JEA Engineering and Contractor Workshop

October 26, 2011

JEA Engineering and Contractor Workshop - Agenda

Welcome /Safety Briefing

Greg Perrine, VP Facilities & Logistics Services

Update on Infrastructure Projects

Ed Dendor, Director Projects

Cost & Schedule Management

Charles Bayless & Ann Freudenthal, Managers Project Support & Controls

Update on Infrastructure Projects

Ed Dendor, Director Projects

ECS Project Work Review

- Bid Activity Last Quarter
- Future Bid Activity, next 12 months
 - First Half of FY 2012 (October '11 to March '12)
 - Engineering
 - Construction
 - Second Half of FY 2012 (April '12 to September '12)
 - Engineering
 - Construction

Bid Activity Last Quarter

Bid Activity Last Quarter -

Engineering:

- Plant (Electric, Water & Wastewater) -
 - None
- Substation/Transmission
 - None
- Grid (Water & Wastewater) -
 - TWMP: Segment 2 (Design/Build-Full Proposals), \$15M

Bid Activity Last Quarter -

Construction:

- Plant (Electric, Water & Wastewater) -
 - Greenland Energy Center Liquid Fuel Tank Addition, awarded to Caldwell Tanks, \$4.2M
 - Kennedy Generating Station Miscellaneous Demolition work:
 - Docks removal awarded to Hal Jones Contractors, \$176K
 - Misc Building removal awarded to Griffin Wrecking, \$31K
 - Buckman BNR, Grit removal & Turbo Blowers, low bidder is WPC Industrial Contractors, \$ 14.99M
- Substation/Transmission -
 - None
- Grid (Water & Wastewater)
 - None

What's planned for the next 6 months?

10/01/11 - 3/31/12

Engineering:

- Plant (Electric, Water & Wastewater)
 - Wellfield Work per Consumptive Use Permit (CUP), \$2M
 - Mandarin WRF Reclaimed Water High Service Pump Upgrade, \$120K
 - Fairfax Water Treatment Plant Reservoir Rehabilitation, \$100K
 - Arlington Water Treatment Plant Booster Pump Upgrade, \$180K
- Substation/Transmission -
 - Transmission Tower Modifications Blount Island Fulton Cut Crossing, \$400K

10/01/11 - 3/31/12

Engineering, Continued

- Grid (Water & Wastewater) -
 - San Jose Phase-Out Force Main, \$100K
 - Riverside Ave.WM Rehab (include CEI), \$800K
 - JAX Heights WWT Phase Out, \$100K
 - Lincoln Villas Service Area 2, \$100K

10/01/11 - 3/31/12

Construction:

- Plant (Electric, Water & Wastewater)
 - Brandy Branch Administration Building, \$380K
 - Northside Generating Station Unit I Condenser Piping Replacement EPC, \$1.3M
 - Northside Generating Station Potable Water System, \$800K
 - Kennedy Generating Station Diesel Fuel Oil system installation, \$250K
 - Kennedy Generating Station Chemical Waste Treatment System demolition, \$400K
 - Kennedy Generating Station #6 Fuel Oil System demolition, \$300K
 - Kennedy Generating Station Waterfront Structures Demolition, \$420K

10/01/11 - 3/31/12

Construction, continued:

- Plant (Electric, Water & Wastewater)
 - Wellfield Construction per CUP Requirements:
 - Wells Abandonment, \$1.6M
 - Construction of Aquifer Monitoring Wells, \$4.2M
 - Installation of Wetlands Monitoring Wells, \$200K
- Substation/Transmission -
 - Duval to JAX Heights 230kV Circuit Addition, \$4.7M
 - Firestone Substation 200 MVA Autotransformer Addition, \$500K

10/01/11 - 3/31/12

Construction, continued:

- Grid (Water & Wastewater)
 - Royal Lakes Master Pump Station, \$1.1M
 - University Blvd.WM Replacement, \$400K
 - Normandy Blvd WM (Part I), \$300K
 - Royal Lakes Phase Out: JTB FM Replacement, \$500K
 - TWMP Segment I, \$3M
 - Lincoln Villas Service Area I connections, \$150K
 - Chilled Water Lines to JEA Tower & Customer Care Center, \$375K
 - North JAX FM Busch Dr. (Main St. to I-95), \$2M

What's in the queue for the remainder of FY2012?

