



DuPage Water Commission

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AGENDA

ENGINEERING & CONSTRUCTION COMMITTEE
THURSDAY, SEPTEMBER 15, 2011
6:30 P.M.

COMMITTEE MEMBERS

D. Loftus, Chair
R. Furstenau
F. Saverino
M. Scheck

600 EAST BUTTERFIELD ROAD
ELMHURST, IL 60126

- I. Roll Call
- II. Approval of Committee Meeting Minutes of July 21, 2011

RECOMMENDED MOTION: To approve the Minutes of the July 21, 2011 Engineering & Construction Committee Meeting of the DuPage Water Commission.

- III. Report of Status of Construction/Operations
- IV. R-39-11—A Resolution Approving and Ratifying Certain Task Orders Under a Master Contract with EN Engineering, LLC at the September 15, 2011, DuPage Water Commission Meeting
- V. R-40-11—A Resolution Approving and Authorizing the Execution of a Contract for Consulting Services for Design and Construction of a Joint Connection Facility
- VI. Discussion Items
- VII. Other
- VIII. Adjournment

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**MINUTES OF A MEETING OF THE
ENGINEERING & CONSTRUCTION COMMITTEE
OF THE DuPAGE WATER COMMISSION
HELD ON THURSDAY, JULY 21, 2011
600 EAST BUTTERFIELD ROAD
ELMHURST, ILLINOIS**

The meeting was called to order at 6:30 P.M.

Committee members in attendance: D. Loftus, R. Furstenau, F. Saverino, and M. Scheck

Also in attendance: R. C. Bostick, F. Frelka, E. Kazmierczak, J. Schori. And M. Weed.

Commissioner Saverino moved to approve the Minutes of the June 23, 2011 Engineering Committee. Motion seconded by Commissioner Furstenau and passed unanimously as follows:

Ayes: D. Loftus, R. Furstenau, F. Saverino and M. Scheck
Nays: None
Absent: None

Facilities Construction Supervisor / Safety Coordinator Bostick provided an oral report highlighting the Status of Operations report;

Regarding Contract PSD-7 DPPS Electrical Generation, the Committee was briefed on the completion of medium voltage equipment acceptance testing, operations & maintenance training and commissioning activities. The Committee was also briefed on the status of the 3rd part evaluation of noted potential engineering deficiencies in the generation facilities under construction.

Regarding the Generator Supply Contract, the Committee was advised the fuel system modifications and the testing of the portable generator is complete at both sites.

Regarding Contract PSC-4 Lexington Generation Facilities, the Committee was briefed that the project is complete and final billing is anticipated at the August DWC meeting.

Regarding Contract PSC-5 Lexington Photovoltaic Facilities, the Committee was briefed that the project is complete with the exception of going live with the web page on the Commission's website and also final billing is anticipated at the August DWC meeting.

Commissioner Saverino inquired as to the ability of start-up of the DuPage generation facilities should a failure of electric utility supply occur as has been occurring in the area since the last storm event. Facilities Construction Supervisor Bostick indicated that DWC has not lost utility power, other than perhaps momentarily and the generators are capable of starting automatically should a failure occur. Commissioner Furstenau inquired as to the impact to DWC customers in the event of loss of power and pumps. Facilities Construction Supervisor Bostick advised that in a loss of pumping, some customers may be impacted immediately depending on the Commission's hydraulic grade line, or simply the water level in our standpipes. However, Facilities Construction Supervisor Bostick also advised the Committee that, the Customers are to have two (2) days average of water storage in their systems for these types of events.

Regarding the DuPage County Steeple Run Service Area, Staff advised the Committee that with last month's approval of the intergovernmental agreement to design and construct the joint facility, Staff has commenced negotiations with an engineering firm. Staff advised that the proposed engineering costs and scope has been forwarded onto DuPage County for their advice and consent. Upon receiving the County's consent, Staff will commence on negotiating the legal terms of the agreement. Chairman Loftus reiterated his previous thoughts where he would like to meet with Staff to discuss modification of the Commission's standard contract terms in hope of attracting a broader range of professional services providers which are technically qualified of performing services for the Commission.

Commissioner Furstenau inquired as to the completeness of routine monthly inspections and maintenance at remote facilities. Commissioner Furstenau inquired as to whether or not a system is in place to measure if maintenance work is being done and on time. Instrumentation/Remote Facilities Supervisor Schori indicated that the Infor system is in place which automatically schedules and tracks maintenance activities. Instrumentation/Remote Facilities Supervisor Schori also indicated that he has an employee out on disability where the critical maintenance needs are being met however some lesser maintenance functions are slipping due to lack of available manpower.

Regarding Corrosion control on the Outer Belt Transmission Main (TOB-7/11), Pipeline Supervisor Kazmierczak advised that the design is ongoing however delays continue due to Commonwealth Edison being non-responsive to engineering requests. Commissioner Furstenau asked staff to summarize the importance of corrosion control projects. Pipeline Supervisor Kazmierczak advised that it is difficult to qualify or quantify the importance however maintaining the integrity of the pipe is the mission, and mitigation of corrosion is a key to maintaining that integrity. Pipeline Supervisor Kazmierczak also advised that the corrosion control work itself is perpetual where monitoring of installed facilities is cyclical.

