

Engineering & Capital Projects Dept.



Project

**Metro Facilities Control
System Upgrade**

and

**Muni Facilities Control
System Upgrade**

REQUEST FOR COUNCIL ACTION CITY OF SAN DIEGO			CERTIFICATE NUMBER (FOR COMPTROLLER'S USE ONLY) 3000003976		
TO: CITY COUNCIL		FROM (ORIGINATING DEPARTMENT): ECP/Arch Eng and Parks		DATE: 10/21/2010	
SUBJECT: Metro Facilities Control System Upgrade and Muni Facilities Control System Upgrade (H105073)					
PRIMARY CONTACT (NAME, PHONE): Darren Greenhalgh,(619) 533-6600 MS 908A			SECONDARY CONTACT (NAME, PHONE): Hossein Azar, (619) 533-4102 MS 908A		
COMPLETE FOR ACCOUNTING PURPOSES					
FUND	700001				
DEPT / FUNCTIONAL AREA	OTHR-00000000-PR				
ORG / COST CENTER	2012111217				
OBJECT / GENERAL LEDGER ACCT	512160				
JOB / WBS OR INTERNAL ORDER	L10000.1.0601.02				
C.I.P./CAPITAL PROJECT No.	L-10000				
AMOUNT	\$3,738,710.00	0.00	0.00	0.00	0.00
FUND					
DEPT / FUNCTIONAL AREA					
ORG / COST CENTER					
OBJECT / GENERAL LEDGER ACCT					
JOB / WBS OR INTERNAL ORDER					
C.I.P./CAPITAL PROJECT No.					
AMOUNT	0.00	0.00	0.00	0.00	0.00
COST SUMMARY (IF APPLICABLE):					
Pt. Loma N. City PS64 & PQ		Fund 700001(Metro)		Fund 700000(Muni)	
Phase I FY11					
Contract - \$3,738,710 -					
Other - \$ 441,290 -					
Phase II FY13					
Contract - \$2,740,040 -					
Other - \$ 329,960 -					
Phase III FY14					
Contract - - \$1,626,093					
Other - - \$ 183,907					
Total Project: \$4,180,000 \$3,070,000 \$1,810,000					
ROUTING AND APPROVALS					
CONTRIBUTORS/REVIEWERS:		APPROVING AUTHORITY		APPROVAL SIGNATURE	DATE SIGNED
Liaison Office	Equal Opportunity Contracting	ORIG DEPT.	Heinrichs, Tony	1/20/2011	

Environmental Analysis		CFO		
Financial Management		DEPUTY CHIEF		
MWWD		COO		
Comptroller		CITY ATTORNEY		
		COUNCIL PRESIDENTS OFFICE		
PREPARATION OF:	<input checked="" type="checkbox"/> RESOLUTIONS	<input type="checkbox"/> ORDINANCE(S)	<input checked="" type="checkbox"/> AGREEMENT(S)	<input type="checkbox"/> DEED(S)
<p>1. Authorizing the Mayor, or his designee, to establish contract funding phases and award a phase funded contract to Emerson Process Management Power & Water Solutions for the design and construction of the Metro Facilities Control System Upgrade and the Muni Facilities Control System Upgrade, in an amount not to exceed \$8,104,843, and the Chief Financial Officer under the established contract funding phases to expend funds in amount not to exceed \$6,478,750 from CIP L-10000, Metro Facilities Control System Upgrade, Fund 700001, Sewer,(of which \$3,738,710 is for Ovation upgrade at Pt. Loma Wastewater Treatment Plant, L-10000.1 and \$2,740,040 is for Ovation Upgrade at North City Water Reclamation Plant, L-10000.2) and \$1,626,093 from CIP L-10001, Muni Facilities Control System Upgrade,Fund 700000, Sewer,(of which \$813,047 is for Ovation Upgrade at Peñasquitos Pump Station, L-10001.1 and \$813,046 is for Pump Station 64, L-10001.2) contingent upon the City Comptroller furnishing one or more certificates certifying that the funds necessary for expenditure, under the established contract funding phases are,or will be on deposit with the City Treasurer; and contingent upon the adoption of the Fiscal Year 2013 and Fiscal Year 2014 Annual Capital Improvement Program Budgets and Annual Appropriation Ordinances.</p> <p>2. Authorizing FY11 - Phase I of \$3,738,710, from Sewer Funds which is for design-build of Metro Facilities Control System Upgrade (Ovation Upgrade at Pt. Loma Wastewater Treatment Plant, L-10000.1.</p>				
<p>STAFF RECOMMENDATIONS: Adopt the Resolutions.</p>				
<p>SPECIAL CONDITIONS (REFER TO A.R. 3.20 FOR INFORMATION ON COMPLETING THIS SECTION)</p>				
COUNCIL DISTRICT(S):	One (1) - Lightner, Five (5) - DeMaio, Two (2) - Faulconer			
COMMUNITY AREA(S):	Torrey Hills, University, Sabre Springs, Peninsula			
ENVIRONMENTAL IMPACT:	This activity is categorically exempt from CEQA pursuant TO STATE CEQA GUIDELINES section 15301 - Existing Facilities.			
CITY CLERK INSTRUCTIONS:	Upon Council approval, please forward two (2) copies of the 1472 and Resolutions to Joanne Ferrer at Project Implementation and Technical Services Division, MS 908A and one (1) copy to Bob Barreras at Office of the Comptroller, MS 901A			

