



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

BOARD AGENDA

Board of Commissioners' Meeting March 19, 2008

THIS WILL BE A PUBLICLY NOTICED ADJOURNED WORKSHOP MEETING TO DISCUSS THE PROPOSED TRANSMSSION SYSTEM UPGRADES. MONTHLY INFORMATIONAL ITEMS ARE INCLUDED FOR YOUR REVIEW. THERE ARE NO ITEMS AGENDIZED FOR ACTION; HOWEVER, IF A QUARUM IS PRESENT ITEMS MAY BE ADDED AND ACTED UPON.

I. Information

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

II. Transmission Upgrades Workshop

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
February 20, 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; Rick Cotton, City of Clemson; Dyke Spencer, Powdersville; Tommy Phillips, Broadway; Toddy Hopkins, West Anderson; Frank Turner, 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

ABSENT: Town of Pendleton

OTHERS PRESENT: Marshall Kowalski, Hammond; Bud Whelchel, Sandy Springs; Eddie Makison, ARJWS; Chuck Cortez, Big Creek/Hammond; Chris Eleazer, City of Anderson; David Hall, Homeland Park; Jerry Cox, Broadway; Larry E. Harrell, Sr., Homeland Park; Phillip Cahaly, Sandy Springs; Ed Chamblee, Hammond; Steve Wilson, West Anderson; Benjie McGill, City of Clemson; Connie Finger, ARJWS; David Melton, ARJWS; Ann Gates, ARJWS; Scott Willett, ARJWS; Jennifer Barrington, ARJWS

Jeff Caldwell, Vice Chairman called the meeting of Anderson Regional Joint Water System to order at 10:00 a.m. on February 29, 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 reported the Executive Committee had met and discussed the letter from the City of Anderson and City of Clemson requesting time for a third party engineer to be selected and have 60 days to review the transmission line plans of Design South and CDM. Rick Cotton stated that the cities were looking at a firm in Charlotte and Atlanta and also some national engineering firms. He said it was difficult to find a local firm that wasn't involved with one of the 13 entities. Mr. Cotton said that the cities hope to have an engagement letter signed shortly and have a completion date from the third party engineer by the March Board Meeting.

Scott Willett, Executive Director, ask to enter into record, a statement, from Chairman Norb Steeber, who was absent from the meeting. Mr. Steeber wanted to acknowledge that since last summer we have had an ongoing dispute over the transmission lines. In July 2007, at a meeting in Columbia, there was an agreement among both cities, the Joint Water System and Executive Officers present that they would allow Design South, the Engineering firm of the cities, a 90 day period to come up with an alternate plan. In October we elected to defer the project as we were still deliberating the merits of the two proposals. As you remember, Mr. Turner of Hammond Water sent a letter to the Chairman of the Board expressing a desire for a resolution to this issue during the spring due to the concerns Hammond had over receiving the water they had purchased, particularly in 2010. Based on the engineers' estimates that had been provided, a decision in the spring was necessary to guarantee that 2010 would be taken care of. In November the cities selected council to represent them in a negotiation. With the appointment of Mr. Frank Gibbes to represent the cities, we taskfully agreed for an adequate period of time for the attorney to get up to speed to have a discussion to allow it to become fruitful. They came online early in December and we allowed the months of December and January for education and communication. The System requested in a letter dated early February, through the attorneys, the alternative or proposal for the solution be provided by the cities and their council in order to assure we were making progress rather than allowing it to dwindle into a settlement. At that point we indicated a desire to stay firm on a March deadline schedule for rendering a decision on how to move forward. That's the history that he asks to be entered into the record.

After much discussion, no action was taken, and it was decided to be addressed at the March Board meeting.

There was no Public Comment.

Frank Turner made a motion and Dyke Spencer seconded to approve the minutes of the January 16, 2008 meeting. Motion carried.

I. Information

- 1. Financial Report**
- 2. Administration Report**
- 3. Operations and Maintenance 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.

