



998 Hunters Trail      Anderson, SC 29625  
Phone: 864-332-6534      Fax: 864-224-6116

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## **BOARD AGENDA**

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### **Board of Commissioners' Meeting July 16, 2008**

**Call to Order**

**Pledge of Allegiance**

**Additions to the Agenda**

**Commissioners' Comments**

**Public Comment**

**Approval of Minutes of June 18, 2008**

**I. Information**

1. Financial Report
2. Administration Report
3. Operations and Maintenance Report
4. Engineering Report

**II. Discussion and Possible Action**

1. Drought Ordinance Implementation
2. Raw Water Pump Policy
3. Approve Transmission System Improvements, Phase 1B as a Project
4. Approve Cost Allocation of Transmission System Improvements, Phase 1B

**III. Adjournment**

The Board meeting will be held in the Anderson Regional Joint Water System Headquarters building located at the 998 Hunters Trail (WTP).





*Your Community-Owned and Operated System*  
998 Hunters Trail  
Anderson, SC 29625

**MINUTES OF THE  
ANDERSON REGIONAL JOINT WATER SYSTEM  
June 18, 2008**

**LET THE MINUTES SHOW THAT THE MEDIA WERE NOTIFIED OF THIS MEETING IN ACCORDANCE WITH THE SOUTH CAROLINA FREEDOM OF INFORMATION ACT.**

**COMMISSIONERS PRESENT: Charlie Gibson, Sandy Springs; Benjie McGill, City of Clemson; Dyke Spencer, Powdersville; Douglas Locke, Broadway; Toddy Hopkins, West Anderson; Marshall Kawalski, Hammond; Tim Hood, Town of Williamson; Duane Rogers, Big Creek; David Davis, Belton-Honea Path; Phillip Mishoe, Town of Central; Leo Treadaway, Starr-Iva; Jeff Caldwell, City of Anderson; Jerry Richey, Homeland Park, Richard Bork, Town of Pendleton**

**OTHERS PRESENT: Eddie Makison, ARJWS; Chuck Cortez, Big Creek/Hammond; Chris Eleazer, City of Anderson; Phil Parkins, CDM; Connie Finger, ARJWS; David Melton, ARJWS; Ann Gates, ARJWS; Scott Willett, ARJWS; Jennifer Barrington, ARJWS; Tommy Phillips, Broadway; Belton Zeigler, Pope Zeigler Attorneys; Gary Pope, Pope Zeigler Attorneys; Frankie McClain, City of Anderson; Frank Gibbs, Attorney for City of Anderson, City of Clemson; Keith Overstreet, Design South; John Moore, City of Anderson; Chuck Joye, Design South; Jerry Cox, Broadway; Trey Burns, ARJWS**

Vice Chairman Jeff Caldwell called the meeting of Anderson Regional Joint Water System to order at 10:03 a.m. on June 18, 2008.

Vice Chairman Caldwell opened the meeting with the Pledge of Allegiance.

There were no additions to the agenda.

Under Commissioners' Comments, Vice Chairman Caldwell inquired about the Water Resource Meeting held earlier in the week. Dyke Spencer had attended and said the speaker did not show but there was a lengthy discussion regarding the 3600 CFS release from Lake Hartwell to Lake Russell.

Benjie McGill had a Public Comment about a golf tournament that will be held with the proceeds to help offset medical expenses for Jeff Hinson who is in Hospice. Scott Willett also informed the Board of employee Will Drake and his absence due to reoccurring cancer.

Charlie Gibson made a motion and Richard Bork seconded to approve the minutes of the May 21, 2008 meeting. Motion carried.

### **I. Information**

1. Financial Report
2. Administration Report
3. Operations and Maintenance Report
4. Engineering Report

The above reports are for information and for each member to review as written. A copy of each report is attached to the file copy of these minutes.

#### **5. Second Amendment to the Restated And Amended Water Sale And Purchase Agreement (Peak day delivery guidelines)**

Frank Gibbs, Attorney for City of Anderson and City of Clemson, voiced some concern and clarification on how 15% would be considered in the transmission system improvement. This will be reviewed by Mr. Gibbs and Belton Zeigler, Attorney for ARJWS, to better understand the proposed amendment.

### **II. Public Hearing: Transmission Improvements Phase 1A**

Vice Chairman Caldwell requested a motion to conduct the required public meeting for the Phase 1A Transmission System improvements to gather comments from the community, as required under the guidelines for State Revolving Loan funded projects. Mr. McGill made a motion and Mr. Spencer seconded to conduct the meeting.

There were no speakers present.

Written comments received by 4:00 pm on June 25, 2008, will be included in the official public meeting transcript.

Vice Chairman Caldwell requested a motion to close the required public meeting. Mr. Bork made a motion and Mr. Spencer seconded to close the public meeting.

A copy of the information provided to the public is attached to the file copy of these minutes.

### **III. Discussion and Possible Action**

1. Election of FY 2008/09 Board Officers

Those nominated by the nominating committee were as follows:

Chairman: Jeff Caldwell  
Vice Chairman: Duane Rogers  
Secretary: David Davis

Vice Chairman Caldwell inquired if there were any additional nominations for Chairman, Vice Chairman or Secretary.

Mr. Spencer nominated Norb Steeber for Chairman and Marshall Kowalski seconded. Having no other nominations, Mr. Bork made a motion to close the nominations and Mr. Kowalski seconded.

Because there were two nominated for Chairman, a separate vote was required.

The results from the commissioners' vote was: Jeff Caldwell 7 and Norb Steeber 4  
Vice Chairman Caldwell will be the FY 2008/09 Chairman.

Mr. Bork made a motion to accept Mr. Rogers and Mr. Davis as Vice Chairman and Secretary and Mr. Kowalski seconded. Motion carried.

There were no additional nominations for At-Large Executive Committee members.

Mr. Marshall made a motion and Mr. McGill seconded to close the nominations for At-Large Executive Committee members.

Those nominated were: Rick Cotton and Doug Locke. Mr. Kowalski made a motion and Mr. Bork seconded to accept those nominated. Motion carried.

A copy of this Board Election is attached to the file copy of these minutes.

## 2. Approve FY 2008/09 O& M Annual Budget

Mr. Willett outlined the Fiscal Year 2008-09 Budget which is attached to the file copy of these minutes.

Vice Chairman Caldwell, speaking for the City of Anderson and for Rick Cotton, City of Clemson, who was absent, thought the \$400,000 for potential litigation was excessive.

Mr. Willett said if the litigation is deferred a rebate would be given to members. The majority vote would determine how the money would be rebated.

Mr. Spencer had some questions on the cello units.

Mr. Willett handed out a copy of an article from the Greenville News about the increased cost of electricity and said this rising cost needs to be considered.

Mr. Spencer made a motion to accept the FY 2008/09 O & M Annual Budget as written and Mr. Rogers seconded with the City of Clemson, the City of Anderson and the Town of Central abstaining. Motion carried.

## 3. Approve FY 2008/09 Water Rate for Clemson University

Management recommends increasing the water rate for service to Clemson University from \$1.18 per thousand gallons to \$1.25 per thousand gallons.

Mr. Rogers made a motion and Charlie Gibson seconded to increase the water rate. Motion carried.

A copy of this report is attached to the file copy of these minutes.

