this question, sir: Let's assume that 15 Yes, but assuming a ten-year drought is as severe as contrary to fact, that the drought began in 1989 rather than 13 Α 14 an eight-year drought goes back to a comment I mentioned 16 earlier, and assume that things occurred just as they did in vesterday in my oral summary, that as a drought lengthens in 17 real life, that we had a drought right through 1992, but 15 18 duration they tend to decrease in severity, so going to a contrary to real life, 1993 and 1994 were drought years. 16 17 longer drought and maintaining the same severity would not 19 You would agree that Mono Lake would have fallen well 18 be a proper assumption. 20 in excess of 3.7 feet; wouldn't you? Now, you say that the historical period goes back to 21 No. 19 Ω А a 22 If 1993 and 1994 hypothetically were drought years 20 1902 or 1904, and you limited your analysis to that 21 historical period as did apparently Jones & Stokes. 23 after what really happened from 1989 to 1992, you don't Are you aware of information that goes back further 24 think Mono Lake would continue to fall? 22 than the historical period, would suggest that the Mono 25 Well, again, it depends on the severity of the 23 Α 24 Basin has, in fact, incurred droughts in excess of ten 00023 25 1 drought. If it is a drought similar to the 1989 criteria of years? 00020 the drought, the lake would not have fallen. If it is a 2 1 Yes, I am aware of such information. з year similar to 1991 or 1992, then, yes, the lake would A 2 Q What sort of information is that, sir? 4 fall. It's dendrochronology. 5 3 ۵ I mean, if you got a continuation of the same sort of Α 4 MR. DODGE: I would apply for an additional 20 drought, which in real life produces a 3.5 foot drop, 6 5 7 wouldn't you expect approximately another 1.5 to 2.75 foot minutes. MR. DEL PIERO: Granted. 6 8 drop in the following two years of the drought? 7 MR. DODGE: I will try not to exceed that. MR. BIRMINGHAM: I believe the testimony is to the 9 8 ο Mr. Hasencamp, using hindsight, when did our recent 10 contrary. It was not a drought that caused the 3.5 foot drop during the period Mr. Dodge is questioning about. It 9 drought end? 11 10 MR. HASENCAMP: A Well, with the close of last 12 was the drought in combination with diversions out of the 11 year's runoff year, which was April 1, using the runoff 13 basin. criteria. 14 MR. DODGE: I will stand by the question. 12 15 13 Q In fact, the low point came around December 1 of MR. DEL PIERO: I am going to overrule the objection. I think the witness indicated his understanding of what the 14 1992? 16 15 А Yes, for Mono Lake. 17 situation is. It is clear on the record what his underα For Mono Lake, right. 18 standing is, and also clear in the context of the question 16 19 17 Would you agree with me that the low point was about asked. 6373.4? 18 20 I don't think there is any effort here on the part of 19 21 Mr. Dodge to ask questions that are not within the context А Yes. of the line of questioning taking place. 20 a Okay. I don't have room for a third column here, 22 but, Mr. Hasencamp, what was the lake level in June of 1989 23 Mr. Hasencamp, given what you know about the 21 22 when Judge Finney issued his temporary restraining order? 24 hydrology situation, given what you know about the facts It was probably about 6376.7. 25 that 15,000 acre-feet of water has been diverted, do you 23 A 24 o 6376.7, so during that period from June of 1989 to 00024 December of 1992, we had a drop of 3.3 feet; correct? recall the question? I would appreciate it if you could 25 1 00021 2 answer it. 1 That's correct. 3 Mr. Dodge, do you want to restate your question? Α Q 2 And the concept is a runoff year; right? 4 MR. DODGE: Q If we had 3.5 foot drop in real life 3 Α That's right. 5 from 1989 to 1992 caused by the drought and whatever other 4 Q Would you agree with me that if we backed off this R causes -- I am not trying to trick you on that -- assuming 5 June of 1989 number to 4/1/89, the beginning of the runoff you had a continuation for the following two years of the 7 year, that we would get a lake level of about 6376.9, a 8 same sort of conditions that led to a 3.5 foot drop, 6 little bit higher in a drought? 9 wouldn't you expect the total drop over six years to be 7 8 A Yes, that's correct. 10 slightly in excess of 5 feet rather than the 3.7 feet that So that would be a difference then from 4/1/89 to 9 Q 11 you put in your testimony? Well, the drop, given the diversions that occurred in 10 12/92 of 3.3 feet; correct? 12 1989 and given the small amount of diversions that occurred 11 Α That's correct: 13 α Now that basically is the real life data for what in 1991, and if there were another year or two of runoff 12 14 that was in the range of 60 percent of normal, then, yes, I 13 happened at Mono Lake in a drought with no diversions; 15 14 16 would say the lake would drop more than that amount, more right? 15 Α No. 17 than the 3.7 feet that were predicted. 16 ۵ Well, why am I wrong? 18 And you would have a lake level down close to or even Q 17 Α Because in 1989, we diverted about 15,000 acre-feet 19 below 6372; wouldn't you? out of the basin, so that's probably about one-fifth of the That's possible with a dry enough year. 20 18 Α 19 entire runoff for that year. So, 1989 was a relatively wet 21 α Now, Mr. Deas, let me ask you the same sort of 20 year in comparison to the other years of the drought, and 22 questions on your eight-year drought. Do you recall that 21 the runoff was 73 percent of normal, and 73 percent of 23 Jones & Stokes predicted a drop of 6.01 feet and you said it was going to be 4.6 feet. Given the real life over four normal is about enough to keep Mono Lake at the same level, 22 24 23 but because we exported, we took more water, and the lake 25 years of 3.5 feet, wouldn't you agree that the Jones & 24 dropped a lot faster. 00025 Stokes' figure far from being high is really conservative. 25 a So, from 4/1/89 to 12/92, we had a 3.5 foot drop with 1 00022 2 MR. DEAS: A First of all, I would like to clarify 1 some exports? з your initial remark, about my drought analysis. I just was 2 applying the same rules that Jones & Stokes used, just to Α Yes. 4 3 ۵ 5 Now, Mr. Hasencamp, this is a 3.5 foot drop, not clarify. You could also say that a drop of 100 feet would be 4 6 modeled, mind you, but an actual drop in Mono Lake even with 5 some exports, 3.5 feet in four years; right? 7 conservative. 6 8 We are in the process of determining the water supply Α That's right. 7 a Now, doesn't that give you some pause when you say 9 decision and you have to draw the line somewhere. I 8 the worst case which leads us to 6373.3 is 3.7 feet over six 10 honestly, in my opinion, don't believe, or believe that 9 11 there's enough uncertainty in the Jones & Stokes' drought years? 10 analysis that I wouldn't even like to use it in this case. Α No. As I said, I looked at the data and, again, if 12 you see our model, our drought analysis shows that in 1989 13 There should be another type of analysis. 11 had there been no export, the lake level, in fact, would not 14 Ω Well, maybe my question wasn't clear. Let me ask 12 have dropped. 15 another question: Given the 3.5 foot drop actually observed 13

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over four years, wouldn't you agree that Jones & Stokes' 18 reproducible. prediction in an eight-year drought of a drop of 6.01 feet 19 α But someone just looking at LAASM itself couldn't 18 is closer than your prediction of 4.6 feet? 20 reproduce Figure 4; could they? MR. HASENCAMP: A 19 Α Again, I believe there's enough uncertainty in the 21 Not with the information that was analysis that maybe it was fortuitous that they came out 20 22 provided on September 22. Have you any idea how many times Mr. Vorster told me With 6.01 feet. However realistic it may or may not be, how 23 Q 22 24 the number was arrived at is what my concern is with that that Figure 4 is not reproducible? study. 25 MR. BIRMINGHAM: I'm sure it's an order of magnitude. It seems like under their analysis that's what they 00029 25 arrived at, but I would have to do an analysis of my own to 1 MR. DEL PIERO: Is that a stipulation, Mr. 00026 2 **Birmingham?** determine what I felt the lake would actually fall to. MR. BIRMINGHAM: At least a thousand, I'm sure. 3 α Mr. Deas, I will abandon that question. You talked 4 (Laughter) about LAASM. Is LAASM a replacement for LAAMP? 5 MR. DEAS: A This is an example of using the model LAASM is a model developed by the Department of Water 6 as a tool and then using professional judgment on top of and Power so they could analyze their own operations and 7 that to provide a reasonable number. planning, and that's what it was built for. 8 MR. DODGE: Q But a .6 differential between LAASM Ω Is it designed to be a replacement for LAAMP? 9 and what was actually observed might give one pause over the validity of LAASM; isn't that a fact? Α No. 10 I understand there are improvements ongoing in LAAMP. Q MR. HASENCAMP: A No, I don't think so. Again, 11 If those improvements are put into place successfully, is 12 there was a change of hydrology over that period and so I LAAMP a workable model? 13 think that's not an unreasonable error for that change in Α I won't know until I see those improvements. 14 hydrology 13 ۵ Potentially it is workable? 15 MR. DODGE: Thank you, gentlemen, that's all I have. Α Anything is possible. 16 MR. DEL PIERO: Thank you very much, Mr. Dodge. Q As you sit here today, do you think it is going to be 17 Ms. Koehler, good morning. CROSS-EXAMINATION workable or not? 18 by MS. KOEHLER: Α I don't know. 19 0 I understand there is an outside audit ongoing of 20 a I am Cynthia Koehler and I am counsel for California LAASM. Has that been completed? 21 Trout. I haven't heard of this -- or I have heard of it Α 22 I don't have very many questions for either of you. under a different title. I don't recognize that. 23 My colleagues have covered almost all the points, so I am α Mr. Hasencamp, can you help us with that? 24 sure I will be very brief, but slow. MR. HASENCAMP: A There was someone that was 25 Mr. Hasencamp, I just want to make sure I understood reviewing a portion of the model. 00030 a Has that been completed? your testimony yesterday. Is it correct that the fish flows 1 proposed in your Management Plan were not recommended by the 00027 2 A Yes 3 fishery experts which testified on Los Angeles' behalf in Q Can we get a copy of that? 4 this proceeding? MR. HASENCAMP: A No, that's not correct. A 5 Yes. 6 0 Now, the last line of questioning is for either of Q That's not correct? you. Now this Figure 4 up here on the board, I think it was 7 No, in fact, they are recommendations from our you, Mr. Hasencamp, but my recollection might be wrong; did 8 fishery experts who testified. you tell us that there was a .8 arbitrary drop in that Is it your testimony that the fishery experts which 9 a Figure 4? 10 testified in this proceeding on behalf of Los Angeles made Α Not arbitrary, but there was an adjustment made of .8 the streamflow recommendations to this Board which you are 11 feet. 12 now also making in the Management Plan? Yes. Well, they offered the minimum flows and so we Q An adjustment made? 13 A Α Yee 14 incorporated the minimum flows, but, of course, the flows, Q Can you tell us what facts, what events led to that as I have testified, will typically be much higher than 15 adjustment? 16 that. Well, there were certain changes in the hydrology 17 α Let's talk about those flows for a moment. You have Α over the period from 1987 through 1993. One of the changes 18 testified that the average for Rush Creek would be between was for release of water down Parker and Walker Creeks that 35 and 106 cfs; is that correct? 19 had previously been dry. And so, there was a rewatering of 20 Α Depending on the month, yes. the water table, and so you would expect the lake to rise, 21 ۵ Depending on the month and for Lee Vining those averages would be 16 to 75 cfs, again depending on the Mono Lake to rise, more from releases from these creeks, 22 but in reality, it took quite a while before the water 23 month? finally did reach Mono Lake. 24 That's correct. A a So, the lake in our actual versus calculated 25 But these averages do not necessarily reflect the comparison, the actual lake level was slightly below the 00031 calculated, so we adjusted that to our drought analysis. level of flow that would actually exist in either of these 1 00028 creeks most of the time under your Management Plan; isn't 2 ō So, it is true then, if I understood your testimony, that correct? 3 applying LAASM resulted in a lake level that was .8 feet 4 Α Yes, that's correct. different than what really happened? 5 ۵ Well, is it correct then that these average values No, I believe I testified it was .6 feet. could be achieved with long periods of very low flows and A 6 I thought I heard .8 feet. It was .6 feet? very short periods of very high flows that would be another a 7 A The adjustment was .8, but the difference was .6. 8 way to achieve those average values? a The difference noted was .6? 9 That's another way to achieve it. However, that's Α 10 not what happens in reality. Yes. A We are talking about your plan. Your plan doesn't Q Now, let me ask you this, Mr. Deas: I believe you 11 Q specify, as you testified, a daily regime? testified that it was a good thing that models be 12 reproducible because people come and go and you need to be 13 That's true. Α Okay. Turning to the minimum flows, I want to make 14 α able to reproduce the model: correct? sure I understood your testimony. Is it correct that the MR. DEAS: A Yes. 15 Q And you would agree with me that this sort of plan proposes that the minimum, again on a monthly basis, in 16 Rush Creek would be 20 to 30 cfs? adjustment, whether it is .8 or 1.6, is something that's not 17 Except for fishery maintenance flows, that's true. reproducible? 18 A And could you clarify that? Α If it is well documented, it is perfectly 19 Q