Engineering Meeting Minutes July 21, 2011

- IV. R-33-11 – A Resolution Approving and Ratifying Certain Contract PSC-4/08 Change Orders at the July 21, 2011, DuPage Water Commission Meeting.
- V. Purchase Order No. 12956 to HD Supply Waterworks in the amount of \$42,715.60.

Staff advised that Change Order No. 9 for PSC-4/08 appears on the agenda as R-33-11. This is a no cost change order to extend the completion date of the PSC-4 Contract to coincide with the completion of the work involved with the portable generator fuel systems modifications necessary to operate in an environmentally safe manner at the Lexington Pumping Station.

Staff advised that Purchase Order No.12956 would enable Staff to warehouse sufficient parts to extend the life expectancy of the Commission's soon to be discontinued 6" turbine meters up to 25 years. Staff advised that the purchase of the additional parts is far more efficient and cost effective rather than replacing the meters outright and then warehousing a multitude of parts for any new meter line.

Commissioner Furstenau moved to adopt item numbers IV and V under the Engineering & Construction Committee Agenda in a single group pursuant to the Omnibus Vote Procedures Motion seconded by Commissioner Scheck and passed unanimously as follows:.

Ayes: D. Loftus, R. Furstenau, F. Saverino and M. Scheck
Nays: None
Absent: None

Commissioner Furstenau moved to adjourn the meeting at 6:55 P.M. Motion seconded by Commissioner Saverino and passed unanimously as follows:

Ayes: D. Loftus, R. Furstenau, F. Saverino and M. Scheck
Nays: None
Absent: None



DuPage Water Commission

MEMORANDUM

TO: John Spatz
General Manager

FROM: Terry McGhee
Manager of Water Operations

Ed Kazmierczak	Pipeline Supervisor
Chris Bostick	Facilities Construction Supervisor
John Schori	Instrumentation Supervisor
Frank Frelka	GIS Coordinator
Mike Weed	Operations Supervisor

DATE: September 8, 2011

SUBJECT: Status of Operations

Operations Overview

The Commission's sales for the month of August were a total of 2.741 billion gallons. This represents an average day demand of 88.4 million gallons per day (MGD), which is lower than the August 2010 average day demand of 92.4 MGD. The maximum day demand was 99.4 MGD on August 19, 2011, which is lower than the August 2010 maximum day demand of 107.1 MGD. The minimum day flow was 79.8 MGD. The Commission's recorded total precipitation for the month of August was 4.54 inches compared to 1.80 inches for August 2010. The level of Lake Michigan for August 2011 is 578.21 (Feet IGLD 1985) compared to 578.22 (Feet IGLD 1985) for August of 2010.

Water Conservation

The Commission is sponsoring a high school and college video contest on water conservation. Winning film(s) will be featured on dpwc.org and preservingeverydrop.org. Winner(s) will also receive a trophy and be eligible for prizes from participating partners.

Document Management

Staff is in the process of moving documents into the databases on the Document Management System. Staff's goal is to move all documents to the Document Management System by November.

The Commission's new leased copiers/printers have been outfitted with software that will allow employees to directly scan into the Document Management System.

Facilities Construction Overview

Contract PSD-7 DPPS Electrical Generation

Staff continues meeting with the design engineer to discuss outstanding design issues.

Contract PSC-5 Lexington Photovoltaic Cells

Tank Industry Consultants will perform post construction inspection of the interior surfaces of the Lexington concrete reservoirs in later half of September. The photovoltaic system was installed on top of the reservoir.

DuPage County Service Areas

R-40-11 appears on the agenda to enter into an agreement with AECOM to provide professional services for the design and construction of the Steeple Run Service Area joint connection facilities. DuPage County has posted a deposit to cover 100% of all related costs.

We are reviewing a proposed DPC special service area connection to existing facilities.

Instrumentation / Remote Facilities Overview

Annual Customer Meter Calibration Program

Maintenance and calibration of the test bench is complete. The program is scheduled to begin the third week of September.

Remote Facilities Maintenance

The annual tank site inspection and calibrations are complete. The annual remotely operated valve inspections and calibrations have begun.

Contract QRE-5/10 (Quick Response Electrical Contract)

Work Authorization Order # QRE-5.002 to repair the electrical service entrances at various meter stations is scheduled with ComEd for early September.

GIS

Infor EAM

The Infor EAM upgrade project is set for the first week of October with training on new functionality and system administration scheduled for the following week. A new server was purchased that will be used for all the Infor system components. The final portion of the upgrade project will consist of migrating all data to the production server will take place the first week of November.

Staff continues to look at integrating Infor EAM with the Incode financial accounting system.

ArcGIS Server Web Site

The GIS Coordinator has resumed work on developing a new GIS web site using ArcGIS Server version 10.

Paperless Agenda Project

Work continues on this project.