04/01/12-9/31/12

Engineering:

- Plant (Electric, Water & Wastewater)
 - Downtown Plaza III Parking Garage Curtain Wall Replacement, \$60K
- Substation/Transmission
 - None
- Grid (Water & Wastewater)
 - None

04/01/12-9/31/12

Construction:

- Plant (Electric, Water & Wastewater)
 - Arlington East WWTP, UV Conversion, \$6.5M
 - Buckman Digesters I & 2 Cover Replacement, \$4M
 - Fairfax Water Treatment Plant Reservoir Rehabilitation, \$1.1M
 - Mandarin WRF Reclaimed Water High Service Pump Upgrade, \$1.2M
 - Arlington Water Treatment Plant Booster Pump Upgrade, \$1.8M
- Substation/Transmission
 - JAX Heights Substation Circuit 954 Addition, \$600K
 - Kennedy Substation T-14 Addition and T-12 Upgrade, \$1.2M

04/01/12-9/31/12

Construction, Continued:

- Grid (Water & Wastewater)
 - TWMP Segment 3, \$3.8M
 - TWMP Segment 4, \$3.0M
 - TWMP Segment 5, \$4.0M
 - TWMP Segment 6, \$2.3M
 - San Jose Phase-Out Force Main, \$400K
 - San Jose WM & FM Replacement, \$600K
 - Carder St. FM, \$700K
 - Melvin St.WM, \$500K
 - Pulaski Road FM, \$900K
 - Lincoln Villas Service Area 2, \$1.5M

FY' 12 Summary of Plant, Substation/Transmission & Grid - Electric, Water & Wastewater Work

October 2011 to March 2012:

Engineering: \$ 2,400,000

Construction: \$22,875,000

Total 1st half: \$25,275,000

April 2011 to October 2012:

Engineering: \$ 60,000

Construction: \$34,100,000

Total 2nd half: \$34,160,000

This Fiscal Year's total work is estimated at: \$59,435,000

Thank you for your continued interest and for calling the area directors and managers directly for the most current information. Their contact numbers are:

NAME	Position	Phone Number (all have 904-665 prefix)	Email Address (end in @JEA.com)
Edwin Dendor	Director of Plant & Facility Projects	6079	DENDEH
Margaret Limbaugh	Manager of Power Plant Projects	7334	LIMBMZ
Hai Vu	Manager of Water, Wastewater & Facility Projects	4028	VUHX
Don Cheatham	Manager of Greenland Energy Center Projects	8914	CHEADG
Dale Isley	Director of Substation & Transmission Projects	4715	ISLEDS
Vijay Burbure	Manager of Substation & Transmission Projects	6782	BURBVA
John Norse	Manager of Electric Grid Project Design	6074	NORSJW
Ken Talley	Manager of Electric Grid Project Construction	6092	TALLKM
Richard Rukab	Manager of Electric Protection Systems & Controls	4082	RUKARD
Robert Kermitz	Dir of Water & WW Grid, Joint & Development Projects	6318	KERMRJ
Chuck Bond	Manager of TWMP Projects	6196	BONDCH
Carole Smith	Manager of Development Projects	4461	SMITCF
Bradley Collier	Manager of Water & Sewer Grid Projects	6493	COLLBW2
Jim Connolly	Manager of Construction Support Services	6313	CONNJM
Pete Sheridan	Manager of Joint projects (COJ, FDOT, JTA, JPA, Adjacent Counties)	7409	SHERPJ
Ann Freudenthal	Manager of Project Support and Controls	7655	FREUCA
Charles Bayless	Manager of Project Support and Controls	6304	BAYLCB

Cost and Schedule Management

Charles Bayless, Manager Project Support & Controls Ann Freudenthal, Manager Project Support & Controls

ECS Project Controls

- Manager: Charles Bayless
- Main responsibilities
 - Capital project cost management
 - Project cost estimating