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20	A Yes. In June of every other year there's what we	22	
21 22	call a flushing flow. Q Right, And in Lee Vining, excepting for the flushing	23	
23	Q Right. And in Lee Vining, excepting for the flushing flows, the minimum could be 15 to 25 cfs?	25	actually be 20 to 30 cubic feet per second? A Many people could interpret it in many ways, and
24	A Yes, when the water is available.	20	A Many people could interpret it in many ways, and 00035
25	Q Now, Ms. Cahill asked you last night about the text	$\frac{1}{1}$	that's certainly one of the interpretations.
	00032	2	Q Because I read that it will range from 35 cfs to 106.
1	of your Management Plan. I am going to ask you to turn to	3	Is there anything in that sentence that indicates range would
2	page 7 of that because I didn't entirely understand your	4	actually be lower than 35 cfs?
3	answers to her questions.	5	A No.
4	I'm reading from your Management Plan, the glossary	6	Q I would like to ask you a couple of questions about
5	brochure.	7	the actual operation of the Management Plan as I understand
6	A If I may interject, that, I don't believe, is part of	8	the plan as it is proposed in your testimony.
7	the official record or is admitted as evidence, and that	9	Every month LADWP would compare the actual elevation
8	Management Plan was not developed by me. It is not part of	10	of Mono Lake with the minimum target lake level for that
9	my testimony.	11	month under the Management Plan; is that correct?
10	MS. KOEHLER: Can I ask for clarification on that?	12	A Yes, that's correct.
11	It was my understanding it has been entered as an exhibit.	13	
12	MR. BIRMINGHAM: That is not correct. Maybe I can	14	amount of water necessary to maintain the target lake level
13	clarify that. The document Ms. Koehler is holding up has	15	elevation, the minimum target lake elevation by the end of
14	been identified as Exhibit 83, but it was only identified	16	the month, is that correct?
15	because there were a number of questions, but this document	17	MR. DEAS: Would you restate that, please.
16		18	
17		19	previous question. Once that comparison between the actual
18	many questions being asked about it, and I thought for	20	lake level and the minimum target lake level for a particular
19	purposes of the record the Hearing Officer may remember	21	month has been made, my question is, would LAASM then be used
20	when staff and Board Member Forster were asking questions	22	· · · · · · · · · · · · · · · · · · ·
21	about that particular document, I asked that it be	23	minimum target lake level by the end of the month?
22 23		24	A I believe that I am a little confused by the question.
23	part of the policy statement and was not submitted as evidence.	25	MR. BIRMINGHAM: I will object on the ground the 00036
25	MR. DEL PIERO: That's my recollection.	1 1	question is vague and
25	NIR. DEL FIERO. That's my reconsolion. 00033	2	MS. KOEHLER: Let me clarify my question. I am trying
1	MS. KOEHLER: Q Well, let me clarify. Is it your	3	to
2	testimony that this document, which is identified for	4	MR. DEL PIERO: I am not going to sustain the
3	identification purposes only as LADWP Exhibit 83, is this not	5	objection. I am going to overrule the objection because you
4	an accurate representation of your Management Plan?	6	don't understand the question.
5	A Well, there's some additional items in there that are	1 7	MS. KOEHLER: I will be happy to try and simplify my
6	not part of my testimony on the Management Plan, and there is	8	question. I am talking about the way the plan will work,
7	other verbiage in there which is not directly part of the	9	what actually L. A. is proposing to do to get down to basics,
8	Management Plan.	10	
9	Q I understand that there are things that may be extra,	1 11	between the target lake level in the plan and the actual lake
10	but your testimony today is not the sum total of L.A.'s	12	level. What I'm asking about is, will LAASM then be used to
11	Management Plan; is that correct?	13	determine how much water needs to get down the stream or not
12	A No, I think this is the total of the Management Plan.	14	get down the stream in that month to maintain that target
13	Q I see. To the extent that this document, Exhibit 83,	15	lake level by the end of the month?
14	differs, and I'm not talking about – Let me go to the extent	16	A Yes.
15	that the information in Exhibit 83 regarding the Management	17	
16	Plan to the extent that that information derives from your	18	of this monthly LAASM calculation would be a total amount of
17		19	water that needs to get down the creek or not by the end of
18	A There are statements in there that might be confusing,	20	
. 19	and if there is a discrepancy between what is in my	21	A Yes.
20	testimony, then the written testimony stands first ahead of	22	Q is it correct that the Management Plan does not
21	the document you have.	23	provide any guidance other than the minimum fish flows as to
22 23	Q I see. My concern, Mr. Hasencamp, is that this has	24	how L. A. should release water on a daily basis to meet this
	been a widely distributed document which represents itself to	23	target elevation requirement? 00037
24 25	be L. A.'s model Mono Lake Management Plan, and what I would like you to clarify for the record is to what extent are you	1	A Referring to LAASM, it's a monthly model.
23	ike you to claimy for the record is to what extent are you 00034		Q. I'm not asking about LAASM. I'm asking about the
1	standing behind this document as the Management Plan aside	3	Management Plan.
2	from the extraneous material?	4	MR. HASENCAMP: A Yes, that's true.
3	A I'm standing behind it for most of its accuracy, but	5	Q So, L. A. would be free, then, to decide minimum flows
4	again, I did not write it, so I cannot answer all the	6	to release or not release water in any manner as long as this
5	questions that are in it.	7	total amount gets down the stream by the end of the month.
6	Q Then in order to clarify, I'm going to ask you two	8	A No, that's not true. We do have ramping constraints
7	questions about its accuracy. I am reading from page 7:	9	that we have in place.
8	Minimum stream flow releases for Lee Vining Creek will range	10	Q Aside from ramping restraints.
9	from 16 cubic feet per second in winter to 74 cubic feet per	11	A Ramping constraints?
10	second in June. Is that an accurate statement?	12	MR. DEL PIERO: Aside from the ramping constraints, is
11	A No.	13	there anything else?
12	Q So, you could not stand behind that part of this	14	A No.
13	document?	15	MS. KOEHLER: Q I believe you told Ms. Cahill last
14	A No, that must be a misprint. It must be average.	16	evening that the Management Plan in its current form does not
15	Q The second sentence, as I believe Ms. Cahill pointed	17	provide for any variation in flows, fishery flows, based on
16	out last night, is: Rush Creek will range from 35 cfs in	18	water year type, wet, normal, and dry; is that right?
17	winter to 106 cfs in July.	19	A Yes, that's right.
18	In response to her questions regarding the accuracy of	20	Q So, under the Management Plan the ecosystem would not
1 9	the statement, I believe your response was it could be	21	experience these different types of water years?
20	misinterpreted; is that correct?	22	A No, that's not true, because in the wetter years the
21	A Yes, those are average flows.	23	operations would release more water down the streams.
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24	Q But that's discretionary. The plan does not require	00041
25	, , , , , , , , , , , , , , , , , , , ,	1 A When the peak runoff occurs, and it has a different
	00038	2 period when it may occur, but typically it happens in those
1	MR. BIRMINGHAM: I wonder if the witness could be	3 months.
2	allowed to finish his response to the question before	4 Q To mimic the natural hydrograph or natural runoff
3	MR. DEL PIERO: Have you finished your response?	5 pattern, whatever phrase you are more comfortable with, isn't
4	A No, Ihaven't.	6 it correct that you would need to operate the diversion
5	MR. DEL PIERO: Then why don't you finish your	7 facilities to allow for very quick changes in flow terms?
6	response?	8 A Well, for Rush Creek, we have Mono Gate 1, so we can
7	· · · · · · · · · · · · · · · · · · ·	9 release any pattern that
8		10 Q I'm sorry, you are anticipating my questions.
9		11 Wouldn't you need the facilities to make those creek changes?
10		12 A Yes.
11		13 Q Why don't you tell us now, if you can, about the
12		14 physical ability of L. A.'s diversion facilities to make this
13		15 type of changes.
14 15	, , , , , , , , , , , , , , , , , , , ,	16 A Well, in Lee Vining Creek, we are limited since we 17 have no storage upstream, to the amount of water that is
16		
17		18 coming down the creek, so if we bypass all of the water down 19 the creek, that, then, would be the limit of the amount that
18	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20 we would release and how we could change the stream. No
19	5 7 5 1	21 matter what descending limb on a ramping requirement we
20		22 impose, if the runoff drops off quickly, more quickly than
21	•	23 that, then there's nothing we can do.
22		24 On Rush Creek, of course, we have Grant Lake, so we
23	And what is the distinction you are making there, Mr.	25 can release pretty much any pattern that is desired.
24	Hasencamp?	00042
25	A Well, the extent possible would be to let all the	1 Q So, is it your testimony, then, that the Rush Creek
	00039	2 facility is set up at this point to allow for instantaneous
1	•	3 response to changes in flow?
2		4 A Yes.
3	hydrograph in that the peak flows occur in June and July, and	5 Q And I believe you testified in response to Mr. Dodge's
4		6 questions that you are familiar with the continuous flow
5	Q But isn't it the case that the natural runoff pattern	7 record tracking the daily inflow fluctuation to Rush Creek;
6	will not be mimicked with regard to the water year type?	8 is that correct?
7		9 A Are you referring to this exhibit?
8 9	examples, but generally wetter years, more water will go down the creeks, and, of course, in the lower part of Rush Creek	10 Q I am referring to Well, I guess that's some of the 11 information, but let me ask you this: Are You familiar with
10		12 those continuous flow records?
11		13 A Generally, although I cannot cite them.
12		14 Q Would you agree that those records present as close a
13		15 picture as possible of the natural runoff into Rush Creek?
14		16 A No, they don't at all because Southern California
15	•	17 Edison
16		18 Q I understand
17	mimicking of the water year type? In other words, I	19 MR. BIRMINGHAM: Excuse me, Mr. Del Piero, again Ms.
18	understand it may occur in some years, but I'm asking you,	20 Koehler is interrupting Mr. Hasencamp before he has had an
19	isn't it the case that it doesn't have to occur in any year	21 opportunity to finish his answer. Would you instruct her to
20		22 allow him to finish.
· 21	· · · · ·	23 MR. DEL PIERO: Had you completed your response?
22		24 A No.
	A Well, the plan calls for a typical release of	25 MR. DEL PIERO: Go ahead and complete.
24		
25		1 A Southern California Edison stores its peak runoff and 2 then releases a much more attenuated flow then would be there
-		2 then releases a much more attenuated flow than would be there 3 naturally.
1 2	there is not a mandatory fixed and hard rule as to how that has to be completed.	3 naturally. 4 MS. KOEHLER: Q Do you anticipate that your Management Plan will
3	Q In fact, the plan provides substantial operational	5 result in daily release down Rush Creek that more or less
4	flexibility so you would never have to, unless that fit in with	6 mimic the pattern established by the daily inflow records?
5	the rest of the goals for the system in a particular time?	7 A 1 am not sure how the daily releases would work. We
6	A Well, certainly the entire system has to be looked at,	8 would have to check with our fishery expert. I have
7	including the Upper Owens River and all the reservoirs.	9 testified that a certain volume of flow in a given month
8	Q Isn't it correct that the natural runoff pattern from	10 would satisfy the requirements. How that should be done on a
9	an ecosystem perspective varies on a very short-term basis,	11 daily basis, other than what I have testified, I don't know
10	practically moment by moment?	12 how it would be.
11		13 Q When DWP releases only its minimum flows for Rush
12	August through April the flows change very slowly unless	14 Creek. isn't it true that these releases would have to be
13	there's a sudden rainstorm or something.	15 very constant or else allow it to fall below the level?
14		16 A Yes, those are daily minimums as well as monthly
15		17 averages, and 30 cfs in the summer is the minimum.
16		18 Q isn't it correct that under your plan when additional
17	•	19 releases are made to the stream beyond the fish flows, they
18		20 could be made in a very abrupt fashion, that is, very high
19		21 releases in one month followed by a sharp decline in the
20		22 next?
21		23 A Yes, that's similar to the hydrograph in those years. 24 Q Isn't it also correct that L. A.'s Management Plan
22		24 Q Isn't it also correct that L. A.'s Management Plan 25 provides enough operational flexibility that these additional
23		25 provides enough operational nexibility that these additional 00044
24 25		1 releases could be made in an unseasonable fashion? Let me
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give you an example. Doesn't the plan allow you to make high 2 4 3 releases to the creeks even during months when the natural 5 4 flows to those creeks would otherwise be very low? 6 MR. BIRMINGHAM: Objection, compound. 5 7 MR. DEL PIERO: Sustained. Break it up, because i 8 6 7 want to know the answer to both parts. 9 8 MS. KOEHLER: Q Let me ask you if my example is 10 9 correct, couldn't the Management Plan allow Los Angeles to 11 10 make very high releases to the creeks during months when the 12 natural inflow would otherwise be very low? 13 11 Except for Walker and Parker creeks which are 14 12 A 15 13 tributary to Rush Creek, the plan is not very restrictive on how the operations are to be performed, but certainly we 14 16 15 would make every effort to make that hydrograph. 17 Q But your plan doesn't require you to do that? 18 16 17 Not specifically. 19 Α 18 Q Your plan doesn't provide guidance to do that; does 20 19 ít? 21 20 Α No, it wasn't intended to. 22 21 Q Mr. Deas, I have just a few questions --23 MR. DEL PIERO: Twenty minutes. 22 24 MS. KOEHLER: I request another 20 or so. I think I 25 23 should be able to finish up in much less. 24 25 MR. DEL PIERO: Granted. 1 00045 2 1 MS. KOEHLER: Q Mr. Deas, is it your testimony that з LAAMP is fundamentally flawed as a tool for simulating the 2 4 Los Angeles Aqueduct system? 5 з 4 MR. DEAS: A I think that's what my testimony stated. 6 5 Well, is it also your testimony, then, that it cannot 7 0 6 be refined to serve as a useful tool to simulate the L. A. 8 Aqueduct system? 9 7 8 MR. BIRMINGHAM: Objection, argumentative. 10 MR. DEL PIERO: Overruled, you may answer the 9 11 question. 10 12 11 Well, they are in the process right now of improving 13 А 12 We will have to wait and see if that is sufficient. 14 it. MR. DEL PIERO: Excuse me, that is not responsive to 13 15 14 the question. 16 15 Α May I have the question again, please? 17 16 MS. KOEHLER: Q Let me try and clarify what I want to 18 17 get at. 19 18 MR. DEL PIERO: Restate your question. I want to hear 20 19 the answer. 21 MS. KOEHLER: Q Is it your testimony that LAAMP 22 20 21 cannot be refined to serve as a useful tool by the Board in 23 22 this proceeding? 24 23 I don't believe that is my testimony. 25 Α 24 Q You testified that it is fundamentally flawed, and I 25 am trying to reconcile what seems to be a conflict between 1 00046 2 1 your statement that the model is fundamentally flawed and yet 3 perhaps could be refined. Either it's beyond all hope, or 2 4 5 з it's useful in some way, so I'm simply trying to understand 4 what your testimony is in this regard. 6 5 MR. BIRMINGHAM: Objection, argumentative. 7 6 MR. DEL PIERO: Overruled. Answer the question. 8 MR. BIRMINGHAM: I don't believe there is a question 7 9 pending. 8 10 9 MR. DEL PIERO: Yes, there is. The last soliloguy Ms. 11 10 Koehler delivered was explaining what the question was. The 12 second response to the question was again nonresponsive, so 11 13 12 Mr. Deas, if you would be kind enough to answer the question. 14 13 It has been stated twice. 15 MR. BIRMINGHAM: I believe the last question that she 14 16 17 15 asked prior to the soliloguy was, is it your testimony that 16 it cannot be improved, and I have a pair of reading glasses I 18 17 would be more than happy to lend to Ms. Book. I believe he 19 expressly stated that, that is not my testimony. I don't 18 20 19 know how much more responsive that can be. 21 MR. DEL PIERO: Mr. Deas indicated that that was not, 22 20 21 I hope I am correct, was not his written testimony. The 23 question that was asked originally was restated again in a 22 24 23 different fashion so you could understand it was whether or 25 24 not you thought the model under discussion is capable of 25 being rehabilitated. That is my restatement again, Mr. Deas, 1 00047 2 1 for the third time of the concept that Ms. Koehler is asking. 3 2 Do you have an answer, yes or no? 4 5

3 Α It depends how far back in the process you wish to go. I outlined the fundamental steps of constructing a model. If you went to the conceptualization, the formulation and the application, and you found out there was a coding error, you would go back and correct it. When there are fundamental errors, you simply have to go back farther in the process. A lot of work has been done, a lot of good work has been done, a lot of data has been gathered, a lot of information has been learned, but it is a definition of how far back in the process you wish to go in order to fix the model, and in my opinion you have to go far back in the process. MS. KOEHLER: Q All right. Is it correct that although it is your testimony, as you have stated, that you believe the model is fundamentally flawed -- Are you saying these fundamental problems are solvable? Α I think I somewhat answered that in the last response. Q I just want to make sure we understand what you are saving. A You can go back. α Your written testimony also expressed some concern with the documentation provided for LAAMP. When were you or DWP first given the opportunity to critique the LAAMP documentation? 00048 I don't recall the exact date when I received it. Q Do you recall the year? Yes, I think early in 1993, maybe late 1992. Α a When did you or LADWP express your concerns with regard to the model documentation to Board staff? А I expressed my concerns to DWP. I didn't express my concerns to the Board staff. ۵ Are you aware of whether anyone from the Department of Water and Power expressed or related your concerns to the Board staff prior to commenting on the Draft EIR? А I can't answer that. Ω Do you know, Mr. Deas, whether prior to asking Jones and Stokes to prepare a model simulating the L. A. Aqueduct system, that the Board asked the DWP to do so? А I believe they did. Q Were you involved in that effort? А Very early on. Is it correct, then, that LADWP's attempt in Q developing such a model wasn't able to serve the analytical functions necessary for the purposes of this proceeding or the Environmental Impact Report development? MR. BIRMINGHAM: Objection, compound. MS. KOEHLER: A Let me make that easier, then. Is it correct that the Board's staff determined that L. A.'s initial attempt at developing such a model could not serve 00049 the analytical functions necessary for this water right proceeding? MB BRMINGHAM: Objection, calls for speculation. EL PIERO: Sustained. ME MB CEHLER: A Is it correct that Board staff rejected the first model presented to it by LADWP? MR. BIRMINGHAM: Objection, lacks foundation. MR. DEL PIERO: Sustained. MS. KOEHLER: I'm sorry, I'm having a tough time asking a question. Q Were you involved in the model originally developed by LADWP? Not to any degree. Α α Then I suppose I misunderstood your earlier response to my question. I thought you said you were involved from very early on. A The early phase of the model development were pretty much information meetings where State Board staff, Jones and Stokes, DWP sat down and said, what do we want. And did you remain involved in this process? a А When I was in the Department of Water, I remained peripherally involved. MR. DEL PIERO: What does that mean? A My involvement declined exponentially. MS. KOEHLER: Q Is it your testimony you do not know 00050 what the Board staff's reaction was to the first model submitted to it by the LADWP? MR. BIRMINGHAM: Objection, assumes facts not in evidence.

MR. DEL PIERO: Overruled, answer the question.

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6 MR. BIRMINGHAM: Excuse me, the question lacks 8 correct? foundation. I don't think there has been any evidence to the 7 9 MR. DEAS: A I don't think that's the question he 8 effect the model was ever submitted by DWP to Board staff. 10 asked. He asked if it was a replacement, and I said no. 9 If she would like to ask that question, then I won't have any 11 ο 10 objection. 12 MR. DEL PIERO: Your testimony is you reviewed the 11 13 12 documentation as part of the Environmental Impact Report and 14 13 all the submittals to the model? 15 14 A With respect to the Draft Environmental Impact Report. 16 15 MR. DEL PIERO: Were you not a party to the process at 17 16 the beginning? 18 17 I was involved, like I mentioned, very early in the 19 A 18 game. 20 19 MR. DEL PIERO: Will you answer the question, Mr. 21 Deas. 20 22 21 I was aware that the model was rejected. I don't know A 23 22 on what ground 24 MR. DEL PIERO: Proceed. 23 25 24 MS. KOEHLER: Q Is it correct that the first model 25 which L. A. originally developed was the basis for the 1 00051 2 1 development of LAASM? 3 2 A lot of the information used there was involved. Α 4 3 α Did you submit that documentation for LAASM? 5 4 Α I believe so. 6 5 n Was that documentation submitted to the Board and to 7 6 the parties in this proceeding? 8 7 I believe the Department of Water and Power submitted 9 A 8 it. I did not submit it. I think those steps have been 10 9 taken. 11 10 Q Are you satisfied that the documentation which you 12 11 personally provided for LAASM in this proceeding is sound and 13 is otherwise consistent with your standards for 12 14 13 documentation? 15 14 I didn't personally submit the document. 16 Α 15 Q I'm asking you about what you personally did do. 17 16 Well, I worked on the process with the Department of 18 Α 17 Water and Power, and what they submitted is what I would call 19 18 a very functional set of documentation, and if you were to do 20 19 a survey of models and model documentation in the 21 professional field, you would find that that is probably an 20 22 above-average set of documentation for a working model. 21 23 22 I would like to clarify what it is you were 24 α 23 responsible for in terms of submission to this Board. Aside 25 from what was actually physically submitted, did you prepare 24 25 documentation for the LAASM model? 1 00052 2 1 We put together a modeling group early in the process 3 А 4 so we could involve as many people in the DWP as possible, 2 3 and the whole entire group put together documentation. 5 4 I see. Do you feel that you are competent to discuss 6 Q 5 the quality of that documentation? 7 8 6 Α Yes. 7 ۵ Do you know whether or not all of that documentation 9 8 submitted in this proceeding? 10 was 9 That's it, that's what was submitted. 11 Α 10 Q I'm asking you about the work that you did together 12 11 with this group. Do you know whether all of that was 13 14 12 submitted? 13 All of the work which, I believe, is pertinent. 15 A 14 a 16 Do you recall Mr. Hasencamp's testimony last evening 15 with regard to the information submitted in this proceeding? 17 16 Very vaguely. I'm not sure. 18 A 17 α Mr. Hasencamp, if these questions are more correctly 19 18 addressed to you, it is of no concern to me who responds to 20 19 them. Is it correct that the actual outputs for the 21 20 Management Plan were not submitted with the documentation in 22 this proceeding? 23 21 MR. HASENCAMP: A Yes, that is correct. 22 24 23 a Is it also correct that none of the input assumptions 25 24 regarding the Management Plan were submitted in the documentation for this proceeding? 1 25 00053 2 Well, the Management Plan has a lot of input, so the 3 1 Management Plan in my testimony shows a lot of it, shows the 4 2 ones that we felt were the most important problems, so it is 5 - 3 4 sort of a summary. 6 5 Mr. Deas, I believe you answered in response to a 7 Q question by Mr. Dodge that LAASM is not being offered in this 8 6

Well, let me ask you if it is an alternative. MR. BIRMINGHAM: Objection, calls for speculation. MR. DEL PIERO: Overruled, answer the question. MR. BIRMINGHAM: Mr. Deas is not a representative of the Department of Water and Power. He is not qualified to state whether or not the Department of Water and Power is going to submit LAASM as an alternative. MR. DEL PIERO: Mr. Birmingham, we have got testimony here that Mr. Deas is an employee of the Department of Water and Power. Mr. Deas, during his initial presentation, indicated he was here on behalf of the Department of Water and Power. During most of his testimony he has talked about both LAAMP and LAASM. The question that was first put to him was whether or not his testimony was that LAASM would be offered as an 00054 alternative. He chose to restate the question being asked and suggested that the question that was asked by Mr. Dodge was, in fact, not the question put to him directly. Now you object, indicating he is not representing the Department of Water and Power. Can you explain to me what is going on? MR. BIRMINGHAM: Certainly I can explain, and I'm not trying to be obstreperous, I'm certainly not. Whether or not LAASM is going to be offered as a replacement to LAAMP is going to depend on a lot of factors. Mr. Deas is not the individual who is going to make that decision. Mr. Deas is not here as a representative of the Department of Water and Power. Mr. Deas is here as an expert witness called on behalf of the Department of Water and Power to express opinions concerning the adequacy of the LAAMP model. Whether or not LAASM will be offered as a replacement for or alternative for LAAMP is going to depend on what LAAMP looks like after it has been modified, and the Board has heard testimony about the modifications that are taking place on the model. But ultimately, the decision about whether or not the Department of Water and Power and the City of Los Angeles, party to this proceeding, are going to offer LAASM as an alternative or replacement is a decision that is going to be made in the future by the management of the Department of Water and Power in consultation with experts like Mr. Deas 00055 and Mr. Hasencamp, but that is a decision that is going to be made in the future. MR. DEL PIERO: Let me ask a question. Mr. Canaday, the process we are going through here is a process to amend the water rights licenses for the City of Los Angeles Department of Water and Power. Concurrent with this process is the preparation for ultimate certification of a final environmental document. Comments on that Draft EIR are required pursuant to CEQA during the circulation period. Parties that have the opportunity to comment on that environmental document are afforded that opportunity pursuant to statute during that circulation period of the draft. Has the circulation period been closed? MR. CANADAY: Yes, it has. MR. DEL PIERO: Mr. Birmingham, in response to your comment, when does Los Angeles anticipate presenting LAASM as an alternative to be considered inasmuch as a comment period on the Draft EIR has been closed? MR. BIRMINGHAM: The comment period on the Draft EIR has been closed. The Department of Water and Power submitted significant comments to the State Board on the Draft EIR specifically on LAAMP. Ultimately, this Board has to make a decision about certification of the Draft EIR or the Environmental Impact Report, and it must make a decision 00056 about which model will be used, whether any of them will be used. Mr. Vorster is a modeler, and he may come in with a model, but we cannot stand here today, as Mr. Deas has said

in his testimony, and say LAAMP won't work, because LAAMP is currently being revised.