COUNCIL ACTION
EXECUTIVE SUMMARY SHEET
CITY OF SAN DIEGO

DATE: 10/21/2010

ORIGINATING DEPARTMENT: ECP/Arch Eng and Parks

SUBJECT: Metro Facilities Control System Upgrade and Muni Facilities Control System Upgrade (H105073)

COUNCIL DISTRICT(S): One (1) - Lightner, Five (5) - DeMaio, Two (2) - Faulconer

CONTACT/PHONE NUMBER: Darren Greenhalgh/(619) 533-6600 MS 908A

DESCRIPTIVE SUMMARY OF ITEM:

Authorize the Mayor, or his designee, to award a contract with Emerson Process Management Power & Water Solutions Inc. for the design and construction of the Metro Facilities Control System Upgrade and the Muni Facilities Control System Upgrade. The Project involves the Distributed Control System (DCS) upgrades at Point Loma Wastewater Treatment Plant, North City Water Reclamation Plant, Peñasquitos Pump Station and Pump Station 64. The existing control system at these facilities has reached the end of its life cycle of twelve years. The migration from the existing Westinghouse Distributed Process Family (WDPF) to Ovation will bring the existing control system to current industry standards.

STAFF RECOMMENDATION:

Adopt the Resolutions.

EXECUTIVE SUMMARY OF ITEM BACKGROUND:

Engineering & Capital Projects Department request approval to award a contract to Emerson Process Management for the Facilities Control System Upgrade at the Pt. Loma Wastewater Treatment Plant, North City Water Reclamation Plant, Pump Station 64 and Peñasquitos Pump Station. The existing control system at these Facilities is an Emerson Westinghouse Distributed Process Family (WDPF) Distributed Control System which has reached the end of its life cycle of about twelve years. Emerson will stop supporting the old WDPF technology in 2012. The WDPF to Ovation migration will bring the existing control system to current industry standards. The Metro and Muni Facilities will preserve the existing control strategies, graphics and wiring through this project. Since installation, the facilities have added more plant processes and numerous Capital Improvement Projects (CIP) which have used most of the spare capacity originally available. Future critical CIP projects must be incorporated and controlled by the DCS system. A decision to upgrade was reached after a business case evaluation (BCE) and discussions with an independent consultant, peer agencies and vendors. The original vendor (now known as Emerson) was selected to upgrade the hardware and software to the latest version because they are the only qualified vendor that has the knowledge and understanding of the existing custom system configurations. They are also well aware how any software, hardware or third party changes interact and impact the system. The control systems upgrade to Ovation at

the Metropolitan Biosolid Center (MBC) is in construction and is expected to be completed by April 2011.

FISCAL CONSIDERATIONS:

The total estimated cost of this project is \$9,060,000. Sewer enterprise funding of \$7,250,000 will be available in CIP L-10000, Metro Facilities Control System Upgrade, Fund 700001, and \$1,810,000 will be available in CIP

L-10001, Muni Facilities Control System Upgrade, Fund 700000, for this purpose. The total project cost of \$9,060,000 may be reimbursed approximately 80% by current or future debt financing. This project is scheduled to be phase funded over four (4) fiscal years from Fiscal Year 2011 to Fiscal Year 2014. Contingent upon the availability of funds, the City Comptroller will issue a Comptroller's Certificate for each phase of the project contingent upon approval of the future Fiscal Year Appropriation Ordinances.

EQUAL OPPORTUNITY CONTRACTING INFORMATION (IF APPLICABLE):

Funding Agency: City of San Diego

Goals: 15% Voluntary (MBE/WBE/DBE/DVBE/OBE)

Other: This Agreement is subject to the City's Equal Opportunity Contracting (San Diego Ordinance No. 18173, Sections 22.2701 through 22.2708) and Non-Discrimination in Contracting Ordinance (San Diego Municipal Code Sections 22.3501 through 22.3517).