## 4. Approve Transmission System Improvements, Phase 1B as a Project

Mr. McGill made a motion to defer the vote on the Transmission System Improvements, Phase 1B as a Project, and Phillip Mishoe seconded.

At this time, Mr. Gibbs, spoke for the City of Anderson and the City of Clemson. Mr. Gibbs handed out a copy of an e-mail that he had sent to Mr. Zeigler requesting some proposal information. Mr. Gibbs said he had not received the information and felt until that information was received and reviewed the vote should be deferred.

Mr. Spencer opposed stating that deferral would not prove beneficial it would only delay the project.

A vote was taken on the motion to defer and those in favor were: Sandy Springs, City of Clemson, City of Anderson, Town of Central, Hammond, and Town of Pendleton.

Those opposed were: Powdersville, Broadway, Belton/Honea Path, Town of Williamston, Homeland Park and Big Creek. West Anderson and Starr-Iva abstained.

The Transmission System Improvements, Phase 1B as a Project vote was deferred until next Board meeting, July 16<sup>th</sup>. The Attorneys, Engineers, City of Anderson, City of Clemson, ARJWS staff and any Board members wishing to attend will have a meeting Monday, June 23<sup>rd</sup>, to answer the questions imposed by the City of Anderson and the City of Clemson.

A copy of this report is attached to the file copy of these minutes.

5. Approve Cost Allocation of Transmission System Improvements, Phase 1B

A motion was made by Mr. McGill to pull item five from the agenda due to item four having been deferred. Mr. Davis seconded and motion carried.

**IV. Adjournment**

Having no further business Mr. Bork made a motion and Mr. Davis seconded to adjourn the meeting at 11:00 am.

Respectfully submitted,

Duane Rogers  
Big Creek



ANDERSON REGIONAL

JOINT WATER SYSTEM

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**BOARD MEMORANDUM**

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July 7, 2008

**Subject**

June 2008 Financial Report

**Discussion**

The attached tables identify June spending, encumbrances and deposits to the Pumped Repair and Replacement Account and the System Repair and Replacement Account. At the end of June, the Pumped R&R Account had an available balance of \$339,423.49 net of encumbrances. The System R&R Account had an available balance of \$500,029.64 net of encumbrances. Note that \$354,900 of the System R&R has been encumbered to advance the final design of the Phase 1A Transmission Improvements and will be reimbursed from loan proceeds. The Operating Fund had a balance of \$475,627.85. System reserves of \$200,000 are invested in secured notes. Total unrestricted cash available is \$1,519,594.29 corresponding to 80.92 days of cash based on the adopted Budget.

	Balance (5/31/2008)	Balance (6/30/2008)
Pumped R&R	\$342,535.27	\$339,423.49
System R&R	\$398,123.81	\$500,029.64
Operating Fund	\$357,480.55	\$475,627.85
Rate Stabilization fund	\$104,468.51	\$4,513.31
Reserves	\$200,000.00	\$200,000.00
TOTAL Unencumbered Cash	\$1,402,608.14	\$1,519,594.29
FY 2007 -08 Op Budget	\$6,854,183.00	\$6,854,183.00
Days of Cash	74.69	80.92

A review of the June Profit and Loss Statement shows that actual expenses were over budget projections for the month by \$30,275 associated with expected seasonal increased cost for Chemicals (+\$16,561) and Energy (+\$13,865). Revenue generation was also \$18,425 over the budget estimate. For the Fiscal Year, expenditures were \$275,090, or 3.9%, higher than budgeted due to higher variable pumping costs due to increased drought demands (Electricity +\$90,626), conflict resolution (Professional Fees +\$69,673) and lower interest earnings (Debt Service Payments +\$58,571). Revenue's produced were \$128,814, or 1.8%, more than originally budgeted, resulting in a net loss of \$147,101.

Approved by: Scott Willett, Executive Director

Attachments: Pumped Repair and Replacement Account Summary  
System Repair and Replacement Account Summary  
Profit and Loss Budget vs. Actual

# PUMPED REPAIR & REPLACEMENT ACCOUNT

June 30, 2008

<u>DATE</u>	<u>PAYEE</u>	<u>DEPOSIT</u>	<u>AMOUNT</u>	<u>BALANCE</u>
6/1/08	BALANCE BROUGHT FORWARD			342,535.27
06/24/08	TRANSFER FROM O & M	6,799.33		349,334.60
06/30/08	PUMPS, PARTS & SERVICE		10,193.95	339,140.65
06/30/08	DEPOSIT (INTEREST)	282.84		<u>339,423.49</u>
	LESS EMCUMBERED FUNDS			-
	<b>BALANCE UNEMCUMBERED FUNDS</b>			<b><u>339,423.49</u></b>

# SYSTEMS REPAIR & REPLACEMENT ACCOUNT

June 30, 2008

<u>DATE</u>	<u>PAYEE</u>	<u>DEPOSIT</u>	<u>AMOUNT</u>	<u>BALANCE</u>
06/01/08	BALANCE BROUGHT FORWARD			975,376.55
06/09/08	HUNTINGTON & GUERRY ELECTRIC CO		30,398.30	944,978.25
06/16/08	ADVANCED FENCE SYSTEMS		12,983.16	931,995.09
06/16/08	WILSON REFRIGERATION & ELECTRIC		3,113.00	928,882.09
06/24/08	TRANSFER FROM O & M	100,303.81		1,029,185.90
06/30/08	HEYWARD INCORPORATED		3,839.32	1,025,346.58
06/30/08	DEPOSIT (INTEREST)		806.74	1,026,153.32
	LESS ENCUMBERED FUNDS			<u>526,123.68</u>
	BALANCE UNENCUMBERED FUNDS			<u>500,029.64</u>

<u>ENCUMBERENCES</u>	<u>BUDGET</u>	<u>BALANCE</u>
RAW WATER PUMP	124,350.00	80,958.68
HYDRAULIC MODELING PROJECT TASK #5	54,428.00	-
WTP ELECTRICAL SYS ENGINEERING REPORT	24,800.00	3,720.00
FINAL DESIGN OF PHASE 1 TRANSMISSION IMPROVEMENTS	354,900.00	326,508.00
REBUILD CLARIFIER #2	247,500.00	114,937.00
		<u>526,123.68</u>



