# ATTACHMENT A

Albert P. Barker, ISB #2867 Shelley M. Davis, ISB #6788 **BARKER ROSHOLT & SIMPSON LLP** 1010 W. Jefferson St., Ste. 102 P.O. Box 2139 Boise, ID 83701-2139 Telephone: (208) 336-0700 Facsimile: (208) 344-6034

Attorneys for Boise Project Board of Control

SS.

### IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA

Case No. 39576

Subcase Nos. 63-33732 (Consolidated subcase no. 63-33737), 63-33733 (Consolidated subcase no. 63-33738), and 63-33734

AFFIDAVIT OF EDWARD SQUIRES, R.P.G.

STATE OF IDAHO

County of Ada

EDWARD SQUIRES, R.P.G., being first duly sworn upon oath, deposes and states as follows:

1. I have personal knowledge of the testimony set forth herein and am competent to testify to all matters addressed herein.

2. I was employed with United Water Idaho, Inc. from 1993 to 1999 as the Manager of the Geosciences Department and Senior Project Hydrogeologist. Since 1995 I have also served as part of the adjunct graduate faculty at Boise State University in the University's Department of Geosciences. In 1999 I founded Hydro Logic, Inc., a geoscientific consulting firm

Affidavit of Edward Squires, R.P.G.

specializing in hydrology, hydrogeology, and geophysics where I remain to this day as the President and Managing Hydrogeologist.

3. I am also a Certified Water Rights Examiner (Certification No. 125) in the State of Idaho and regularly conduct beneficial use examinations for individual water rights and provide Beneficial Use Field Reports to the Idaho Department of Water Resources for use in making determinations about the licensing of water rights.

4. In 2002 I was contracted by United Water Idaho, Inc. to conduct the beneficial use field exam for its surface water right permit no. 63-12055, one of many water rights appurtenant to the diversion works commonly known as the Marden Water Treatment Plant, a very complicated water facility owned and operated by United Water Idaho, Inc. On June 28, 2002, I conducted an investigation and field-licensing examination of that facility and subsequently produced a Beneficial Use Field Report. I performed a number of analyses concerning the capacity of the plant and its instrumentation and ultimately determined that the plant was capable of producing the total of its existing appurtenant surface and ground water rights *plus* the added diversion rate of the newer Permit no. 63-12055. My recommendation to Department was that the Permit be licensed at its authorized diversion rate "for use anytime surplus water is available on the Boise River (Lucky Peak spilling)." *See* Exhibit 1, attached hereto which is a correct and accurate copy of the Beneficial Use Field Report that I submitted to IDWR for water right permit no. 63-12055, absent the Figures and Appendices submitted therewith.

5. The reason that I recommended that the exercise of water right no. 63-12055 be limited to times when Lucky Peak Reservoir is spilling is that it is my understanding that the IDWR has considered the Boise River to have been fully appropriated prior to the filing of

Affidavit of Edward Squires, R.P.G.

2

Permit no. 63-12055 and that only those waters that are passed through the Boise River reservoir

system for flood control are available for appropriation.

DATED THIS **18** day of June, 2015.

DEBBIE L. WILDER NOTARY PUBLIC STATE OF IDAHO



Edward Squires, R.P.G.

SUBSCRIBED AND SWORN to before me this  $\frac{19}{2}$  day of June, 2015.

NOTARY PUBLIC FOR HO

NOTARY PUBLIC FOR IDAHO Residence: <u>Sust</u>, <u>Junio</u> My Commission Expires: <u>12-17-16</u>

Affidavit of Edward Squires, R.P.G.

### EXHIBIT 1

Form 219 6/92

#### STATE OF IDAHO DEPARTMENT OF WATER RESOURCES BENEFICIAL USE FIELD REPORT

GENERAL INFORMATION	*Please direct inquiries to Ed Squires at 342-8369. Permit Nos. <u>63-12055</u>
1. Owner: United Water Idaho, Inc.	Phone No. (208) 362-7358
Current Address: 8248 West Victory Road, PO Box 748	3, Bolse, Idaho 83707-1488
2. Accompanied by: Bob Adams and Scott Cairi	EXAM DATE : <u>June 28, 2002</u>
Address: Same as above.	Phone No. (208) 362-7358
Relationship to Permit Holder: Lead Operators - United V	Vater Idaho, Inc.