- And ultimately this is, as the Hearing Officer has
- noted, a proceeding which is really on two different tracks.
- We are involved in an evidentiary hearing at which the 9
- parties are to submit evidence, and at the same time there is

proceeding as an alternative to the LAAMP model; is that

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an Environmental Impact Report that's being prepared, and the the adoption of CEQA, the maximum opportunity for not only 10 12 two processes are sometimes at odds with one another. 11 13 decision-makers, but for the public to understand what is But the evidence that's submitted in this hearing 14 12 going on, what the project is, what the potential impacts certainly will affect the decision of the State Board. It is 15 are, what the potential mitigations are. 13 So, if, in fact, LAASM was not presented as a 14 not going to be simply what is in the Draft EIR, or the final 16 impact report that is ultimately certified. 17 15 potential alternative in terms of the CEQA review process, 18 16 The question there is going to be whether or not that that opportunity for LADWP at this point has been foreclosed, 17 document contains enough information to permit the Board to assuming that the comment period remains closed and no other 19 18 make an informed decision in terms of impact on the 20 extraneous activities go on. So that's off the table. 21 What we have here now is the water rights portion in environment, which is a different question than we are 19 20 addressing in this hearing. 22 this concurrent process. The water rights portion of this I know that's not responsive to what you have asked, 21 23 concurrent process affords parties to this process the but I really can't answer the question because we may never 24 opportunity to present evidence, to present witnesses for 22 offer LAASM as a replacement. It really is going to depend 25 23 both direct as well as cross-examination, afford the general on the product that is produced by Jones and Stokes as part 24 00060 25 of this process. public again the opportunity to understand what is going on 00057 in a public session where as much information as is possible 2 MR. DEL PIERO: Thank you, Mr. Birmingham. Mr. 1 3 is to be disclosed either by counsel for or opposing counsel 2 Canaday, do you have a comment? 4 for the various parties are able to elicit within the MR. CANADAY: Yes, I do. In response to what the з 5 process. Board staff is doing in regard to LADWP's and other's 4 6 In the event that the Los Angeles Department of Water 5 comments on the Draft EIR, I called a meeting and invited 7 and Power wishes to propose LAASM as an alternative to LAAMP LADWP staff, Mr. Deas and Mr. Vorster, and our technical 6 8 as part of the water rights process, it would normally take staff, and our engineering staff, and they met and had full 9 place during the course of this process. It would normally 7 8 discussions and met face-to-face, identified things that 10 take place during the course of the presentation of evidence needed to be corrected. We requested the additional funding on behalf of the Los Angeles Department of Water and Power. 9 11 10 from the Department to make those corrections. That funding 12 Now, Mr. Deas and Mr. Hasencamp are the last panel to was provided. Those corrections are being made at this time. 13 be presented by the Los Angeles Department of Water and Power 11 We intend to use the correct LAAMP model to respond to 12 14 in regard to direct testimony. The reason this issue has 13 comments to the Draft EIR. We will be providing that updated 15 come up was a question asked by Ms. Koehler as to whether or not Los Angeles DWP proposes to introduce LAASM as an model to those members, Mr. Hasencamp, Mr. Deas, and Mr. 14 16 alternative to LAAMP. That opportunity is not available 15 Vorster, for a seven-day period for them to run the model 17 themselves to satisfy themselves that the corrections that we 18 under CEQA because the comment period for the CEQA process is 16 17 have agreed upon have been made, and after that seven-day 19 closed. 18 period, Jones and Stokes is directed to use the model to 20 This is the last panel for direct testimony on behalf 19 prepare the final EIR. 21 of Los Angeles Department of Water and Power in terms of the We have not taken any steps to consider LAASM as a evidentiary process. So, the presentation made by Mr. 20 22 replacement for LAAMP for the final EIR. 21 23 Birmingham is Mr. Deas is not in a position to make that MR. DEL PIERO: Just for the record, during the recommendation. If, in fact, that is the case, I will be 22 24 23 comment period on the Draft EIR, the LADWP in their comments 25 happy to sustain your objection, Mr. Birmingham. But I would on LAAMP proposed utilization of LAASM as an alternative? 24 00061 25 MR. CANADAY: No. 1 point out to you, however, that this is the only opportunity 00058 2 and the last opportunity you have in order to make that presentation, so if you wish to continue to take that MR. DEL PIERO: I am going to rule on this so we can 3 1 position, sir try and get this clarified. There is a concurrent process 2 4 3 going on. There is a water rights process going on here. 5 MR. BIRMINGHAM: Well, if I may address the last point The CEQA process is going on here. 4 6 that was made by the hearing officer, this is something Mr. 5 Let's talk about CEQA first. CEQA is an Act adopted Frink and I discussed prior to the commencement of the 7 6 by the State Legislature precisely for the purpose of 8 proceedings. affording decision-makers and the public the opportunity for MR. DEL PIERO: I am not discussing with either you or ۵ 8 maximum understanding and exposure of the environmental 10 Mr. Frink up until this time, but I am pointing this out issues and potential impact that might result from decisions because Los Angeles Department of Water and Power has chosen 9 11 10 made by governmental entities. 12 not to introduce LAASM as an alternative to this point, and This process is subject to the California you've clearly stated that. It seems to me, and the reason 11 13 12 Environmental Quality Act, and that's why the Draft EIR has, 14 why there is a period of comment on the Environmental Impact 13 in fact, been prepared. 15 Report, is that both the CEQA process and the water rights 14 As part of the CEQA process, the Draft EIR is 16 process are expressly for the purpose of having not only the 15 circulated. It was the opinion of the Legislature in 17 decision-makers, but the public, understand what's going on. 16 approving CEQA that a draft report ought to be circulated 18 And there is an express intent on the part of the Legislature 17 expressly for the purpose of providing maximum opportunity to 19 in terms of the CEQA process to get as much information comment on any potential deficiencies or inadequacies in that 18 20 available to that process as possible. Artificially 19 report prior to the report being certified as a finalized 21 withholding that information not only causes a detriment to document by the decision-makers. 20 22 the process, but at least at this point in time has That circulation period and the activities of the effectively, to my mind, foreclosed Los Angeles Department of 21 23 Water and Power from being able to comment on that decision-making body during that circulation period are 22 24 23 spelled out pretty clearly. The clearinghouse circulates 25 environmental document. So, if you wish to have something 24 that document to all the affected parties. Everyone gets the 00062 entered into the current report in terms of these two opportunity to review the draft document. Everyone gets the 25 1 processes, it is now. 00059 2 1 opportunity to present comments to the decision-makers. All 3 MR. BIRMINGHAM: In fact, we have introduced in this hearing process as an exhibit LAASM and all other supporting those comments are gathered back in. The comment period is 4 2 5 documents for LAASM, and at the conclusion of this panel, I з closed. Then ultimately the decision-makers have to certify 4 a final EIR. 6 had intended to move for the admission of that as evidence in this proceeding. 5 The purpose for the circulation period is for the 7 6 review of that document within the process provided for it by 8 Now, with respect to this being our last opportunity 7 the State clearinghouse to get everyone's comments up front. 9 to offer that as an alternative, the State Board staff is 8 It is not for people to hold back, or not to comment on 10 participating in this proceeding as a party and submitted LAAMP as an exhibit in the process. 9 perceived deficiencies in the document. It is to provide 11 within the context of the procedure and the public policy Based upon the comments that were made by the 10 12 interest that the State Legislature expressed at the time of Department of Water and Power in its comments to the Draft 11 13

14 EIR and the written testimony that was submitted by the 16 Department of Water and Power, the meeting which Mr. Canaday 15 17 referred to did take place, and Mr. Frink and I prior to the 16 18 17 commencement of this proceeding discussed the potential need 19 to modify LAAMP, and you indicated to me at that time, and I 18 20 19 believe consistent with the procedure for this proceeding, 21 but what was being submitted by the State Board staff in its 20 22 21 case in chief in this proceeding was LAAMP. Ultimately, on 23 22 its rebuttal case, it would present the modifications that 24 23 were then contemplated and are currently being performed, 25 24 that is, Mr. Canaday said, that will be presented, it is my 25 understanding, in the rebuttal case by the State Board staff. 1 of model do we want, and how can we go about obtaining it. 00063 2 1 And I don't like to use the term rebuttal, because the 3 2 State Board staff has not been advocating one position or 4 3 another, but that is how I would term it in these 5 proceedings. 4 6 5 Once we have had the opportunity to review the 7 6 modifications to LAAMP and Mr. Canaday referred to the 8 7 seven-day period which was agreed to, and once there has been 9 before I start? 8 opportunity to review the run itself and see if it works, the 10 9 Department of Water and Power may conclude that it would not will proceed. 11 10 want to propose replacement of LAAMP with LAASM. 12 11 But we may want to propose a replacement and, Mr. Del 13 Piero, that would be an abuse of discretion of authority with 12 14 the State Board to permit the State Board staff to introduce 13 15 a modified LAAMP in its rebuttal case and then not permit the 14 16 15 Department of Water and Power in its rebuttal case to say 17 16 that the modifications to LAAMP are insufficient and, 18 17 therefore, at the close of the presentation of all of the 19 18 evidence submit LAASM as a replacement. 20 19 MR. DEL PIERO: Mr. Frink, do you have a comment on 21 of the court. 20 this? 22 21 MR. FRINK: Yes, I do have a comment. Throughout the 23 process we have had a number of questions regarding the 22 24 23 timing of determining fishery flows, of going ahead with 25 24 other aspects of the EIR, of getting the Draft EIR in before the hearing or the desirability on the part of some of the 25 1 00064 2 1 parties to prepare a final EIR before the hearing began, and 3 yet we are under a direction from the court to complete the 4 2 3 Board's suggested review by September 16 next year, so we 5 weren't able to resolve all of the timing questions as Mr. 6 4 5 Birmingham and Mr. Kennedy have both mentioned. 7 The revisions to LAAMP are underway. The testimony 8 6 concerning those revisions will be presented in this hearing 9 7 in the context of rebuttal evidence, and I think because of 8 10 the timing difficulties, that it probably is necessary and 9 11 appropriate for the Department of Water and Power and other 10 12 parties to await making their final recommendations on the 11 13 basis of the entire evidentiary record until those revisions 12 14 13 and any other relevant information are in. 15 14 I would agree that it would be inappropriate to hold 16 the presentation of LAASM entirely until rebuttal, but I 15 17 16 don't believe that has been done. What we have now is a 18 question of what will be the recommendation of the various 17 19 18 parties, and I think in view of the fact that all of the 20 evidence regarding the various models isn't in, it probably 21 19 20 is necessary to await submission of that evidence before 22 21 final recommendations can be made. 23 MR. DEL PIERO: Mr. Dodge. 24 22 25 MR. DODGE: Reluctant as I am to agree with Mr. Frink 23 24 and Mr. Birmingham, I do think in light of the ongoing 25 revisions of LAAMP, that it would be a mistake to bind any 1 00065 2 party to a position as to whether a revised LAAMP is 1 3 2 satisfactory, and I think that Mr. Birmingham correctly 4 points out, and I will accept his representation, that LAASM 5 з is being introduced as an exhibit in its entirety, and I 6 4 5 think that again we are going to have to await the reviewed 7 6 LAAMP before any parties can be bound as to what its position 8 7 9 is. MR. DEL PIERO: Let me make an observation. Mr. 8 10 9 Birmingham, you have another comment. Ms. Koehler, you have 11 10 been remarkably quiet here all this time. Am I missing 12 something here? 13 11 MS. KOEHLER: I am waiting my turn. 12 14 15 13 MR. DEL PIERO: Mr. Birmingham. 16

with the impression that the Department of Water and Power was artificially withholding evidence or withholding comments

in the Draft EIR. We did comment quite extensively on LAAMP

in our comments to the Draft EIR, and the State Board staff

was aware, I believe, of the preparation of LAASM because it

was something that was initiated at the request of the State

Board early on in this process.

As Mr. Deas did testify, there were meetings when the State Board staff got together with DWP, Jones and Stokes.

and representatives of the other parties and said, what kind 00066

And so, this has been a dynamic process, and I don't want the State Board members to feel that the Department of Water and Power has been withholding anything, and I would hope that the State Board staff would concur that we have not been artificially withholding evidence in this proceeding. That's my last comment. MR. DEL PIERO: Ms. Koehler. do you have any comments MS. KOEHLER: I would like you to finish, and then I MR. DEL PIERO: Let me begin by saying that no matter how much the parties would like to believe it to be true, no matter how much they would prefer it to be that way, the State Board staff is not the State Board. The problem that I see here with this process is because there is a concurrent process going on, both processes ultimately have to dovetail at a specific point in time in order for the State Board to be able to render a legally sufficient and defendable decision in regard to this matter pursuant to the direction The Draft EIR comment period is closed. LAASM was not submitted as part of it. It strikes me that if LAASM is allowed to be introduced in the evidentiary record on the water rights and undermines the validity of the Environmental 00067 Impact Report, representations by counsel for L. A. Department of Water and Power I believe to be honest and truthful. Alternatively, however, the effect of that taking place would be to undermine the validity and adequacy of the Environmental Impact Report in order for the Board to ultimately render a decision that meets the requirements of the California Environmental Quality Act. I'm sure that thought has not escaped a number of the minds in this room who are far more adept and flexible in terms of understanding the complex issues that are here. This poses a serious problem, ladies and gentlemen. It poses a serious problem from an evidentiary standpoint, and it poses a serious problem from the standpoint of the Board being able to actually render a decision within the timeline provided to it by the court. It would be my opinion if LAASM is introduced in the evidentiary record, that significant supplement to the Environmental Impact Report might be necessary. Whether or not it is necessary remains to be seen, and I have to review that, but at least at this point in time there is a serious question in my mind as to whether or not the Environmental Impact Report would be adequate to evaluate. Now, let me ask you a guestion, Mr. Birmingham. Will you represent to me today that Los Angeles Department of Water and Power will not challenge the adequacy of the EIR on 00068 the ground of the fact that LAASM has not been adequately evaluated should you choose ultimately to introduce it? Because that goes to the crux of what this Board is charged with, Mr. Birmingham. This Board is charged with rendering a decision on behalf of the public of the State of California. That's what our responsibility is. Our responsibility is completing an Environmental Impact Report that meets the

requirements of the California Environmental Quality Act,

that meets the requirements laid out for us by the State

Legislature, and meets the requirements laid out for us by the court. That is our charge.

Our charge is to do what complies with the law in the

best interests of the residents of this State given our

responsibility and given the direction that this Board has

received from all of those different entities that have

jurisdictional authority over how we conduct our business. Now, if you would be kind enough to answer my 17

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20 But it is our position that entry into this 18 question. 19 MR. BIRMINGHAM: Before I answer your question, I need 21 stipulation does not -to make one comment, and then I'm going to ask for a recess 22 MR. DEL PIERO: Mr. Birmingham, I'm not asking you to 20 before I answer your question. I have to confer with Mr. 23 21 stipulate. I asked you simply to answer a question. If you Downey, a representative of the City Attorney's Office. 24 wish to tell me you won't, that's fine. If you wish to tell 22 I agree completely with what you just stated 25 23 me you will, that's fine, too. I need to understand what has concerning the dilemma that this creates because of the dual 24 00072 1 gone on in terms of the process by which comments to the 25 nature, the dual processes that we are following, and it was Environmental Impact Report have been made and evidence has 00069 2 1 for exactly that reason that we as counsel for the Department 3 been introduced in this concurrent process in order to of Water and Power suggested to the State Board staff, who is 4 guarantee that the Board has a complete record on both counts 2 responsible for the preparation of the Draft EIR, and then 5 3 to render a decision. I don't want to be confronted with the 4 ultimately certified by the Board, but we suggested to the 6 situation where at the end of this evidentiary process, 5 staff that it would be virtually impossible to conduct this 7 because of the way evidence has been introduced by the 6 evidentiary hearing until there had been a final EIR 8 various parties, the Board is in the position of having 7 certified, and we propose that --9 participated in a tremendous exercise, tremendous expenditure MR. DEL PIERO: I understand that process. I 8 10 of public funds, and the tremendous commitment of time on the 9 understand what's gone on. I also understand lateness in 11 part of this agency, only to find it's in a position of not 10 terms of responses to Draft EIR's by a variety of parties. 12 being able to render a legally adequate and defensible 11 Finger pointing at this point in time is not what I'm 13 decision. Understand? MR. BIRMINGHAM: Yes, I do, and I concur completely, interested in. If you want a recess in order to discuss the 14 12 13 matter with your client, go ahead and do that. I am 15 and, in fact, it would be our view, the Department of Water concerned at this point with what the business of this Board 16 and Power's view, that the only basis for challenging the 14 15 is about. 17 adequacy of the EIR would be on the CEQA record, and the MR. BIRMINGHAM: I am not attempting to finger point, 18 16 evidence that is submitted in this evidentiary hearing, as 17 all I'm saying is we recognized that and tried to address the 19 the Hearing Officer has noted, is not part of the CEQA 18 very concerns that you are now raising with the State Board 20 record, but that doesn't necessarily mean that evidence that 19 staff members who are designated by the State Board staff as 21 was not included in the comments to the Draft Environmental Impact Report can't be received in this proceeding, nor does 20 the contact people for communication with the Board prior to 22 21 the commencement of the proceeding. 23 it mean that in analyzing the environmental effects, the 22 MR. DEL PIERO: Again, Mr. Birmingham, that is not the State Board staff cannot use evidence that was submitted in 24 23 point. The point here has to do with the CEQA process in 25 this proceeding. 24 terms of commenting on an administrative draft. It's got to 00073 It is simply this, if someone wishes to challenge the 25 do with the development of LAASM. It's got to do with time 1 00070 2 adequacy of the Environmental Impact Report, the inadequacy limits in terms of Los Angeles Water and Power's comments on 1 needed to be raised in connection with the Environmental з 4 the administrative draft. It's got to do with whether or not Impact Report process. I think we are saying exactly the 2 3 they intended, or ultimately intend, to offer LAASM as an 5 same thing. alternative to LAAMP, whether or not it was appropriate for 6 MR. DEL PIERO: Okay. 4 5 them to have commented on that during the comment period on MR. BIRMINGHAM: And we do not intend, we will not 7 the Draft EIR, and then furthermore and most importantly, it 6 8 challenge the adequacy of the Environmental Impact Report 7 goes to the ability of this Board to render a decision. 9 because it does not adequately analyze LAASM. That was never 8 The activities of all the parties here, what's gone on 10 our intent. MR. DEL PIERO: Thank you. before, is to my mind not something that is particularly 9 11 MR. BIRMINGHAM: But in this process, whether or not 10 important. I want an answer to that so that my Board can be 12 11 in a position of rendering a decision that is sufficiently 13 we will suggest that LAASM should be used as an alternative adequate in terms of the law, to do what the courts told us to LAAMP in this process, this evidentiary hearing, is a 12 14 13 to do, the Legislature told us to do, and what the public 15 decision we cannot make today. If we are forced to make it deserves. 16 14 today, based upon the evidence as it exists right now, we 15 So, if you want to take a recess, we will recess for 17 would say, yes, we are going to submit LAASM as an 16 18 alternative because LAAMP, as it exists today, has the 15 minutes. (Recess.) 19 problems that we have discussed. 17 MR. DEL PIERO: This hearing will again come to order. Whether or not LAAMP, as it is being modified, will 18 20 19 Mr. Birmingham 21 have those problems is something we can't even begin to MR. BIRMINGHAM: As I understand the question that was answer today because we haven't seen the modifications. 20 22 21 put to me by the Hearing Officer, it was whether or not the 23 But ultimately what we may propose doing, after we have an opportunity to analyze LAAMP, is we may propose that 22 Los Angeles Department of Water and Power would stipulate 24 23 that it will not challenge the certification of the 25 the Department of Water and Power be permitted to use LAASM 24 Environmental Impact Report on the ground that it does not 00074 25 adequately address LAAMP. 1 as its operational model in implementing the conditions that are imposed by the State Board staff as the result of these 00071 2 MR. DEL PIERO: It was the adequacy of the 1 3 proceedings. Environmental Impact Report. 4 2 Now, that doesn't affect the Environmental Impact MR. BIRMINGHAM: On the ground it does not -- I want 5 3 Report process. MR. DEL PIERO: You misspoke, the conditions will be to make sure I understand what I am agreeing to, that the 4 6 5 Department of Water and Power of the City of Los Angeles will 7 imposed by the State Board. 6 not challenge the adequacy of the Environmental Impact Report 8 MR. BIRMINGHAM: What did I say? on the ground that it does not adequately address LAASM. MR. DEL PIERO: State Board staff. (Laughter.) The 9 7 MR. DEL PIERO: It was the adequacy of the 8 10 record is real clear. 9 Environmental Impact Report. 11 MR. BIRMINGHAM: Let me restate it so the record is MR. BIRMINGHAM: On the ground it does not -- I want 10 12 clear, that we may propose that LAASM be used as the operational model to implement the conditions that are to make sure I understand what I am agreeing to, that the 13 11 imposed by the State Board as the result of this proceeding, 12 Department of Water and Power of the City of Los Angeles will 14 not challenge the adequacy of the Environmental Impact Report 15 and that is what LAASM was developed for, not as something to 13 14 on the ground that it does not adequately address LAASM. 16 be analyzed as part of the Environmental Impact Report, but That is something which the Department of Water and Power whatever the conditions are, we may want to use LAASM as the 15 17 16 will agree to. It was never our intent to challenge the 18 model to implement those conditions. 17 adequacy of the Environmental Impact Report on its failure to 19 MR. DEL PIERO: Thank you. 18 analyze LAASM, because as indicated, we did not include LAASM 20 Now, where we began this process, Ms. Koehler, you were asking Mr. Deas whether or not it was the intention of 19 in our comments. 21