Workforce Report Submitted: Staff will monitor plan and adherence to Nondiscrimination Ordinance.

PREVIOUS COUNCIL and/or COMMITTEE ACTION:

Metro TAC Committee has voted to approve the project on 10/20/2010. Metro Commission approved the project on 12/2/2010. The subject item will be presented to the Committee on Natural Resources and Culture prior to the Council docket date.

COMMUNITY PARTICIPATION AND PUBLIC OUTREACH EFFORTS:

Not Applicable

KEY STAKEHOLDERS AND PROJECTED IMPACTS:

The key stakeholders identified are the City of San Diego Public Utilities Department and Emerson Process Management Power & Water Solutions, Inc.

Heinrichs, Tony

Originating Department

Deputy Chief/Chief Operating Officer

PROJECT COST ESTIMATE BY FY

Metro Facilities Control System Upgrade (North City)
(Project Title)

Agmt. _____
Adv. _____
Award X

Prepared by: C. Dadachanji
Date: 21-Dec-10
WBS: L-10000.2

ACTIVITY

ACTIVITY	% OF E	Current	WBS L-10000.2		TOTALS	% OF E
			North City			
			FY13	TOTALS		
A. Planning/Design/Administration						
4114 512114 Preliminary Engineering	5.6%	0.00	172,958.00	172,958.00		
4115 512034 Outside Engineering - Tasks	0.7%	0.00	20,000.00	20,000.00		
4116 512114 Construction Engineering	4.5%	0.00	137,002.00	137,002.00		
4118 512034 Engineering Design	0.0%	0.00	0.00	0.00		
Total Planning/Design/Administration		0.00	329,960.00	329,960.00	329,960.00	10.7%
B. Construction						
4150 512059 Safety	0.0%	0.00		0.00		
4159 512026 Construction Management	0.0%	0.00		0.00		
4220 512025 Prime Construction Contract	89.3%	0.00	2,740,040.00	2,740,040.00		
4226 512116 City Forces Work	0.0%	0.00		0.00		
4810 512048 OCIP / Prof Liability / Bldrs Risk	0.0%	0.00		0.00		
4981 513006 SDDPC Support	0.0%	0.00	0.00	0.00		
Total Construction		0.00	2,740,040.00	2,740,040.00	2,740,040.00	89.3%
C. Equipment and Furnishings						
3316 511086 Pipe Fittings	0.0%	0.00	0.00	0.00		
4922 512236 Construction Related	0.0%	0.00		0.00		
Total Equipment and Furnishings		0.00		0.00	0.00	0.0%
D. Contingencies						
4905 512133 Contingencies	0.0%	0.00	0.00	0.00		
Total Contingencies		0.00	0.00	0.00	0.00	0.0%
E SUBTOTAL	100.0%	0.00	3,070,000.00	3,070,000.00	3,070,000.00	100.0%
F Equipment & Furnishings						
4922 512236 Equipment & Furnishings		0.00		0.00	0.00	
G Land Acquisition						
4638 512205 Land Acquisition		0.00		0.00	0.00	
TOTAL PROJECT		0.00	0.00	0.00	3,070,000.00	3,070,000.00

Prev. Auth. Res.	0.00
Prev. Auth. Res.	0.00
Prev. Auth. Res.	0.00
Total Previous Authorized	0.00
Surplus or Deficit	0.00

PROJECT COST ESTIMATE BY FY

Muni Facilities Control System Upgrade at Penasquitos Pump Station and Pump Station 64
(Project Title)