3. Source: Boise River (including United Water Idaho's Infiltration galleries) tributary to N/A

#### **B. OVERLAP REVIEW**

- 1. Other water rights with the same place of use: United Water Idaho's Integrated portfolio of municipal water rights.
- 2. Other water rights with the same point of diversion: 63-2892, 63-243E, 63-243H, 63-165L, and 63-169F

#### **C. DIVERSION AND DELIVERY SYSTEM**

ldent No.	Govt Lot	<b>%</b>	74	%	Sec	Twp.	Rge.	County	Method of Determination/Remarks
Collector Well #1	7		SE	NE	14	3N	2E	Ada	Site visit and USGS 7 ½ -minute Topographic Series maps
Collector Well #2	7		SE	NE	14	3N	2E	Ada	Site vielt and USGS 7 ½ -minute Topographic Series maps
Collector Well #3	7		SE	NE	14 .	3N	2E	Ada	Site visit and USGS 7 ½ -minute Topographic Series maps
Boise River Intake	7		SE	NE	14	3N	2E	Ada	Site visit and USG8 7 ½ -minute Topographic Series maps

1. Point(s) of Diversion:

2. Place(s) of Use: UWID's Certificated Service Area Indicate Method of Determination On-file records at IDWR and IPUC

TWP	RGE	SEC		N					W		·	S	W			S	E		Totals
			NE	N₩	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	N₩	SW	SE	·
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3. Delivery System Diagram: indicate all major components and distances between components. Indicate weir size / ditch size / pipe I.D. as applicable.

#### See attached sheets, appendices, and figures:

- XX Copy of USGS Quadrangle Attached showing location(s) of point(s) of diversion and place(s) of use (Figure 1).
- XX Photos of Diversion and System Attached (Figures 2-7)

#### 4a. Raw Water Pumping Station (Into plant)

Pump Identification No.*	Motor Make	Нр	Motor Şeriêl No.	Pump Make	Pump Serial No. or Olscharge Size
RWPS #1	U.S. Motors	15	G69502W08W0490347F	Layne & Bowler	# 115467 (8° discharge)
RWPS #2	U.S. Motors	30	G69505W08W04990369F	Layne & Bowler	#115468 (14" discharge)
RWPS #3	U.S. Motors	30	G69505W08W0490369F	Layne & Bowler	#115469 (14" discharge)
RWPS #4	G.E. Motors	25	5K284DBBG001A	Prime Pump	#PPD9903002 (14" disch)
RWPS #5	U.S. Motors	50	D1201061904-004R-02	Goulds	#439495 (14" discharge)

\*Code to correspond with No. on map and seriel photo

#### 4b. Finished Water Pumping Station (into system)

Pump identification No.*	Notor Make	Нр	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
FWPS#1	U.S. Motors	150	W08-W2100605-GT	Layne & Bowler	# 115472 (12" discharge)
FWPS#2	U.S. Motors	150	W08-W2100606-GT 02	Layne & Bowler	#115473 (12" discharge)
FWPS#3	U.S. Motors	250	W08-W0490429R-1	Layne & Bowler	#115474 (14" discharge)
FWPS#4	U.S. Motors	250	B05797121212-GT 01	FloWay 16DKH	# 33374-1 (14" discharge)
FWPS#5	U.S. Motors	300	C05 980 58514-001R-01	Layne & Bowier	# ?? (14" discharge)

\*Code to correspond with No. on map and aerial photo

#### D. FLOW MEASUREMENTS

1. Finished Water Pumping Station (flow-meter into distribution system)

Measurement Equipment	Туре	Make	Model No.	Serial No.	Size	Calibration Date
Sparling	magnetic flow-meter	"Tiger Mag"	FM 657	H80352693	24 MGD	2/12/2002 by JDR and GR

#### 2. Measurements: Discharge measurements for this examination were made using the magnetic flow-meter listed above. The minimum ploing installation recommendations of the manufacturer appear to be met (Appendix A).

