



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

BOARD AGENDA

**Regular Board of Commissioners' Meeting
September 19, 2007**

Call to Order

Pledge of Allegiance

Additions to the Agenda

Commissioners' Comments

Public Comment

Approval of Minutes of August 15, 2007

I. Information

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

II. Discussion and Possible Action

1. Approve Parking Lot Repaving Contract
2. Approve Front Gate Improvements

III. Adjournment

NOTE: Due to facility construction, this Board meeting will be held in the Anderson County Library meeting rooms.



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

**MINUTES OF THE
ANDERSON REGIONAL JOINT WATER SYSTEM
August 15, 2007**

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; Richard Bork, Town of Pendleton; Norb Steeber, Powdersville; Douglas Locke, 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

OTHERS PRESENT: Randy Pettigrew, Starr-Iva; Dyke Spencer, Powdersville; Marshall Kowalski, Hammond; Bud Whelchel, Sandy Springs; Tommy Phillips, Broadway; Eddie Makison, ARJWS; Chuck Cortez, Big Creek/Hammond; Chris Eleazer, City of Anderson; David Hall, Homeland Park; Jerry Cox, Broadway; Connie Finger, ARJWS; David Melton, ARJWS; Ann Gates, ARJWS; Scott Willett, ARJWS; Jennifer Barrington, ARJWS

Chairman Norb Steeber called the meeting of Anderson Regional Joint Water System to order at 10:00 a.m. on August 15, 2007.

Chairman Steeber opened the meeting with the Pledge of Allegiance.

Additions to the agenda were under Discussion and Possible Action: the recent power failure, legal opinion letter from Haynsworth Sinkler & Boyd, and PER report from CDM.

Under commissioner's comments, Chairman Steeber brought to the attention of the Board the November meeting of the Rural Water Conference in Myrtle Beach. Chairman Steeber has been asked to speak at this conference. Dyke Spencer spoke on the drought indicators.

There were no public comments.

David Davis made a motion and Frank Turner seconded to approve the minutes of the July 18, 2007 Board Meeting. Motion carried.

I. Information

1. Financial Report

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

2. Administration Report

Jennifer Barrington, ARJWS Engineer, spoke on her recent speaking engagement at Tri-County Technical College for Southeast RCAP. This was an Upstate Water Workshop. A copy of this report is attached to the file copy of these minutes.

3. Operations and Maintenance Report

Added to the O & M report was a report on the power consumption at the water plant. This report shows the energy dollar savings derived from optimizing the time-of-use rates.

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

4. Engineering Report

Ms. Barrington reported the update on the water treatment plant upgrade. The chiller is to arrive Friday the 17th and Wilson Refrigeration will install it the week of the 20th.

Mr. Willett said the entrance gate that is currently in operation will need to be replaced. The gate has been having operating problems for some time. This seems to be the best time to reposition and update the gate, before the repaving is done. The old gate also presents a security problem.

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

II. Discussion and Possible Action

1. Select communication system provider

Mr. Willett reported the communications system at ARJWS is at capacity and needs to be upgraded. A request for qualifications and potential bid was issued in April. Four companies responded, Eagle Business Solutions, Prime Line Communications, Southeastern Telecom and Strategic Products and Services. It was recommended the

Executive Director be authorized to execute an agreement with Prime Line Communications at a cost not to exceed \$12,750.

Mr. Turner made a motion to accept Prime Line Communication and Charlie Gibson seconded. Motion carried.

2. Power Failure

Chairman Steeber started the discussion on the recent power failure and suggested we learn from this and become stronger.

Jeff Caldwell said that we need better communication so that customers can be alerted as soon as possible. Mr. Caldwell stated that he had addressed this in April and it had been dropped. He suggested a standard operating procedure be put in place.