Pipeline Construction Overview

Contracts TOB-7/11 and TS-8

Work continues on project design and contract specifications for the Outer Belt Transmission Main Corrosion Mitigation Contract and the South Transmission Main Corrosion Mitigation Project (EN Engineering Task Order Nos. 13 and 6).

Contract VSR-1/11(Valve Stem Replacement)

Staff is looking into the possibility of performing a majority of this work in-house rather than advertising for contractor installation services as was originally budgeted. A preliminary cost comparison suggests that the Commission may be able to realize a significant costs savings utilizing in-house labor and revising certain materials and assembly techniques. To that end, prototype valve stem risers are in the process of being assembled and installed and, once completed, will give us a better idea on potential cost savings.

Contract QR-9 (Quick Response Contract)

Work Authorization No. 1 to Contract QR-9 (blow off valve adjustment and pavement repair on Swift Road in the City of Addison) has been completed.

Other

Annual valve exercising is in progress and is expected to be completed by the end of November.

SEPTEMBER 2011 COMMISSION AGENDA ITEMS:

R-39-11---A Resolution Approving and Ratifying Certain Task Orders Under a Master Contract with EN Engineering, LLC at the September 15, 2011, DuPage Water Commission Meeting

R-40-11---A Resolution Approving and Authorizing the Execution of a Contract for Consulting Services for Design and Construction of a Joint Connection Facility at the September 15, 2011, DuPage Water Commission Meeting

Attachments:

1. DuPage Laboratory Bench Sheets for August , 2011
2. Water Sales Analysis 01-August-06 to 31-August- 2011
3. Chart showing Commission sales versus allocations
4. Chart showing Commission sales versus historical averages

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET
MONTHLY REPORT FOR AUGUST 2011

LEXINGTON SUPPLY

DUPAGE DISCHARGE

DAY	FREE CL ₂	TURBIDITY	PO ₄	FREE CL ₂	TURBIDITY	TEMP	pH	Fluoride	PO ₄	P.A.C.	ANALYST
	mg/l	NTU	mg/l	mg/l	NTU	°F		mg/l	mg/l	LBS/MG	INT
1	0.80	0.10	0.49	0.81	0.11	70	7.7	1.1	0.51	0	JG
2	0.81	0.10	0.52	0.80	0.11	70	7.7	1.0	0.52	0	MR
3	0.83	0.10	0.53	0.85	0.10	71	7.6	1.0	0.53	0	MR
4	0.85	0.11	0.48	0.81	0.11	70	7.6	1.0	0.52	0	MR
5	0.84	0.11	0.53	0.84	0.10	71	7.7	1.2	0.51	0	JG
6	0.80	0.10	0.51	0.83	0.10	71	7.7	1.1	0.52	0	JG
7	0.82	0.10	0.53	0.82	0.10	71	7.7	1.0	0.53	0	JG
8	0.85	0.10	0.51	0.81	0.10	71	7.6	1.2	0.52	0	JG
9	0.80	0.11	0.53	0.83	0.11	71	7.6	1.0	0.51	0	JG
10	0.81	0.10	0.53	0.81	0.10	71	7.6	1.0	0.51	0	JG
11	0.84	0.12	0.55	0.84	0.10	71	7.7	1.1	0.50	0	JG
12	0.82	0.12	0.51	0.82	0.11	72	7.6	1.0	0.52	0	JG
13	0.83	0.10	0.52	0.84	0.10	72	7.7	1.0	0.49	0	GA
14	0.87	0.11	0.51	0.85	0.10	73	7.6	1.0	0.51	0	RC
15	0.84	0.11	0.53	0.88	0.10	72	7.6	1.0	0.53	0	RC
16	0.80	0.12	0.51	0.89	0.11	72	7.6	1.0	0.53	0	RC
17	0.84	0.10	0.50	0.85	0.10	72	7.7	1.0	0.52	0	RC
18	0.81	0.12	0.52	0.89	0.10	73	7.7	1.0	0.51	0	GA
19	0.83	0.12	0.50	0.87	0.10	73	7.6	1.1	0.50	0	GA
20	0.82	0.11	0.50	0.89	0.10	74	7.7	1.0	0.50	0	GA
21	0.84	0.11	0.51	0.89	0.09	73	7.7	1.0	0.49	0	GA
22	0.88	0.12	0.50	0.89	0.10	73	7.6	1.0	0.54	0	KD
23	0.81	0.10	0.52	0.88	0.11	72	7.7	1.0	0.52	0	RC
24	0.86	0.12	0.51	0.86	0.10	72	7.7	0.9	0.52	0	KD
25	0.81	0.10	0.52	0.87	0.11	73	7.7	1.1	0.51	0	RC
26	0.84	0.11	0.51	0.84	0.11	73	7.6	1.0	0.51	0	AM
27	0.81	0.09	0.51	0.86	0.09	72	7.6	1.1	0.51	0	GA
28	0.88	0.11	0.52	0.87	0.10	73	7.6	1.0	0.53	0	AM
29	0.84	0.11	0.51	0.88	0.10	72	7.6	1.1	0.50	0	GA
30	0.83	0.10	0.52	0.85	0.10	73	7.6	1.1	0.53	0	RC
31	0.87	0.10	0.53	0.88	0.11	74	7.6	1.0	0.53	0	KD
AVG	0.83	0.11	0.52	0.85	0.10	72	7.6	1.0	0.52	0.00	
MAX	0.88	0.12	0.55	0.89	0.11	74	7.7	1.2	0.54	0.00	
MIN	0.80	0.09	0.48	0.80	0.09	70	7.6	0.9	0.49	0.00	