# ANDERSON REGIONAL JOINT WATER SYSTEM

	TOTAL			
	Jun 08	Budget	Jul '07 - Jun 08	Budget
<b>Income</b>				
6000 · FEES O & M + CAP				
6001 · FEES O & M -TOTAL				
6001.1 · Base O & M Subtotal	0.00	229,924.25		2,759,091.00
6001.2 · Pumped O & M Subtotal	0.00	18,056.59		216,679.00
<b>Total 6001 · FEES O &amp; M -TOTAL</b>	<b>0.00</b>	<b>247,980.84</b>		<b>2,975,770.00</b>
6002 · FEES CAP	0.00	318,531.91		3,822,383.00
6000 · FEES O & M + CAP - Other	599,609.11		6,908,217.80	
<b>Total 6000 · FEES O &amp; M + CAP</b>	<b>599,609.11</b>	<b>566,512.75</b>	<b>6,908,217.80</b>	<b>6,798,153.00</b>
6010 · FEES- MISC. INCOME	5,745.00	3,750.00	63,749.12	45,000.00
6015 · TRANSFERS FROM RSF	0.00	16,666.67	200,000.00	200,000.00
<b>Total Income</b>	<b>605,354.11</b>	<b>586,929.42</b>	<b>7,171,966.92</b>	<b>7,043,153.00</b>
<b>Expense</b>				
8010 · SALES TAX ACCRUAL	0.00	258.33	3,391.87	3,100.00
8050 · ADVERTISING	105.33	208.33	737.55	2,500.00
8060 · OFFICE SUPPLIES/EXPENSES	471.69	708.34	14,016.91	8,500.00
8065 · DUES/SUBSCRIPTIONS	461.74	616.67	6,150.82	7,400.00
8070 · BANK SERVICE CHARGES	0.00	50.00	2,350.36	600.00
8080 · DEBT SVC 2002 Bond Series	310,827.08	310,027.08	3,778,895.59	3,720,325.00
8081 · DEBT SVC 2005 Bond Series	27,105.88	27,105.83	325,270.56	325,270.00
8090 · AUTO/TRUCK EXPENSE	3,353.87	2,166.67	29,684.28	26,000.00
8105 · RENT	0.00	333.33	2,162.87	4,000.00
8110 · LICENSES/PERMITS	307.00	84.83	38,183.50	37,500.00
8120 · Lease/Purchase Miox Gen. Equip	0.00	7,336.00	83,792.72	88,032.00
8130 · STATIONARY/PUBLICATIONS	0.00	25.00	244.59	300.00
8140 · SEMINARS & CONVENTIONS	75.00	450.00	3,462.00	5,400.00
8150 · POSTAGE/FREIGHT	282.64	200.00	2,751.81	2,400.00
8160 · FILM & PROCESSING	0.00	8.33	0.00	100.00
8175 · METER REPAIR	907.69	1,008.34	1,615.54	12,100.00
8180 · SECURITY	56.99	483.33	604.14	5,800.00
8200 · PUMP MAINT/REPAIR	491.90	3,224.98	44,447.02	38,700.00
8220 · PROFESSIONAL FEES	12,604.73	5,791.68	139,172.68	69,500.00
8300 · INSURANCE	2,036.90	7,562.09	82,385.12	90,745.00
8400 · LABORATORY	6,231.28	4,341.66	50,101.31	52,100.00
8500 · WATER TREATMENT	4,115.56	3,408.33	63,508.84	40,900.00
8600 · PAYROLL EXPENSES	99,744.70	100,963.00	1,239,626.52	1,211,556.00
8700 · TELEPHONE	2,076.99	3,466.67	32,688.11	41,600.00
8800 · MISCELLANEOUS	1,814.88	1,333.34	25,620.38	16,000.00
8820 · CUSTODIAL CARE	1,292.89	537.50	9,332.19	6,450.00
8830 · REPAIRS/MAINTENANCE	11,211.27	3,400.00	49,684.77	40,800.00
8840 · CHEMICAL SUPPLIES	43,061.37	26,500.01	307,448.66	318,000.00
8850 · TANKS/STANDPIPES/RESEVOIRS	879.27	433.33	27,543.46	5,200.00
8860 · UTILITIES	84,323.80	70,458.34	936,126.35	845,500.00
8870 · TRAVEL	0.00	300.00	6,935.90	3,600.00
8871 · MANAGER'S EXPENSE	0.00	100.00	714.79	1,200.00
8872 · BOARD EXPENSE	0.00	150.00	1,349.55	1,800.00
8873 · STAFF INCENTIVE PROGRAM	0.00	50.00	0.00	600.00
8874 · TRAINING & EDUCATION REIMBURSE	0.00	683.33	6,272.50	8,200.00
8875 · MEALS/ENTERTAINMENT	392.22	183.33	2,794.39	2,200.00
<b>Total Expense</b>	<b>614,232.67</b>	<b>583,958.00</b>	<b>7,319,067.65</b>	<b>7,043,978.00</b>
<b>Net Ordinary Income</b>	<b>-8,878.56</b>	<b>2,971.42</b>	<b>-147,100.73</b>	<b>-825.00</b>



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**BOARD MEMORANDUM**

July 8, 2008

**Subject**

June Administration Report

**Discussion**

Billing

All payments for the month of May have been received. Meters were read on June 30th, with usage up approximately 23.78% from last month (for the same number of days), and up about 8.2% for the same period/same number of days last year. June bills were mailed on July 7th.

AGENCY	PREV. YR SAME MONTH	LAST MONTH	CURRENT
<b># of Billing Days</b>	<b>31</b>	<b>29</b>	<b>32</b>
Anderson	166,253,607	133,348,533	158,487,706
Big Creek	38,300,000	29,500,000	44,800,000
Broadway	27,936,300	21,540,000	29,308,500
Clemson	60,400,000	52,800,000	82,600,000
Clemson Univ	33,800,000	24,300,000	41,400,000
Hammond	99,300,000	63,400,000	112,000,000
Homeland Park	22,086,000	18,841,000	22,262,000
Pendleton	14,320,000	9,810,000	13,450,000
Powersville	30,930,000	18,190,000	32,590,000
Sandy Springs	79,496,000	58,969,000	88,758,000
Starr-Iva	42,100,000	32,300,000	42,200,000
West Anderson	58,622,000	42,501,000	67,145,000
Williamston	30,000,000	24,000,000	31,600,000
<b>TOTALS:</b>	<b>703,543,907</b>	<b>529,499,533</b>	<b>766,601,206</b>

Seasonal Surplus Charges for the month of June were \$9,365.90 for 7,937,000 gallons. Gallons-to-date are now 179,690,000 and total dollars \$207,249.78.

Prepared by: Connie Finger, Business Manager  
 Approved by: Scott Willett, Executive Director





ANDERSON REGIONAL

JOINT WATER SYSTEM

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**BOARD MEMORANDUM**

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July 7, 2008

**Subject**

June 2008 Operations and Maintenance Report

**Discussion**

***Operations***

As of July 3, 2008 Lake Hartwell was at 649.35 ft above mean sea level. This is 10.65 feet below full pool. Raw water is being taken from the second gate of the intake structure. There is 14.35 feet of water above the middle intake gate. Water temperature at the second gate is eighty-two degrees. As water temperatures rise, processes with respect to settled water turbidity goals are easier to achieve. The Joint Water System reached 100% settled water turbidity goal for the month of June. Raw water quality remains generally good. Raw water turbidity is normal. Raw water, settled water, and finished water pH levels are normal. The maximum day for June was 65.4% of finished water capacity.

In addition to quality sampling for the Lake Hartwell Water Treatment Plant, Joint Water System staff processed 158 total coliform samples for local entities. Two member agencies, West Anderson and Williamston have taken advantage of the offer to have DBP stage 2 samples taken by ARJWS laboratory staff.

**Water Production Data**

	Average	Minimum	Maximum	Total
Raw Water (MG)	32,888,000	14,752,000	30,070,000	986,530,000
Finished Water (MG)	25,528,000	20,187,000	27,845,000	765,837,000
Finished Max Capacity	59.60%	47.20%	65.40%	59.60%

NOTE: Percentages are finished water capacities.