22 23	Los Angeles Department of Water and Power to introduce LAASM in this proceeding. Mr. Deas, I assume you don't know.	24 1 25	i i i i i i i i i i i i i i i i i i i
24	MR. DEAS: A I don't know.		00078
25	MR. BIRMINGHAM: I think her question was, was it	1	A I wondered if she had a different set of purposes.
	00075	2	MR. DEL PIERO: Why don't you go ahead and answer the
1	intended to be offered as a replacement for LAAMP.	3	question.
2	MS. KOEHLER: As an alternative to LAAMP.	4	A The purpose for the development of the Los Angeles
3	MR. DEL PIERO: Again, the response, Mr. Deas.	5	operating model was to analyze different hydrologic events
4	MR. DEAS: A I don't know.	6	given operations under which the EIR alternatives would fail
5	MS. KOEHLER: It may be after this long dialogue	7	into roughly as at the basic level, which I believe you call
6	appropriate to ask you for a ruling on the question, if I	8	analytical they are both system models which are to move
7	may. I understand fully Mr. Birmingham's position that Los	9	water.
8 9	Angeles is not yet in a position to decide how it would like to ask the Board to use LAAMP. I hope I am accurately	10	MS. KOEHLER: Q Mr. Deas, in developing LAASM, I am
10	characterizing Mr. Birmingham's concerns, and I appreciate	11	still not certain you understand what I am asking you. In
11	that. I would like to ask you for a ruling on whether it is	13	developing LAASM, did you or any of your planning people ever
12	appropriate for me nevertheless at this time to ask Mr. Deas	14	consider the purposes for which the State Board staff was interested in having an analytical model of the Los Angeles
13	the purpose for which LAASM was developed. It is an exhibit.	15	Aqueduct system?
14	I assume it will be admitted into evidence, and I think	16	A Yes.
15	regardless of how Los Angeles ultimately recommends to the	17	
16	Board that it use LAASM, that it will be useful in this	18	purposes?
17	proceeding to explore how it was developed and the purposes	19	A In certain instances the Department of Water and Power
18	for which it was developed.	20	knew that there was going to be a potentially wide range of
19	MR. BIRMINGHAM: We have absolutely no objection to	21	alternatives presented by the Draft EIR, so the model was
20	those questions to the extent Mr. Deas knows the answers.	22	constructed with enough flexibility to allow analysis of
21	MR. DEL PIERO: Please proceed.	23	those so the Department with their own model could analyze
22	MS. KOEHLER: Q Mr. Deas, as I just said, turning	24	the impact of the potential Environmental Impact Report.
23	away from the question of how Los Angeles ultimately	25	Q I'm not sure if you have answered my question. I'm
24	recommends the Board to use or not use LAASM, you were		00079
25	instrumental in the development; is that correct?	1	asking you about, and I'm sorry if it seems at times I am not
	00076	2	being clear
1	MR. DEAS: A Yes.	3	MR. DEL PIERO: Ms. Koehler, if you would like another
2 3	Q Is it correct to state that LAAMP is a planning model for the Lee Angeles Aguedust system?	4	20 minutes, you are welcome to have the additional 20
4	for the Los Angeles Aqueduct system? A LAAMP?	5	minutes.
5	Q LAAMP.		MS. KOEHLER: Thank you.
6	A I believe that's what the State Board staff termed it.	1 8	MR. DEL PIERO: I really sincerely hope we are going to complete this panel by 1:30 today.
7	Q By your answer, are you suggesting - I am asking you.	9	MS. KOEHLER I really don't have any more questions,
8	A Yes, it is a planning model.	10	Mr. Del Piero.
9	Q In your opinion, in your development of LAASM, did you	11	MR. DEL PIERO: I am granting you the 20 minutes
	intend it to be a similar type of planning model?	12	because it is taking a long time to get answers to what I
11		13	think are very simple questions.
12	Q Well, you understand there to be a distinction between	14	MS. KOEHLER: LAAMP was developed, just so we are
13	a planning model and an operations model?	15	clear, to deal in part with the CEQA process as we have
14	A Often in my field people would term LAAMP or LAASM a	16	discussed it at some length at this point. It was also
15	planning operation model.	17	developed, would you agree, to help this Board in this water
16	Q Then let me try to get to it this way. In your	18	rights proceeding?
17	development of LAASM, was it your intention it be used for	19	MR. BIRMINGHAM: Objection, compound.
18	the same purposes for which Jones and Stokes developed LAAMP?	20	MR. DEL PIERO: Sustained.
19	A I believe, in my opinion, that Jones and Stokes	21	MS. KOEHLER: Q Would you agree that the LAAMP mode
20	developed LAAMP for analyzing impacts of the environmental	22	was developed to aid this Board in making its decision in the
21	impact review process. I believe that the City of Los Angeles developed this model, LAASM, so they could use it to	23	water rights proceeding?
22 23	operate their own system. It was not necessarily constructed	24	A Yes. Q And you have testified, I believe, that you are
24	for the environmental impact process. It was an in-house	25	Q And you have testified, I believe, that you are 00080
25	model.	1	familiar with the purposes which the State Board, through its
	00077	2	staff, set for the development of such an analytical model?
1	Q Aside from the process for which it was developed, I	3	A Yes.
2	am asking you about the purpose for which it was developed.	4	Q In developing LAASM, were those purposes specifically
3	The State Board staff, as you identified, had a particular	5	to be addressed? I am not talking about whether it was
4	set of purposes for which it wanted to use a model, and Jones	6	in-house or out-house, I am talking about the information
5	and Stokes then developed a model to address those purposes,	7	that the model was designed to generate.
6	and that's LAAMP. My question to you is, the development of	8	A Yes.
7	LAASM, was it developed to perform the same types of	9	Q So, is it your testimony, then, that LAASM and LAAMP
8	analytical function? I understand it is an in-house model,	10	have overlapping purposes?
9	but were the same purposes to be addressed in this model	11	A Well, they model the same system, so, yes.
10	Let me ask that question first.	12	,
11	A Could you define the purposes for which LAAMP was	13	should only be run by someone familiar with the Los Angeles
12	developed?	14	Aqueduct system; is that correct?
13	Q I prefer not to, Mr. Deas. I'm asking you about that.	15	A Yes.
14	A Then I have to assume it was developed for the purpose	16	
15	of analyzing system impacts due to different environmental	17	may have some difficulty running the model without your
16	impacts of the alternatives.	18	assistance or assistance of some other expert?
17	Q Let me stop you there. Is it your testimony that you den't know the purpage for which LAAMP was developed?	19	A That may be the case.
18	don't know the purposes for which LAAMP was developed?	20	Q Is it correct that LAASM, as submitted to the Board in this proceeding, does not have the capacity to specify.
19 20	A I believe that LAAMP was developed for analyzing	21	this proceeding, does not have the capacity to specify minimum releases to the Upper Owens River if Mono Lake is
20	system impacts, water supply, export from the Mono Basin, Mono Lake response, export to L. A. for the Los Angeles	22	below a specific target? Perhaps I can clarify that question
22	Aqueduct system for the EIR process.	23	with an example. Isn't it correct that your model is driven
23	MR. DEL PIERO: Mr. Deas, if that is your belief, then	25	by the target lake level for each month?
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00081 2 Los Angeles is able to spread in a single year from Owens 1 Ā This is LAASM, correct? 3 Valley? Q 2 LAASM. 4 No, I can't. It is not a constant amount, because if А з 5 A I'm just thinking to answer your question. I believe you spread a lot in one year, the next year you cannot spread 4 that is correct. 6 quite as much because the ground is already saturated, so it 5 Q And so once the target is reached, all other available 7 is dependent on several variables. 6 8 water is exported to the Upper Owens; isn't that correct? Q Is there included in your analysis of the Los Angeles 7 Not exactly, because we have to meet fish flows and 9 Aqueduct system the assumption that the Lower Owens River 8 lake level, and we must obtain the predetermined Grant Lake 10 will be rewatered? 9 target storage for the month. Once all those have been 11 No. А obtained, then we can go ahead and export water. Q 10 12 Have you included in this analysis the potential for MS. KOEHLER: I think I'm through with this witness. 13 11 rewatering historic wetlands east of the Lower Owens River? MR. DEL PIERO: Thank you very much. Ms. Scoonover. 12 14 Α No. MS. SCOONOVER: Yes, and I will be brief. 13 15 Q Are you familiar with the historic wetlands in the CROSS EXAMINATION 14 16 Lower Owens River area? 15 by MS. SCOONOVER: 17 Α No, not really. That is all for you, Mr. Hasencamp. 16 ۵ My name is Mary Scoonover, and I represent the State 18 ۵ 17 Department of Parks and Recreation and the State Lands 19 Mr. Deas, can you give me an example of the proposed 18 Commission. 20 change to the LAAMP model which you would consider to be Mr. Deas, I have what should be a couple of fairly 19 21 conceptual? 20 quick questions for you. Would you agree with me that the 22 Yes. For example, the Mono Basin exports -- I'm going А refinements now being made to the LAAMP model are refinements 23 21 to have to give you an example to explain this. In 1983, we 22 to correct a few coding errors and to expand the capability 24 had a large runoff year in the entire Eastern Sierra, and the 25 23 of LAAMP? system essentially filled up the reservoirs and the dams, and 24 Α Yes. 00085 Q 25 1 at that time you certainly don't want to export additional Would you agree with me that LAAMP is conceptually 00082 2 water from Mono Basin when you are already at capacity or at 1 sound? 3 near capacity of the system. As an improvement to LAAMP, it would be logical to 2 Could you restate that? 4 Α 3 ۵ Would you agree with me that LAAMP is conceptually 5 essentially look down system prior to exporting from the Mono 4 sound? 6 Basin, so instead of blindly exporting from the Mono Basin to 5 No. 7 an already at-capacity or near-capacity system, and perhaps А spilling that water to Mono Lake or putting at risk your 6 Q Then, Mr. Deas, would you characterize these changes 8 7 that are being made that we have just discussed as being 9 reservoirs, logic would be to first look down and say, well, 8 conceptual changes? 10 I really can't. The logic would say there is no room, so I'm 9 I don't know the exact list of changes that are 11 not going to export. Α 10 occurring. MR. BIRMINGHAM: I believe Mr. Deas might have 12 11 0 Is it your understanding that some of these are 13 misspoke when he said Mono Lake as opposed to Owens Lake. 12 conceptual changes? I am sorry, the spill would be to Owens Lake. 14 А MS. SCOONOVER: Q That kind of change to the model 13 Some of them are. 15 А cannot be made with specific user input, but must be a 14 Q Mr. Hasencamp, I have a couple of questions for you, 16 15 and they have to do with some of the operational restrictions 17 conceptual change then? that you discussed in your testimony, and then you discussed 18 Yes, because specific years of input in this case, in 16 with Mr. Birmingham. One of the operational restrictions was 19 LAAMP each month, they usually specify a monthly export. So, 17 that in wet years you are trying to help minimize Mono Lake 20 April through March you can enter a number. However, you 18 19 level fluctuations, and you explained yesterday that you were 21 cannot change that number for a wet year or a dry year, and intent on, I believe, not increasing the lake level too the number is not adjusted for capacity down system. 20 22 21 rapidly and not to too high a level. Is that an accurate 23 Q In general, Mr. Deas, how would you characterize a summarv? 24 conceptual change to LAAMP as opposed to a refinement? 22 23 MR. HASENCAMP: A Well, I have said that if there was 25 Maybe they are the same thing. They may be the same Α a repeat of the wet period, 82 to 86, that we could change 24 00086 thing. our operations to prevent the lake from rising as quickly as 1 25 So, any refinement in LAAMP or most refinements in 00083 2 Q 1 the model has indicated. 3 LAAMP would be considered conceptual changes to the model? 2 Q And you stated there were a couple of specific 4 No, I'm sorry. Refinement might be improving the use з negative impacts associated with the rising lake level; 5 of interface or printing out a different value that is impacts to tufa were one of those. 4 6 currently not printed out, so I would say refinement may also include correcting LAAMP to properly look down system. 5 Yes. 7 6 If you were to assume that these negative impacts So, correcting a coding error, I believe you agreed Q 8 7 associated with the higher lake levels have been overstated with me earlier, was a refinement to LAAMP, as well as 9 8 so as to actually be insignificant, would that change the 10 expanding the capabilities of LAAMP; would you call those q operational constraints of the Los Angeles Aqueduct in a wet 11 refinements? MR. BIRMINGHAM: Objection, compound. 10 year? 12 MR. DEL PIERO: Sustained. Well, we are looking at the whole Mono Lake system, 11 А 13 12 and it is my understanding that the rapid rise in the lake 14 MS. SCOONOVER: A I asked you whether it was your level has some detrimental effects, so the point was to understanding the refinements to LAAMP were correcting a few 13 15 14 minimize that rapid rise so if there is evidence that 16 coding errors and expanding the capabilities of LAAMP, to suggests that that is not the case, then we would not be as 15 17 which, I believe, you answered yes. Is that accurate? 16 concerned about it. 18 I did answer yes. A 17 Are you concerned with the system capacity only in wet Q Do you believe those changes are conceptual changes, Q 19 18 20 or would you describe those changes as refinements? years? Well, generally wet years, but there's a few times 19 А 21 А Some of them will be refinements, and some of them 20 where flash floods occur where the flows pick up very 22 will be conceptual. 21 quickly, even in a drought, but yes, generally wet years. 23 MS. SCOONOVER: Thank you. That's all. 22 a You discussed a little bit on the Owens Valley 24 MR. DEL PIERO: Thank you very much. Anyone else we 25 to ask questions? Mr. Frink. 23 spreading operations. Does this occur only in wet years? 00087 24 It occurs generally in wet years. -1 25 Q Can you tell me the capacity of the spreading EXAMINATION by MR. FRINK: 00084 2 operations, for example, the number of acre-feet the City of 1 з Ω Mr. Deas, with the exception of the computer modeling

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4 which you assisted the Department of Water and Power with on 6 a Mr. Hasencamp, I assume in view of the concerns that the Mono Basin, have you prepared any other computer models 5 7 the Department of Water and Power has expressed with regard 6 for other water diversion systems? to the LAAMP model, that you would agree it would be helpful 8 MR. DEAS: I'm sorry, I didn't catch the end of that. 9 to have peer review of complicated models such as that? Other water diversion and delivery systems. 8 a 10 A Yes, I would. 9 I have created a small water balance model for the 11 a Has the LAASM model been subject to that type of 10 Corps of Engineers on a reservoir somewhere back east. It's 12 desirable peer review to date? 11 been a long time. I've done some water modeling for some 13 No, I don't think it has. Maybe Mr. Deas can answer Α 12 proposed reservoirs. So, yes, I have done some other 14 that question. MR. DEAS: A There was some review of certain 13 systems. 15 14 Is a water supply model and an operational model the Q 16 components of the model carried out by independent parties to 15 same thing, in your opinion? 17 examine some of our regression equations to determine if they 16 In the context with which I have done this modeling, Α 18 were adequate. 17 the operation models have been for their project purpose, 19 Q Other than that, has there been any outside review of water supply. It may be a multi-purpose project, there may 18 20 the LAASM model? 19 be some power generation, some recreation involved, but it 21 Not beyond the immediate crew involved. A probably should have been stated that water supply was a 20 22 0 Mr. Deas, I believe you indicated that there is still 21 major use. 23 a problem with the way that the LAAMP model treats the 22 α And do you recall approximately the amount of water transit gain between Tinemaha Reservoir and Haiwee Reservoir 24 23 involved in the reservoirs that you developed the model for 25 that results in a net error of approximately 19,000 24 with the Corps of Engineers? 25 Α I'm sorry, I can't recall. 1 acre-feet; is that correct? 00088 2 Yes. Α 1 Q Do you know if the model is being used? з α And your testimony indicates that the LAAMP model also 2 A I do not know. 4 does not account for reservoir evaporation resulting from 3 Q In preparing a complicated computer model for a 5 overestimating the water available for export to Los Angeles 4 complex water diversion system, is it necessary to make a by approximately the amount of 10,000 acre-feet; is that 6 5 large number of assumptions regarding various input? 7 correct? 6 8 I think I said 8 to 9 thousand. A Yes. Α 7 Ω And is there a margin of error associated with each of 9 α For reservoir evaporation? 8 those inputs? 10 A That is correct. 9 Yes. 11 Q 8 to 9 thousand for reservoir evaporation? A 10 Q Would you care to speculate as a modeler on what you 12 Α That is correct. 11 could consider to be a reasonable margin of error in 13 Ô. Now, the result again of the error in the model is it 12 preparing an operations model? 14 underestimates the quantity of water available for export; is 13 Α It depends on the system, it depends on the available 15 that correct? data, and it depends on the purpose of the model. If you are 14 MR. HASENCAMP: A That is correct. 16 15 modeling a daily event, then you need a lot more data than if So, is there an offsetting factor between these two 17 o 16 you are modeling a multi event, for example. So, it's a 18 errors so that you could subtract the 8 to 9 thousand 17 function of the system. 19 acre-feet from the 19,000 acre-feet and end up, in your view, If you were attempting to prepare a model to predict with a net error of 10 or 11 thousand acre-feet? 18 Q 20 19 the yearly deliveries through a particular water diversion 21 MR. DEAS: A Not exactly because I arrive at the 20 system, would you expect the model to be accurate within 1 22 numbers differently. The Tinemaha to Haiwee transit gain, 21 percent? 23 you can think of it in just a gross sense, you are supposed 22 24 No. to add 9,300 acre-feet, and instead it was subtracted, and A 23 0 25 that is just a net error in the determination of the Owens What degree of accuracy would you hope to achieve? 24 A If the model is properly formulated, representative of 25 the system, 5 to 15 percent. 1 Valley available water. For the Tinemaha to Haiwee evaporation numbers, I 00089 2 1 actually went into the LAAMP computer code and corrected it 0 Mr. Hasencamp, my understanding is that the initial 3 2 LAAMP model was provided to the Department of Water and Power and recalculated the number, and the impact was 8 to 9 4 з and other interested parties in 1991, and that a revised 5 thousand acre-feet on the flow to Los Angeles. So, the error 4 from the evaporation is stated in terms of flow to Los version was provided in 1992; is that correct? 6 5 MR. HASENCAMP: A That's correct. There were 7 Angeles. The error in Tinemaha to Haiwee transit is just 6 subsequent versions after the version received in 1992 as 8 indicated in a gross sense. It was supposed to be added, and 7 9 it was subtracted. well. 8 Q Do you know if anyone on the Department of Water and 10 a In any event, there would be an offsetting 9 Power staff reviewed the LAAMP model for DWP during 1991? 11 relationship between the two errors? 10 A Yes. 12 A It seems there would be. I would like to make the 11 a And did they provide comment to Jones and Stokes on 13 change and see what the impact does. Can you conceive of any way in which that would not be 12 that LAAMP model at that time? 14 0 13 Yes. There was a meeting held in August of 1991, I 15 an offsetting relationship between those two errors? Α 14 believe it was, and the parties were asked to submit comments 16 I would have to look at the computer code to see how A on the LAAMP model. The Department of Water and Power along 15 17 that water is handled in that reach. 16 with other parties submitted comments to the version, I don't 18 Mr. Deas, on page 28 of your testimony, Table F shows α 17 the lake levels for each month below which there could be no know if it was 1.0 or what version of the LAAMP model, but 19 water export from the Mono Basin under the DWP Mono Lake 18 that was not the completed version. 20 19 After you received the completed version in April of 21 Management Plan; is that correct? Q MR. DEAS: A Yes. 20 1992, did the Department of Water and Power staff review that 22 As I understand, the application of the LAASM model a 21 model? 23 24 does not provide for a gradual reduction in water export as 22 There is a little discrepancy in that we received a 23 version in March of 1992, and then I understand there were a 25 you approach your designated water level; is that correct? few changes made, but we did not receive the final version 24 MR. HASENCAMP: A Yes. 25 until sometime this year, 1993, but the version that we got 1 2 ٩ So, in other words, your diversions are allowed up 00090 in 1992 we did begin reviewing it in 1992, yes. з until you reach the level, and then there's a shutoff? 1 4 2 0 Did you provide comments and any suggested revisions A Yes. 5 From your review of the LAAMP model, is it your 3 to Jones and Stokes staff with respect to the version that Q 6 understanding that it does provide for a gradual reduction in

- 4 you received in the spring of 1992?
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diversions before diversions are shut off entirely?