#### E. NARRATIVE/REMARKS/COMMENTS

I conducted the field licensing examination for this water right on June 28.2002. Bob Adams and Scott Calil of United Water Idaho were kind enough to spend the better part of a day walking me through the treatment plant process from the Bolse River intake to the discharge into the 24-inch diameter water main leaving the facility. The plant is fairly complicated with literally hundreds of pumps, valves, and diversions that result in water getting moved around to a considerable extent. Additionally, water can get diverted around, or to, specific processes so that flow reversals can occur within large pipelines and there are multiple sources including a series of infiltration galleries or collector wells that are a mix of surface water and ground water sources. Even though I was somewhat familiar with the general plant design and operations (from previous experience at the treatment facility) I really appreciated Bob and Scott's time in helping me to understand the entire process to be able to satisfy myself that I could account for all of the water moving through the plant.

In its simplest terms, the diversion works can be described in the following way: A caged intake structure on the Bolse River is situated approximately 300 feet upstream of the plant (Figure 2). Bolse River water is diverted to the plant through an underground 36-inch diameter naw water pipe that enters a small (450,000 gallon) underground concrete reservoir beneath the southwest corner of the facility (Figure 3). The concrete roof of the reservoir is also the floor of the raw water pumping station (Figure 4). In this room are five pumps which lift the river water from the reservoir and pressurizes it into a 30-inch diameter pipe and which drives it upward, through a series of treatment processes, to the "top" of the treatment plant. From this coint, the water flows under gravity through a series of treatment trains, filtration beds, and decant operations, to an underground "clear well". diainfection reservoir (1.000.000 gallons), and to the discharge pumping station (Figure 5). Here, five turbine plant (Figure 6).

Although the Marden water treatment plant was designed to obtain all of its supply from the Boise River intake, it can draw water from five separate sources. These are:

1) The Boise River

2) The Boise City Canal

3) Three collector wells (infiltration galleries) along the river bank.

The "Collectors" source wells are unusual and complicated because they have been apportioned as 70% groundwater and 30% surface water by IDWR, because the water from these wells can enter the plant in several wave, and because the water rights associated with these well sources share a point of diversion down river from the MWTP. Both the collector wells and the river raw water pumps are dramatically affected by river stage so that when the river stage is high, significantly more water can be produced by the plant. Because Permit No. 63-12055 is solely a surface water "flood stage" right, the river would typically be at a higher (rather than lower) stage when the right was being used.

Although the general operation of the plant and its water treatment processes are relatively straightforward, the sheer number of pumps and flow options available tend to make a comprehensive evaluation very complex. Whereas UWID has been willing to explain the entire process and even though they appear able to monitor all phases of the water production through individual flow-meters, for the purposes of this evaluation. I have focused on four main aspects of the water plant's design and on the plant's ability to produce Water Right No. 63-12055 solely from its Bolse River diversion works. The four individual components of interest are: 1) the 36-inch diameter intake line off of the Boise River, 2) the new water pumping station which pressurizes the water through the plant, 3) the finished water pumping station which pressurizes the treated water into the distribution system. and 4) the totalizing flow-meter at the discharge pump station. In other words, I first wanted to ascertain whether Permit No. 63- 12055 could be produced solely through the River intake and new water pumping station. For this analysis, two factors need to be considered; 1) the ability of the 36-inch raw water intake pipe to transmit the instantaneous flow-rate to the plant under gravity head, and 2) the pumping capacity of the raw water lift pumps. Those calculations, which are included under the "Calculations" section of the examination form, show that the permitted flow rates are more than possible using only the River Intake portion of the plant. This is not surprising because, after discussion with the design engineer (Carollo Engineers). Lunderstand that this was the design criteria for the intake facility. Therefore, even without the surface water component of the collector wells, there does not appear to be any problem diverting Permit No. 63-12055 into the treatment plant facility using the plant's Boise River intake only. Moving to the output side of the plant, the finished water flows, by gravity, to a discharge pumping station where the treated water is pumped under pressure to the distribution system. An analysis of the performance curves of the discharge pumps and direct observation of the magnetic flow-meter at