**Weather Data**

	Minimum	Maximum	Total
Rainfall	0.00	0.32in.	0.52 in.
Temperature	61 °F	100 °F	N/A
Humidity	18%	100%	N/A

### Water Quality Data

	Raw	Settled	Finished
pH	6.96	6.48	7.05
Turbidity (NTU) Range	2.0 to 3.7	0.49 to 0.99	0.05 to 0.08
Turbidity (NTU) Average	2.84	0.72	0.06
Turbidity (NTU) Exceedance	N/A	0.0%	0%
Residual Disinfectant (ppm)	N/A	0.88	1.16

NOTE: Area Wide Optimization Program Goal equals 1.0 NTU or less for settled water turbidity 95% of the time. Regulations require 1.0 NTU or less for finished water.

ARJWS has completed twenty- four months of Long Term 2 Enhanced Surface Water Treatment Rule testing. Results for the twenty-third month are negative for Cryptosporidium and Giardia. The Long Term 2 testing period has been completed. With absence of Cryptosporidium and Giardia in all samples taken, no additional treatment techniques should be required.

### Power Consumption

Operations staff continues to optimize energy consumption at the Water Treatment Plant. Efforts for the last year have resulted in a 19.4% decrease in on-peak power consumption resulting in a 10.1% decrease in unit power costs (\$ per million gallons produced) all while producing 3.4% more water than the previous year.

Month	On Peak Kw	Off Peak Kw	Total Kw	Finished Water MG	\$/MG
Jun-06	368,000	1,390,400	1,390,400	662.4	\$120.72
Jul-06	331,600	1,100,400	1,432,000	715.8	\$112.95
Aug-06	323,200	907,600	1,230,800	684.0	\$101.22
Sep-06	282,400	866,400	1,148,800	545.6	\$102.22
Oct-06	226,800	786,400	1,013,200	578.1	\$78.01
Nov-06	242,400	722,400	964,800	498.3	\$92.09
Dec-06	198,400	721,600	920,000	481.3	\$87.71
Jan-07	223,600	858,000	1,081,600	495.2	\$101.97
Feb-07	194,400	751,600	946,000	423.8	\$100.48
Mar-07	210,800	890,800	1,101,600	530.3	\$75.15
Apr-07	191,600	1,001,600	1,793,200	555.5	\$75.90
May-07	238,400	1,138,000	1,376,400	682.6	\$82.78
Jun-07	236,800	979,200	1,216,000	644.8	\$87.41
Jul-07	224,000	1,137,200	1,411,200	777.3	\$91.16
Aug-07	226,800	1,717,200	1,438,000	684.1	\$95.83
Sep-07	228,200	1,040,800	1,264,000	639.9	\$82.42
Oct-07	208,800	984,400	1,193,200	582.2	\$78.86
Nov-07	204,400	820,400	1,024,800	467.3	\$86.63
Dec-07	191,600	841,200	1,032,800	499.4	\$79.90
Jan-08	215,600	854,200	1,069,800	453.9	\$113.98
Feb-08	178,400	735,400	914,000	481.7	\$75.94
Mar-08	176,400	803,400	979,600	502.2	\$76.95
Apr-08	197,600	845,200	1,042,800	589.6	\$70.23
May-08	254,400	1,220,440	1,474,840	765.8	\$82.82

***Maintenance***

- Lugs have been welded on the old caustic tank and it is ready for removal
- Weekly inspections are being performed on CBS and Highview booster stations. These sites are visited twice a week as part of our preventative maintenance program.
- The spare motor for Highview #3 has been received.
- The last outside lighting circuit has been completed and provisions for future temporary power made.
- Problems are being encountered with the filter effluent actuators on the older filters. Quotes are being obtained to upgrade these actuators.
- The old curbing for the base for Raw Water #5 has been removed. The steel base has been received from General Machine and will be painted as soon as possible. Once this base has been set into place, forms will be made and grouting performed.
- Transmitter sensing lines on filters 1-5 have been re-plumbed and the transmitters cleaned. This will be another item placed on the preventative maintenance list.
- The fluoride injection point failed. The injection tube broke and fluoride caused a leak at the injection point. The injection tube will be shortened to hopefully relieve stresses caused by high flows in the line.
- Flowserve has indicated that the pump encasement (raw water #4) will be picked up soon. No reply on the date has been received since our last correspondence on July 1.

Prepared by: Eddie Makison, Maintenance Manager  
David Melton, WTP Superintendent

Approved by: Scott Willett, Executive Director





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## BOARD MEMORANDUM

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July 8, 2008

### **Subject**

June Engineering Update

### **Discussion**

#### ***Transmission System Improvements***

A public meeting was held on June 18, 2008 as part of an SRF requirement. Staff is currently working on completing the loan application for the Budget and Control Board. Soil borings have been completed at the railroad. ARJWS has reviewed the 60 % design plans and specs. CDM is currently working on 100% completion.

#### ***Lake Hartwell WTP***

A Study Plan for an abbreviated high-rate filter study was submitted to SCDHEC June 25, 2008. Approval is expected mid-June.

#### ***GIS Implementation***

Trey has been performing a QA/QC review of data collected. He is also working on completing the booster stations and related appurtenances. The only outstanding field work is to GPS system coordinates of valves located near the Hwy 28/Whitehall Rd. intersection. Significant traffic control will be necessary at this location.

#### ***Reservoir No. 1***

ARJWS has purchased the pressurized plugs for the upcoming dive in Reservoir No. 1. The diving is scheduled to occur July 30, 2008.

#### ***Comprehensive Electrical Study***

A meeting will be scheduled with the Emergency Generator Committee in July 2008 to discuss the findings of the Comprehensive Electrical Study. Due to previous discussions with Duke Energy, CDM has begun to study the electrical system at Clemson Booster Station. The substation appears to be at capacity on the power supply side. Several safety issues have already been noted by Duke and ARJWS staff.

#### ***Clarifier No. 2***

The drives were shipped June 30, 2008 with expected delivery July 8, 2008.

### ***Residuals Program***

ARJWS has received the soil analysis results for the alum sludge. Clemson Extension has reviewed the results of the animal waste analysis and concluded that there is not much value in terms of nutrients for this soil. Clemson Extension did recommend contacting the local Cattleman's Associations in Pickens, Anderson, and Oconee Counties to see if anyone who is renovating their pastures may want to plow soil from our stockpile into their fields. Anderson County Solid Waste Division has also been contacted to see if the soil could be used to help meet daily cover requirements at the Starr Construction and Demolition Debris Landfill.

### ***Clemson House Tank***

Utility Service Co. mobilized June 23, 2008 and is tentatively scheduled to be complete the end of July. AT&T will then mobilize to re-install cell equipment at the tank.

Prepared by: Jennifer H. Barrington, P.E., System Engineer

Approved by: Scott Willett, Executive Director



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## BOARD MEMORANDUM

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July 8, 2008

### **Subject**

Notice of Drought Ordinance Implementation

### **Notice**

The Anderson Regional Joint Water System is in a declared SEVERE DROUGHT situation as identified in the Joint Water System's Drought Management Plan and Drought Response Ordinance and substantiated by declarations of the SC Drought Response Committee. Per the ordinance, all customers are asked to reduce water demands on the system by 3%. The Joint Water System is asking for voluntary curtailment of all nonessential water use within the service area. Residents are advised to take appropriate actions to ensure the maximum utilization of available water resources by reviewing the need for outdoor water use practices and increasing awareness of essential indoor uses. Member agencies are asked to initiate or intensify water conservation messages included in customer communications. The Joint Water System will implement a drought awareness and water conservation campaign.