Mr. Willett apologized for the inconveniences and agreed with Mr. Caldwell about the standard operating procedures. Mr. Willett had drawn up an emergency WTP shutdown/operating instructions list which he handed out. A copy of the list of instructions is attached to the file copy of these minutes. Mr. Willett briefly outlined the instructions.

A discussion followed on the decision of the plant remaining on interruptible power. Mr. Willett said he would check into the contract to see the terms of the agreement.

3. Legal Opinion of Contract

Mr. Willett handed out a letter from Attorney Belton Zeigler of Haynsworth Sinkler & Boyd stating their legal opinion of the terms of the water purchase and sale agreement. A copy was given to the Board members to read over. A copy of this letter is attached to the file copy of these minutes.

At this time it was suggested by Chairman Steeber to postpone the General Managers meeting, scheduled for Thursday the 16th of August, to allow more time for reviewing the letter and the PER from CDM. The meeting was rescheduled for Friday, August 24th at 10:00 a.m.

4. Preliminary Engineering Report from CDM

Mr. Willett handed out the PER to each Board member and had Phil Parkins of CDM give a brief outline of the report. This report will be addressed in detail at the GM meeting. A copy of this report is attached to the file copy of these minutes.

IV. Adjournment

With no further business, Mr. Turner made a motion and Mr. Gibson seconded to adjourn the meeting at 11:59 a.m. Motion carried.

Respectfully submitted,

Duane Rogers
Big Creek Water



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

BOARD MEMORANDUM

September 6, 2007

Subject

August 2007 Financial Report

Discussion

The attached tables identify August spending, encumbrances and deposits to the Pumped Repair and Replacement Account and the System Repair and Replacement Account. At the end of August, the Pumped R&R Account had an available balance of \$300,562.99 net of encumbrances. The System R&R Account had an available balance of \$575,661.98 net of encumbrances. The System R&R balance does not reflect a forthcoming reimbursement of \$251,821 under the SRF loan nor \$116,872 final ARC grant disbursement. The Operating Fund had a balance of \$483,771.03. System reserves of \$200,000 are invested in secured notes. Total unrestricted cash available is \$1,759,996.00 corresponding to 93.7 days of cash based on the adopted Budget.

	Balance (7/31/2007)	Balance (8/31/2007)
Pumped R&R	\$292,700.01	\$300,562.99
System R&R	\$926,624.07	\$575,661.98
Operating Fund	\$570,236.87	\$483,771.03
Rate Stabilization fund	\$200,000.00	\$200,000.00
Reserves	\$200,000.00	\$200,000.00
TOTAL Cash	\$2,189,560.95	\$1,759,996.00
FY 2007 -08 Budget	\$6,854,183.00	\$6,854,183.00
Days of Cash	116.6	93.7

A review of the August Profit and Loss Statement shows that actual expenses exceeded budget projections for the month by \$33,627.90 due primarily to increased legal fees. Revenue generation exceeded budget estimates by \$104,716.99 providing a net increase of \$71,089.09.

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

August 31, 2007

<u>DATE</u>	<u>PAYEE</u>	<u>DEPOSIT</u>	<u>AMOUNT</u>	<u>BALANCE</u>
08/01/07	BALANCE BROUGHT FORWARD			292,700.01
08/23/07	DEPOSIT (transfer from O & M)	6,799.33		299,499.34
08/31/07	DEPOSIT (interest)	1,063.65		<u>300,562.99</u>
	LESS EMCUMBERED FUNDS			-
	BALANCE UNEMCUMBERED FUNDS			<u>300,562.99</u>