4. Engineering Report

Jennifer Barrington, System Engineer, gave a report on the Plant Upgrade. The tracer study has been completed and a draft will be remitted to DHEC this week. Mrs. Barrington said she expects a report back in 2 or 3 weeks. The January Engineering report is attached to the file copy of these minutes.

II. Discussion and Possible Action

1. Conservation and Outreach Program Committee Report

Chairman of the Conservation and Outreach Program Committee, Benjie McGill, gave a report on the February 8, 2008 meeting. The committee had received four Statements of Qualifications and after review had reduced them to two: Jordan, Jones & Goulding and Woodward - Zwolinski. The Committee will interview the two firms and have a recommendation to the Board in March. A copy of this report is attached to the file copy of these minutes.

2. Presentation of the FY06/07 Financial Audit Report

Elliott-Davis has completed the audit for the fiscal year that ended June 30, 2007 and identified two findings to be rectified:

- Timely reconciliation of financial statements related to debt
- Segregation of duties to ensure internal controls and safeguards for financial assets

As stated previously, the timely reconciliation of financial statements related to debt could be corrected by hiring a separate firm for our accounting needs.

Corrective measures are in place to ensure adequate review and oversight for financial disbursements.

A motion was made by Mr. Turner and seconded by David Davis to accept the FY06/07 Financial Audit Report. Motion carried. A copy of this report and the FY06/07 Audit Report is attached to the file copy of these minutes.

3. Approve Arbitrage Rebate Co. to complete Fifth Year Arbitrage Determination

Federal tax law requires a complete fifth year arbitrage determination on all tax-exempt debt. A recommendation was made to authorize the Executive Director to execute a professional services agreement with Arbitrage Rebate Company to complete a fifth year arbitrage determination on the Joint Water System's Series 2002 Waterworks System Revenue Bonds at a cost not to exceed \$9,900. Duane Rogers made a motion

and Mr. Cotton seconded to accept the recommendation. Motion carried. A copy of this report is attached to the file copy of these minutes.

4. Approve 2008 Flow-Based Vote Recalculation

A recommendation was made to approve the member agency flow-based vote allocation based on 2007 water deliveries to all member agencies except Clemson University. The new vote totals will be effective with votes taken after March 1, 2008. Mr. Turner made a motion to approve the member agency flow-based vote allocation based on 2007 water deliveries to all member agencies except Clemson University and Charlie Gibson seconded. Motion carried. A copy of this report is attached to the file copy of these minutes.

5. Participation and Sponsorship of Anderson County Development Partnership

A recommendation was made to contribute to the Anderson County Development Partnership at the Gold (\$5,000) level. After some discussion it was decided to inquire about exofficio position on the board or the member agencies contributing the monies to buy a seat on the board. Mr. Willett will follow up on this at the next board meeting. A copy of this report is attached to the file copy of these minutes.

6. Contract Award for Clarifier #2 Refurbishment

Four bidders responded to the ad requesting bids to perform the disassembly, repair and reassembly of the clarifier. They are: Good Water, JL Construction, Kris Mechanical, and MB Kahn. A recommendation was made to authorize the Executive Director to execute agreements to complete the repair and refurbishment of clarifier #2 with Good Water and Walker Process for an amount not to exceed \$247,500. A motion was made by Mr. Gibson and seconded by Mr. Spencer to approve the recommendation. Motion carried. A copy of this report is attached to the file copy of these minutes.

7. Selection of Legal Counsel

Due to a conflict of interest, Mr. Turner, was excused from the room during the selection of legal counsel. Mr. Marshall Kowalski replaced Mr. Turner for Hammond Water.

Ms. Margaret Pope and Mr. Belton Zeigler, formally of Haynsworth Sinkler Boyd, and the primary contacts for counsel on debt and tax issues for ARJWS have established another law firm, Pope Zeigler, LLC. A recommendation was made to select Pope Zeigler, LLC as legal counsel for general advice and counsel, tax issues and debt issuance. After some discussion, Mr. Rogers made a motion and Mr. Gibson seconded to accept the above recommendation. Motion carried. A copy of this report is attached to the file copy of these minutes.