the discharge point, show that the facility can produce at significantly higher instantaneous flow rates than are permitted under Permit 63-12056 alone. I observed discharge rates ranging to 28.2 cfs (12.658 gpm) leaving the plant (Figure 7) with four of five available pumps running. These components are discussed individually below.

#### Boise River intake:

A caged intake structure on the Boise River (Figure 2) is connected to the raw water pumping station via a 38-inch diameter pipe. The intake pipe is a total of 360 feet in length and drops one foot in elevation between the River and the treatment plant. The pipe interconnects to a 450,000 gallon concrete cistem underlying the raw water pumping station (Figure 3) which has the same water level as the River under non-pumping conditions. The elevation of the center of the pipe is 2701 feet. The elevations of the minimum and maximum River stages are 2704 and 2712, respectively. Therefore, the gradient or head available to drive water through the pipe, to the plant, ranges from 3 feet to 9 feet (Figure 9). Using the Hazen Williams and Manning equations (see calculations) the range of flow, under these gravity heads, that could move through the 38-inch pipe begins at 28 cfs under the most conservative calculations.

#### Raw water pumping station:

A total of five line-shaft turbine pumps preasurize all of the raw Boise River water through the treatment plant (Figure 4). These pumps are classified by United Water personnel as: one, 2 million gallon per day (MGD) pump. three 4 MGD pumps, and one 8 MGD pump. All but the 60 HP, 6 MGD pump are constant speed pumps with the large pump working off of a variable frequency motor drive. All five pumps together should produce about 20 MGD or 13.889 gallons per minute or 30.95 cubic feet per second which is 6.15 cfs more than the instantaneous diversion rate of Permit No. 63-12055. This pumping capacity is in addition to the three Collector well pumps which pump to the system "downstream" (later in the treatment train) of the raw water pumping station. According to the original treatment plant design (Figure 5), and as best as can be field-verified on site, the total maximum pumping lift from the raw water pumping station reservoir to the elevation necessary to push the raw water to the maximum level within the treatment plant is 31 feet. Reference to the pump-performance curves for the five rawwater pumps (Appendix B) suggests that the five pumps should be capable of 14.415 gpm (32 cfs) under maximum lift conditions. This corresponds closely with the maximum stated production capacity of the plant at 20.7 MGD (Figure 9), Therefore, the pumping capacity of the raw water pumping station appears more than adequate to produce water right No. 63-12055. This would appear to be true even if any one of the raw water pumps, other than the 6 MGD pump, would not be operating; i.e. if one of the constant-speed pumps would be considered redundant (back-up) capacity.

Using standard horsepower equations, all of the raw water pumps are driven by adequately sized electric motors that are more than capable to satisfy the water and brake horsepower requirements taking into account the motor and pump afficiencies.