### **Background**

On March 2, 2004, the Anderson Regional Joint Water System adopted a Drought Response Ordinance to establish a plan and procedures for managing water demand and evaluating supply options before and during a drought-related water shortage. The intent is to satisfy the requirements of the Drought Response Act of 2000 (Code of Laws of South Carolina, 1976, Section 49-23-10, et seq., as amended) with the goal of achieving the greatest public benefit from domestic water use, sanitation, and fire protection and to provide water for other purposes in an equitable manner.

The entire service area has been under a Severe Drought declaration since September 5, 2007. At its June 30, 2008 meeting, the SC State Drought Response Committee has issued an Extreme Drought declaration for 5 counties in the upstate including Pickens County. The committee did not impose any mandatory water-use and withdrawal restrictions, but did encourage water systems in the extreme drought areas to reduce water use as much as possible. The committee will continue to evaluate information and plans to meet again in about a month to review conditions and determine if additional actions to conserve water are needed. If present trends continue, it is considered likely that the Anderson area will be reclassified as an extreme drought area which would require mandatory restrictions.

Water levels in Lake Hartwell were at 648.82' above MSL on July 8, 2008 with forecasts indicating that the next local drought trigger of 646' above MSL in Lake Hartwell will be reached mid to late August unless significant precipitation occurs. Short term forecasts (up to 2 week) indicate an equal probability of near normal precipitation. Long range weather forecasts are predicting less than normal precipitation for the upcoming winter.

The Joint Water System understands the fundamental need to make efficient use of the limited and valuable water resource under its stewardship in order to protect the public's health and safety and environmental integrity. The Joint Water System Drought Response Ordinance provides policies and the authority to fulfill address this situation. The Drought Ordinance identifies three triggers for use during drought or demand water shortages that describe when specific phases of the Drought Response Ordinance are implemented. The system triggers are as follows:

*Moderate Drought Phase*

1. Reservoir at 652' msl.
2. Average daily use greater than 24 MGD for 3 consecutive days
3. Equipment failure that affects 10% of plant capacity.

*Severe Drought Phase*

1. Reservoir at 646' msl
2. Average daily use greater than 28 MGD for 3 consecutive days
3. Equipment failure that affects 15% of plant capacity

*Extreme Drought Phase*

1. Reservoir at 638' msl
2. Average daily use greater than 32 MGD for 3 consecutive days
3. Equipment failure that affects 25% of plant capacity

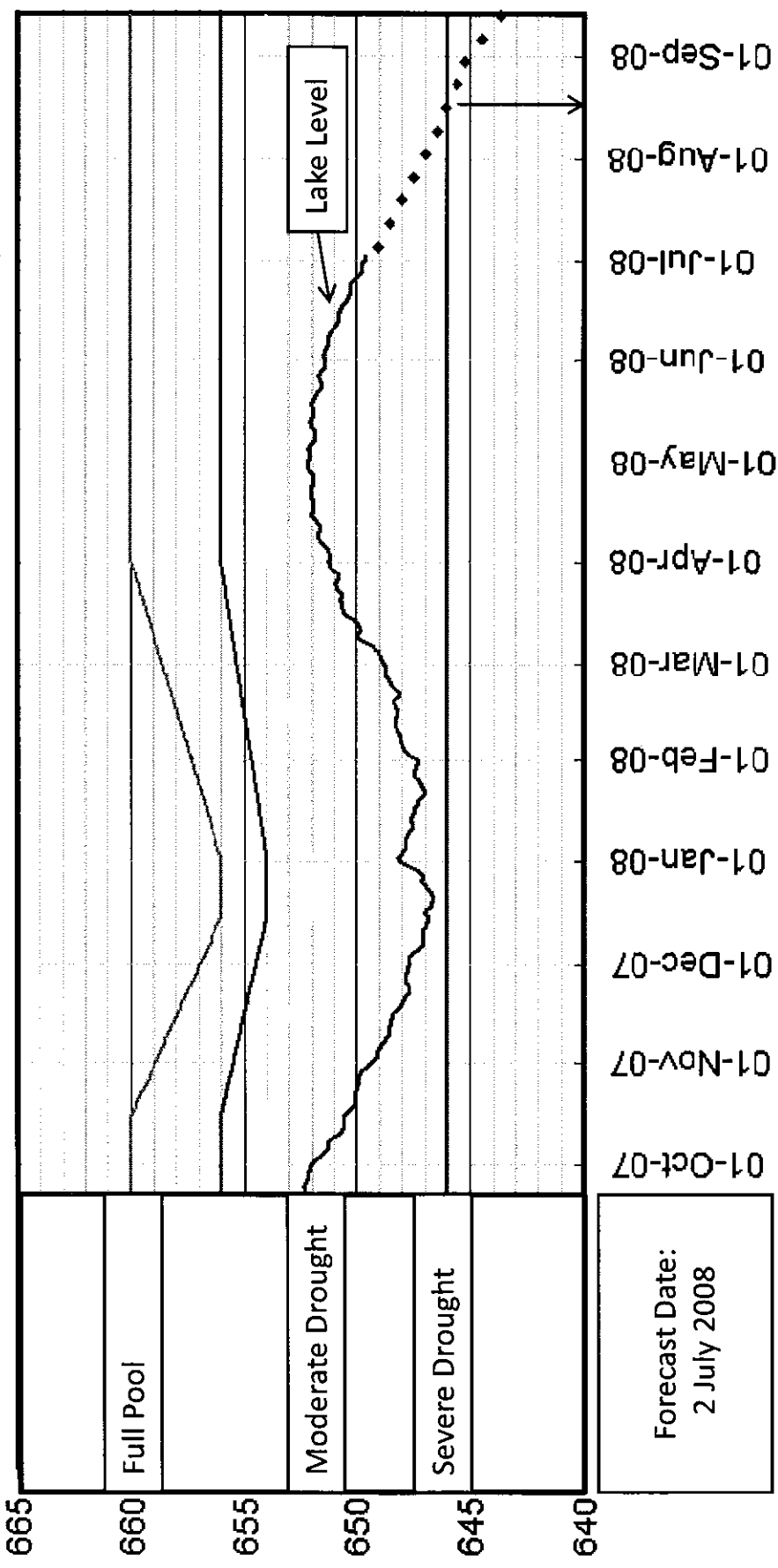
Each Drought Phase calls for specific actions by the Joint Water System and its member agencies. The Severe Drought Phase calls intensifying voluntary reductions in water use. Based on existing weather forecasts and the Corps' of Engineers lake level forecasts, Joint Water System customers will likely enter an Extreme Drought Phase in late November, that will call for mandatory reductions in use and financial penalties for non-compliance. Note that declaration of extreme drought by the SC State Drought Response Committee would also trigger a local Extreme Drought declaration.

Approved by:            Scott Willett, Executive Director

# Hartwell Lake

Assumes inflows begin around 4% of Normal and return to 25% over 10 weeks

Elevation  
above Sea  
Level (MSL)



## Joint Water System Drought Classification:

- 652' MSL - Moderate Drought - Voluntary Restrictions, Reduce non-essential watering
- 646' MSL - Severe Drought - Increasing Restrictions, Additional 3% decrease in Demand
- 638' MSL - Extreme Drought - Mandatory Restrictions, Possible Supply Limitations





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## BOARD MEMORANDUM

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July 8, 2008

### **Subject**

Raw Water #3 and Pump Procurement Policy

### **Recommendation**

Approve retention of Raw Water Pump #3 and rescind Sole Sourcing Policy for larger pump procurement.