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15 MR. HASENCAMP. A Well, Was using the flow is from the instant flow or an using when the minimum is term flow or an ourse, that flow is 8 cobic instant flow as not occurrent, that flow is 8 cobic instant flow as not occurrent, that flow is 8 cobic instant flow as not occurrent, that flow is 8 cobic instant flow as not occurrent, that is not not below is a cobic instant flow as not occurrent, that is not not below is a cobic instant flow as not occurrent, that is not not below is a cobic instant flow as not provide is a cobic instant flow is 8 cobic instant flow as not provide is a cobic instant flow is 10 cobic instant flow as not provide is a cobic instant flow is 10 cobic instant flow is not provide is a cobic instant flow is 10 cobic instant flow is not provide is a cobic instant flow is 10 cobic instant flow is not provide is 10 cobic instant flow is 10 cobic instant flow is not provide is 10 cobic instant flow is 10 cobic instant flow is not provide is 10 cobic instant flow is 10 cobic instant flow is not provide is 10 cobic instant flow is 10 cobic instant	14	fishery protection in Parker Creek?	16	
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	A It is hard to remember right now. I believe, correct	14	A I would imagine he is.
13	• • •	1 15	0
14	0 , , , , , , , , , , , , , , , , , , ,		MR. DEL PIERO: Do you believe that to be the case?
		16	A Well, the Assistant General Manager is the one who
15		17	brought them to the hearing in Sacramento.
16	Q Did you invite any other parties to be a part of that	18	MR. DEL PIERO: I'm sorry.
17	group?	19	A It was the Assistant General Manager of the water
18	A No.	20	system who presented this document at the public policy
19	Q Why not?	21	meeting.
20	A It was a model for the Department of Water and Power,	22	MR. DEL PIERO: I understand that, and that's not the
21	and we felt we had enough people in-house to develop the	23	question I am asking. The question I am asking is, is the
22	model.	24	General Manager authorized in his capacity as the chief
23	Q What are the changes that you have recently made to	25	executive officer of the Los Angeles Department of Water and
24	LAASM?	1	
25		1	00103
25	MR. HASENCAMP: A There are a couple of additions to		Power to approve documents like this?
		2	A I would imagine he is.
1	the LAASM model from what was submitted on September 22. One	3	MR. DEL PIERO: Thank you. Please proceed, Mr.
2	is the ability to limit the maximum flow in the Upper Owens	4	Satkowski. That will be entered into the record as a staff
3	River, and the second is to allow a certain amount of export	5	exhibit.
4	during the transition period from the starting lake level to	6	MR. DODGE: We will offer Department of Water and
5	the target lake level.	7	Power Exhibit 80.
6	Q Those are the only two changes that you made with the	8	MR. DEL PIERO: It's in. Let's keep moving.
7	model you introduced in the hearing?	9	MR. SATKOWSKI: Q I guess Staff Exhibit 35, which is
8	A Yes.	10	the summary of the Los Angeles Water Management Plan under
9	Q Do you plan to present this revised model as a	11	the title, Mono Basin, says, "Operations will be determined
10	· · · · · · · · · · · · · · · · · · ·	12	
11	rebuttal testimony or exhibit?		on a monthly basis rather than on April 1st of each year, and
		13	we'll use monthly buffer levels to insure that a level of
12	Q Mr. Hasencamp, I have questions about your Management	14	6,374.6 feet is not reached during periods of prolonged
13	Plan, and for the most part, I was going to refer to Exhibit	15	drought.
14	83, which was the summary. Do you have a copy of that in	16	Q What do you define as a buffer level?
15	front of you?	17	A A level with no diversions allowed below.
16	A I don't, and as I said earlier, that's not part of my	18	Q Is that different than a target elevation?
17	testimony.	19	A It can be considered a target elevation.
18	MR. FRINK: I wonder, Mr. Del Piero, in order that our	20	Q. On page 41 of your testimony, you list the monthly
19	record is clear on this, I know that Mono Lake Management	21	Mono Lake buffer levels in feet for your proposed Management
20	Plan has been labeled as LADWP 83. Mr. Birmingham, I wasn't	22	Plan; is that correct?
21	clear from your comments, but does the Department of Water	23	A Yes.
22	and Power intend to offer the brochure describing the Mono	24	Q If the Board were to choose a different buffer level
23	Lake Management Plan as an exhibit?	25	or target elevation such as 6383.5 or 6390, for example,
24	MR. BIRMINGHAM: No.	23	00104
		1 -	
25	MR. FRINK: There has been a good deal of discussion		would you propose that the Board use monthly buffer levels?
	00101	2	A Yes.
	about it, and in order that our record is clear, I would	3	Q And I notice on Table C, page 41, that the buffer
2	propose, then, that it be designated and offered into	4	levels change by month. There is a fraction on the end of
3	evidence as Staff Exhibit Number 35.	5	these values, April 6376.3; May 6376.4; and these same
4	MR. DEL PIERO: Fine. If the staff hadn't made that	6	fractions are also shown on page 28, I guess, of Mr. Deas'
5	recommendation, I was going to. I have one question before		testimenu. Would you recommend that the Deard if they were
6		7	testimony. Would you recommend that the Board, if they were
	we continue with questions. Mr. Birmingham, how many copies	8	to establish monthly buffer levels, use these same specified
7			to establish monthly buffer levels, use these same specified
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7	we continue with questions. Mr. Birmingham, how many copies of this did you make? MR. BIRMINGHAM: I don't know the answer to that.	8 9	to establish monthly buffer levels, use these same specified monthly fluctuation components and attach them to the end of the target elevation such as 6390?
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16	flexibility on the timing of the flows because it is behind	18 A Well, forecasts do start earlier. Our first forecast
17	the reservoir.	19 is February 1, but again, again the range of error that much
18	Q At the bottom of the page when it talks about Lee	20 earlier is extremely large.
19	Vining Creek and Grant Lake Reservoir spills, it says: With	21 Q Which month would you recommend that the Board use to
20	improved planning and the reduced conduit flows, spills will	22 set the final year type determination?
21	be minimized.	23 A Well, our final runoff forecast is in May, and that's
22	Can you explain what you mean by improved planning?	24 the most accurate, but there is a drawback because you're one
23		25 month into the runoff year. So, I don't have a
24	operations model that would help us, and we have got more	00109
25	experience having gone through the 80s, the wet period of the	1 recommendation other than that there's a flexibility allowed
	00106	2 to make changes for unforeseen hydrologic conditions.
1	early 80s, so that we can, if we had a repeat of those	3 Q When developing hydrologic classifications for the
	periods, reduce the spills that we have seen in the past.	4 Mono Basin, would you recommend that the Board use some sort
3	Q So, you are by this statement saying you will use the	5 of unimpaired flow values in order to come out with some sort
4	LAAMP model to help model the system better?	6 of index and then look at the various indices that may come
5	A Yes.	7 up every year and then subdivide those in the season into
6	Q Under the heading, Long Valley Reservoir, it says:	8 different classifications?
7	LADWP will maintain appropriate reservoir levels for	9 A That is one way it could be done, and that sounds
8	recreation, fisheries, and power production. Storage targets	10 reasonable.
9	will also incorporate required flows in the Owens River gorge	11 Q In Exhibit LADWP 55, which is entitled, Runoff
10	and below Pleasant Valley Dam.	12 Forecast Model for the Mono Basin; Owens Valley, what stream
11	I believe there were a few questions about this	13 criteria did you use? Did you use unimpaired flow?
12	yesterday. What do you mean by "appropriate reservoir	14 A Yes.
13	ievels"?	15 Q What other elements did you use to come up with your
14	A Well, when the final Owens gorge flows are determined,	16 model?
15	that will affect our ability to operate Crowley Reservoir, so	17 A Well, when we develop a forecast model, we use the
16	we will try to anticipate when the flows would be required	18 snow survey results which are done at the beginning of each
17	and make sure that the reservoir then is high enough so when	19 month. We use the precipitation data throughout the winter.
18	those large flow releases are required, it won't drop down	20 We use the antecedent stream flow, and then we use the
19	too far.	21 forecast precipitation throughout the remainder of the
20	Q Are you making any recommendations to the Board as to	22 period. If we are forecasting on April 1, we assume median
21	what they may want to put in a permit term for reservoir	23 precipitation after the date of forecast.
22	levels at Crowley Lake?	24 Q If the Board were to set stream flow criteria based on
23	A No.	25 three different year types, a dry, a normal, and a wet, do
24	Q In the development of the LAAMP model, various runoff	00110
25	fraction triggers were used for different target elevations.	1 you have any recommendations as to how the Board may want to
20	00107	2 subdivide these criteria to develop these year types, for
1	Are you familiar with that?	3 example, would you recommend that the Board use 50 percent
ż	A Target elevations of Mono Lake?	
3	Q Yes.	· · · · · · · · · · · · · · · · · · ·
4	A Yes, I am.	6 A That's certainly a way of doing it. It depends, of
5	Q What they essentially are is a percentage of runoff	7 course, on what you're trying to model and for reservoirs and
6	that will be allowed when the lake level reaches a certain	8 streams and other conditions, you could define it
7	elevation for different year types. If the Board were to set	9 differently. Maybe a dry year for one type of resource has a
8	a target elevation or set target elevation criteria, do you	10 much larger range of possibilities when other things are more
9	have any recommendations as to what runoff fraction triggers	11 drought tolerant, and so a dry year could be more
10	the Board would want to use in this proceeding?	12 restrictive.
11	A Well, I am not recommending using that type of	13 Q Do you have any specific proposals for determining
12	analysis. The LAASM analysis is a monthly analysis that	14 what a dry year is?
13	looks at where the level is much as a thermostat; for	15 A Not at this time.
14	example, in a room, if it gets a little warm, you cool it	16 Q I have one last question that is actually about LADWP
15	off; if it gets cold, you heat it up, and this is done	17 Exhibit 87 which was discussed yesterday, which is a
16	monthly throughout the years, rather than at 8:00 in the	18 projected annual Mono Basin projected water cost.
17	morning finding out it is a little warm, so let's set the air	19 A Yes.
18	conditioning for the day not being able to adjust it until	20 Q Do you have that in front of you?
19	8:00 o'clock the next morning. It creates a little wider	21 A Yes.
20	fluctuation than if you have a level you are trying to	22 Q I have a quick clarification question. In the third
21	protect each month.	23 column under Equilibrium Period, it shows 9600 acre-feet for
22	Q is it your recommendation that the Board ought to use	24 the LADWP Management Plan. How long is that equilibrium
23	the regime that's in LAASM if the Board sets target elevation	25 period that you used to come out with the average of 9600
24	criteria?	00111
25	A Yes, or something similar.	1 acre-feet?
	00108	2 A The whole analysis was a 52-year analysis, and the
1	Q If the Board were to set stream flow requirements that	3 first 16 years were the transition period, so the remaining
2	varied by water year type, do you have any recommendations	4 36 years represent the equilibrium period.
3	for the Board as to how they may want to determine the water	5 MR. SATKOWSKI: Okay, thank you.
4	year classifications for the streams in the Mono Basin?	6 MR. DEL PIERO: Mr. Smith.
5		
-	•	7 EXAMINATION
6	A Well, one of the difficulties is that on April 1 a	7 EXAMINATION 8 by MR. SMITH:
6 7	A Well, one of the difficulties is that on April 1 a runoff forecast is produced, but there's still a potential	8 by MR. SMITH:
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7 8 9 10 11 12 13 14	A Well, one of the difficulties is that on April 1 a runoff forecast is produced, but there's still a potential for a heavy amount of precipitation in April, so the range of error in the April 1 forecast is sufficiently large that it is difficult to make a cutoff point because you might forecast an above-normal year, and then if April turns out to be very dry, the year might actually be below normal wear don't have any recommendations on how to classify that. My only recommendation is that it not be tied in directly to the April 1 forecast, but may be a May forecast or something	 8 by MR. SMITH: 9 Q Mr. Deas, a couple of quick questions about LAASM and 10 LAAMP. What features of the L. A. system can be simulated 11 with LAASM that can't be simulated with LAAMP. 12 MR. DEAS: A I will start at the Mono Basin and come 13 down. I would like to talk about Grant Lake Reservoir first. 14 This is going to take a couple of minutes. In Grant Lake 15 Reservoir there are three ways for water to leave the 16 reservoir. It can go through the Grant outlet, and at that
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7 8 9 10 11 12 13 14 15	A Well, one of the difficulties is that on April 1 a runoff forecast is produced, but there's still a potential for a heavy amount of precipitation in April, so the range of error in the April 1 forecast is sufficiently large that it is difficult to make a cutoff point because you might forecast an above-normal year, and then if April turns out to be very dry, the year might actually be below normal so I don't have any recommendations on how to classify that. My only recommendation is that it not be tied in directly to the April 1 forecast, but may be a May forecast or something later when more data is known and less uncertainty exists.	 8 by MR. SMITH: 9 Q Mr. Deas, a couple of quick questions about LAASM and 10 LAAMP. What features of the L. A. system can be simulated 11 with LAASM that can't be simulated with LAAMP. 12 MR. DEAS: A I will start at the Mono Basin and come 13 down. I would like to talk about Grant Lake Reservoir first. 14 This is going to take a couple of minutes. In Grant Lake 15 Reservoir there are three ways for water to leave the 16 reservoir. It can go through the Grant outlet, and at that 17 point there are two options. The water could either be

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an uncontrolled manner.

have wet followed by wet.

not the previous year.

its storage target.

winter.

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seepage or evaporation. Those are the three ways water 22 There's several others if you want me to continue. usually leaves the reservoir in quantity. o 23 No, that's fine. Another general question for either In the LAASM model we operate at a Grant Lake 24 of you, could the Mono Lake Management Plan be accurately Reservoir storage target and try to maintain a realistic 25 simulated by LAAMP? storage per month that would essentially reflect the 00115 capturing of snow melt runoff in the spring and summer and 1 MR. HASENCAMP: A Not by the LAAMP version that was 00112 2 used for the Draft FIR. then exporting or releasing that water in the fall and 3 Q Why not? 4 Well, because the releases in the Mono Lake are quite A And the method which we use to control the reservoir a bit different. LAAMP has varying export quantities 5 storage is accounting for fish releases, Mono Lake releases 6 depending on the height of the lake above the target and the and export, is operational releases through Mono Gate Number 7 L. A. model is a little different in that respect. And just 1, so in addition to the lake release, if you have a lot of 8 the pattern of the flows in the streams are guite a bit water and fish release, you may operationally release ٩ different additional water so you don't spill Grant Lake Reservoir 10 Q A question for you, Mr. Deas, what percentage of the because spill conditions are uncontrolled and undesirable. 11 Owens Valley export is the 19,000 that you are saying is the LAASM reflects that control. 12 transit loss that you were talking about in your revised LAAMP does not use Mono Gate Number 1 for operation of testimony? Do you know what percentage that is? 13 spills, for example. And as the reservoirs rise quickly in a 14 MR. DEAS: A No, it was a recent discovery, and we large runoff year, instead of releasing water in a controlled 15 haven't had a chance to look at that. manner through Mono Gate 1 and avoiding the spill, there are 16 ٥ Would a figure of 20,000 be accurate? instances where the reservoir rises to capacity and spills in 17 MR. HASENCAMP: A Are you asking the average export? 18 Q Just the average ball park figures. Backing up to the reservoir now, LAASM takes into Our average from 1971 until 1986 before there were any 19 A account previous year and current year hydrologic conditions 20 restrictions was 490,000 acre-feet and 91,000 came from the in setting their targets. That is because wet years can Mono Basin, so about 400,000 came from the Owens Basin. 21 impact conditions of the system in a subsequent year. So, 22 Q Well then, just by quick calculation, this 19,000 Long Valley and Grant Lake reservoirs have nine sets of 23 would probably be something under 5 percent? reservoir targets, that is, one target for a wet year 24 A Yes, about right. followed by a wet year, preceded by a wet year, a target for 25 ο And then that would be well within the range you were a wet year preceded by a normal year, a target preceded by a 00116 wet year preceded by a dry year, normal normal normal dry, et 1 saying about the accuracy of the model, Mr. Deas? 00113 2 MR. DEAS: A Yes, when I stated that range, I am assuming the model is formulated correctly. You had the cetera. And that way we have the proper response and 3 flexibility of the reservoirs to handle a situation where you 4 opportunity to make it as accurate as possible. Simply 5 because someone states or it is documented that you can have And that's different in LAAMP. They do have reservoir 6 an error of 15 percent, if you could have an error of 1 targets that reflect current year hydrologic conditions but 7 percent, it is much better. 8 a You make a pretty strong statement here on page 2 of As we move down the system, Ms. Scoonover, I believe, 9 Section 1: The LAAMP model documentation is severely asked me a conceptual example of LAAMP, and I mentioned Mono 10 deficient, and you say there is no Mono Lake water balance Basin exports. LAAMP currently doesn't look down system, 11 error analysis. Have you read Appendix A, the Mono Lake LAASM does look to determine if it can store water in Lake 12 water balance? Crowley or Convict. The capacities for LAASM have been 13 The Draft EIR? Α reviewed and incorporated properly into the models so we 14 ۵ Yes. don't have the problem of the reservoir storing extra water, 15 Α I have some time ago. we don't have the capacity problem of Pleasant Valley outflow 16 Q So, it is your testimony that there is absolutely no or Tinemaha Reservoir outflow. 17 water balancing error analysis in that document? These are things I discussed earlier. We operate Mono There is a graph of historic versus calculated Mono 18 Lake differently. That is, instead of having a range or 19 Lake surface elevation. I believe they ran the model through trigger levels as LAAMP does, we have a single buffer level 20 the historic and compared the two, and the reason I don't which varies through the months of the year, and we export 21 consider that adequate is because by putting 10,000 acre-feet once fish releases and lake releases have been met according in Mono Lake at 6370, it changes the lake, let's say X 22 to that buffer level as long as Grant Lake Reservoir is at 23 amount. If I put 10,000 in Mono Lake at 6420, it changes it 24 much less. An effective error analysis in determining like LAAMP in comparison with operations at Mono Lake and 25 that one, comparing historical to Mono Lake level, I would trigger levels requires a release to Mono Lake initially and 00117 then no exports can occur until the lake release is met. 1 have compared Mono Lake volume. That's probably a more representative number. It wouldn't be impacted so much by 00114 2 As a result, there is often no export out of Mono з the elevation of the lake. Basin for the first four or five or six months of the year as Mr. Hasencamp, on your Table B, I refer you to the 4 a water is flowing into Mono Lake to meet the annual lake 5 Owens River below East Portal. You have your averages, your release requirement. Subsequent to that being met, in the minimums, your maximums, and then in eight months your 6 later months of the year, water is exported out of the basin. recommendations on the maximums are very close to the 7 In LAASM, by employing this fluctuating buffer which maximums recommended by the Department of Fish and Game and 8 essentially very roughly follows the natural fluctuation of 9 the ranchers in the Upper Owens. Are you aware of four months where you have 304, 375, 346, and 338, which are well Mono Lake, it allows export and releases to the lake to occur 10 concurrently throughout the year so you don't have this no 11 above the maximums represented by the Department of Fish and export period and a no lake release period or just a fish 12 Game and by the ranchers? MR. HASENCAMP: A Yes. 13 0 Have you talked to the Department of Fish and Game Other differences include calculated transit loss in 14 the Owens Valley, Mono Basin, calculated miscellaneous 15 about these higher flows? 16 No. These are very rare events, and we would consider А Because different amounts of water in the system 17 putting a different maximum in there if evidence warranted create different transit loss, it is important to understand 18 it. that as you have higher lake alternatives and Mono Lake gets 19 ۵ Have you talked to the ranchers up there about these higher and higher, and less water is in the system, you have 20 higher flows? 21 A No. I haven't.

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right above East Portal?

- 20 LAAMP uses a constant transit loss, and so some
- 21 alternatives overstate the transit loss.
- Tote-Scripts by MORRISON & FOERSTER (213) 892-5200

Are You aware of what the average Owens River flow is

Not exactly.