#### Finished water pumping station

A total of five turbine pumps are used to pressurize the treatsd water into the distribution system. Discharge is initially to a 36-inch diameter manifold and exiting the plant via a 24-inch diameter main line (Figure 6). The pumpperformance curves for all five pumps are included as Appendix C. These pumps are classified by United Water personnel as: 1) two, constant-speed 4-million gation per day (MGD) pumps, 2) two, constant-speed 6-MGD pumps, and 3) one 6 MGD pump which is equipped with a variable frequency motor drive for varying flow rates by regulating the speed of the motor. Judging from the pump-performance curves, estimated maximum pumping water levels, and measured care pressures, this pumping station would appear to be theoretically capable of approximately 17, 000 gpm (37 cfs) or 25,5 MGD. With all five pumps running (but with VFD speed unknown) and with line pressures ranging from 80-to-100 psi, I observed discharge rates fluctuating over the range 11.730 gom: to-12.658 gpm (11:47 AM) according to the Sparling "Tiger-Mag" flow-meter on the final discharge pioking leaving the plant. The observed flow rates (26-to-26 cfs) seem to correlate well with the sustained pumping rates shown by a computer printout of total plant output which I obtained for the previous 24-hour period (Figure 9) from the plant operators. The finished water (treated water exiting the plant) flow rate was measured by the Sparling magnetic flow-meter mentioned above and described in the Flow Measurements section of the examination form. The technical specifications for the meter are included as Appendix A. This appears to be a high-quality instrument with a calibration date of February. 2002. The installation clearances and design specifications of the flow-meter manufacturer appear to be met.

Using standard horsepower equations, all of the finished water pumps are driven by adequately sized electric motors that are more than capable to satisfy the water and brake horsepower requirements taking into account the motor and pump efficiencies.

#### Other observations

The plant was originally designed for 16 MGD (24.75 cfs). This is likely where the 24.8 cfs water right application flow rate originated as well. Owing to the low turbidity (reduced treatment demands) and superior water quality of the Bolse River, the treatment facility is routinely operated at 20 MGD (31 cfs) during continuous production of peak season summer months. During my field examination, I requested a computer print out from the plant's automated monitoring system for the previous 48 hours (the extent of the short-term recoverable data). This graph (Figure 9) shows the finished water flow rate (treated water being pumped into the distribution system) regularly "floating" between 17 and 19 MDG with a peak of over 22 MGD (34 cfs) on the evening prior to my visit.

#### RECOMMENDATIONS:

Observation of the three main, separate and distinct, "water moving" portions of the water treatment plant (Boise River Intake Structure, Raw Water Pumping Plant, and Finished Water Pumping Station) indicate that the three components are well matched at the design capacity of the plant to be able to maintain a continuous sustained flow of 20 MGD (~31 cfs). Therefore, the plant's capacity far exceeds the diversion rate allowable under water right 63-12055. During periods of high river stage, UWID should have no difficulty in producing this water right in its entirety from the Boise River diversion. I recommend licensing at the permitted rate for use anytime surplus water is available on the Boise River (Lucky Peak spilling).

Have conditions of permit approval been met? X yes \_\_\_\_ no

#### F. FLOW CALCULATIONS

XX Additional Computation Sheet Attached

#### Measurement Method:

Instantaneous flow amounts are based upon actual on-site observances of system capacity and analysis of the installed pump performance curves with respect to the gravity head conditions and distribution system pressures. The calculated and observed flow rates appear to be well supported by computer print-outs of treatment plant process information from the previous 48 hour period from UWID's electronic monitoring system using a high-quality, magnetic flow-meter installed according to manufacturers recommendations.

#### Bolse River Intake Structure:

The attached hand-lettered worksheets contain the calculations used to verify the treatment plant's Boise River Diversion works ability to transport the maximum diversion rate of water right 63-12055 under gravity head to the plant's raw water pumping station. Both, the Manning Equation and the Hazen Williams Formula are used to estimate the intake structure's flow-rate at minimum River Stage. The most conservative estimation allows 28 cfs to be conducted to the plant; 3.2 cfs more than the water right's instantaneous diversion rate and 3 cfs more than the sustainable output of the water treatment plant according to UWID personnel.