Terrance McGhee
Manager of Water Operations

DU PAGE WATER COMMISSION
WATER SALES ANALYSIS

01-May-92 TO 31-Aug-11

PER DAY AVERAGE 81,329,871

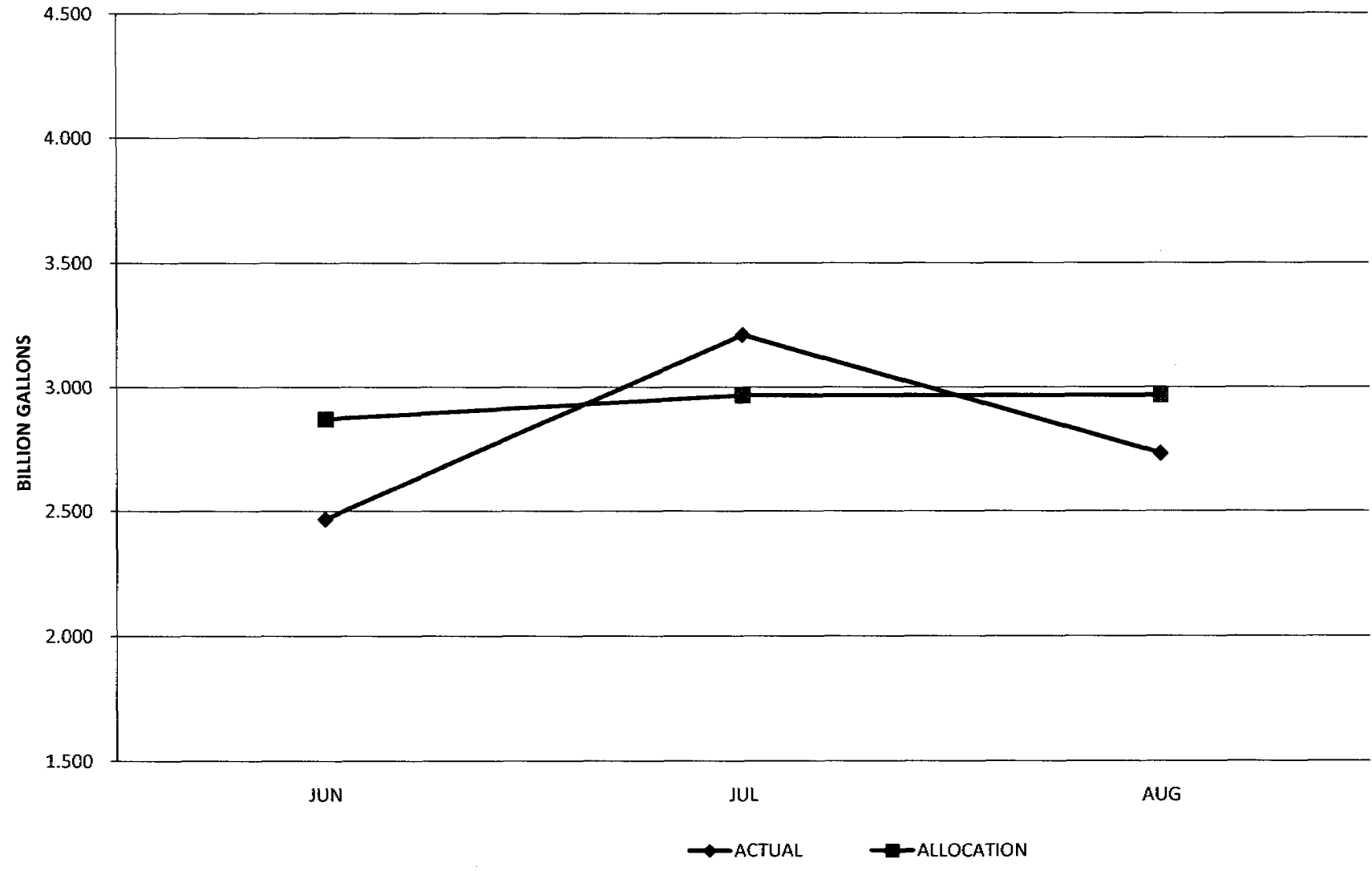
MONTH	SALES TO CUSTOMERS (GALLONS)	PURCHASES FROM CHICAGO (GALLONS)	GALLONS BILLED %	BILLINGS TO CUSTOMERS	BILLINGS FROM CHICAGO	DOCUMENTED COMMISSION WATER USE (2)	DOCUMENTED COMMISSION WATER USE %	TOTAL ACCOUNTED FOR %	DWC OPER. & MAINT. RATE (3)	CHGO RATE
May-08	2,474,831,000	2,586,584,008	96.43%	\$2,573,824.24	\$3,925,590.24	4,884,294	0.19%	96.62%	\$1.04	\$1.529
Jun-08	2,604,318,000	2,677,371,376	97.27%	\$2,709,084.64	\$4,095,039.52	1,964,000	0.07%	97.34%	\$1.04	\$1.530
Jul-08	3,152,495,000	3,254,898,777	96.85%	\$3,278,594.80	\$4,978,367.68	2,131,900	0.07%	96.92%	\$1.04	\$1.530
Aug-08	3,184,859,000	3,279,095,181	97.13%	\$3,312,253.36	\$5,015,376.08	2,353,100	0.07%	97.92%	\$1.04	\$1.530
Sep-08	2,552,623,000	2,619,576,751	97.44%	\$2,655,066.48	\$4,006,842.64	2,109,972	0.08%	97.52%	\$1.04	\$1.529
Oct-08	2,302,750,000	2,362,503,982	97.47%	\$2,855,410.00	\$3,613,449.84	7,923,498	0.34%	97.81%	\$1.24	\$1.529
Nov-08	2,096,015,000	2,165,230,363	96.80%	\$2,599,238.12	\$3,311,719.84	2,220,353	0.10%	96.91%	\$1.24	\$1.529
Dec-08	2,256,850,000	2,320,311,736	97.26%	\$2,798,494.00	\$3,548,916.80	2,283,006	0.10%	97.36%	\$1.24	\$1.529
Jan-09	2,293,548,000	2,349,026,333	97.64%	\$2,843,999.52	\$4,131,937.32	2,163,839	0.09%	97.73%	\$1.24	\$1.759
Feb-09	2,048,827,000	2,102,586,263	97.44%	\$2,540,545.48	\$3,696,346.65	1,967,373	0.09%	97.54%	\$1.24	\$1.758
Mar-09	2,141,079,000	2,198,279,067	97.40%	\$2,655,454.08	\$3,884,574.60	5,652,898	0.26%	97.66%	\$1.24	\$1.758
Apr-09	2,090,046,000	2,146,681,399	97.36%	\$2,591,657.04	\$3,773,865.90	2,265,801	0.11%	97.47%	\$1.24	\$1.758
May-09	2,446,586,000	2,522,765,415	96.98%	\$3,620,947.28	\$4,435,021.60	2,189,800	0.09%	97.07%	\$1.48	\$1.758
Jun-09	2,517,674,000	2,587,363,481	97.31%	\$3,726,157.52	\$4,548,585.00	2,202,450	0.09%	97.39%	\$1.48	\$1.758
Jul-09	2,888,499,000	2,971,742,918	97.20%	\$4,274,978.52	\$5,224,324.05	2,030,397	0.07%	97.27%	\$1.48	\$1.758
Aug-09	2,931,183,000	3,010,833,874	97.35%	\$4,338,150.84	\$5,293,045.95	7,554,834	0.25%	97.81%	\$1.48	\$1.758
Sep-09	2,614,552,000	2,691,957,594	97.12%	\$3,869,536.96	\$4,732,461.45	1,994,945	0.07%	97.20%	\$1.48	\$1.758
Oct-09	2,155,177,000	2,204,779,266	97.75%	\$3,189,661.96	\$3,876,001.95	2,141,324	0.10%	97.85%	\$1.48	\$1.758