#### *Alternatives:*

1. Approve retention of Raw Water Pump #3 and maintain Pumps Parts and Service as sole source vendor for large pumps.
2. Do not accept Raw Water Pump #3 and rescind Sole Sourcing Policy for larger pump procurement.
3. Maintain previous Board Direction: Do not accept Raw Water Pump #3 and maintain Pumps Parts and Service as sole source vendor for large pumps.

### **Fiscal impact**

Approval to retain Raw Water Pump #3 will result in a cost savings of over \$150,000. Elimination of sole source requirement will result in a more competitive bidding process for future pumps and ultimately lower costs.

### **Background**

In September 2005 the Board of Commissioners directed that Raw Water Pump #3, a 600-HP vertical turbine pump manufactured by Patterson Pumps not be accepted. The Board also directed that the Joint Water System would specify the exclusive use of Worthington/Ingersoll Dresser pumps, resulting in a sole source vendor selection of Pumps, Parts and Service, their exclusive area vendor.

### **Background**

The installation of Raw Water Pump # 3 (RW3) has a complicated history that revolves around what was initially perceived to be inadequate restraint resulting in intermittent questionable 'knocking' sounds. Numerous attempts by the manufacturer to eliminate the potential deficiency failed, resulting in the decision to reject the pump. It was allowed to remain in service during the procurement period for its replacement. Due to delays in the delivery and subsequent malfunction of its replacement, RW3 will have been in beneficial service for almost 3 years. Patterson Pumps has notified staff that they have effectively written the pump off and would negotiate settlement for partial payment for the additional trust restraint system installed. If the Joint Water System elects to return RW3, it could expect reimbursement of less than \$40,000 but

would be required to purchase and install another 600-HP replacement pump (estimated cost \$193,000) in order to maintain the water treatment plant's capacity rating.

DHEC establishes the water treatment plant's rated reliable capacity by eliminating the largest pump from consideration at each step in the treatment process. In the case of the raw water pumps, our present (and potential future rating) require the actual use of 3 600-HP pumps with a fourth 600-HP pump held in reserve. Note also that staff is presently installing a 400-HP vertical turbine pump as Raw Water #5 that will provide additional raw water pumping capacity.

Due to the beneficial service already received, the significant cost savings and the availability of sufficient raw water pumping capacity for intermediate term needs, staff is proposing that RW3 be dedicated as the reserve pump, thus removing it from primary use and allowing it to fulfill the reliability role. In order to promote greater competition among pump vendors and allow a greater range of alternatives to be considered, staff is also recommending the elimination of the sole sourcing policy established by the Board.

Approved by:            Scott Willett, Executive Director



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## BOARD MEMORANDUM

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July 8, 2008

### **Subject**

Approve Phase 1B of the transmission improvements, a transmission line between Clemson Boulevard and Highview Pump Station and related improvements as a project as such term is used in Section 6-25-110 of the Code of Laws of South Carolina, 1976, as amended.

### **Recommendation**

Approve Phase 1B of the transmission improvements as a project as such term is used in Section 6-25-110 of the Code of Laws of South Carolina, 1976, as amended and authorize the Executive Director to direct final design, ROW acquisition negotiations and preliminary debt issuance planning to construct Phase 1B of the transmission improvements. This phase consists of a 20" transmission line from Clemson Boulevard to Hwy 81/Concord Road Pump Station, Concord Road Pump Station and an 18" line from the proposed Concord Road Pump Station to the Highview Pump Station. Implement and evaluate the proposed operating protocol to defer the need for the Broadway Jumper - an 18" line extending the shared transmission main on Hwy 28 to the Bolt Drive service area.

### **Alternatives:**

1. Approve the alternate Phase 1B of the transmission improvements that includes a 30" line connecting the Phase 1A improvements near Old Denver Road to the Clemson Booster Pump Station, reconfiguration of the Clemson Booster Pump Station and Pump improvements at Highview Pump Station and the Water Treatment Plant and authorize the Executive Director to direct final design, ROW acquisition negotiations and preliminary debt issuance.
2. Approve the Broadway Jumper- an 18" line extending the shared transmission main on Hwy 28 to the Bolt Drive service area.
3. Defer the decision on the transmission system upgrades.

### **Fiscal impact**

This project will require the issuance of long-term debt financing. Management is proposing the use of a State Revolving Fund (SRF) Loan. Preliminary eligibility and approval will be sought for SRF funding. Final loan amounts will be governed by results of the bid process.

### **Background**

CDM began an extensive hydraulic modeling effort in the fall of 2006 to assess the current deficiencies and future improvements needed in the ARJWS transmission system. In August 2007, CDM completed a draft Preliminary Engineering Report (PER) containing recommendations for the Joint Water System. In November, the Board approved Phase 1A improvements which include a transmission line from the Lake Hartwell Water Treatment Plant to Clemson Boulevard. In hopes of eliminating potential points of disagreement, the Joint Water System had previously agreed to utilize the Design South project costing model to evaluate alternatives. Continued disagreement on basic

project cost parameters requires the Joint Water System to revert to the Cost estimates prepared by the appointed System Consulting Engineer. It is believed that these estimates provide a realistic expectation of anticipated project costs for both alternatives.

The Joint Water System has identified several key goals that must be attained with the transmission system improvements, including improving hydraulic performance in city of Anderson/shared transmission system to alleviate threats to public health and safety, meeting the contractual obligations for water delivery, minimizing overall cost of water to all customers, providing system flexibility to accommodate the changing demographics, supporting county-wide economic development and operating the water system within industry standards to ensure efficiency.

Further analysis and discussion of the proposed future phases of the transmission upgrades have resulted in value engineering of the original recommendation that has produced a minimal group of recommended line and pump station improvements that will be sufficient to safely and efficiently deliver the contractually agreed 45 MGD treatment plant allocated capacity. The Recommended Plan principally include approximately 20,500 feet of 20” transmission line from Clemson Boulevard to Hwy 81/Concord Road Pump Station (‘East County Transmission Line’), Concord Road Pump Station, approximately 26,900 feet of 18” line from the proposed Concord Road Pump Station to the Highview Pump Station (‘Highway 81 Transmission Line’) and approximately 17,000 feet of 18” line extending the 24” Highway 28 shared transmission line to the Bolt Drive service area (‘Broadway Jumper’). Further negotiations with the Cities have resulted in a decision to implement the proposed alternative operating protocol to determine the immediate need for the Broadway Jumper. The Broadway Jumper, an 18” line extending the shared transmission main on Hwy 28 to the Bolt Drive service area, significantly improves performance (although not equally) under both the Recommended and the Alternative design proposals. The Broadway Jumper, estimated to cost \$3.05 million, may subsequently be deferred indefinitely or added to the project list following evaluation.