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25	Q So, you don't know whether the average that's 00118	1 A Yes, not every year. I think that our experts have 2 testified that flushing flows are not required every year.	
1	reflected right below is anywhere close to the average right	 2 testified that flushing flows are not required every year, 3 hut years when flushing flows or higher flows are released 	eed
2	above East Portal?	4 they mimic the hydrograph.	seu,
3	A Well, the average year is certainly much higher than	5 Q Are you mimicking the natural flows below flushing	na
4	the average	6 flows in other months, or is the model attempting to min	
5	Q Why is that the case?	7 those flows?	
6	A Well, because this includes an average of 46,300	8 A Mimic the	
7	acre-feet of export, so if you were to convert this cfs to	9 Q Let me see if I can clarify this a little bit. What I	
8	acre-feet and subtract 46,300, then you would have the	10 am getting at is if you are attempting to mimic the flow	
9 10	average acre-feet Q So, it doesn't reflect exports?	11 a stream channel and yet allow for some level of divers 12 what I am getting at is how much, what is the criteria	
11	Q So, it doesn't reflect exports? A Yes, it does.	 12 what I am getting at is how much, what is the criteria 13 that mimic? Are you allowing 10 percent diversion and 	
12		14 mimicking the flow, 20 percent diversion mimicking the	
13		15 or are you maintaining it at a minimum flow and diverti	
14		16 everything, but mimicking that minimum flow or less?	
15	by MR. HERRERA	17 understand how you are mimicking the flow, I guess.	
16	Q MR. Hasencamp, I need to go back, and we have	18 A Well, when there's a release required for lake leve	el
17	discussed a number of fish flows, fish numbers, or	19 purposes, then that would at Lee Vining Creek just let t	the
18		20 stream go. If we know that the lake is below, like curr	ently
19	· · · · · · · · · · · · · · · · · · ·	21 it is below the Management Plan's diversion level, so a	
20	· · · · · · · · · · · · · · · · · · ·	22 stream flow would go down, and it would be exactly th	
21	model, and let's start with Lee Vining. I understand there	23 natural hydrograph. Then when the flows were to be,	
22		24 to be picked off for diversion, then you would release t	
23 24		25 minimum flows on certain years. In other years when i	it is 00122
25	•	1 time to flush, you would flush them when the runoff we	
	00119	2 peak.	(U
1	their recommendations, but we based our Management Plan on	3 Q What you are saying, then, you would attempt to	
2	the recommendation of the experts that have testified at this	4 operate that at near minimum flows most of the time, the	
3	hearing.	5 A Not most of the time because most of the time la	
4	Q What is the flow recommendation for Lee Vining Creek?	6 level releases will be required.	
5	You can look at your table there.	7 Q. That are higher than the minimum flows?	
6	A The minimum flows are 25 cfs April through September,	8 A Yes.	
7	15 cfs October through March, with a fish flushing flow every	9 Q That you recommended earlier?	
8	other year.	10 A Yes.	
9	Q And what is that minimum flushing flow?	11 Q Let's move on to I'll begin with Parker and Wat	
10	A Well, that is the value of water that is equivalent to	12 creeks. The flows that are recommended for those that	
11 12	150 cfs for 10 days plus a ramping increase of 25 percent every eight hours on the rising limb and 25 percent every 24	13 used in the LAASM model are not court-ordered flows? 14 A Well, for Parker and Walker creek, the Plan divert	
13	hours on the descending limb.	14 A Well, for Parker and Walker creek, the Plan divert 15 under those into the conduit, so it would just be	.5.
14	Q And I believe you testified earlier that those were	16 Q In your discussion on irrigation, you used the fish	,
15	provided to you by Dr. Orton; is that correct?	17 flows, fish maintenance flows, for Parker and Walker c	
16	A Yes, that's true.	18 A Well, we assumed for the model run a flow. We	
17		19 assumed the judge's orders. When ever flows are requ	
18	A No, he is a fisheries biologist who is a consultant of	20 Walker and Parker creeks, then we would irrigate what	ever is
19	the Department of Water and Power.	21 on top of that. We are not recommending to the Board	
20	Q He was hired to provide those numbers to you?	22 for Walker and Parker creeks.	
21	A No, he was hired to assist the Department in issues	23 Q I understand that. I am trying to understand how	
22	relating to fisheries biology.	24 model reacts to the amount of water used for irrigation	l.
23	Q But he did provide those numbers to you for LAAMP. We	25 A Well, it attempts to use the historic amount of	00100
24 25	did hear testimony from other experts here earlier that also	1 irrigation which is about 1100 acre-feet off Parker Creek	00123
20	reiterated some of those numbers, but I don't recollect them 00120	2 and irrigation is in the summer season from April throug	•
1	providing a flushing flow number.	3 September. If there was water above the 9 cfs at Parke	
2	A No, they did not provide a flushing flow number, but	4 Creek, then the model will allow irrigation to take place.	
3	more the criterion and pattern.	5 If there is not 9 cfs in Parker Creek, then your irrigation	
4	Q And that other pattern, as you put it, was to mimic	6 would not take place.	
5	the natural flow dynamics of the stream. Could you explain	7 Q Again, did Dr. Orton and his group, or the group of	of
6	to me the criteria, how you would mimic the flows taking the	8 consultants provide any kind of minimum flow recomme	andations
7	exact same events, maybe 10 percent less or 20 percent less	9 or suggestions to you for Parker and Walker creeks?	
8	of the actual stream flow, or how do you mimic that at some	10 A No.	
9	flow level below the natural flow? How does the model	11 Q I think we have pretty well discussed Rush Creek	
10	capture that?	12 I want to go on down the system to the Upper Owens.	
11	A Well, it mimics in that the practical flows in those	13 Upper Owens, there has been a discussion about these	-
12	streams are highest in June and July and lower in the rest of	14 flows in excess of 200 or 300 cfs. Earlier Mr. Deas tai	
13 14	the year. Each individual year does not mimic what the flows are in that creek in any year, but for the systems in	15 about the problems with the model looking at dam safe 16 problems, essentially with overfilling or causing a reserve	•
15	general, the flows are highest when the flows had	17 to spill, that didn't have the ability to react to that.	
16	historically been the highest.	18 Does the model take into account what would happen	with the
17	Q Again, I'm a little bit, bear with me, confused.	19 larger flows if you were required to export flows or the	
18	Let's stick with Lee Vining as an example. In Lee Vining	20 model said to take these flows out, to the effect on the	
19	there are controls upstream that you have to deal with, but	21 Upper Owens stream, for example? Let's say the mode	
20	the flows as they arrive at the LADWP diversion, during a	22 indicated that you got 350 cfs, do you export, or mayb	
21	month in any given year, you are mimicking the flows that	23 that's not a good idea for the Upper Owens, as you pu	
22	arrive there below your diversion. Is that what you are	24 earlier. Does it look at those kinds of problems?	
23	attempting to do, is mimic those flows at some level Let	25 A It looks at the Crowley Lake capacity and downst	
24	me go a little further, at some level less than the flows		00124
25	that arrive at that diversion?	1 capacity. It doesn't look at the Upper Owens more than	n at

2 375 cfs capacity.	4 Q So, the flexibility that you talk about in part is a
3 Q It has a capacity of 3757	5 flexibility that is a day-to-day decision by the immediate
4 A That's right. But the new version has a	6 operator in contact with the Bishop office?
5 user-specified cap, and any cap we put in the model can be	7 A No, not really. The operations are planned for the
6 rerun.	8 year beginning on April 1, but the ability to change the plan
7 Q And I have one other question, below the Owens River,	9 on a day-to-day basis occurs after that, yes.
8 below Pleasant Valley, you indicated that you believed there	10 Q But there's no operational criteria that a third party
9 was a 200 cfs minimum requirement there. Can you tell me	11 could understand how or predict how that reservoir is going
10 where that 200 cfs requirement came from or whose requirement	12 to be operated?
11 that is?	13 A No, not really.
12 A Well, it ranges with months, and I don't offhand know	14 Q I would like to pursue for a moment the development of
13 what the minimum was, but I spoke with the General Operator 14 who operates the Pleasant Valley outflow, and he said that is	15 the Los Angeles alternative. Was it your testimony that you 16 conferred with fisheries experts to get the required minimum
15 his I used his guidelines, and he does work with Fish and	16 conferred with fisheries experts to get the required minimum17 stream flows?
16 Game on determining what flows are allowed in the Middle	18 A Yes, it was.
17 Owens River.	19 Q And you consulted with other Mono experts to get their
18 Q But you don't know whether that's a Fish and Game	20 recommendations as well?
19 requirement for minimum flow or just an operational minimum	21 A Recommendations on
20 flow?	22 Q What other kinds of recommendations did you receive
21 A Well, it is more than operational, but I don't know	23 from Mono experts?
22 that it's Fish and Game's requirement.	24 A Well
23 Q But to your knowledge, then, there is no Fish and Game	25 MR. BIRMINGHAM: I'm going to pose an objection and
24 requirement below Pleasant Valley?	00128
25 A No, I understand there is an agreement, an informal	1 instruct the witness to answer the question based only upon
00125	2 those individual experts who have been designated as experts
1 agreement, but I don't know of any specific requirements.	3 in this proceeding. Otherwise, the question calls for
2 Q And did your experts provide any recommendations for	4 material protected by attorney/client.
3 minimum flows through Pleasant Valley?	5 MR. DODGE: There were two elements of what he said,
4 A No, they did not.	6 an objection and an instruction. An objection is proper, but
5 MR. HERRERA: That concludes my questions.	7 certainly I don't think an instruction is proper.
6 MR. DEL PIERO: Mr. Canaday. 7 EXAMINATION	8 MR. BIRMINGHAM: Mr. Dodge is correct. I will
7 EXAMINATION 8 by MR. CANADAY	 9 interpose an objection and ask the Hearing Officer to make 10 such an instruction.
9 Q Mr. Deas, have you read the entire Environmental	10 such an instruction. 11 MR. DEL PIERO: I might be so inclined to make such an
10 Impact Report?	12 instruction if I have a sense as to whether Mr. Hasencamp had
11 MR. DEAS: A No.	13 been a party to privileged information, but I don't know
12 Q Do you have any experience in preparing environmental	14 that. Has he been?
13 documents that deal with very specific environmental analyses	15 MR. BIRMINGHAM: Mr. Hasencamp has been an employee of
14 besides hydrology?	16 the Department of Water and Power and has been involved in
15 A No, I don't.	17 meetings with attorneys and consultants acting under the
16 Q Earlier in your testimony you stated that, in fact, in	18 direction of the attorneys who are experts,
17 part of your criticism of the LAAMP model, you described the	19 MR. DEL PIERO: Ms. Book, would you be kind enough to
18 logic path of developing models, and you described an element	20 read the question back.
19 of that is peer review; correct?	21 (The reporter read the question as follows.)
20 A I don't recall. I'm sorry.	22 Q What other kind of recommendations did
21 Q Let's assume that you did, that you discussed the	23 you receive from Mono experts?
22 importance of peer review of a model. I believe you	24 MR. DEL PIERO: Mr. Hasencamp, do you know what the
23 testified earlier that LAASM has only been reviewed in-house;	25 privileged information is?
24 is that correct?	00129
25 A No, I think I added something to that. I mentioned 00126	1 A I have an idea. 2 MR. DEL PIERO: The concern I have Why don't we do
1 certain portions of it were reviewed by other parties.	
• • •	3 this - 4 MR. BIRMINGHAM: ! will withdraw the objection.
2 Q Any party to the proceedings besides the LADWP in this 3 room?	5 MR. DEL PIERO: Mr. Canaday, why don't you get more
4 A No.	6 specific.
5 Q. One other of the logic path that you described was	7 MR. CANADAY: I will get more specific.
6 that it is important to have repeatability; is that correct?	8 MR. DEL PIERO: I'm going to overrule the objection,
7 A Yes.	9 but I appreciate your withdrawing that question, and you can
8 Q. You also stated that this model, the LAASM model, was	10 get a little more specific, because I don't want to run into
9 not user friendly; is that correct?	11 a problem, and at the same time I don't want to sit here and
10 A It is not like Microsoft Windows.	12 explain to Mr. Hasencamp what privileged information is.
11 Q. Well, in a comparison would you say LAASM You've	13 MR. DODGE: I want to say for the record, if there is
12 already said LAASM is not user friendly, would you say LAAMP	14 some input that went into the Department of Water Power's
13 is more user friendly?	15 Management Plan, that Management Plan is out in the open now,
14 A Slightly.	16 and I think everyone is entitled to know the basis for it.
15 Q. Wouldn't it be a goal of whatever model you use,	17 MR. DEL PIERO: I understand that, and everyone is
16 particularly in a public trust decision, that would allow the	18 entitled to understand the basis for it. The concern I have
17 interested public to be able to use the model and analyze the	19 got, and frankly, Mr. Birmingham, I am at a loss, because I
18 decision or the information being presented?	20 don't know what you are referring to, and I am somewhat
19 A Yes.	21 reluctant to cause a problem here. That is why I'm asking
20 Q Are you aware of any written and published rule	22 Mr. Canaday to restate his question. Go ahead, sir.
21 curves, operational rule curves, for Grant Lake Reservoir and	23 MR. CANADAY: I don't know whether I should feel
22 Crowley Reservoir?	24 honored or hang my head. I seem to be able to get a rise out
23 A No.	25 of Mr. Birmingham every time I have the mike.
24 Q Mr. Hasencamp.	00130
25 MR. HASENCAMP: A No.	1 MR. BIRMINGHAM: It's not every time, this is only the
00127	2 second time, Mr. Canaday.
1 Q So, these reservoirs up until the development of	3 MR. CANADAY: Q Mr. Hasencamp, you relied in part on
2 LAASM, have no written or published operational criteria?	4 the professional guidance by Mr. Orton; didn't you?
3 A Not any formal ones.	5 A Yes.

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6 Q Was Dr. Orton presented here to provide testimony 8 Q A little more than a thousand acre-feet, and that is based on his recommendations? 9 in the Upper Parker watershed? Yes, above the Lee Vining conduit. 8 No, he was not. 10 Α 9 Q I'm trying to understand how the lake level was 11 Q And the purpose of that irrigation would be to do 10 achieved in your alternative. I take it that you took the 12 what 13 11 fish flow recommendations from the experts, put those into Α Well, provide grazing habitat or grazing land for some LAASM, and pushed the button, and 6377 came out; is that 14 12 sheep companies in the area. correct? 15 13 Q And those pastures are leased by LADWP to those sheep No. The fish flows alone would drop the lake to 6370 16 14 concerns? 15 in one of our runs, so additional water was necessary to 17 Α Yes, that's true. 18 Q maintain a level closer to 6377. And that is on an annual basis? 16 17 So 6377, therefore, was a chosen target before LAASM 19 A Average annual basis, yes. a Q 18 was run; is that correct? 20 I mean, are the leases on a year-to-year basis; do you They were probably developed simultaneously, but LAASM 21 19 know? Α did not choose 6377; 6377 was put into LAASM. 22 20 А I don't know. 21 So, the Department chose 6377; correct? 23 a But that is a decision that the Department of Water Q 22 А Yes. 24 and Power makes, whether to lease that land or not; is that 23 a Looking at possible conditions that the Board could 25 correct? 24 establish in their order, there will likely need to be 00134 measures or devices on the streams to insure compliance with 1 Yes, that is correct. 25 Α 00131 2 a Mr. Hasencamp, you stated in your testimony that whatever conditions streamwise are adopted by the Board. On 3 summer water was the most valuable water, is that correct, to 1 Rush Creek you have a measuring device where Mono Gate 1 4 LADWP supply system? 2 5 3 enters into the natural channel of Rush Creek: is that A Yes, it has a higher value. 4 correct? 6 Q And how is that measured, higher economically or --5 7 Well, the demand is higher in summer, and so the more Α Yes. Α 8 Are you proposing measuring devices anywhere else on water that you can supply during the high demand period, it 6 0 7 Rush Creek below that point? 9 is more efficient and also less costly than to buy 8 Not to my knowledge. 10 replacement sources. Typically on LADWP's leased land, when is the 9 α So, if it was found necessary, and you testified to a 10 the importance of additional flow from Parker and Walker to 12 irrigation season? Lower Rush Creek, do you think it would be beneficial to have 13 Begins in April and runs through September. 11 A 14 a flow device somewhere downstream of the narrows? a And I believe you testified earlier that the 12 I don't see the need for one. There could be some 15 irrigation used in the Mono Basin was a little over a 13 Α benefit from it, I suppose. I am not aware of any. 14 16 thousand acre-feet; correct? 15 Your plan hasn't dealt with any public access 17 Historically, it had been 9,000, and under the plan it Q would be reduced to 3,000, 1,000 off Parker, and then there's 16 questions at all. I asked a question early on to, I believe, 18 19 about a thousand off the South and East Parker which are not 17 Dr. Beschta about public access to some of the stream 18 corridors. Are you aware of any problems with limiting 20 part of this proceedings. access to the stream course? 21 But if that water wasn't used, is that water that 19 Q 20 No, I am not. 22 ultimately could flow to Los Angeles? Α Not all 3,000, but 2,000 roughly. 21 ۵ Are you aware of any native Californian or Native 23 А American water rights within the Mono Basin? 24 0 And then I believe in response to one of my questions 22 23 No, I am not. 25 earlier, or questions, you said that approximately 20 to А 00135 24 α Are you aware of pending applications submitted to 25 thousand acre feet could be used in the Upper Owens on leased 25 this Board to appropriate water from Lee Vining Creek by the 1 2 land: is that correct? 00132 1 U. S. Forest Service and the City of Lee Vining? 3 A Yes, that's correct. 2 No, I am not. 4 Q And I believe to a question today on Owens Valley, you Α Does the L. A. Alternative take into account any 5 stated approximately 100,000 acre-feet was used in irrigation з Q 6 4 future riparian claims by other parties than the Department? there. 5 No, it doesn't. 7 Α 100,000 is the total Lower and Upper. I believe it is 8 closer to 80,000 in the Lower and 20,000 in the Upper, and 6 Q Mr. Deas, in your response to, I believe. a question 7 9 again that's applied. by Mr. Smith, you went to the Mono Basin and moved through the system describing what you perceived to be some problems 10 8 a That's applied during the summer; is that correct? with LAAMP; is that correct? 11 Yes. 9 A Q 10 MR. DEAS: A I think his question was the difference 12 Normally during the summer? between LAAMP and LAASM. 13 Applied in the summer, and much of it comes back into 11 Α 12 Q Now, you have looked at their October 18 letter today, 14 the system. 15 Q Do you know how much, what percentage? 13 is that correct? 14 Just glanced at it this morning. 16 Α I don't. 15 Ω Are you aware that the examples that you used in your 17 ۵ Half? You have no idea, then? response concerning the differences, that the October 18 18 Α In the Long Valley area, it could be a significant 16 letter responds to some of those differences? 19 amount, up to half. 17 18 I am a little confused about your question. Could you 20 a And the timing of that, do you know when that comes Α 19 state it again? 21 back? Is it within the irrigation season? You identified some differences between LAASM and 20 a 22 Yes. А 21 LAAMP, and the October 18 letter describes changes, and I 23 Q Do you know what would be in the Owens, the Lower 22 will call them enhancements to LAAMP, and you have looked at 24 Owens? that letter. the enhancement identified in that letter 25 The Lower Owens is irrigated all year, parts of it, 23 Α 00136 24 responsive to some of the criticisms that you described, or the differences you described to Mr. Smith? 1 but I don't know how much returns. 25 2 MR. CANADAY: That's all I have. Thank you. 00133 1 MR. DEL PIERO: Mr. Birmingham, redirect? I would 3 A They were responsive to some of the differences. point out for everybody's benefit, it is ten minutes to 1:00, 4 2 a Mr. Hasencamp, you testified earlier to the amount of 3 water that is potentially to be diverted from Parker Creek 5 ladies and gentlemen. MR. BIRMINGHAM: Judge Finney should come to this 4 for irrigation in-basin uses. 6 5 MR. HASENCAMP: A Yes, I did. 7 proceeding and see how much of an effect a very limited 6 Q And that was approximately 1,000 acre-feet? 8 amount of time for cross-examination has on the length of the 7 proceeding. A little more. 9