Nov-09	2,003,572,000	2,054,392,036	97.53%	\$2,965,286.56	\$3,611,621.20	2,224,921	0.11%	97.63%	\$1.48	\$1.758
Dec-09	2,124,149,000	2,174,881,342	97.67%	\$3,143,740.52	\$3,823,441.40	2,335,534	0.11%	97.77%	\$1.48	\$1.758
Jan-10	2,152,708,000	2,207,536,160	97.52%	\$3,186,007.84	\$4,426,110.00	2,148,128	0.10%	97.61%	\$1.48	\$2.005
Feb-10	1,920,433,000	1,956,112,219	98.18%	\$2,842,240.84	\$3,922,005.00	1,920,979	0.10%	98.27%	\$1.48	\$2.005
Mar-10	2,088,030,000	2,142,426,434	97.46%	\$3,090,284.40	\$4,295,565.00	3,367,754	0.16%	97.62%	\$1.48	\$2.005
Apr-10	2,117,657,000	2,160,538,653	98.02%	\$3,134,132.36	\$4,331,880.00	2,162,448	0.10%	98.12%	\$1.48	\$2.005
May-10	2,493,442,000	2,546,177,057	97.93%	\$4,587,933.28	\$5,105,085.00	1,951,633	0.08%	98.01%	\$1.84	\$2.005
Jun-10	2,379,251,000	2,435,768,080	97.68%	\$4,377,821.84	\$4,883,715.00	1,052,920	0.04%	97.72%	\$1.84	\$2.005
Jul-10	2,977,683,000	3,048,231,920	97.69%	\$5,478,936.72	\$6,111,705.00	1,342,710	0.04%	97.73%	\$1.84	\$2.005
Aug-10	2,867,253,000	2,924,004,988	98.06%	\$5,275,745.52	\$5,862,630.00	930,281	0.03%	98.09%	\$1.84	\$2.005
Sep-10	2,525,751,000	2,588,259,352	97.58%	\$4,647,381.84	\$5,189,460.00	1,085,300	0.00%	97.58%	\$1.84	\$2.005
Oct-10	2,394,743,000	2,449,952,618	97.75%	\$4,406,327.12	\$4,912,155.00	1,143,788	0.05%	97.79%	\$1.84	\$2.005
Nov-10	2,044,476,000	2,079,920,200	98.30%	\$3,781,835.84	\$4,170,240.00	955,414	0.05%	98.34%	\$1.84	\$2.005
Dec-10	2,173,930,000	2,196,014,963	98.99%	\$4,000,031.20	\$4,403,010.00	943,234	0.04%	99.04%	\$1.84	\$2.005
Jan-11	2,176,905,000	2,203,802,993	98.78%	\$4,005,505.20	\$4,418,625.00	6,094,505	0.28%	99.06%	\$1.84	\$2.005
Feb-11	1,960,872,000	1,992,314,214	98.42%	\$3,608,004.48	\$3,994,590.00	3,351,469	0.17%	98.59%	\$1.84	\$2.005
Mar-11	2,084,629,000	2,119,930,175	98.33%	\$3,835,717.36	\$4,250,460.00	875,189	0.00%	98.33%	\$1.84	\$2.005
Apr-11	2,032,022,000	2,050,900,249	99.08%	\$3,738,920.48	\$4,112,055.00	674,574	0.03%	99.11%	\$1.84	\$2.005
May-11	2,342,971,000	2,384,648,379	98.25%	\$4,779,660.84	\$4,781,220.00	603,990	0.03%	98.28%	\$2.04	\$2.005
Jun-11	2,467,779,000	2,526,763,092	97.67%	\$5,034,118.96	\$5,066,160.00	700,540	0.03%	97.89%	\$2.04	\$2.005
Jul-11	3,211,413,000	3,276,142,145	98.02%	\$6,551,276.72	\$6,568,665.00	1,090,800	0.03%	98.06%	\$2.04	\$2.005
Aug-11	2,733,016,000	2,779,503,741	98.33%	\$5,575,352.64	\$5,572,905.00	792,559	0.03%	98.36%	\$2.04	\$2.005
TOTALS (1)	574,351,550,400	590,745,517,248	97.22%	\$775,257,258.51	\$738,075,351.53	588,939,556	0.10%	97.32%	\$1.35	\$1.249