Toddy Hopkins announced that West Anderson Water had received an award from SCRWS for best tasting water for the 2nd year.

III. Adjournment

With no further business, Mr. Davis made a motion and Phillip Mishoe seconded to adjourn the meeting at 11:25 a.m. Motion carried.

Respectfully submitted,

Duane Rogers
Big Creek



**ANDERSON REGIONAL
JOINT WATER SYSTEM**

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

BOARD MEMORANDUM

March 6, 2008

Subject

February 2007 Financial Report

Discussion

The attached tables identify February spending, encumbrances and deposits to the Pumped Repair and Replacement Account and the System Repair and Replacement Account. At the end of February, the Pumped R&R Account had an available balance of \$321,052.61 net of encumbrances. The System R&R Account had an available balance of \$375,431.11 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 \$502,649.96. System reserves of \$200,000 are invested in secured notes. Total unrestricted cash available is \$1,503,557.90 corresponding to 80.07 days of cash based on the adopted Budget.

	Balance (1/31/2008)	Balance (2/29/2007)
Pumped R&R	\$321,107.18	\$321,052.61
System R&R	\$764,931.29	\$375,431.11
Operating Fund	\$498,371.35	\$502,649.96
Rate Stabilization fund	\$103,959.22	\$104424.22
Reserves	\$200,000.00	\$200,000.00
TOTAL Cash	\$1,888,369.04	\$1,503,557.90
FY 2007 -08 Budget	\$6,854,183.00	\$6,854,183.00
Days of Cash	100.56	80.07

A review of the February Profit and Loss Statement shows that actual expenses were over budget projections for the month by \$21,609 primarily due to annual payment of raw water cost to Corps' and a quarterly MIOX lease purchase payment. Year-to-date expenditures are \$222,075 over estimates due to higher variable treatment costs due to increased drought demands Electricity (\$120,762) and Professional Fees (\$65,885).

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

February 29, 2008

<u>DATE</u>	<u>PAYEE</u>	<u>DEPOSIT</u>	<u>AMOUNT</u>	<u>BALANCE</u>
2/1/08	BALANCE BROUGHT FORWARD			321,107.18
02/11/08	HAYES & LUNSFORD ELECTRIC MOTOR REPAIR		7,359.56	313,747.62
02/25/08	TRANSFER FROM O & M	6,799.33		320,546.95
02/29/08	DEPOSIT (INTEREST)	505.66		321,052.61
	LESS ENCUMBERED FUNDS			-
	BALANCE UNENCUMBERED FUNDS			<u>321,052.61</u>

SYSTEMS REPAIR & REPLACEMENT ACCOUNT

February 29, 2008

<u>DATE</u>	<u>PAYEE</u>	<u>DEPOSIT</u>	<u>AMOUNT</u>	<u>BALANCE</u>
02/01/08	BALANCE BROUGHT FORWARD			1,020,117.09
02/04/08	OFFICE PANEL SYSTEMS		1,490.10	1,018,626.99
02/04/08	UNITED ELECTRICAL DISTRIBUTORS		1,924.00	1,016,702.99
02/04/08	CDM		4,960.00	1,011,742.99
02/18/08	CDM		17,745.00	993,997.99
02/18/08	MTH NETWORKING SOLUTIONS, INC		508.56	993,489.43
02/18/08	HAYES & LUNSFORD ELECTRIC MOTOR REPAIR		3,030.00	990,459.43
02/18/08	HUNTINGTON & QUERRY ELECTRIC CO.		110,447.10	880,012.33
02/25/05	TRANSFER FROM O & M	100,303.81		980,316.14
02/29/08	DEPOSIT (INTEREST)	1,574.57		981,890.71
	LESS ENCUMBERED FUNDS			606,459.60
	BALANCE UNENCUMBERED FUNDS			375,431.11