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10	MR. DEL PIERO: Some people said I cause people to	12	Q So, if you wanted to compare what existed in 1989 with
11	have nosebleeds around here. I don't know if that's true or	1 13	what existed in 1992, a more accurate comparison would be to
12		14	
			• • • • • • • • • • • • • • • • • • • •
13	MR. HERRERA: We could certainly loan the judge our	15	June of 1992; isn't that right?
14	watch.	16	A That's correct.
15	MR. DEL PIERO: Proceed, Mr. Birmingham.	17	Q What was the elevation of Mono Lake in June of 1992?
16	REDIRECT EXAMINATION	18	A it was about 6374.4, plus or minus a tenth.
			· ·
17	by MR. BIRMINGHAM:	19	Q So, the actual change between 1989 and 1992 wasn't the
18	Q will start with the most recent first. Mr. Deas,	20	3.3 feet Mr. Dodge mentioned, it was, in fact, closer to 2.3
19	Mr. Canaday, who just left the room, asked you to guess about	21	feet; isn't that correct?
20	the user friendliness of LASSM versus LAAMP. Do you recall	22	
	•		
21	that?	23	Q Because in order to compare different lake levels, we
22	MR. DEAS: A Yes.	24	would want to use the same month of different years?
23	Q Either of you can answer this guestion. Do you know	25	A Yes, that's true.
24	if it was necessary for Jones and Stokes to train any members		00140
25	of the State Resources Control Board staff in the operation	1	Q Now, Mr. Hasencamp, Mr. Dodge asked some questions
	00137	2	about this chart, National Audubon Society and Mono Lake
1	of LAAMP?	3	Committee Exhibit 229, and he asked you questions about
2			
		4	whether or not during the period represented in this exhibit
3	Q My question is, did it happen?	5	the Department of Water and Power was attempting to mimic the
4	MR. HASENCAMP: A Yes, it did.	6	natural hydrograph. Do you remember those questions?
5	Q Could you describe that for us, Mr. Hasencamp?	1 7	A Yes, Ido.
6	A Well, I believe that Dr. Brown spent some time with	8	Q Now, isn't it correct, and I have got the order here
7	Mr. Smith and Mr. Herrera training them on how to use the	9	now if you would like to review it, but isn't it correct
8	LAAMP model.	1 10	In fact, I'm going to ask you to review it. I would like to
9	Q Was it necessary for the Department of Water and Power	111	show you what has been marked for identification as National
	<i>, ,</i>	1 .	
10	to approve a supplemental contract with Jones and Stokes for		Audubon Society/Mono Lake Committee Exhibit 9 which purports
- 11	Dr. Brown to perform that training?	13	to be a preliminary injunction filed April 17, 1991, and
12	A Yes, it was.	14	specifically, I am going to ask you to refer to paragraph 2B
13			
		15	of that preliminary injunction. Does that preliminary
14	terms of money for Dr. Brown to provide the training for the	16	injunction, which I will represent to you is related to lake
15	State Board staff members so the State Board staff engineers	17	level, specify a maximum flow in Rush Creek?
16	could use LAAMP?	18	A Yes, it does.
17	A I believe it was somewhere in the neighborhood of	19	Q What is that maximum flow?
18	eight thousand dollars.	20	A 165 cfs.
19	Q Mr. Deas, do you think you could train members of the	21	Q Now, is it your understanding that the Department of
20	State Board staff in the operation of LAASM?	22	Water and Power has operated its facilities in the Mono Basin
			•
21	MR. DEAS: A Yes.	23	to comply with the orders of the El Dorado County Superior
.22	Q So, what you said yesterday in your testimony, that it	24	Court in this proceeding?
23	was an in-house document and required some expertise, that	25	A Yes.
24	-didn't mean that you couldn't train somebody on the State		00141
		1 1	And is it your understanding that the maximum flow
25	Board staff to operate LAASM?	1	Q And is it your understanding that the maximum flow
		1 2	Q And is it your understanding that the maximum flow that occurred during the June/July period of 1993 was a
	Board staff to operate LAASM? 00138		that occurred during the June/July period of 1993 was a
25 1	Board staff to operate LAASM? 00138 A That is correct.	23	that occurred during the June/July period of 1993 was a maximum to comply with the order of Judge Finney?
25 1 2	Board staff to operate LAASM? 00138 A That is correct. Q I would like to go to this chalk board, and my first	2 3 4	that occurred during the June/July period of 1993 was a maximum to comply with the order of Judge Finney? A Yes.
25 1 2 3	Board staff to operate LAASM? 00138 A That is correct. Q I would like to go to this chalk board, and my first question is going to be addressed to you, Mr. Deas, because	2 3 4 5	that occurred during the June/July period of 1993 was a maximum to comply with the order of Judge Finney? A Yes. Q Have you reviewed a legal document like the National
25 1 2	Board staff to operate LAASM? 00138 A That is correct. Q I would like to go to this chalk board, and my first	2 3 4	that occurred during the June/July period of 1993 was a maximum to comply with the order of Judge Finney? A Yes.
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25 1 2 3 4 5	Board staff to operate LAASM?	2 3 4 5 6 7	 that occurred during the June/July period of 1993 was a maximum to comply with the order of Judge Finney? A Yes. Q Have you reviewed a legal document like the National Audubon Society/Mono Lake Committee Exhibit 9 before, I mean just the form of it?
25 1 2 3 4 5 6	Board staff to operate LAASM? O0138 A That is correct. Q I would like to go to this chalk board, and my first question is going to be addressed to you, Mr. Deas, because Mr. Dodge asked you a question about the eight-year drought analysis, and he asked you about the conclusion of a 6.01-foot drop in elevation versus what you calculated should	2 3 4 5 6 7 8	 that occurred during the June/July period of 1993 was a maximum to comply with the order of Judge Finney? A Yes. Q Have you reviewed a legal document like the National Audubon Society/Mono Lake Committee Exhibit 9 before, I mean just the form of it? A Yes.
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14	MR. BIRMINGHAM: Q Mr. Hasencamp, do you know why the	16	Q Why were changes to LAASM made after it was submitted
15	Department of Water and Power limited its releases from Mono	17	to the State Water Resources Control Board as LADWP Exhibit
16	Gate 1 to 165 cfs during the summer of 1993?	18	52, et seq?
17	A Yes.	19	A By request from the State Board staff.
18	Q What was that?	20	Q The State Board staff asked you to modify LAASM in
19	A To comply with the court order that you had suggested.	21	some respect?
20	Q Now, I don't remember who it was, maybe it was Mr.	22	A Yes.
21	Dodge, asked you questions about the EBASCO study on Parker	23	
		-	· · · · · · · · · · · · · · · · · · ·
22	and Walker creeks and whether or not you were aware of any	24	LAASM?
23	problems that existed with the channels of Parker and Walker.	25	A Yes.
24	Do you remember those questions?		00146
25	A Yes, Ido.	1	Q What did the State Board staff tell you?
	00143	2	A Well, they asked if there was an option for the Upper
1	Q Do you know how the channels through which water from	3	Owens River flows, and we said no, and they said that would
2	Parker and Walker creek flows were designated?	4	be helpful to have that; and secondly, is their ability to
З	A I am not sure I understand.	5	export water during the transition phase, and I said no, and
4	Q It is not a very good question. Prior to 1989, isn't	6	they said, I think that would be a good idea to have that.
5	it correct that Walker and Parker creeks were dry?	7	Q And you have submitted those changes to the State
6	A Below the conduit, yes.	8	Water Resources Control Board staff?
7	Q And the channel of Walker and Parker creeks were in a	9	A We will shortly. We have not done it yet.
		-	
8	degraded condition; is that correct?	10	MR. BIRMINGHAM: And when those changes are submitted
9	A Yes.	11	to the State Board staff we will also submit them to all the
10	Q And in order for water to flow through a channel as	12	other parties, Mr. Del Piero.
11	opposed to just flowing out over the surface below the	13	Q Finally, let's talk about peaking flows, flushing
12	conduit, was it necessary for a channel to be constructed for	14	flows, as I think you referred to them in the Management
	•		· •
13	Walker and Parker creeks?	15	Plan. There's been some examination on this issue, and I was
14	A Yes, it was.	16	left with the impression from the comments that you made
15	Q And was someone hired to go out and designate where	17	yesterday, Mr. Hasencamp, that you just pulled those flushing
16	that channel should be constructed?	18	flows right out of the air. Did you just willy nilly select
17	A I believe so.	19	those flushing flows?
		20	MR. HASENCAMP: A No, I did not.
18	Q Do you know who that was?		•
19	A No, I don't.	21	Q How did you go about developing the flushing flows
20	Q When Dr. Stine gets here, I will ask Dr. Stine. Mr.	22	that are included in the Management Plan?
21	Deas, yesterday you stated with respect to the LAAMP model,	23	A Well, I had a discussion with Dr. Orton, who had
22	and you reiterated this, you repeated it, you said when the	24	discussed the concept with Dr. Beschta, and then Dr. Orton
23	sub-routine Not Enough is in effect under the LAAMP model,	25	and I came up with the flows.
		23	•
24	first demand is satisfied by looking at Haiwee; is that		00147
25	correct?	1	Q Now the ramping with respect to these flows, Ms.
	00144	2	Cahill asked you yesterday whether or not it was consistent
1	MR. DEAS: A Tinemaha and Haiwee.	3	with what was proposed in the article by Mr. Hill, Dr.
2	Q And then demand is satisfied by looking at Mono Basin;	4	Platts, and Dr. Beschta, and I believe you stated that it was
3	is that correct?	5	•
		-	not consistent, but that Dr. Beschta had said the 10 percent
4	A Yes.	6	ramping criteria identified in that article wouldn't
5	Q And then the demand is satisfied by looking at Crowley	7	necessarily be applicable to the Eastern Sierra streams. Was
6	Reservoir?	8	that your testimony?
7	A Yes.	(<u> </u>	A Yes.
8	Q And you said several times that was a problem; is that	10	Q Do you know if in developing the ramping flows that
9	correct?	11	are contained in the LADWP management proposal, if Dr. Orton
10	A It was a concern with that, yes.	12	referred to the Department of Fish and Game criteria on
11	Q What?	13	ramping flows in the Eastern Sierra?
12	A We discussed earlier the Mono Lake release scheme	14	A He referred to flows that were in the preliminary
13	requires that all of the lake releases be met prior to export	15	injunction. I don't know if those are part of Fish and
14	from the Mono Basin. Thus, when you reach priority two in	16	Game's recommendation or not.
15	the sub-routine entitled Not Enough, in essence you are	17	Q Ms. Cahill asked about whether or not the duration of
16	looking for more water in the system.	18	these flushing flows was less than the duration of the flows
17	First you look at Tinemaha and Haiwee. If you cannot	19	ordered by the court, and I believe it was your testimony at
18	export from Mone Basin because your lake releases have not	20	that time the duration was shorter; is that correct?
19	been met yet, then you move to Crowley, you do not increase	21	A Yes, it was.
20	storage, and then you subsequently take Crowley to a minimum,	22	Q And can you please explain to us why the Department of
		23	Water and Power's Management Plan proposes flushing flows of
21	and finally, if there are consecutive dry years, you would		
22	reduce Owens uses pumping.	24	a duration which is shorter than the duration ordered by the
23	The problem is, if you look at the output from, I	25	court in the preliminary injunction?
24	think any of the elevation alternatives, especially the		00148
25	higher ones, 6390, for example, the Mono Lake release is	1	A Dr. Beschta testified that the 30-day duration was not
	00145	2	•
			necessary for the flushing flows, just a peak with a
1	quite sizeable and takes several months. It may take through	3	descending limb, a peak of a few days would be satisfactory.
2	August or September and sometimes - I will just leave it at	4	Q. And he testified to that. Did the Department of Water
3	that.	5	and Power consult with Dr. Beschta about the appropriate
4	During that period from April to September, no export	6	duration of the flushing flows before he drafted the
5	can occur. Those are higher periods of demand, and during	7	proposal?
		8	A Yes.
	that period essentially the Owens Valley gets taxed because		
7	the logic cannot go to the Mono Basin and export water.	9	Q Then Ms. Cahill asked about whether there were minimum
8	One of the corrections I mentioned is exporting	10	flows based on wet, normal, or dry year criteria under the
9	concurrent with the lake releases would put that problem to	11	LADWP Management Plan, and you stated that there were not
10	rest.	12	wet, normal, and dry year criteria. Was that your testimony?
		13	
11	Q Now, this morning you responded to some changes, you		A Yes.
12	or Mr. Hasencamp responded, to changes to LAASM had recently	14	Q In reality under the DWP Management Plan, will there
13	been made. One of you mentioned that in your direct	15	be higher flows in Rush and Lee Vining creeks in wet years
14	testimony; is that correct?	16	than in dry years?
15	MR. HASENCAMP: A Yes.	17	A Yes, there would be.
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have to review LAASM:

18		20	A I imagine there is.
19	A Well, Parker and Walker creeks come into the lower	21	MS. CAHILL: Thank you.
20	half of Rush Creek, and, of course, in the wetter years more	22	MR. DEL PIERO: Thank you very much, Ms. Cahili. Mr.
21	water would go down those creeks. Additionally, wet year	23	Dodge.
22	operation releases require release of water down both of the	24	MR. DODGE: I'm going to be very brief today.
23	,	25	/////
24	releases for Mono Lake level maintenance, generally more		00152
25	water is released in wetter years, and less in drier years. 00149	1 2	RECROSS EXAMINATION
1	MR. BIRMINGHAM: I have no further questions.	3	by MR. DODGE: Q Mr. Hasencamp, now we are talking about real life here
2	MR. DEL PIERO: We are going to take five minutes.	4	in 1989 and 1992, talking about the level of Mono Lake on
3	(Recess.)	5	April 1, 1989, and you pointed out that 15,000 acre-feet of
4	MR. DEL PIERO: This hearing will again come to order.	6	water were exported during that time period between April 1.
5	Ms. Cahill.	7	1989 and Judge Finney's injunction; correct?
6	MS. CAHILL: I am mindful of the clock. Our goal is	8	MR. HASENCAMP: A I said about that.
7	to be out of here by 2:00 o'clock, with everyone finished.	9	Q About 15,000.
8	MR. DEL PIERO: That's right.	10	A It could be a little more.
9	MS. CAHILL: This will be a bit scatter shot as a	11	Q And that's water that had it not been exported would
10	result.	12	have gone to Mono Lake and would have ameliorated the
11	RECROSS EXAMINATION by MS. CAHILL:	13	decline; correct?
12 13	Q Mr. Hasencamp, can you tell me what the minimum	14 15	A Yes. Q And isn't it also true, sir, that your Figure 4, your
14	storage in Crowley Lake is under LAASM?	16	Q And isn't it also true, sir, that your Figure 4, your six-year drought analysis, that that also assumes a certain
15	MR. HASENCAMP: A The simulation we ran is close to	17	amount of export?
16	80,000 acre-feet.	18	A It assumes a certain amount of export. It also
17	Q And what is the maximum Mono Gate 1 controlled spill	19	assumes that 1987, the first year, is following the wet year
18	in cubic feet per second under LAASM?	20	of 86, so there is a lot of storage in this Grant Lake
19	A 350 cfs.	21	reservoir.
20	Q And that is greater, is it not, than the capacity of	22	Q How much export is assumed in Figure 4?
21	the return ditch in its current condition?	23	A I don't know.
22	A Yes, in its current condition.	24	Q Do you recall it is 11,000 acre-feet?
23	Q Is Mono Gate manually or automatically operated?	25	A I don't recall that.
24 25	A Manually.	-	00153
25	Q And so, did you anticipate under LAASM that there 00150	1	Q Does that sound about right or wrong, or you have no recollection?
1	would be someone manually changing the outflow each day?	3	A Sounds like it could be reasonable.
2	A Under the DWP Management Plan we would manually change	4	Q Now just for purposes of the analysis, assume it is
3	it, but not every day, but certainly we have people in the	5	11,000, that's 4,000 acre-feet difference; correct?
4	Mono Basin whose job is to change flows. When we request	6	A Yes.
5	changes to flows, they will change the flows.	7	Q Would you agree with me that that represents less than
6.,	Does the Department of Water and Power plan to remove	8	one inch change in Mono Lake?
7	any fish and sediment barriers that current exist at the	9	A Yes.
8	diversions on Walker and Parker creeks once it no longer will	10	Q Two more areas of questions, and then I will sit down.
	divert from those streams?	11	I am totally confused on this peer review of LAASM, although
10	A I am not aware of plans.	12	, ,
11	<i>, , , , , , , , , ,</i>	13	you're going to share with us, but who conducted the peer
13	from the Mono Basin under the Los Angeles Management Plan is 45,000, plus a little, acre-feet per year. What is the	15	review of the LAASM or the portions of LAASM that were peer reviewed?
14		16	A A professor from UCLA.
15	simulation?	17	Q What is his name or her name?
16		18	A I can't remember.
17	about 110,000 acre-feet, plus or minus a thousand.	19	Q So, it was a third party. I was a little unclear
18	Q And can you tell me what the percentage taken? You	20	about your testimony. It was a third party that did this
19	indicate there's a 37 percent average export. Can you give a	21	review?
20	ball park estimate of what the percentages of export are in	22	
21	dry years if you define dry years as the driest 20 percent?	23	Q When did this review take place?
22	A I would say the export is probably closer to 10	24	A Over the summer of 1993.
23	percent or less in the driest years.	25	Q Is there any other review under process or
24	Q There was some discussion in response to questions by,		00154
25	l believe, Mr. Canaday, with regard to the irrigation in the 00151	1	contemplated? A Well, I'm sure Mr. Foerster is reviewing it, but
1	Eastern Sierra. The 20,000 acre-feet that are diverted in	3	Commissioned by the Department of Water and Power?
2	Long Valley, I think you testified some of that returns to	4	A Outside of this hearing, no, there is none.
3	the system. Is that surface flow return?	5	Q Last question. you really brought back fond memories
4	A Both surface and subsurface.	6	in response to someone's questions, I believe Mr. Canaday.
5	Q And with regard to the total of approximately 100,000	7	You talked about irrigation, and you said historically
6	acre-feet from Owens Valley and Long Valley combined, does	8	approximately 9,000 acre-feet had been used for irrigation in
7	that include the tributaries to Crowley Lake, including	9	the Mono Basin, and under the Department's plan, it would be
8	Mammoth Creek and Convict Creek itself?	10	approximately 3,000 acre-feet, 2,000 of which potentially
9	A Yes, it does.	11	could be exported. Is that basically correct?
10	Q And is the Department attempting to implement	12	A Two thousand could be used for other uses. If there
11	agricultural water conservation measures with regard to the		was capacity to export them, then it could be exported, but
12	irrigation water used in the Owens Valley?	14 15	other times it would have to be released to Mono Lake. Q As the potential for export to Los Angeles?
13 14	A Well, it is really not necessary, because if more water is put on the land than the land can absorb, then it	16	Q As the potential for export to Los Angeles? A Yes.
15	does return back to the system. There's no plan to attempt	17	Q Two thousand acre-foot?
16	to conserve that.	18	A Yes.
17	Q And there was water quality differences between	19	Q Now, when we went through this equation in the spring
18	agricultural return flow and water that's not yet been	20	of 1990, it turned out, as I recall, that 10,000 acre-feet
19	diverted from the stream?	21	was being used for irrigation, and it was under a lease to a