#### Raw Water Pumping Station:

Observed discharge pressures (gages on the individual pump discharge lines) observed during the field examination ranged between 2 psi and 8 psi depending on which combination of pumps were running. Each discharge is equipped with a check valve, control valve, and a pressure gage (Figure 4). These pressures seem in line with the pumping litts and of the general design schematic (Figure 5) which has very little room for variance. Pump performance curves are shown in Appendix B

#### Finished Water Pumping Station:

At the time of my field examination only four of the five pumps were running with observed discharge rates ranging between 11. 866 gpm (26.4 cfs) and 12.658 gpm (28.2 cfs). With Pump #3 not operating, the observed line pressures (and corresponding flow rates from pump performance curves) are tabulated as follows:

Pump#	UWID pump No.	UWID capacity	Observed	GPM from pump
See Figure 6	l l	rating	gage pressure	performance cuive
1	P-710	2 MGD	76-79 psi	1880 gpm
2	P-720	4 MGD	Not operating	0 gpm
3	P-730	4 MGD	80 psi	3650 gpm
4	P-740	4 MGD	101 psi	2150 gpm
5	P-750	6 MGD	90 psi	4200 gpm

Pump #4 is coupled to a variable frequency drive which "rides" on system demand (pressure). Therefore the total discharge rate fluctuated by a few hundred gpm during the site visit. The calculated (from curves) combined flow rate of 11.880 gpm corresponds almost exactly with the observed flow-meter readings between 11.866 and 12, 576 (Figure 7). The total production capacity of the Finished Water Pumping Station (Figure 6) appears to be significantly greater than the maximum instantaneous flow rate of Water Right N. 12055. This is not surprising since a certain amount of redundant capacity must be built into municipal water systems (to provide back-up in the event of pump failure) and because UWID has additional water rights appurtenant to this facility and point of diversion. Overall, the diversion works are certainly capable of producing water right No. 12055 and all of the installed pumping plant specifications and monitoring equipment are in close agreement.

G. VOLUME CALCULATIONS \_\_\_\_ Not applicable to a municipal water right.

1. Volume Calculations for imigation:

V<sub>I.R</sub> = (Acres Irrigated) x (Irrigation Requirement) =

V<sub>D.R.</sub>= [Diversion Rate (cfs)] x (Days in Irrigation Season) x 1.9835 =

V =Smaller of  $V_{LR}$  and  $V_{DR} =$ 

2. Volume Calculations for Other Uses:



.

#### H. RECOMMENDATIONS

#### **1. Recommended Amounts**

Beneficial Use	Permit No.	Period of Use From	То	Rate of Diversion Q (cfs)	<b>Annual Volume (afa)</b>
Municipal	<u>63-12055</u>	<u>Jan 1.</u>	<u>Dec. 31</u>	24.8 cfs	_N/A
		<b>Totals</b> :		24.8 cfs	<u>N/A</u>

It is recommended that Condition No. 10 of the Permit No. 63-12055 be amended to reflect accepted language developed since issuance of the Permit to describe UWID's service area. The following language is suggested as a condition of the License: "10. Place of use is within the Certificated Service Area of United Water Idaho as determined by the Idaho Public Utilities Commission."

It is recommended that Conditions Nos. 11, 12, 13, and 14 be eliminated as conditions of the License as supported by internal IDWR memo of teleconference between Cindy Zimmerman and Gary Spackman dated 12/22/98 (Appendix D). Removal of the "domestic only" conditions have been routine in the municipal licensing process for UWID and other municipal providers beginning with a precedent set by licensing of UWID's so called "Tenmile Ridge" water rights.

#### 2. Recommended Amendments

Drop P.D. as reflected above	Add P.D. as reflected above	None
X Drop conditions as reflected above	Add P.U. as reflected above	<u>X</u> . Revise language as reflected above

#### I. AUTHENTICATION

Field Examiner's Name	Edward Squires	 Date _	March 12, 2002	

Reviewer\_

Date \_\_\_\_

SEAL



# ATTACHMENT B

#### BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE STATE OF IDAHO

DEPOSITION OF ELIZABETH CRESTO

VOLUME II (Pages 215 - 317)