SYSTEMS REPAIR & REPLACEMENT ACCOUNT

August 31, 2007

<u>DATE</u>	<u>PAYEE</u>	<u>DEPOSIT</u>	<u>AMOUNT</u>	<u>BALANCE</u>
08/01/07	BALANCE BROUGHT FORWARD			1,828,575.36
08/01/07	M B KAHN CONSTRUCTION CO		295,764.03	1,532,811.33
08/01/07	M B KAHN CONSTRUCTION CO		155,924.25	1,376,887.08
08/06/07	LAZER CONSTRUCTION CO		78,681.60	1,298,205.48
08/13/07	CDM		21,301.65	1,276,903.83
08/20/07	HYDRO SOUTH INC		9,450.00	1,267,453.83
08/20/07	A & E ENGINEERING, INC		4,775.00	1,262,678.83
08/23/07	TRANSFER (O & M)	100,303.81		1,362,982.64
08/24/07	FAIRWAY FORD		15,525.00	1,347,457.64
08/24/07	FAIRWAY FORD		15,525.00	1,331,932.64
08/28/07	CDM		19,070.50	1,312,862.14
08/28/07	OFFICE PANEL SYSTEMS		9,979.92	1,302,882.22
08/31/07	DEPOSIT (INTEREST)	4,897.48		1,307,779.70
	LESS ENCUMBERED FUNDS			691,791.85
	BALANCE UNENCUMBERED FUNDS			575,661.98

SUMMARY OF AUGUST SPENDING

CONSTRUCTION (Plant Expansion)	451,688.96
HYDRAULIC MODELING	19,070.50
NEW OFFICE BUILDING	78,681.60
PER	21,301.65
MISC. R&R	55,254.92
TOTAL	625,997.63

ENCUMBERENCES

NEW OFFICE BUILDING
RAW WATER PUMP
CELLO METERS
PER ON CORE IMPROVEMENTS
HYDRAULIC MODELING

BUDGET

788,629.00
124,350.00
83,500.00
68,715.00
38,500.00

BALANCE

563,113.80
80,958.68
1,791.52
47,413.35
(1,485.50)
691,791.85

SRF LOAN FUNDING:

PLANT EXPANSION/UPGRADE PROJECT:

JJ&G TASK #11 Plant expansion
JJ&G TASK #12 Bidding phase/plant expansion
JJ&G TASK #13 Construction Adm/Plant Expansion
On-Site Chlorine Generation/Feasibility Study
On-Site Chlorine Generation/Design
CONSTRUCTION ENGINEERING (Guthrie Engineering)
CONSTRUCTION(Plant Expansion)

BUDGET
4,865,174.00

**AMOUNT
WITHDRAWN**

248,000.00
15,500.00
184,000.00
7,500.00
93,750.00
87,600.00
4,446,102.00

248,000.00
15,500.00
174,430.00
6,814.04
91,533.49
88,138.09
4,885,249.99

-
-
9,570.00
685.96
2,216.51
(538.09)
(439,147.99)