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22	cheen makes which provided gross sentals to the Department	24	
22 23		24 / 25	MS. SCOONOVER: I have no further questions of this panel.
24	· · · · · · · · · · · · · · · · · · ·	23	00158
	A I don't know.	1	MR. DEL PIERO: Thank you very much. Anyone else?
	00155	2	Mr. Frink.
1	Q Well, we used that to argue that Los Angeles was	3	EXAMINATION
2	putting the value of its own water at three dollars per	4	by MR. FRINK:
3	acre-foot. Now, my question to you, sir, is do you know what	5	Q One quick one, I hope. Mr. Hasencamp, just so I am
4	the gross revenues are for the 3,000 acre-feet that you	6	clear on this, under the criteria proposed in the Mono Lake
5	proposed to use for irrigation?	7	Management Plan, does the Department of Water and Power plan
6	A No, I don't.	8	any irrigation from Rush and Lee Vining creeks?
7 8	Q Do you know whether it is approximately three dollars per acre-foot?	10	A Gibbs Creek is a tributary to Lee Vining Creek, and it
9	A I don't know.	11	does plan to irrigate off Gibbs Creek. Q And approximately how much water would be diverted?
10	MR. DODGE: Thank you. That's all I have.	12	A I believe in the neighborhood of 700 acre-feet a year.
11	MR. DEL PIERO: Thank you very much, Mr. Dodge. Ms.	13	MR. FRINK: That's all the questions have.
12	Koehler.	14	MR. HERRERA: I have one question.
13	RECROSS EXAMINATION	15	MR. DEL PIERO: Mr. Herrera.
14	by MS. KOEHLER:	16	EXAMINATION
15		17	by MR. HERRERA:
16	of questions about the process of the development of the	18	Q Earlier I asked you questions about Dr. Orton's input
17		19	to the model. Is there anywhere in your documentation that
18		20	his recommendations for the model are presented?
19	9	21	MR. HASENCAMP: A No, there is not.
20	simulating the Los Angeles Aqueduct system?	22	Q Do you intend to present them?
21	MR. HASENCAMP: A Yes. Q. And did Los Andeles agree to do so?	23	A Yes, we will on our rebuttal testimony or other
22	Q And did Los Angeles agree to do so? A Yes.	24 25	avenues.
23		25	MR. ©RMINGHAM: If the State Board staff would like
25	A Yes.	1	to have Dr. Orton here, I presume they could ask us, and we
	00156		would produce him in the State Board staff's rebuttal case,
1	Q Were you involved in that modeling effort?	3	if that's an appropriate procedure.
2	A Yes, I was.	4	MR. HERRERA: That concludes my questions. Thank you.
3	Q Did Los Angeles provide an initial model to the Board	5	MR. DEL PIERO: Mr. Canaday.
4	staff?	6	EXAMINATION
5	A Yes, they did.	7	by MR. CANADAY:
6	Q And did the Board staff decline to use that model?	8	Q LAASM is capable of producing mostly stream flow
7	A Yes, they did.	9	frequency distribution curves; is that correct?
8	Q And did they provide you with reasons for that	10	MR. HASENCAMP: A The output from that can be put
9	decision?	11	into a statistical package to produce that, yes.
	A Yes, they did.	12	Q Have you produced that yet?
11 12	· · · · · · · · · · · · · · · · · · ·	13	A No.
13	prepared by the Department of Water Resources one of those reasons?	15	Q So, the LADWP recommendation is not based on frequency distribution curves for instream flows?
14	A The Department of Water Resources did not prepare the	16	A No, it is not.
15	model.	17	MR. CANADAY: I would request that we ultimately get
16	Q. I'm sorry, I am going too fast. Was . the lack of	18	that information then.
17	flexibility in the model prepared by L. A. one of the reasons	19	MR. BIRMINGHAM: We will produce it.
18	for not using that model?	20	MR. CANADAY: Q Mr. Deas or Mr. Hasencamp, either
19	A That was one of the reasons stated.	21	one, is it your understanding that currently enhancement or
20	Q Is it correct that the original model was the basis	22	corrections are being made to the LAAMP model?
21	for preparing LAASM?	23	A Yes, that's correct.
22	A All of the data that was used for the original model	24	Q And have corrections or enhancements been made with
23	was used, some of the concepts were used, but we also brought	25	the LAASM model or are being made to the LAASM model?
24	in Mr. Deas at that point and some other staff to assist us.	-	00160
25	Q Would you say that LAASM is conceptually similar to	1	A Options were added to the model.
1	that initial model or conceptually different?	2	 Q Do you call that enhancement? A You might call it enhancement.
2	A I would say portions of it are conceptually the same,	4	Q It's my understanding that a goal is that there will
3	but there were some major revisions made in the Mono Basin	5	be comparative model runs once LAAMP has been enhanced or
4	portion.	6	changes have been made. Is that your understanding?
5	Q Can LAASM simulate the alternatives in the Draft EIR?	7	A Yes. Mr. Satkowski has asked us to make some comparison
6	A It can simulate them to a certain extent. Of course,	8	runs when the new LAAMP is complete, and we will do that for
7	any operational curves that are specific to the LAAMP model	9	him.
8	can't be used in the LAASM model.	10	Q And that information will be shared with the other
9	Q Does LAASM have the ability to - Well, let me move on	11	parties?
10	to something else. Is LAASM capable of simulating the	12	A Yes, it will.
11	California Department of Fish and Game flows?	13	MR. CANADAY: Thank you.
12	A Yes, it is.	14	MR. DEL PIERO: Thank you. I have a couple of
. 13	Q Are you aware that those flows vary by year type,	15	questions now, and then. Mr. Birmingham, you can prepare to
14	water year type?	16	make an offer.
15	A Yes, I am.	17	
16 17	Q And didn't you testify earlier that LAASM does not	18	by MR. DEL PIERO:
18	provide for variation by year type? A No, I did not. I testified that the Los Angeles	19	Q Mr. Deas, other than employees or individuals in the contract with the Los Angeles Department of Water and Power,
19	Department of Water and Power Management Plan does not vary	20	who else knows how to run LAASM?
20	flow by year type, but, in fact, LAASM has an option that you	22	MR. DEAS: A Maybe some of the parties here who have
21	can vary the flows by year type.	23	received it, have tried it, but I don't know of anyone.
22	MS. KOEHLER: Thank you.	24	Q No one other than those people I mentioned. Mr.
23	MR. DEL PIERO: Thank you very much. Ms. Scoonover.	25	Hasencamp, one last follow-up question on the Mono Lake
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00161 2 My supervisor and I were. A Management Plan -- Has the General Manager of the district 1 And who is your supervisor? З Q authorized any changes to the statements that are 2 4 Gavin Covert. Α 3 incorporated in it? 5 And then in the spring of 1992, would it have been α 4 MR. HASENCAMP: A The General Manager of the 6 delivered to the same two people? 5 Department of Water and Power? 7 A Yes. 6 α a Yes. 8 A question for either one of you gentlemen: Can LAASM 7 Not that I am aware of. A 9 be utilized to evaluate power production impacts on the 8 0 Thank you. Mr. Deas --10 system? 9 MR. BIRMINGHAM: Excuse me, Mr. Del Piero, may I ask 11 A It can by looking at the acre-foot flows at certain 10 one additional question? 12 places. There is not a specific power generation impacts MR. DEL PIERO: Sure. 11 13 component of the model. MR. BIRMINGHAM: Whether or not Mr. Hasencamp is aware 12 14 Q But it can? if the General Manager reviewed what is now Board Exhibit 35. 13 15 A Yes. 14 MR. DEL PIERO: I'm sorry, I didn't understand. ٥ 16 Has that capability been used to evaluate the MR. BIRMINGHAM: It is difficult to object to one of 15 17 potential impact on power production at the Mono Lake 16 your questions. Management Plan? 18 17 MR. DEL PIERO: You can do it. It is okay. Kevin 19 No, it has not. 18 O'Brien does it regularly on the Big Bear. (Laughter.) MR. DEL PIERO: That's all I have. Mr. Birmingham, do 20 MR. BIRMINGHAM: I think the last question assumes 19 21 want to make an offer? 20 that the General Manager has reviewed State Board staff 22 MR. BIRMINGHAM: Thank you, Mr. Del Piero. At this time the Department of Water and Power would offer into 21 Exhibit 35. 23 22 MR. DEL PIERO: There is testimony in the record, and evidence LADWP Exhibits 9 through 82 and 84 through 88. 24 I don't recall if it was Mr. Hasencamp, I think it was Mr. 23 25 MR. DEL PIERO: Any objection? 24 Hasencamp, testified this had been approved by the General 00165 25 Manager of the District. 1 MR. SMITH: We are skipping 83. Just to make it 00162 clear, that's the Management Plan. 2 1 MR. BIRMINGHAM: Your question to him was, does the MR. DEL PIERO: It's been introduced already. 3 2 General Manager have authority to approve this kind of 4 MR. HERRERA: Okay. з document. In fact, I meant to ask him if he knows if the 5 MR. DEL PIERO: Any objection by any of the parties? 4 General Manager did on my redirect. 6 MR. CAHILL: No objection. MR. DEL PIERO: Well, I will ask it. 5 7 MS. SCOONOVER: No objection. 6 0 Has the General Manager approved this, to your 8 MR. DEL PIERO: Ms. Koehler. 7 knowledge? 9 MS. KOEHLER: We have no objection. 8 A No. 10 MR. DODGE: No objection. Who authorized its distribution, to your knowledge? MR. DEL PIERO: So ordered. 9 ۵ 11 10 Α The Assistant General Manager, who is in charge of the 12 MS. CAHILL: Mr. Del Piero, since we are talking 11 water system. 13 exhibits, at the conclusion of Mr. Vestal's deposition, the 12 Q Is the Assistant General Manager in charge of the 14 parties stipulated that we would rely on the videotape and 13 water system delegated that responsibility by the General 15 the accompanying deposition and also on Mr. Vestal's prior 14 Manager? 16 deposition and testimony, and so if the other parties don't 15 A Yes, I believe so. 17 object, I would like, since all the parties have those 16 a This is a question for Mr. Deas. Mr. Deas, and I documents, to save on the enormous cost, I propose to offer 18 17 would lay an appropriate foundation for this, are you 19 two copies to the Board staff and use them as exhibits by 18 familiar with a computer model known as DWRSIM? 20 reference. MR. DEL PIERO: Any objection? 19 Α I've heard of it. 21 20 Q Do you know much about it? 22 MR. BIRMINGHAM: No objection. 21 No, I don't. MR. DEL PIERO: There being no objection, they will be Α 23 Q so ordered. 22 Do you know anything about it? 24 23 A I know it has been applied in surface water problems 25 MR. BIRMINGHAM: There are a couple of housekeeping 24 here and there. a items I would like to bring up. You will recall there have 25 Are you capable of telling me in your estimation which 1 00163 2 been several questions about what we referred to as the 1 is the more complex model, LAASM or DWRSIM? 3 Orange Paper by Dr. Hardy in his testimony. 2 I'm sorry, I don't know the basis for DWRSIM. 4 MR. DEL PIERO: Has he sent it? A 0 That's fine. Mr. Hasencamp, in the spring of 1992, a MR. BIRMINGHAM: He has not sent it. The last time I 3 5 4 copy of the original LAAMP model was presented to the Los 6 spoke to him about it, he said one of his graduate students 5 Angeles Department of Water and Power staff. That was your 7 has walked away with it, and when they find out which 6 statement, I believe. I want to make sure that's correct. 8 graduate student, and as soon as he has located him, he is going to send it. We'll copy it and distribute it. 7 is that correct? 9 MR. HASENCAMP: A The very first version of LAAMP was As I recall, Dr. Li, who is a Department of Fish and 8 10 the summer of 91. A second version was in the spring of 92. Game designated witness, was the individual who told us what 9 11 10 Q And your testimony was that no one commented on that the number of it was when Dr. Hardy was testifying, and he 12 may have a copy of it. after it was received: is that correct? 13 11 MR. DEL PIERO: Do we know that, Ms. Cahili, whether 12 No one commented to the StateBoard until the comment 14 А 15 13 period was due, so the comments were made on it in August of Dr. Li has a copy? 14 1993. 16 MR. CAHILL: I believe he has a copy. MR. DEL PIERO: Would you be kind enough to -- Yes, Fine. But in the spring of 1992 or within a few 17 15 α months, not a year later, but within a few months, no one 18 16 sir. MR. GARY SMITH: There was some question about the 17 commented on that either to the State Board or the 19 number. It was Number 21 or 26. Dr. Li has each of those, consultants? 20 18 if I can find the proper number, we can make that available. 19 No. 21 Α 20 a Who would have been responsible for doing that 22 MR. DEL PIERO: Mr. Smith, if you would be kind enough analysis? Who was the copy of LAAMP delivered to for 23 to make that available to Mr. Canaday and impose on our 21 duplication folks again to make copies for those who don't 24 22 analysis? have them, then we can remedy that problem and tell him next 25 23 A I don't know that it was delivered for analysis. It 00167 24 was distributed to the parties. Who was the person who did the original analysis on it time he comes to California, he owes us -- Do you have an 25 1 a objection to that procedure? 00164 2 MR. BIRMINGHAM: None, I delivered to the State Board 1 in the summer of 1991? з

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staff my only copy of some other documents which Dr. Hardy MS. KOEHLER: Yes, and he and I both are supposed to 4 6 5 referred to during his testimony, and I said they were my 7 be out of town for some of those days. I don't know if other copy with my work product, and I needed to have those 8 6 people have similar types of scheduling, but it would be returned to me so I can prepare to cross-examine the 9 useful for us to know if those are hard and fast. 7 10 MR. DEL PIERO: Those are hard and fast days. 8 Department of Fish and Game. MR. SMITH: I will get them for you as soon as we 11 MS. CAHILL: Because Ms. Koehler was confused, I want 9 10 leave here. 12 to clarify for everyone, she said only three panels. That was the first dream. 13 MR. BIRMINGHAM: Finally, there are a few exhibits 11 MR. DEL PIERO: I wasn't confused. Anything else? 12 which have not been admitted into evidence, but the State 14 13 Board has yet to receive ten copies. Mr. Smith gave me a 15 Mr. Canaday. list of those yesterday, and as soon as I have all ten copies 16 MR. CANADAY: Mr. Del Piero, at the same time the 14 Department of Water and Power was offering to have of them, they were slides of Dr. Jehl's testimony, some 17 15 16 photographs, and we are still working on getting those copies 18 reproductions made of the 26, 18, or whatever it was, at the 17 for you. 19 same time we offered to reproduce two other documents. We MR. DEL PIERO: Okay. 18 20 have done so. They are available. If it is the wish of the MR. BIRMINGHAM: Those are my housekeeping items. parties, if they choose to have them today, or if they choose 19 21 20 MR. DEL PIERO: Ms. Cahill. 22 to wait and get them with the other documents, we will MS. CAHILL: To make the record complete, these are the accommodate either way. 21 23 new exhibits that are coming in by reference -- DFG 137. 24 MR. DEL PIERO: Where are they? 22 Deposition of Elden H. Vestal, January 11, 1990, Volume I, 25 MR. CANADAY: Upstairs. 23 24 relating to National Audubon Society and Mono Lake Committee 00171 1 MR. DEL PIERO: Unless someone has an overwhelming 25 versus the State Water Resources Control Board, Sacramento 00168 2 desire to have them -1 Superior Court Number 336712, DFG 138, Deposition of Elden H. MR. BIRMINGHAM: Those are the documents I provided 3 Vestal, March 1, 1990, Volume II, relating to the same case; 4 Mr. Smith which I need to have returned to me for preparation 2 3 DFG 139, Elden H. Vestal testimony from reporter's transcript 5 of proceedings May 1 and 2, 1990, relating to Mono water 6 MR. SMITH: Excuse me for interrupting, but this is a 4 5 rights cases, El Dorado County Superior Court Judicial 7 different question, whether we want to have a distribution of Council Coordination Proceeding Number 2284; and DFG 140, 6 8 all that stuff. You are going to get your stuff anyway. MS. CAHILL: We would like a copy of those. I would Elden H. Vestal's testimony from reporter's transcript of 9 proceedings, May 3 and 4, 1990, relating to Mono water rights 8 10 like to clarify whether anyone really wants the orange report. We want it, and if it turns out we already have it, 9 cases, El Dorado County Superior Court, Judicial Coordination 11 10 Council Proceeding Number 2284. 12 Mr. Birmingham's witness has it, does anyone else need the 11 MR. DEL PIERO: Any objection? 13 orange report? MR. SMITH: Just a little point of order here, Ms. 14 MR. DEL PIERO: We don't have the document. 12 Cahill. You have formerly introduced DFG 137 as a report on 15 MR. SMITH: We need it. 13 MR. DEL PIERO: Yes, Ms. Cahill. Mr. Canaday. 14 sanitary investigation of tributaries and mountain streams 16 15 emptying into the Owens River. 17 MR. CANADAY: I'm going to secure this room, and if MR. CAHILL: Why don't we renumber that one as 141. 16 18 there are things that you would like to leave here for our MR. SMITH: As 141. 17 beginning on Monday, you can do so. This room will not be 19 18 MR. BIRMINGHAM: While Ms. Cahill is at the podium, I 20 used by any other party, so you don't have to carry wonder if she could identify her order of witnesses for everything out over the weekend, but I would appreciate, 19 21 presentation next week? 22 however, that you take care of your cups, your garbage, so 20 23 21 MS. CAHILL: At least initially it is our intent to on. 22 present first Dr. Stine with regard to his declaration that 24 A point of information to the people who are flying related to the historical conditions on fisheries. He will 25 over tomorrow morning, what airport are you intending to land 23 be followed by Daryl Wong with the Department, and he will be 00172 24 followed by a panel of experts on the Rush and Lee Vining 1 at? 25 00169 2 MR. DODGE: I'm told Lee Vining. 1 MR. CANADAY: I was just informed, just setting up creek stream evaluation study. з MR. DEL PIERO: Folks, I don't mean to point out the 4 some logistical things over there, they are having problems 2 з obvious, but --5 with fog in the morning. Is an alternative Mammoth Lakes? MR. DODGE: I have a 30-second item. 6 MR. DODGE: Yes. 4 MR. CANADAY: You might want to consider --5 MR. DEL PIERO: I figured you did. I do want to say 7 MR. DEL PIERO: What hotel are we staying at? 6 that the degree of flexibility we are going to have in terms 8 of ending early is going to start dropping off as time MR. CANADAY: At June Lake Motel. 7 9 8 becomes short. I really have no great desire to go into the 10 MR. DEL PIERO: As I recall, we don't have phones in week between Christmas and New Year's, but I will if we 9 11 our rooms? 10 aren't done because I have promised the other four Board MR. CANADAY: No, we have a red phone in your room. 12 MR. DEL PIERO: If there is a problem, we need to know members I am going to be finished by the first of the year, 13 11 12 so if people are not really enthusiastic about that idea, 14 about it in terms of our arrival. 13 then it would be better if you give up a few evenings before 15 MR. CANADAY: I was trying to provide them a hint to Christmas in order that you don't have to give up New Year's 16 maybe provide the ground transportation in case they need to 14 Mr. Dodge, did you have something to talk about? go to Mammoth in the morning, so we can get them there. 15 Eve. 17 16 MR. DODGE: Yes. Now that Mr. Vestal has apparently 18 MR. DEL PIERO: Is there car rental service at Mammoth 17 come in, I would offer into evidence the National Audubon 19 Airport? 18 Society/Mono Lake Committee Exhibit 1AB, testimony of Elden 20 MR. DODGE: I would remind everyone that my cance person is going to be here at 8:30 on Monday morning and Vestal-Waterfowl and National Audubon/Mono Lake Committee 19 21 20 Exhibit 1A, 1AA, testimony of Elden Vestal on fisheries, 22 start off, and Mr. Birmingham has all weekend to prepare for which is also Cal-Trout 5. 23 21 this. MR. DEL PIERO: Any objection? 24 MR. DEL PIERO: I would point out Mr. Dodge arranged 22 23 MR. BIRMINGHAM: None. 25 to have her paddle all weekend. 24 MR. DEL PIERO: So ordered. Anything else? Ms. 00173 25 Koehler. 1 MR. BIRMINGHAM: Very kind of him. I expect to have 00170 2 at least two hours of questions. MS. KOEHLER: Mr. MR. DEL PIERO: Ladies and gentlemen, have a safe trip 1 and myself are both з supposed to be back east the week before Christmas. Is there 4 2 over. MR. CANADAY: We would like to thank the staff of the 3 going to be any flexibility during -- I know you've got the 5 three days of hearing scheduled that week --4 6 Department of Water and Power. They have handled themselves 5 MR. DEL PIERO: We are scheduled through the 22nd. professionally, and we appreciate their coming here and

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8	providing testimony.
9	MR. DEL PIERO: Thank you very much. You have a safe
10	trip over the hill. Ladies and gentlemen, see you tomorrow
11	morning.
12	(Evening recess.)
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