(1) - SINCE MAY 1, 1992

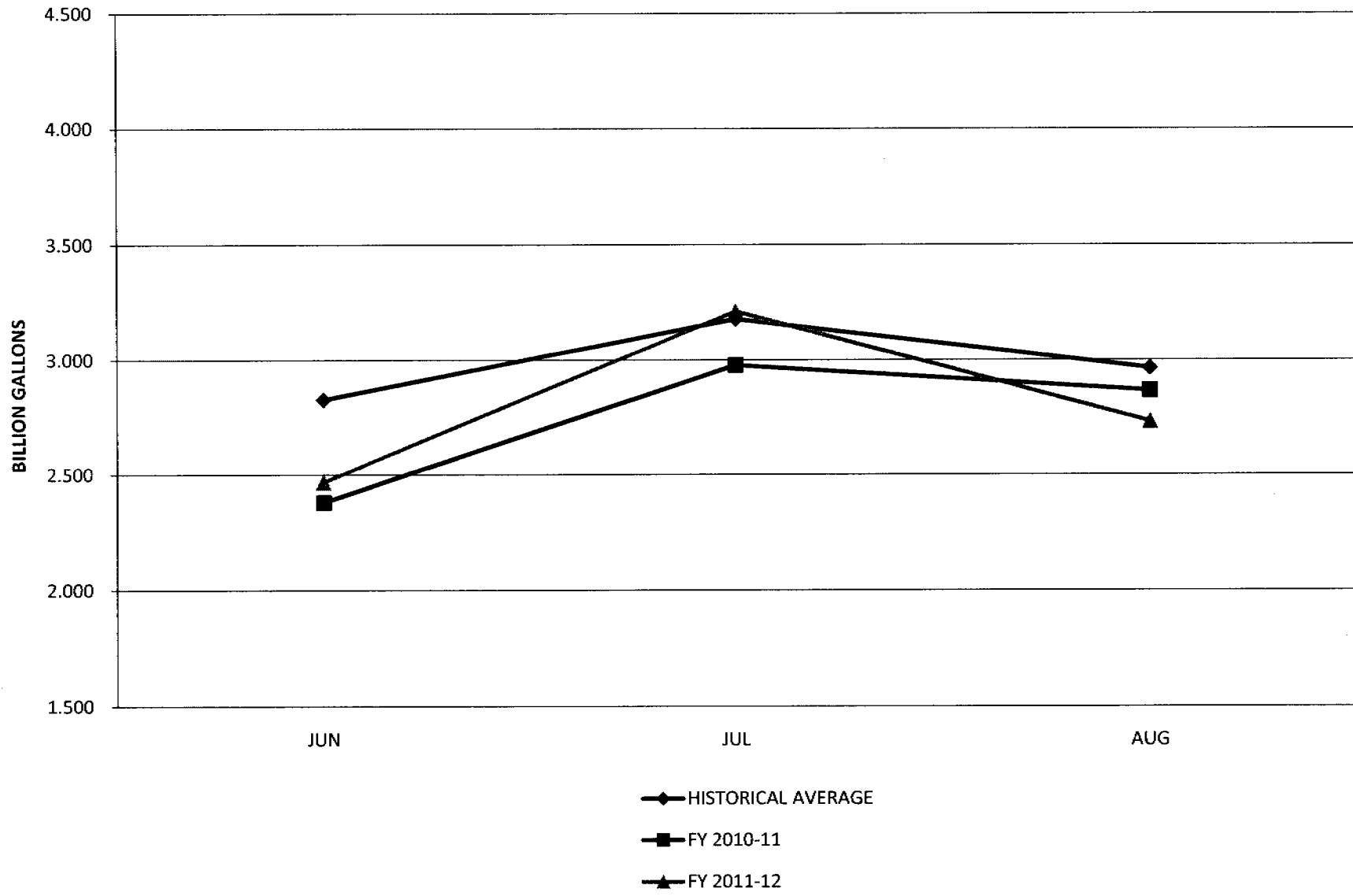
(2) - REPRESENTS DU PAGE PUMP STATION, METER TESTING AND CONSTRUCTION PROJECT USAGE