ANDERSON REGIONAL JOINT WATER SYSTEM Profit Loss Budget vs. Actual

	Month		Year to Date		Budget Forecast	
	Aug 07	Budget	Jul 07 - Aug 07	Budget	2 + 10	Budget
Ordinary Income/Expense						
Income						
6000 · FEES O & M + CAP						
6001 · FEES O & M -TOTAL						
6001.1 · Base O & M Subtotal		229,924.25		459,848.50		2,759,091.00
6001.2 · Pumped O & M Subtotal		18,056.58		36,113.16		216,678.96
Total 6001 · FEES O & M -TOTAL		247,980.83		495,961.66		2,975,769.96
6002 · FEES CAP		318,531.92		637,063.84		3,822,383.04
6000 · FEES O & M + CAP - Other	688,433.41		1,272,045.26			0.00
Total 6000 · FEES O & M + CAP	688,433.41	566,512.75	1,272,045.26	1,133,025.50	6,937,172.76	6,798,153.00
6010 · FEES- MISC. INCOME	3,213.00	3,750.00	7,833.00	7,500.00	45,333.00	45,000.00
6015 · TRANSFERS FROM RSF	0.00	16,666.67	0.00	33,333.34	200,000.04	200,000.04
Total Income	691,646.41	586,929.42	1,279,878.26	1,173,858.84	7,182,505.80	7,043,153.04
Expense						0.00
8010 · SALES TAX ACCRUAL	0.00	258.34	668.45	516.67	3,251.85	3,100.08
8050 · ADVERTISING -	263.22	208.34	263.22	416.67	2,346.62	2,500.08
8060 · OFFICE SUPPLIES/EXPENSES	1,516.45	708.34	2,135.67	1,416.67	9,219.07	8,500.08
8065 · DUES/SUBSCRIPTIONS	320.95	616.66	390.95	1,233.33	6,557.55	7,399.92
8070 · BANK SERVICE CHARGES	0.00	50.00	-492.81	100.00	7.19	600.00
8080 · DEBT SVC 2002 Bond Series	310,827.08	310,027.09	670,624.79	620,054.17	3,770,895.69	3,720,325.08
8081 · DEBT SVC 2005 Bond Series	0.00	27,105.83	54,211.76	54,211.66	325,270.06	325,269.96
8090 · AUTO/TRUCK EXPENSE	2,465.62	2,166.67	4,989.11	4,333.34	26,655.81	26,000.04
8105 · RENT	182.35	333.34	469.49	666.67	3,802.89	4,000.08
8110 · LICENSES/PERMITS	95.00	84.84	1,970.00	2,651.67	2,818.40	1,018.08
8120 · Lease/Purchase Miox Gen. Equip	20,948.18	7,336.00	20,948.18	14,672.00	94,308.18	88,032.00
8130 · STATIONARY/PUBLICATIONS	0.00	25.00	0.00	50.00	250.00	300.00
8140 · SEMINARS & CONVENTIONS	0.00	450.00	130.00	900.00	4,630.00	5,400.00
8150 · POSTAGE/FREIGHT	117.07	200.00	581.17	400.00	2,581.17	2,400.00
8160 · FILM & PROCESSING	0.00	8.33	0.00	16.66	83.30	99.96
8175 · METER REPAIR	0.00	1,008.33	0.00	2,016.66	10,083.30	12,099.96
8180 · SECURITY	0.00	483.34	0.00	966.68	4,833.40	5,800.08
8200 · PUMP MAINT./REPAIR	1,499.54	3,225.02	7,076.61	6,450.03	39,326.81	38,700.24
8220 · PROFESSIONAL FEES	32,327.70	5,791.65	36,471.64	11,583.31	94,388.14	69,499.80
8300 · INSURANCE	2,312.23	7,562.08	7,630.23	15,124.16	83,251.03	90,744.96
8400 · LABORATORY	4,024.24	4,341.67	6,946.55	8,683.34	50,363.25	52,100.04
8500 · WATER TREATMENT	8,328.98	3,408.33	14,648.47	6,816.67	48,731.77	40,899.96
8600 · PAYROLL EXPENSES	87,426.04	100,963.01	183,668.63	201,926.01	1,193,298.73	1,211,556.12
8700 · TELEPHONE	2,035.61	3,466.67	4,769.62	6,933.33	39,436.32	41,600.04
8800 · MISCELLANEOUS	2,104.36	1,333.33	4,559.00	2,666.66	17,892.30	15,999.96
8820 · CUSTODIAL CARE	1,212.03	537.50	1,306.33	1,075.00	6,681.33	6,450.00
8830 · REPAIRS/MAINTENANCE	4,749.57	3,400.00	13,053.99	6,800.00	47,053.99	40,800.00
8840 · CHEMICAL SUPPLIES	26,999.99	26,499.99	66,827.91	52,999.99	331,827.81	317,999.88
8850 · TANKS/STANDPIPES/RESEVOIRS	-1,366.81	433.33	-1,366.81	866.67	2,966.49	5,199.96
8860 · UTILITIES	108,551.49	70,458.33	250,870.42	140,916.66	955,453.72	937,128.09
8870 · TRAVEL	0.00	300.00	947.86	600.00	3,947.86	3,600.00
8871 · MANAGER'S EXPENSE	434.52	100.00	481.18	200.00	1,481.18	1,200.00
8872 · BOARD EXPENSE	195.02	150.00	195.02	300.00	1,695.02	1,800.00
8873 · STAFF INCENTIVE PROGRAM	0.00	50.00	0.00	100.00	500.00	600.00
8874 · TRAINING & EDUCATION REIMBURSE	0.00	683.33	0.00	1,366.67	6,833.30	8,199.96
8875 · MEALS/ENTERTAINMENT	15.50	183.34	121.17	366.67	1,954.57	2,200.08
Total Expense	617,585.93	583,958.03	1,355,097.80	1,170,398.02	7,194,678.10	7,099,124.49
Net Ordinary Income	74,060.48	2,971.39	-75,219.54	3,460.82	-12,172.30	-55,971.45