<u>ENCUMBERENCES</u>	<u>BUDGET</u>	<u>BALANCE</u>
NEW OFFICE BUILDING	788,629.00	75,704.80
RAW WATER PUMP	124,350.00	80,958.68
CELLO METERS	83,500.00	1,791.52
HYDRAULIC MODELING PROJECT TASK #5	54,428.00	-
ELECTRICAL SERVICE TO RAW WATER PUMPS (DESIGN)	18,020.00	2,522.80
ELECTRICAL SERVICE TO RAW WATER PUMPS(CONSTRUCTION)	322,000.00	79,496.80
WTP ELECTRICAL SYS ENGINEERING REPORT	24,800.00	19,840.00
WTP TRACER STUDY	6,590.00	6,590.00
GIS STRATEGIC PLAN	12,000.00	2,400.00
FINAL DESIGN OF PHASE 1 TRANSMISSION IMPROVEMENTS	354,900.00	337,155.00
		606,459.60

Profit & Loss Budget vs. Actual

July 2007 through February 2008

	MONTH		TOTAL		FORECAST	
	Feb 08	Budget	Year-to-Date	Budget	8+4	Budget
Ordinary Income/Expense						
Income						
6000 - FEES O & M + CAP						
6001 - FEES O & M - TOTAL						
6001.1 - Base O & M Subtotal	0.00	229,924.25	0.00	1,839,394.00		
6001.2 - Pumped O & M Subtotal	0.00	18,056.58	0.00	144,452.64		
Total 6001 - FEES O & M - TOTAL	0.00	247,980.83	0.00	1,983,846.64		
6002 - FEES CAP	0.00	318,531.92	0.00	2,548,255.36		
6000 - FEES O & M + CAP - Other	560,006.62		4,619,570.05			
Total 6000 - FEES O & M + CAP	560,006.62	566,512.75	4,619,570.05	4,532,102.00	6,885,621.05	6,798,153.00
6010 - FEES- MISC. INCOME	4,995.19	3,750.00	30,705.90	30,000.00	45,705.90	45,000.00
6015 - TRANSFERS FROM RSF	0.00		0.00	100,000.00	200,000.00	200,000.00
Total Income	565,001.81	570,262.75	4,650,275.95	4,445,435.39	7,131,326.95	7,043,153.00
Expense						
8010 - SALES TAX ACCRUAL	0.00	258.34	2,989.98	2,066.68	4,023.34	3,100.08
8050 - ADVERTISING -	369.00	208.34	632.22	1,666.68	1,465.58	2,500.08
8060 - OFFICE SUPPLIES/EXPENSES	618.41	708.34	11,746.54	5,666.65	14,579.90	8,500.08
8065 - DUES/SUBSCRIPTIONS	292.57	616.66	5,010.86	4,933.32	7,477.50	7,399.92
8070 - BANK SERVICE CHARGES	0.00	50.00	-1,616.36	400.00	-1,416.36	600.00
8080 - DEBT SVC 2002 Bond Series	310,827.08	310,027.09	2,535,587.27	2,480,216.68	3,775,695.63	3,720,325.08
8081 - DEBT SVC 2005 Bond Series	27,105.88	27,105.83	216,847.04	216,846.67	325,270.36	325,269.96
8090 - AUTO/TRUCK EXPENSE	2,771.95	2,166.67	19,066.53	17,333.33	27,733.21	26,000.04
8105 - RENT	0.00	333.33	2,162.87	2,666.68	3,496.19	3,999.96
8110 - LICENSES/PERMITS	34,095.00	84.83	37,004.00	37,160.67	37,343.32	35,017.96
8120 - Lease/Purchase Mix Gen. Equip	20,948.18	7,336.00	62,844.54	58,688.00	83,792.72	88,032.00
8130 - STATIONARY/PUBLICATIONS	0.00	25.00	107.50	200.00	207.50	300.00
8140 - SEMINARS & CONVENTIONS	1,460.00	450.00	3,296.00	3,600.00	5,096.00	5,400.00
8150 - POSTAGE/FREIGHT	430.72	200.00	1,854.62	1,600.00	2,654.62	2,400.00
8160 - FILM & PROCESSING	0.00	8.33	0.00	66.67	33.32	99.96
8175 - METER REPAIR	17.80	1,008.34	153.32	8,066.66	4,186.68	12,100.08
8180 - SECURITY	126.97	483.33	330.18	3,866.68	2,263.50	5,799.96
8200 - PUMP MAINT/REPAIR	12,635.45	3,225.01	31,455.37	25,800.08	44,355.41	38,700.12