Agmt. _____
Adv. _____
Award X

Prepared by: C. Dadachanji
Date: 4-Jan-11
WBS: L-10001

ACTIVITY	% OF E	WBS L-10001 (L-10001.1 and L-10001.2)			TOTALS	% OF E
		Current	FY14	TOTALS		
A. Planning/Design/Administration						
4114 512114 Preliminary Engineering	5.1%	0.00	92,604.00	92,604.00		
4115 512034 Outside Engineering - Tasks	0.6%	0.00	10,000.00	10,000.00		
4116 512114 Construction Engli	4.5%		81,303.00	81,303.00		
4118 512034 Engineering Design	0.0%	0.00	0.00	0.00		
Total Planning/Design/Administration		0.00	183,907.00	183,907.00	183,907.00	10.2%
B. Construction						
4150 512059 Safety	0.0%	0.00		0.00		
4159 512026 Construction Management	0.0%	0.00		0.00		
4220 512025 Prime Construction Contract	89.8%		1,626,093.00	1,626,093.00		
4226 512116 City Forces Work	0.0%	0.00		0.00		
4810 512048 OCIP / Prof Liability / Bldrs Risk	0.0%	0.00		0.00		
4981 513006 SDDPC Support	0.0%		0.00	0.00		
Total Construction		0.00	1,626,093.00	1,626,093.00	1,626,093.00	89.8%
C. Equipment and Furnishings						
3316 511086 Pipe Fittings	0.0%	0.00		0.00		
4922 512236 Construction Related	0.0%	0.00		0.00	0.00	0.0%
Total Equipment and Furnishings						
D. Contingencies						
4905 512133 Contingencies	0.0%	0.00	0.00	0.00		
Total Contingencies		0.00	0.00	0.00	0.00	0.0%
E SUBTOTAL	100.0%	0.00	1,810,000.00	1,810,000.00	1,810,000.00	100.0%
F Equipment & Furnishings						
4922 512236 Equipment & Furnishings		0.00		0.00	0.00	
G Land Aquisition						
4638 512205 Land Acquisition		0.00		0.00	0.00	
TOTAL PROJECT		0.00	1,810,000.00	1,810,000.00	1,810,000.00	

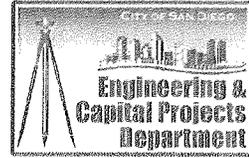
Prev. Auth. Res. #	0.00
Prev. Auth. Res. #	0.00
Prev. Auth. Res. #	0.00
Total Previous Authorized	0.00
Surplus or Deficit	0.00

Metropolitan Facilities Control Upgrade Project

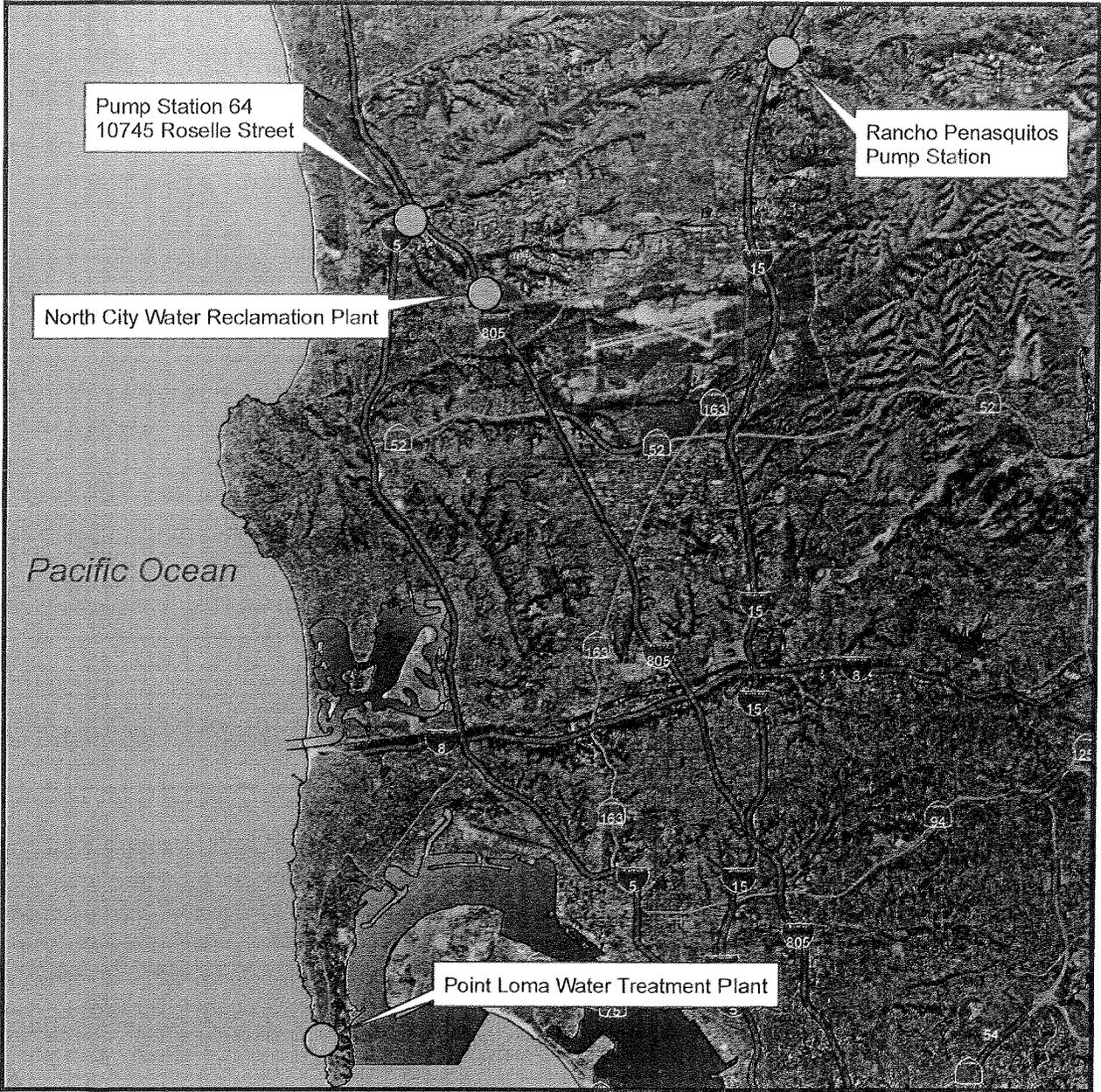
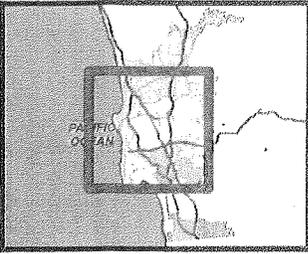
SENIOR ENGINEER
Hossein Azar
619-533-4102