(3) - DOES NOT INCLUDE FIXED COST PAYMENTS

DU PAGE WATER COMMISSION SALES FY 2011-12 VS. ALLOCATION



DU PAGE WATER COMMISSION SALES FY 2011-12 & FY 2010-11 VS. HISTORICAL AVERAGE



**Open Contracts Summary
Ending August 31, 2011**

Contractor	Project	Contract Amount	Approved Change Orders	Current Contract Amount	Contract Commencement Date	Contract Completion Date	Percent Complete (1)	Percent Change from Previous Month (1)
Construction								
DIVANE BROS ELECTRIC CO.	PHOTOVOLTAIC SYSTEM AT THE LEXINGTON PUMPING STATION	\$ 7,996,000.00	\$ 254,111.00	\$ 8,250,111.00	July 21, 2008	October 21, 2010	90%	0%
PATTEN INDUSTRIES, INC.	SUPPLY OF ENGINE GENERATORS	\$ 6,417,608.00	\$ 27,712.00	\$ 6,445,320.00	September 13, 2007		90%	0%
JOSEPH J HENDERSON AND SON	ELECTRIC GENERATION FACILITY AND VARIABLE FREQUENCY DRIVES AT THE LEXINGTON PUMPING STATION	\$ 17,209,000.00	\$ 492,949.20	\$ 17,701,949.20	July 21, 2008	October 21, 2010	100%	0%
WILLIAMS BROTHERS CONSTRUCTION CO.	ELECTRIC GENERATION FACILITIES, GARAGE AND OFFICE EXPANSION AT THE DUPAGE PUMPING STATION	\$ 16,970,000.00	\$ 676,332.00	\$ 17,646,332.00	November 25, 2008	May 30, 2011	99.995%	0%
MARTAM CONSTRUCTION, INC.	WINFIELD METER/PRESSURE ADJUSTING STATIONS 17B	\$ 209,760.00	\$ 810.00	\$ 210,570.00	March 25, 2010	November 20, 2010	99%	0%
Services								
GREELEY AND HANSEN LLC	LEXINGTON PUMP STATION PHOTOVOLTAIC ENGINEERING	\$ 1,178,236.00	\$ -	\$ 1,178,236.00	January 12, 2007		100%	0%
GREELEY AND HANSEN LLC	LEXINGTON PUMP STATION GENERATOR/VFD ENGINEERING	\$ 2,670,676.00	\$ -	\$ 2,670,676.00	January 12, 2007		100%	0%
CAMP DRESSER MCKEE	DUPAGE PUMP STATION GENERATION ENGINEERING	\$ 2,004,688.00	\$ -	\$ 2,004,688.00	November 10, 2003		85%	0%
CAMP DRESSER MCKEE	SUPPLY OF ENGINE GENERATORS ENGINEERING	\$ 146,227.00	\$ -	\$ 146,227.00	January 11, 2007		90%	0%
AECOM	WINFIELD METER/PRESSURE ADJUSTING STATIONS 17B	\$ 71,700.00	\$ -	\$ 71,700.00	June 9, 2006		100%	20%