8220 - PROFESSIONAL FEES	15,098.35	5,791.68	112,217.91	46,333.28	135,384.63	69,500.16
8300 - INSURANCE	0.00	7,562.08	16,607.21	60,496.64	46,855.53	90,744.96
8400 - LABORATORY	4,280.73	4,341.67	28,863.51	34,733.36	46,230.19	52,100.04
8500 - WATER TREATMENT	3,074.40	3,408.33	53,341.32	27,266.68	66,974.64	40,899.96
8600 - PAYROLL EXPENSES	85,498.09	100,963.01	810,230.71	807,704.01	1,214,082.75	1,211,556.12
8700 - TELEPHONE	1,856.10	3,466.67	22,496.38	27,733.32	36,363.06	41,600.04
8800 - MISCELLANEOUS	2,204.43	1,333.33	18,679.13	10,666.64	24,012.45	15,999.96
8820 - CUSTODIAL CARE	1,133.94	537.50	5,100.48	4,300.00	7,250.48	6,450.00
8830 - REPAIRS/MAINTENANCE	919.78	3,400.00	32,324.16	27,200.00	45,924.16	40,800.00
8840 - CHEMICAL SUPPLIES	10,571.84	26,500.00	194,572.16	211,999.97	300,572.16	318,000.00
8850 - TANKS/STANDPIPES/RESEVOIRS	0.00	433.33	9,621.89	3,466.68	11,355.21	5,199.96
8860 - UTILITIES	69,733.80	70,458.34	684,429.05	563,666.64	966,262.41	845,500.08
8870 - TRAVEL	210.05	300.00	4,504.58	2,400.00	5,704.58	3,600.00
8871 - MANAGER'S EXPENSE	0.00	100.00	551.98	800.00	951.98	1,200.00
8872 - BOARD EXPENSE	0.00	150.00	1,349.55	1,200.00	1,949.55	1,800.00
8873 - STAFF INCENTIVE PROGRAM	0.00	50.00	0.00	400.00	200.00	600.00
8874 - TRAINING & EDUCATION REIMBURSE	2,023.00	683.33	4,283.00	5,466.68	7,016.32	8,199.96
8875 - MEALS/ENTERTAINMENT	97.62	183.34	1,575.51	1,466.68	2,308.87	2,200.08
Total Expense	608,401.14	583,958.05	4,930,221.01	4,708,146.03	7,257,657.39	7,041,496.60
Net Ordinary Income	-43,399.33	-13,695.30	-279,945.06	-262,710.70	-126,330.44	1,656.40



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BOARD MEMORANDUM

March 6, 2008

Subject

February Administration Report

Discussion

Billing

All payments for the month of January have been received. Meters were read on February 28th, with usage down about 1% from last month (for the same number of days), and down almost 9% over the same period/same number of days last year. February bills were mailed on March 5th.

AGENCY	PREV.YR SAME MONTH	LAST MONTH	CURRENT
# of Billing Days	29	30	30
Anderson	153,661,580	130,086,475	124,767,657
Big Creek	24,600,000	26,300,000	23,500,000
Broadway	19,761,600	18,290,000	20,090,900
Clemson	42,500,000	57,900,000	49,100,000
Clemson Univ	30,400,000	26,700,000	25,400,000
Hammond	44,100,000	38,700,000	35,300,000
Homeland Park	17,678,000	17,820,000	16,510,000
Pendleton	9,320,000	8,830,000	8,060,000
Powdersville	12,390,000	15,240,000	9,270,000
Sandy Springs	46,700,000	46,318,000	42,865,000
Starr-Iva	33,500,000	30,400,000	29,400,000
West Anderson	35,673,000	33,957,000	37,054,000
Williamston	22,800,000	22,800,000	21,600,000
TOTALS:	493,084,180	473,341,475	442,917,557

There were no Seasonal Surplus Charges for the month of December. Gallons-to-date remain at 171,753,000 and total dollars \$197,883.48.