TAKEN JULY 21, 2015

**REPORTED BY:** 

ANDREA L. CHECK, CSR No. 748, RPR

Notary Public

to th	e Federal On-stream Reservoirs in Water Dist. 63		July 21, 201
	Page 276		Page 278
1	you mean by "storage accounts"?	1	that would prevent someone from manual resetting the
2	Q. So the amount that had accrued to storage	2	program today?
3	under the water right accounting program?	3	A. They're certainly capable of answering yes and
4	A. Yes.	4	reading new files. It doesn't mean that that's the
5	Q. Do you know why that happened?	5	appropriate running of it.
6	A. I believe that was an error.	6	Q. So you're familiar that in the Boise there are
7	Q. An error?	7	water rights with conditions on them, such as water can
8	A. Yes.	8	only be taken when water is being released for flood
9	Q. How did the error occur?	9	control?
9 10	A. I believe I probably did it. I think I I	-	A. Correct.
	think I should not have reset that water right in 2008,	10	
11		11	Q. Is there anything in the accounting program
12	but I do not believe the resulting allocations in that	12	that accounts for those conditions?
13	year or the accrual to that year remained a full	13	A. Nothing automated, no.
14	accrual to the water rights.	14	Q. So how do you account for conditions like that
15	Q. Do you remember why you did it, that reset?	15	in the accounting program?
16	A. I believe I was just learning the accounting	16	A. Right now what you would do is you would turn
17	program. And it takes a long time to learn this	17	that reservoir water right on and off using the rights
18	program, and there's new sets of facts every single year	18	file.
19	that you have to address in the accounting program. And	19	Q. That's something that would also have to be
20	I think that I reset that in error in 2008. And I think	20	done manually?
21	I should have left those reservoir counts the volume	21	A. Correct.
22	should have remained as full instead of being reset at	22	Q. Is that something that you do on a daily
23	the date it occurred.	23	basis?
24	Q. And you set it to the level of physical	24	A. We have not done that. And we have identified
25	storage at that time?	25	that as something that we would like to have an
	Page 277		Page 279
1	A. Yes. And I think that was incorrect.	1	automated process programmed into the accounting. It
2	Q. And you know that on a daily basis what the	2	just has not been accomplished yet.
3	amount of storage is in all of the reservoirs in Boise?	3	Q. And is that something that you are going to
4	A. From gauged measurements, correct.	-	•••••
5		4	recommend to the director, that he change in this
6	O And you said that that reset in 2008 didn't	4	recommend to the director, that he change in this contested case?
	Q. And you said that that reset in 2008 didn't affect accrual?	5	contested case?
7	affect accrual?	5 6	contested case? A. I would not mind making that recommendation.
7 8	affect accrual? A. Well	5 6 7	contested case? A. I would not mind making that recommendation. Q. But I guess, in your opinion, the only way
8	affect accrual? A. Well Q. Wouldn't it have changed how much water was in	5 6 7 8	<ul><li>contested case?</li><li>A. I would not mind making that recommendation.</li><li>Q. But I guess, in your opinion, the only way that the accounting program would take into</li></ul>
8 9	affect accrual? A. Well Q. Wouldn't it have changed how much water was in the unallocated storage account?	5 6 7 8 9	<ul><li>contested case?</li><li>A. I would not mind making that recommendation.</li><li>Q. But I guess, in your opinion, the only way that the accounting program would take into consideration those types of conditions is if someone</li></ul>
8 9 10	affect accrual? A. Well Q. Wouldn't it have changed how much water was in the unallocated storage account? A. I think the accrual that happened early in the	5 6 7 8 9 10	<ul><li>contested case?</li><li>A. I would not mind making that recommendation.</li><li>Q. But I guess, in your opinion, the only way that the accounting program would take into consideration those types of conditions is if someone goes and does a manual override of those individual</li></ul>
8 9 10 11	<ul> <li>affect accrual?</li> <li>A. Well</li> <li>Q. Wouldn't it have changed how much water was in the unallocated storage account?</li> <li>A. I think the accrual that happened early in the season up to the satisfaction of that reservoir right is</li> </ul>	5 6 7 8 9 10 11	contested case? A. I would not mind making that recommendation. Q. But I guess, in your opinion, the only way that the accounting program would take into consideration those types of conditions is if someone goes and does a manual override of those individual water rights?