Notes:

1 HSB--Legal Fees



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BOARD MEMORANDUM

September 6, 2007

Subject

August 2007 Administration Report

Discussion

Billing

All payments for the month of July have been received. Meters were read on August 30th, with usage up approximately 16.5% over last month (for the same number of days), and approximately 6.5% up from the same period/same number of days last year. August invoices were mailed on September 6th.

AGENCY	PREV.YR/SAME MONTH	LAST MONTH	CURRENT
# of Billing Days	31	29	30
Anderson	203,658,721	177,450,134	745,891,628
Big Creek	36,012,000	32,000,000	37,400,000
Broadway	24,182,700	21,460,000	28,127,800
Clemson	58,100,000	54,500,000	70,200,000
Clemson Univ	40,020,000	31,400,000	100,200,000
Hammond	79,400,000	81,700,000	22,351,000
Homeland Park	20,062,000	20,149,000	22,351,000
Pendleton	13,420,000	11,690,000	13,740,000
Powersville	28,350,000	22,910,000	31,670,000
Sandy Springs	83,013,000	63,676,000	80,070,000
Starr-Iva	43,200,000	33,800,000	40,500,000
West Anderson	60,139,000	42,910,000	61,467,000
Williamston	32,688,000	25,700,000	30,200,000
TOTALS:	723,244,421	619,345,134	745,891,628

Seasonal surplus charges for August were 31,510,000 gallons; \$37,181.80. Total sales to date under the Seasonal surplus program now total 128,111,000 and total dollars \$157,104.12.

Training

The next safety meeting will be held on Thursday, September 20th at 11:00 am. The subject will be Fire Protection, a continuation from July's safety meeting.

Drought Planning

The SC Drought Response Committee met on September 5, 2007 in Columbia. The Committee decided to raise the drought conditions for the area to Severe (Level 3 of 4). The Joint Water System supplies remain reliable with significant available water in Lake Hartwell. It was noted that recently evaporation from Lake Hartwell has exceeded inflow.

The Corps' of Engineers presently have Lake Hartwell and the Upper Savannah River system in Drought Level 2 which resulted in curtailment of flows from Lake Thurmond to 4,000 cfs. Based on present forecasts, the Corps anticipates entering Drought Level 3 in early December which will further reduce outflows from Lake Thurmond to 3,800 cfs. Reduced flows along the lower Savannah River impact both the carrying capacity of the river and its keep salt water flushed out of the lower basin.

Despite the availability of supplies to the Joint System, member agency drought plans should be reviewed. For Joint Water System member agencies it is more likely that increased demands will be constrained by transmission and distribution bottlenecks rather than an availability of supply. Continuation of drought like conditions may prolong the normal peak demand season which usually ends by October.

Outreach

Bryan Bates conducted a plant tour for three visiting out of state treatment operators. Two of the operators were from New Mexico, and one operated a Reverse Osmosis system on Tiger Woods private yacht.