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



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BOARD MEMORANDUM

March 6, 2008

Subject

February 2008 Operations and Maintenance Report

Discussion

Operations

As of March 3, 2008 Lake Hartwell was at 648.99 ft above mean sea level. This is 11.01 feet below full pool. Raw water is being taken from the second gate of the intake structure. There is 13.99 feet of water above the middle intake gate. Water temperature at the second gate is fifty-two degrees. As water temperatures have declined. Processes with respect to settled water turbidity goals are difficult to achieve at this temperature. The Joint Water System reached 100% settled water turbidity goal for the month of February. Raw water quality remains generally good. Raw water turbidity is slightly higher than normal. Raw water, settled water, and finished water pH levels are normal. The maximum day for January was 51.2 of finished water capacity.

In addition to quality sampling for the Lake Hartwell Water Treatment Plant, Joint Water System staff processed 148 total coliform samples for local entities.

Water Production Data

	Average	Minimum	Maximum	Total
Raw Water (MG)	16,560,000	14,936,000	19,240,000	480,926,000
Finished Water (MG)	15,653,000	14,844,000	16,393,000	453,926,000
Finished Max Capacity	48.90%	46.40%	51.20%	48.90%

NOTE: Percentages are finished water capacities.

Water Quality Data

	Raw	Settled	Finished
pH	7.27	6.38	7.00
Turbidity (NTU) Range	3.4 to 5.2	0.82 to 1.00	0.05 to 0.06
Turbidity (NTU) Average	4.21	0.93	0.06
Turbidity (NTU) Exceedance	N/A	0.0%	0%
Residual Disinfectant (ppm)	N/A	0.89	1.34

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 months of Long Term 2 Enhanced Surface Water Treatment Rule testing. Results for the twentieth month are negative for Cryptosporidium and Giardia. The Long Term 2 testing period will encompass twenty four months.

Weather Data

	Minimum	Maximum	Total
Rainfall	0.00	1.12in.	3.92 in.
Temperature	23° F	69° F	N/A
Humidity	20% Rh	100% Rh	N/A

Operations staff continues to optimize energy consumption at the Water Treatment Plant. Since the initiative began in March 2007, the percentage of energy consumed on-peak has dropped from a seven month average (March – January) of 23.7% to 17.1% of total energy consumed. The reduction in on-peak energy consumption, coupled with avoidance of peak demand related changes have allowed the Joint Water System staff to reduce the average energy cost to produce 1 million gallons of water from \$99.65 to \$86.37, a 13.3% reduction in cost all while producing 3.9% more water and reflecting Duke Energy's 1% fuel adjustment charge this year. Monthly energy consumption is detailed above.

Power Consumption

Month	On Peak Kw	Off Peak Kw	Total Kw	Finished Water Mg	Kw Cost per Mg
Mar 2006	254,000	815,200	1,069,200	489,902,000	\$99.07
April 2006	242,000	822,800	1,064,800	527,595,000	\$90.49
May 2006	309,600	988,400	1,298,000	594,180,000	\$115.99
June 2006	368,000	1,390,400	1,390,400	662,386,000	\$120.72
July 2006	331,600	1,100,400	1,432,000	715,772,000	\$112.95
Aug 2006	323,200	907,600	1,230,800	683,980,000	\$101.22
Sept 2006	282,400	866,400	1,148,800	545,552,000	\$95.92
Oct 2006	226,800	786,400	1,013,200	578,078,000	\$78.01
Nov 2006	242,400	744,400	986,800	498,257,000	\$92.09
Dec 2006	198,400	721,600	920,000	481,292,000	\$87.71