The Recommended project group (East County Transmission Line, Concord Road Pump Station and the Highway 81 Transmission Line) is estimated to cost \$17.585 million. A comparable alternative design would require \$15.732 million to construct. Based on a budgetary energy cost annual escalation rate of 3.0%, the Recommended Plan for 45 MGD provides for an estimated energy savings of over \$7.2 million within the first 30 years (\$35 million savings over the estimated 70 year asset life) versus the proposed Alternative Plan. At the recent average energy cost increase of 4.52%, the savings are over \$9.2 million within the first 30 years and \$70.7 million over the life of the asset. The 30 year project cost (capital + pumping cost) are summarized below.

	Alternative Plan		Recommended Plan	
	3.00%	4.52%	3.00%	4.52%
<b>Energy Escalation</b>	3.00%	4.52%	3.00%	4.52%
<b>Capital Cost</b>	15.732	15.732	17.585	17.585
<b>Energy Costs 30 Yrs</b>	9.601	12.353	2.385	3.068
<b>30 year Cost</b>	25.333	28.085	19.970	20.653
<b>Broadway Jumper</b>	3.051	3.051	3.051	3.051
<b>Total</b>	28.384	31.136	23.021	23.704

It is possible to increase pipe sizes to accommodate the additional 3 MGD of treatment plant capacity that is potentially available for an additional \$600,000. Based on 3.0% energy escalation, the upsized 48 MGD recommended plan is estimate to save of over \$8.7 million within the first 30 years (\$60 million savings over the estimated 70 year asset life) versus the proposed alternative.

The table below illustrates key issues, solutions and goals met in the Recommended Plan and the proposed alternative.

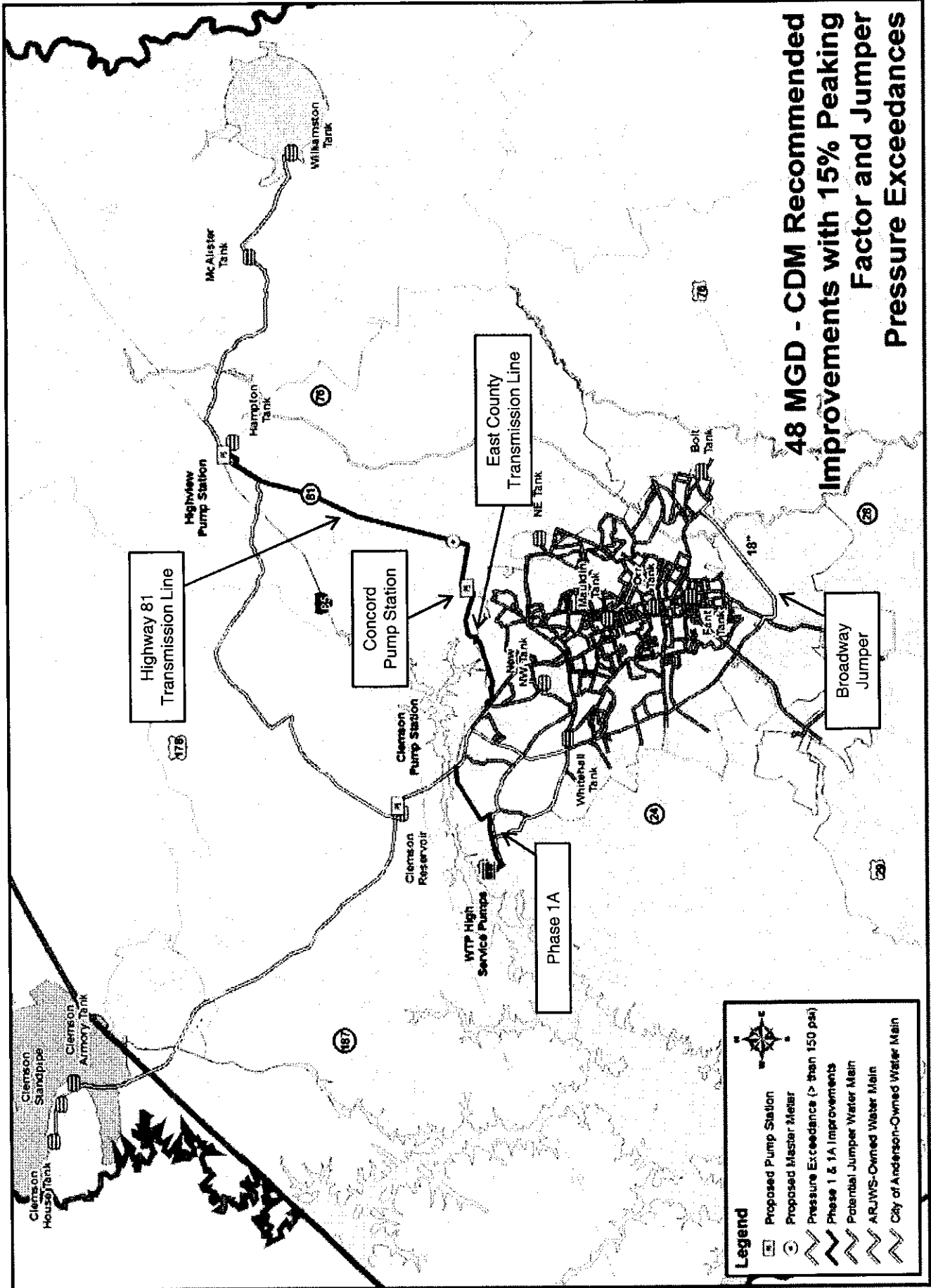
Issue	Solution	In Recommended Plan?	In Alternative Plan?
Protect Health and Safety in City of Anderson / Shared System	Broadway Jumper, East County Transmission Line	Yes	No
Meet Contractual Obligation to Deliver Water	East County Transmission Line, Concord Pump Station, Hwy 81 Transmission Line	Yes	??
Minimize Overall Cost of Water to All Customers	East County Transmission Line, Concord Pump Station, Hwy 81 Transmission Line	Yes	No
Provide flexibility to accommodate the changing demographics in the county	Broadway Jumper, East County Transmission Line, Concord Pump Station, Hwy 81 Transmission Line	Yes	??
Support county-wide economic development	Broadway Jumper, East County Transmission Line, Concord Pump Station, Hwy 81 Transmission Line	Yes	??
Operate system within industry standards to ensure efficiency	Broadway Jumper, East County Transmission Line, Concord Pump Station, Hwy 81 Transmission Line	Yes	No
Minimize potential for unplanned construction cost overruns	East County Transmission Line, Concord Pump Station, Hwy 81 Transmission Line	Yes	No
Minimize impact on environmentally sensitive areas	East County Transmission Line, Concord Pump Station, Hwy 81 Transmission Line	Yes	No
Maximize reliability, limit exposure to system failure	East County Transmission Line, Concord Pump Station, Hwy 81 Transmission Line	Yes	No

The recommended transmission upgrades meet the presently identified needs of the system, allow the Joint Water System to operate within accepted industry standards for water quality and public safety and provide for a more efficient transmission system resulting in lower long-term costs for delivering member agencies' contractually obligated 45 MGD allocated capacity.

The Recommended Plan also permits member agencies to electively upsize lines to accommodate future needs. Member agencies electing to upsize transmission lines are solely responsible for any additional costs. It is proposed that alternative bids be solicited to allow a market-based allocation of costs related to elective line upsizing. Barring unforeseen delay, the project would be scheduled to be completed 30 months following approval of the project.