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



ANDERSON REGIONAL

JOINT WATER SYSTEM

998 Hunters Trail
Phone: 864-332-6534

Anderson, SC 29625
Fax: 864-224-6116

BOARD MEMORANDUM

September 7, 2007

Subject

August 2007 Operations and Maintenance Report

Discussion

As of September 1, 2007 Lake Hartwell was at 653.43 ft above mean sea level. This is 6.57 feet below full pool. Raw water is being taken from the second gate of the intake structure. Water temperature at the second gate is eighty degrees. Warmer water temperatures work well with our process in respect to settled water turbidity goals. ARJWS reached 100% settled water turbidity goal for the month of August.

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 August was 94.2% of finished water capacity.

In addition to quality sampling for the Lake Hartwell Water Treatment Plant, Joint Water System staff processed 188 total coliform samples for local entities.

Water Production Data

	Average	Minimum	Maximum	Total
Raw Water (MG)	26,256,000	20,019,000	37,012,000	810,491,000
Finished Water (MG)	25,125,000	21,000,000	29,955,000	777,256,000
Finished Max Capacity	79.00%	66.00%	94.20%	78.00%

NOTE: Percentages are finished water capacities.

Minimum day for raw water is less than minimum day for finished water due to normal seasonal production shutdowns.

Water Quality Data

	Raw	Settled	Finished
pH	6.86	6.09	7.04
Turbidity (NTU) Range	1.8 to 2.2	0.44 to 0.79	0.05 to 0.09
Turbidity (NTU) Average	2.80	0.57	0.07
Turbidity (NTU) Exceedance	N/A	0%	0%
Residual Disinfectant (ppm)	N/A	0.44	1.26

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 fifteen months of Long Term 2 Enhanced Surface Water Treatment Rule testing. Results for the tenth 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	0.08 in.	0.11 in.
Temperature	69° F	101° F	N/A
Humidity	27% 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 five month average (March – July) of 24.0% to 16.5% 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 energy cost to produce 1 million gallons of water from \$107.84 to \$82.48, a 24% reduction in cost all while producing 6.7% more water. Monthly average energy cost increased 16% since last month while total water produced increased by 20.5%. Monthly energy consumption is detailed below.

Power Consumption

Month	On Peak Kw	Off Peak Kw	Total Kw	Finished Water	Kw Cost per Mg
Mar 2006	254,000	815,200	1,069,200	489,902,000	\$99.07
Apr 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
Jun 2006	368,000	1,390,400	1,390,400	662,386,000	\$120.72
Jul 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
Sep 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
Apr 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
Jun 2007	236,800	979,200	1,216,000	644,839,000	\$87.41
Jul 2007	224,000	1,187,200	1,411,200	777,256,000	\$91.16

Maintenance

- Sludge problems in clarifier were cleared after a valve was found closed at the sludge pit.
- Raw Water Pump # 4 has been installed up to the base and leveled. Pipe work will be completed within a few weeks.
- The ruptured fuel line on generator #1 has been replaced and the reset cable on generator #2 repaired. Sprayers have been installed on both 1 & 2 to assist with cooling. The hertz meter has been verified and the generators may be run at this time. An evaluation of their overall condition, modifications and maintenance options are being looked at.
- The summer painting project is wrapping up. Most of the exterior piping and the stairways have been completed. The exterior of the plant has been power washed.
- Instrumentation at Whitehall tank has been repaired.
- A valve has been installed on the new caustic fill line for safety reasons. This will prevent caustic from spilling back on truck operators when the fill line is disconnected.
- Water control lines in filter #3 have been repaired.
- The radio at Williamston tank is out due to lightning. Control boards are on order.

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

Approved by: Scott Willett, Executive Director



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BOARD MEMORANDUM

September 6, 2007

Subject

August Engineering Update

Discussion

Lake Hartwell Water Treatment Plant Upgrade

The chiller was delivered and reinstalled mid-August. MIOX was onsite the last week of August to re-commission the system. The MIOX system is currently making product and appears to be running well. We will be requesting the Permit to Operate from DHEC the week of September 10, 2007. After that, a date will be determined for converting from chlorine gas to MIOX for disinfection.