Project Cost Estimating

- Three full-time contract estimators
- Produce about 300 project estimates and revisions per year
- Aggregate value about \$700 million/year
- All "official" project estimates are produced inhouse
- Developing an Estimating Manual to define JEA requirements for estimates

ECS Project Support

- Manager: Ann Freudenthal
- Main responsibilities:
 - Project Accounting & Payables
 - Project Scheduling

JEA Project Update Form

PM required to update this form at least once every 30 days.

er Date 09/22/11					J	5	1						
Project Update Form for a FY12 Project													
<u> </u>	FP Name	24108	CPUL					Last Updated 10/13/11					
Index Number CP Number						Project Name							
100-26 DE100-26				0-26	N Jax FM - Pulaski to Main St								
Director:				R Kei	R Kermitz								
<u>Date</u> <u>Project Sta</u>			t Status:	Schemati	Schematic Design Previous Trend Nun				lumbers:	ımbers: 11-118			
Requested Co			<u>Funding</u>	Source:		Bond Proceeds Date Trend Received:			eceived:	:			
orecasted Co	<u>ompletion</u>		<u>PRF .</u> Original E	<u>Number:</u>		100-26 Trend Number:							
Dete	0,000			<u>Link to</u>	<u> W0's</u>	Work	<u>COrder</u>						
Related Open Work Orders						Project To Date G/L Data for All Work Orders Budget Encumbrance Actuals Funds Available							
11321012					<u>Budget</u> \$164,208			<u>Actuals</u> ,216 \$82,775			Funds Available \$19,217		
										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Forecast Updated By: Thomas H					Hamilton	Date:	10/13/2011						
FY12 Forecasted G/L Expenditures							FY12 Approved Exper		d Expend	litures	\$519		
Oct-11	<u>Nov-11</u>	<u>Dec-11</u>	<u>Jan-12</u>	Feb-12	<u>Mar-12</u>	Apr-12	May-12	Jun-12	<u>Jul-12</u>	<u>Aug-12</u>	Sep-12	12 Total	
\$59	\$98	\$83	\$87	\$1	\$60	\$67	\$60	\$70	\$173	\$316	\$323	\$1,397	
Actual G/L	Expendite	ures											
Oct-11	Nov-11	Dec-11	<u>Jan-12</u>	Feb-12	<u>Mar-12</u>	Apr-12	<u>May-12</u>	Jun-12	<u>Jul-12</u>	<u>Aug-12</u>	Sep-12	12 Total	
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
FY13 Fore	casted G/	L Expendi	tures										
Oct-12	<u>Nov-12</u>	Dec-12	<u>Jan-13</u>	Feb-13	<u>Mar-13</u>	Apr-13	<u>May-13</u>	<u>Jun-13</u>	<u>Jul-13</u>	<u>Aug-13</u>	Sep-13	13 Total	
\$150	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$290	

JEA Project Schedule PM required to update schedules at least once every 30 days.