PROJECT MANAGER
Chisti Dadachanji
619-533-4648

PROJECT ENGINEER
Filemon Sevilla
619-533-5196



Architectural Engineering & Parks

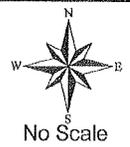


Legend

Project Location

COMMUNITY NAME:
MIRAMAR RANCH NORTH,
TORREY PINES,
UNIVERSITY,
PENINSULA

COUNCIL DISTRICT:
5
1
5
2



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DOCKET SUPPORTING INFORMATION
CITY OF SAN DIEGO
EQUAL OPPORTUNITY CONTRACTING PROGRAM EVALUATION

DATE:
February 23, 2011

SUBJECT: Metro Facilities Control System Upgrade and Muni Facilities Control System Upgrade (H105073)

GENERAL CONTRACTOR INFORMATION

Recommended Consultant: Emerson Process Management Power & Water Solutions, Inc. (Non-Certified)

Amount of this Action: \$ 9,060,000.

Base Contract Amount:	\$ 7,200,550.
Additional Services:	\$ 360,027.
Allowances:	\$ 544,266.
City Cost:	<u>\$ 955,157.</u>
Total Project Cumulative Cost:	\$ 9,060,000.

Funding Source: City / CIP

Goals: 15.00% Voluntary

SUBCONTRACTOR PARTICIPATION

	<u>This action</u>	<u>Percent*</u>
Atlas Integrated Systems Inc (Non- Certified)	\$ 349,505.	4.31%
Avoca Technical Services (Non- Certified)	<u>\$ 525,000.</u>	<u>6.48%</u>
Credited Certified Participation:	\$ 00.	0.00%
Credited Non-Certified Participation:	\$ 874,505.	10.79%
Total Credited Sub Participation:	\$ 874,505.	10.79%

*(based on \$8,104,843.)

EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE

Equal Opportunity: Required

Emerson Process Management Power And Water Solutions Inc submitted a Work Force Report for their San Diego employees dated, October 20, 2010, indicating a total of 19 employees in their Work Force. The Administrative Work Force indicates under representation in the following categories;

Hispanic, Filipino, and Female in A & E, Science, Computer

An approved EO Plan dated February 19, 2011 is on file. EOC staff will continue to monitor the firm's effort to implement their plans.

This agreement is subject to the City's Equal Opportunity Contracting (San Diego Ordinance No. 18173, Section 22.2701 through 22.2708) and Non-Discrimination in Contracting Ordinance (San Diego Municipal Code Sections 22.3501 through 22.3517).

ADDITIONAL COMMENTS

RW

This is how it looks on the computer

Cost Summary
(if applicable)

Fund 7000001 (Neuro) Fund 7000003 (Hum) Fund 7000004 (PQ)

Pr. Joma N. City

	Fund 7000001 (Neuro)	Fund 7000003 (Hum)	Fund 7000004 (PQ)
Phase I FY13	53,738,710	-	-
Contract	-	-	-
Other	53,738,710	-	-
Phase II FY13	-	52,740,043	-
Contract	-	52,740,043	-
Other	-	-	-
Phase III FY14	-	-	51,628,033
Contract	-	-	51,628,033
Other	-	-	-
Total Project:	\$1,150,000	\$3,070,000	\$1,810,000

Council Approval of:

Done

of Project:

Management:

Done

100%

Local Intranet

100%