Transmission System Improvements

A technical review of the Preliminary Engineering Report (PER) was held August 16, 2007 at the Big Creek-Hammond training room. The hydraulic modeling effort and the immediate improvements necessary to sustain reliable water supply were the major focus of the meeting. Another Board Workshop is tentatively scheduled for September 13, 2007.

Annual Maintenance on Storage Tanks

ARJWS continues to work with Cingular Wireless on the removal of the antennas on the Clemson House Tank. A conference call is scheduled with Cingular Wireless, Clemson University, and Utility Service Co. to coordinate the removal of the antennas in order to complete the exterior maintenance of the tank.

Administrative/Maintenance Building

The contractor has completed the installation of the masonry and interior framing. Insulation, sheet rock, and various interior finishes are currently underway. The duct bank work has also begun.

Duke Power has completed the installation of the new service to the Administration Building.

Underground Power to Raw Water Pump Station

ARJWS has advertised the duct bank to the raw water pump station. Bids are to be received Monday, September 10, 2007. The results of the bids will be forthcoming for your review and approval.

Prepared by: Jennifer H. Barrington, P.E., System Engineer
Approved by: Scott Willett, Executive Director



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

BOARD MEMORANDUM

September 6, 2007

Subject

Approve Parking Lot Repaving Contract

Recommendation

Authorize the Executive Director to execute an agreement with King Asphalt, Inc. of Liberty, SC to provide the desired services at a cost not to exceed \$38,800 (Estimated cost plus 10% material contingency).

Discussion

During recent construction activity at the Water Treatment Plant (Capacity Expansion and new Headquarters facility) the parking areas and the main drive into the plant have been damaged. This damage is in addition to the normal wear and tear associated with large truck deliveries associated with normal operations. As part of the new headquarters facility additional parking places are required based on the proposed building occupancy level.

Invitations to bid were issued in July. Each potential respondent was provided a detailed description of the basic needs of the Joint Water System and were invited to the plant for an onsite inspection. Two providers have submitted final bids that met the terms of the request, both subject to material escalation based on the SCDOT liquid Index and Fuel Index. Each provider's qualifications and solution were evaluated and ranked.

Respondents

Provider	Bid	Location
Ashmore Brothers	\$70,094	Anderson, SC
King Asphalt	\$35,275	Liberty, SC
Pickens	No Bid	Anderson, SC

Approved by: Scott Willett, Executive Director



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BOARD MEMORANDUM

September 6, 2007

Subject

Approve Front Gate Improvement Contract

Recommendation

Authorize the Executive Director to execute an agreement with Advanced Fence Systems of Townville, SC to provide the desired services at a cost not to exceed \$20,800 (Estimated cost plus 10% contingency).

Discussion

The front gate opening mechanism is in need of repair due to wear and tear beyond that specified by the mechanism manufacturer. This has resulted in the practice of limiting operation of the gate by keeping it open during the business day which degrades overall site security. With the addition of the new headquarters facility efforts are underway to improve the water treatment plant site. As part of replacing the operating mechanism it is proposed that the front gate be replaced with a more ornamental gate that would be lighter on the operating mechanism while still providing the necessary security to the plant site.

Invitations to bid were issued in July. Each potential respondent was provided a detailed description of the basic needs of the Joint Water System and were invited to the plant for an onsite inspection. Two providers have submitted final bids that met the terms of the request. Each provider's qualifications and solution were evaluated and ranked.

Respondents

Provider	Bid	Location
Advanced Fence Systems	\$18,936	Townville, SC
Carolina Fence	No Bid	
Pro-Line Fence	\$23,390	Belton, SC

Approved by: Scott Willett, Executive Director