Approved by: Scott Willett, Executive Director

# 48 MGD - CDM Recommended Improvements with 15% Peaking Factor and Jumper Pressure Exceedances



**Legend**

- Proposed Pump Station
- Proposed Meter Meter
- Pressure Exceedance (> than 150 psi)
- Phase 1 & 1A Improvements
- Potential Jumper Water Main
- ARJWS-Owned Water Main
- City of Anderson-Owned Water Main



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## BOARD MEMORANDUM

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June 4, 2008

### **Subject**

Cost allocation for Phase 1B Transmission Improvements

### **Recommendation**

Approve 45 MGD Member Agency Cost Allocation for Phase 1B Transmission Improvements.

#### *Alternatives:*

1. Approve differing Cost Allocation methodology for Phase 1B of the transmission improvements.
2. Do not approve a cost allocation and await the completion of the bid process to develop the Cost Allocation for Phase 1B of the transmission improvements.

### **Fiscal impact**

This cost allocation will establish preliminary member agency cost responsibilities for the Phase 1B transmission improvements.

### **Background**

CDM began an extensive hydraulic modeling effort in the fall of 2006 to assess the current deficiencies and future improvements needed in the ARJWS transmission system. In August 2007, CDM completed a draft Preliminary Engineering Report (PER) containing recommendations for the Joint Water System. In November 2007, all parties approved a transmission line from the Lake Hartwell Water Treatment Plant to Clemson Boulevard is necessary and the cornerstone of future improvements.

In February 2008, the treatment plant was up-rated to 42.8 MGD. In March 2008, CDM presented a recommendation for completing the required transmission improvements necessary to deliver with flexible pipe sizing to deliver the originally anticipated 45 MGD and the 48 MGD ultimately to be produced. Utilizing the cost estimating model prepared by CDM, cost allocations were generated for the 45 MGD solution as its requirements are essentially the same as those required to deliver the existing 42.8 MGD allocated capacity. These improvements are contractual obligations covered by Section 3.09 of the Water Sale and Purchase Agreement which states that improvements required to maintain delivery capacity of existing allocated capacity are to be shared by the member agencies based on the pro rata share of existing allocated capacity. A strict 3.09 allocation of total project cost are provided below in Table 1.

**Table 1. Strict 3.09 Allocation of Project Cost**

<b>Agency</b>	<b>Total Capacity at 45 MGD</b>	<b>Total Cost to Deliver 45 MGD</b>	<b>Share of 45 MGD Debt</b>
<b>City of Anderson</b>	<b>14.12</b>	<b>5,517,524</b>	<b>31.38%</b>
<b>Big Creek</b>	<b>2.25</b>	<b>877,735</b>	<b>4.99%</b>
<b>Broadway</b>	<b>1.99</b>	<b>779,534</b>	<b>4.43%</b>
<b>Town of Central</b>	<b>0.00</b>	<b>0</b>	<b>0.00%</b>
<b>City of Clemson</b>	<b>4.76</b>	<b>1,861,850</b>	<b>10.59%</b>
<b>Clemson Univ</b>	<b>2.00</b>	<b>781,560</b>	<b>4.44%</b>
<b>Hammond</b>	<b>4.61</b>	<b>1,801,351</b>	<b>10.24%</b>
<b>Homeland Park</b>	<b>1.07</b>	<b>418,135</b>	<b>2.38%</b>
<b>Pendleton</b>	<b>0.97</b>	<b>378,695</b>	<b>2.15%</b>
<b>Powdersville</b>	<b>0.78</b>	<b>306,618</b>	<b>1.74%</b>
<b>Sandy Springs</b>	<b>5.54</b>	<b>2,165,138</b>	<b>12.31%</b>
<b>Starr Iva</b>	<b>2.53</b>	<b>988,673</b>	<b>5.62%</b>
<b>West Anderson</b>	<b>3.07</b>	<b>1,199,912</b>	<b>6.82%</b>
<b>Williamston</b>	<b>1.30</b>	<b>508,376</b>	<b>2.89%</b>
<b>TOTAL</b>	<b>45.00</b>	<b>\$17,585,100</b>	<b>100.00%</b>

An alternative cost allocation methodology based on incremental upsizing has been prepared for comparison. This approach reflects two distinct components of the proposed 45 MGD solution: a base solution to deliver the initial 32 MGD and an incremental up-sizing to accommodate the 13 MGD expansion allocation. For delivery of up to 32 MGD, the recommended plan may have strongly resembled the Design South proposed plan with less total required pumping. It has been estimated that the total estimated construction cost for the 32 MGD base is \$13,075,200. An additional \$4,509,900 in construction cost is would be required to deliver the full 45 MGD under the recommended plan, providing a total of \$17,585,100 to meet the original 45 MGD contractual obligation. The alternative cost allocation methodology is presented below in Table 2. Note that the variation in cost obligations is directly related to how closely the share of the expansion matches the initial 32 MGD share, e.g., those that bought significantly less of the expansion pay less, those that bought a larger share compared to the 2002 purchase share pay more.

**Table 2. Project Cost Allocated Incrementally per  
Section 3.09 & Section 3.10**

<b>Agency</b>	<b>Initial Capacity</b>	<b>2005 Expansion</b>	<b>Cost of 32 MGD Projects</b>	<b>Cost of 13 MGD Expansion Projects</b>	<b>Total Cost to Deliver 45 MGD</b>	<b>Share of 45 MGD Debt</b>
<b>City of Anderson</b>	10.46	3.66	4,273,956	1,269,453	5,543,409	31.52%
<b>Big Creek</b>	1.56	0.69	637,416	238,023	875,439	4.98%
<b>Broadway</b>	1.08	0.91	441,288	317,363	758,651	4.31%
<b>Town of Central</b>	-	-	0	0	0	0.00%
<b>City of Clemson</b>	2.02	2.74	825,372	952,090	1,777,462	10.11%
<b>Clemson Univ</b>	2.00	-	817,200	0	817,200	4.65%
<b>Hammond</b>	2.78	1.83	1,135,908	634,727	1,770,635	10.07%
<b>Homeland Park</b>	1.07	-	437,202	0	437,202	2.49%
<b>Pendleton</b>	0.62	0.35	253,332	121,099	374,431	2.13%
<b>Powersville</b>	0.58	0.20	236,988	70,989	307,977	1.75%
<b>Sandy Springs</b>	4.06	1.48	1,658,916	513,628	2,172,544	12.35%
<b>Starr Iva</b>	2.53	-	1,033,758	0	1,033,758	5.88%
<b>West Anderson</b>	2.24	0.83	915,264	288,133	1,203,397	6.84%
<b>Williamston</b>	1.00	0.30	408,600	104,396	512,996	2.92%
<b>TOTAL</b>	<b>32.00</b>	<b>13.00</b>	<b>\$13,075,200</b>	<b>\$4,509,900</b>	<b>\$17,585,100</b>	<b>100.00%</b>

Members desiring to purchase additional transmission capacity to allow for future increases in delivery capacity shall be responsible for the incremental cost of up-sizing shared pro rata by participating agencies. As specific agency requests are received, the cost allocations may be adjusted to reflect the differing cost. Alternative bids for elective upsizing will be solicited to allow final cost allocation percentages to be developed using actual cost data from the bid process.

Approved by:            Scott Willett, Executive Director