8 9 10 11 12	<ul> <li>affect accrual?</li> <li>A. Well</li> <li>Q. Wouldn't it have changed how much water was in the unallocated storage account?</li> <li>A. I think the accrual that happened early in the season up to the satisfaction of that reservoir right is unchanged, because that in 2008 it was a large water</li> </ul>	5 6 7 8 9 10 11 12	<ul> <li>contested case?</li> <li>A. I would not mind making that recommendation.</li> <li>Q. But I guess, in your opinion, the only way that the accounting program would take into consideration those types of conditions is if someone goes and does a manual override of those individual water rights?</li> <li>A. At this point in time, that is the mechanism</li> </ul>
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1	conditions that specify a flow rate are much more easily	1	natural flow is accruing to the reservoir storage right.
2	coded in, because that's a mathematical equation. But	2	Q. Is that something that
3	even with, say, one that just blanketly identifies flood	3	A. Or other seniors, I should say.
4	control release, that could be identified. But I don't	4	Q. Is that something that, in your opinion, the
5	believe that is a mathematical-equation type.	5	accounting program should be modified?
6	Q. So there are also conditions there are also	6	A. No, I don't think it should be modified.
7	rights in the Boise that are available only when water	7	Q. And you don't think a junior user that has a
8	is being exchanged for flow augmentation water?	8	condition on their right that says they can take water
9	A. Correct.	9	when it's being released for flood control ought to be
10	Q. How are those accounted for in the accounting	10	able to take that water when it's being released for
11	program?	11	flood control, even if they don't have a natural flow
12	A. Those water rights when that exchange is	12	I mean, a storage right?
13	going, it shows up as a storage use. And it's actually,	13	A. Well, there's differences between what needs
14	probably, more appropriate to say it's done in the	14	to be programmed in and what could be corrected for.
15	storage program, because the actual water right	15	But I guess in that situation that is a natural flow
16	accounting just shows that exchange as a storage use.	16	there isn't any natural flow available in the river.
17	And to rectify that, we use the storage program, and	17	Q. Right. So one of the purposes of this
18	we I'm assuming you're talking about the United Water	18	proceeding is not just how it is but how it should be
19	exchange here. Is that what you're	19	accomplished. And I'm asking the question of whether or
20	Q. Are there more exchanges than that?	20	not, in your opinion, those rights ought to be able to
21	A. No. That's the only one I'm aware of. So	21	take water that's being released for flood control
22	what happens there is it just there's actually not	22	purposes if they don't have a storage right?
23	the water right, if it is in the accounting, it doesn't	23	A. If the flood control right is natural flow
24	have a diversion rate, so, therefore, it shows up always	24	that's available, then they can go ahead and take it;
25	as a storage use.	25	but if the priority isn't
-	Page 281		Page 283
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1	We know when flow augmentation is going on,	1	Q. So you don't think any changes are
2	We know when flow augmentation is going on, and what we do is in the storage program, because it's	2	Q. So you don't think any changes are appropriate?
1	We know when flow augmentation is going on, and what we do is in the storage program, because it's part of the exchange, we transfer water from the		<ul><li>Q. So you don't think any changes are appropriate?</li><li>A. No, because I believe some of that could be</li></ul>
2 3	We know when flow augmentation is going on, and what we do is in the storage program, because it's part of the exchange, we transfer water from the Bureau's account. Because we're saying that that water	2 3	Q. So you don't think any changes are appropriate?
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2 3 4 5	We know when flow augmentation is going on, and what we do is in the storage program, because it's part of the exchange, we transfer water from the Bureau's account. Because we're saying that that water was intended to be released for flow augmentation, it	2 3 4 5	<ul><li>Q. So you don't think any changes are appropriate?</li><li>A. No, because I believe some of that could be accomplished through storage the storage canceling procedure.</li><li>Q. How would that purpose be accomplished by the storage cancellation procedure?</li></ul>
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