(1) Completion based on approved/pending contractor invoices

PSC-4 LEXINGTON GENERATORS AND VFD'S			ORIGINAL CONTRACT	\$17,209,000.00	
CHANGE ORDER	DATE APPROVED	CONTENT	COST	REVISED CONTRACT COST	
1	4/9/09	South Road Modifications	\$28,331.37	\$17,237,331.37	
2	9/10/09	Building Permit Related Work	\$204,866.51	\$17,442,217.88	
3	10/9/09	South Road Manhole Adjustment	\$3,270.43	\$17,445,468.31	
4	2/12/10	IDOT Permit Required Work	\$67,025.47	\$17,512,493.78	
5	4/15/10	Underground Fuel Storage Tank Permit Requirements and Roof Curb Additions	\$71,636.68	\$17,584,130.46	
6	6/10/10	City of Chicago Water Main Modifications	\$36,727.64	\$17,620,858.10	
7	10/14/10	Penthouse roofing credit	-\$7,779.56	\$17,613,078.54	
8	12/09/10	Fuel Oil Pump Electric ComEd Building LV Electric Generator Exhaust Stacks	\$88,870.66	\$17,701,949.20	
9	7/21/11	Contract Time Extension	\$0.00	\$17,701,949.20	CUMULATIVE CHANGE ORDER PERCENTAGE THROUGH CO#8 2.86%
PSC-5 LEXINGTON PHOTOVOLTAIC			ORIGINAL CONTRACT	\$7,996,000.00	
CHANGE ORDER	DATE APPROVED	CONTENT	COST	REVISED CONTRACT COST	
1	8/14/09	Expansion of 24 KW from ILDCEO Grant received	\$250,000.00	\$8,246,000.00	
2	10/14/10	Contract Time extension of 92 Calendar Days	N/A	N/A	
3	2/10/11	Additional Conduit Work	\$4,111.00	\$8,250,111.00	CUMULATIVE CHANGE ORDER PERCENTAGE THROUGH CO#3 3.17%
PSD-7 DUPAGE GENERATORS/OFFICE/GARAGE EXPANSION			ORIGINAL CONTRACT	\$16,970,000.00	
CHANGE ORDER	DATE APPROVED	CONTENT	COST	REVISED CONTRACT COST	
1	2/6/09	Building Permit Required Work - Garage	\$78,175.00	\$17,048,175.00	
2	5/15/09	Sanitary Casing/Demolition and Storm water Work	\$36,131.00	\$17,084,306.00	
3	7/10/09	Structural/Architectural Modifications	\$14,279.00	\$17,098,585.00	
4	8/14/09	ComEd Work, IDOT Permit Required Work, Add Gypsum and Knee Wall	\$33,179.00	\$17,131,764.00	
5	10/9/09	Roof and Underground Piping Modifications, Water Stop Addition	\$29,861.00	\$17,161,625.00	
6	2/12/10	15 Items; Electrical, Data, Natural Gas Piping, Fall Protection, Water Main Work and Credit, Mechanical Work, Permit Required Sanitary Vents	\$74,959.00	\$17,236,584.00	

DuPage Water Commission
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PSD-7 DUPAGE GENERATORS/OFFICE/GARAGE EXPANSION (Continued)			ORIGINAL CONTRACT	\$16,970,000.00	
CHANGE ORDER	DATE APPROVED	CONTENT	COST	REVISED CONTRACT COST	
7	3/11/10	Combination Motor Starters, Fuel/Oil Piping Modifications	\$18,576.00	\$17,255,160.00	
8	5/13/10	2 Items; Relocation of Fire Suppression System Piping and Meter Vault adjustment	\$3,947.00	\$17,259,107.00	
9	7/13/10	HVAC Modifications, Access Ladder, Concrete Sidewalks & Stairs, Lighting Modifications and Security System Enhancements	\$302,241.00	17,561,348.00	
10	8/12/10	Demolition Credit, Electrical Wiring, Eliminate Data Racks, Balancing a Previous CO Item, Power Relays, Conduit Install and Flow Switches	\$18,493.00	\$17,579,841.00	
11	10/14/10	Plumbing Demolition Credit Security Conduit Extension Fire Detection/Alarm System Additional Light Fixture	\$28,284.00	\$17,603,125.00	
12	11/11/10	Conduit and Cabling for Exterior Lighting Control and Contract Time Extension	\$1,185.00	\$17,604,310.00	
13	01/13/11	HVAC Panel Consolidation, Addressable Smoke Detectors in AHU's, SCADA Data Cabling/Connections	\$17,048.00	\$17,621,358.00	
14	04/21/11	Return Air Fan Motor Change, Fuel Hoses, HVAC/Fire System Control and Fuel Management System	\$24,974.00	\$17,646,332.00	
15	08/18/11	Negotiated Work in Lieu of Material Supply	\$0.00	\$17,646,332.00	CUMULATIVE CHANGE ORDER PERCENTAGE THROUGH CO#15 3.99%
SUPPLY OF ENGINE GENERATORS			ORIGINAL CONTRACT	\$6,417,608.00	
CHANGE ORDER	DATE APPROVED	CONTENT	COST	REVISED CONTRACT COST	
1	5/9/08	Revised Delivery Dates	\$0.00	N/A	
2	2/10/11	Modifications to Fuel Delivery System	Estimated \$27,712.00	\$6,445,320.00	
3	08/18/11	Actual Costs to Modify Fuel Delivery System as Approved by CO#2	Actual \$23,208.00	\$6,440,816.00	CUMULATIVE CHANGE ORDER PERCENTAGE THROUGH CO#3 0.36%