Jan 2007	223,600	858,000	1,091,600	493,178,000	\$101.97
Feb 2007	194,400	751,600	946,000	423,803,000	\$100.48
Mar 2007	210,800	890,800	1,101,600	530,280,000	\$75.15
April 2007	191,600	1,001,600	1,793,200	555,513,000	\$75.90
May 2007	238,400	1,138,000	1,376,400	682,561,000	\$82.78
June 2007	236,800	979,200	1,216,000	644,839,000	\$87.41
July 2007	224,000	1,187,200	1,411,200	777,256,000	\$91.16
Aug 2007	226,800	1,717,200	1,438,000	684,117,000	\$95.83
Sept 2007	223,200	1,040,800	1,264,000	639,852,000	\$82.42
Oct 2007	208,800	984,400	1,193,200	582,206,000	\$78.86
Nov 2007	204,400	820,400	1,024,800	467,322,000	\$86.63
Dec 2007	191,600	841,200	1,032,800	499,389,000	\$79.90
Jan 2008	215,600	834,200	1,050,400	453,926,000	\$113.98

Maintenance

- The actuator on CBS pump number three has been repaired
- The shutdown for DPCO's replacement of a conductor on a main transformer was successful. The generators were run under load for approximately 1 ½ hr with no problems.
- The installation of the sample pump for clarifier number 2 has been completed.
- Clarifier number 2 has been drained and washed out. This will allow additional operating time of this unit before it is taken out of service for repairs in the next few months.
- The motor starter for transfer pump #3 has been repaired. The starters on transfers 1 – 4 are in need of replacement. Parts are obsolete and are very hard to find. These are all original equipment.
- Valve maintenance has been completed on the Williamston line and is in progress on the Clemson line. Valves are being entered into the GPS system as they are found, marked and exercised.
- A new starter has been installed on lagoon pump #1.
- Outside lights have been repaired on the filters and on the bridge near the plant entrance. Installation of additional lights is being planned to replace the lights removed with the raw water line poles.
- A quote on a new stainless steel impellor for CBS # 2 has been received. Estimates on a rebuild will be following.

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

Approved by: Scott Willett, Executive Director



998 Hunters Trail
Phone: 864-332-6534

Anderson, SC 29625
Fax: 864-224-6116

BOARD MEMORANDUM

March 6, 2008

Subject

February Engineering Update

Discussion

Transmission System Improvements

Field surveying is still underway. ARJWS and CDM continue to meet with property owners and regulatory agencies impacted along the route to determine the best placement of the pipe. Meetings have also been conducted with potential right-of-way agents for assistance with acquiring easements prior to construction.

Administrative/Maintenance Building

ARJWS is awaiting final approval from the State Fire Marshall. A final certificate of occupancy has been requested.

Power to Raw Water Pumps #4 and #5

A tracer study was completed January 30th. The results of the study were forwarded to DHEC February 21, 2008. DHEC review is expected to be complete by March 7, 2008.

Underground Power to Raw Water Pump Station

The underground power and fiber optic installation is complete. A final walk-thru is scheduled for March 6, 2008. Removal of the overhead power poles is tentatively scheduled to begin March 11, 2008.

GIS Implementation

In-house GIS training was conducted February 21, 2008. Trey has completed GPS work of the valves along the Williamston line and most of the Clemson line. He continues to set up the database design for the GIS system. Trey has also created a recycling area for the ARJWS to collect paper, aluminum, and plastic.

Reservoir No. 1

Investigative work on Reservoir No. 1 will be conducted March 12-13, 2008 to focus inside and around the pipe penetrations in the tank.

Comprehensive Electrical Study

A Draft Comprehensive Electrical Study will be completed the third week of March 2008. A copy will be shared with the Emergency Generator Committee for review/comment.

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

Approved by: Scott Willett, Executive Director