Act ID		Activity Name	0.0	Start	Finish	Baseline T.F.	Cash Flow	Restoration	2011	2012
		Activity Name	0.0.	- Lunt		Target	Casimow	2010		NDJFMAMJJAS
	A1690	Prep & Apply Hor Coating	5d	18-Sep-11	23-Sep-11	-910	\$0		I P	rep & Apply Hor Coating
	A1680	Prep & Apply Vert Coating	5d	23-Sep-11	30-Sep-11	450	\$0		0 1	Prep & Apply Vert Coating
	A1700	Prep & Apply Traffic Coating	5d	30-Sep-11	07-Oct-11	450	\$0		0	Prep & Apply Traffic Coating
	A1710	Stripping	1d	07-Oct-11	08-Oct-11	670	\$0		1	Stripping
	Level 5 I	North and South	90d	06-Sep-11 A	15-Nov-11	400	\$0			
	A1720	Prep & Removal of Concrete	30d	06-Sep-11 A	07-Oct-11	-640	\$0			Prep & Removal of Concret
	A1730	Patch Concrete	10d	07-Oct-11	21-Oct-11	-64d	\$0		•	Patch Concrete
	A1740	Epoxy Injection Crack Repair	5d	14-Oct-11	21-Oct-11	-640	\$0			Epoxy Injection Crack Rep
	A1760	Prep & Apply Hor Coating	5d	21-Oct-11	28-Oct-11	-640	\$0			Prep & Apply Hor Coating
	A1750	Prep & Apply Vert Coating	5d	28-Oct-11	04-Nov-11	210	\$0			Prep & Apply Vert Coating
	A1770	Prep & Apply Traffic Coating	5d	04-Nov-11	14-Nov-11	210	\$0			Prep & Apply Traffic Coa
	A1780	Stripping	1d	14-Nov-11	15-Nov-11	210	\$0			Stripping
	Level 4 I	North & South	89d	28-Oct-11	05-Jan-12	-250	\$0			
	A1790	Prep & Removal of Concrete	15d	28-Oct-11	21-Nov-11	-640	\$0			Prep & Removal of Con
	A1800	Patch Concrete	15d	21-Nov-11	12-Dec-11	-660	\$0			Patch Concrete
	A1810	Epoxy Injection Crack Repair	5d	05-Dec-11	12-Dec-11	-660	\$0			■ Epoxy Injection Crack
	A1830	Prep & Apply Hor Coating	4d	12-Dec-11	16-Dec-11	-630	\$0			Prep & Apply Hor Coa
	A1820	Prep & Apply Vert Coating	5d	16-Dec-11	27-Dec-11	-100	\$0			Prep & Apply Vert Co
	A1840	Prep & Apply Traffic Coating	5d	27-Dec-11	04-Jan-12	-100	\$0			Prep & Apply Traffic
	A1850	Stripping	1d	04-Jan-12	05-Jan-12	-100	\$0			Stripping
	Level 3 I	North & South	90d	15-Dec-11	23-Feb-12	-850	\$0			
	A1860	Prep & Removal of Concrete	15d	15-Dec-11	10-Jan-12	-630	\$0			Prep & Removal of
	A1870	Patch Concrete	15d	10-Jan-12	31-Jan-12	-690	\$0			Patch Concrete
	A1880	Epoxy Injection Crack Repair	5d	24-Jan-12	31-Jan-12	-690	\$0			■ Epoxy Injection C
	A1900	Prep & Apply Hor Coating	5d	01-Feb-12	08-Feb-12	-690	\$0			Prep & Apply Ho
		Prep & Apply Vert Coating	5d	08-Feb-12	15-Feb-12	-470	\$0			■ Prep & Apply Ve
	A1910	Prep & Apply Traffic Coating	5d	15-Feb-12	22-Feb-12	-470	\$0			■ Prep & Apply Tr
	A1920	Stripping	1d	22-Feb-12	23-Feb-12	-470	\$0			I Stripping
	Level 2 I	North & South	48d	07-Feb-12	15-Mar-12	1027d	\$0			
	A1930	Prep & Removal of Concrete	5d	07-Feb-12	14-Feb-12	-690	\$0			Prep & Removal
	A1950	Epoxy Injection Crack Repair	5d	14-Feb-12	21-Feb-12	-690	\$0			■ Epoxy Injection
		Patch Concrete	5d	14-Feb-12	21-Feb-12	588d	\$0			Patch Concrete
	A1070	Pren & Apoly Hor Coating	Ed	21-Feb-12	28-Feb-12	-616	50			■ Prep & Apply H

Closing

- Next meeting scheduled on Wednesday, April 25, 2012
 - Will continue until no longer desired
 - Contact Jeanne Ryan with suggested topics (ryanje@jea.com)
- Contact information
 - Jon Eckenbach eckejp@jea.com 904-665-7895
 - Greg Perrine perrgl@jea.com 904-665-7952
- Questions???

Follow-up information from questions asked during the workshop

- The City of Jacksonville (COJ) intends to implement Septic Tank Phase-Out projects related to TMDL credits. JEA and the COJ have an agreement in place where JEA will handle the design and construction of septic tank related projects for the COJ. The projects will be selected by the COJ based on their criteria, handed off to JEA, designed via the JEA QPL process, construction bid and managed by JEA. JEA is currently working with the COJ and their Program Manager to develop an implementation schedule for the various types of projects that this program may include.
- The correct date for the next workshop is Wednesday, April 25, 2012.