



March 6, 2019

ADDENDUM NO. 2 TO SPECIFICATION NO. 1360S
MV/SJV/TV RWRF Blower Electrification

This addendum to the specifications is for the purpose of adding, clarifying, or deleting certain information to the construction drawings and project specifications as follows:

BIDDING SHEETS

ADD the following bid items:

<u>Bid Item</u>	<u>Qty</u>	<u>Unit</u>	<u>Description</u> <u>(Unit Price Written in Words)</u>	<u>Unit Price</u> <u>(Figures)</u>	<u>Total Amount</u> <u>(Figures)</u>
9	1	LS	Expand and modify controls associated with the medium voltage main switch gear/generator paralleling switchgear and control systems at SJVRWRF. (Refer to Appendix M for details)		
			<u>Two Hundred and Ninety-Five Thousand</u>		
			<u>Eight Hundred and Ninety-Five Dollars</u> (words)	PRESET	\$ <u>295,895</u>
10	1	LS	Provide one diesel generator at TVRWRF. (Refer to Appendix N for details)		
			<u>Six Hundred and Seventy-Four Thousand</u>		
			<u>Eight Hundred and Seventy-One Dollars</u> (words)	PRESET	\$ <u>674,871</u>

11 1 LS Provide one diesel generator at SJVRWRF. (Refer to Appendix O for details)

Four Hundred and Eighty-Six Thousand

Eight Hundred and Seventeen Dollars

(words)

PRESET \$ **486,817**

12 1 LS Provide one temporary boiler at TVRWRF.

Lump

Sum

\$

(words)

THE BIDDING SHEETS HAVE BEEN UPDATED AND ARE INCLUDED IN THE REVISED PROPOSAL PACKAGED MADE A PART OF THIS ADDENDUM. FAILURE TO SUBMIT THE REVISED PROPOSAL PACKAGE "MAY" DEEM YOUR BID NON-RESPONSIVE

SPECIAL CONDITIONS

SC-13. Or Equal Substitutions.

REVISE the following table of specification sections lists approved manufacturers and no equals as follows:

Section	Application	Manufacturer/Provider
11183-11185	Blower Startup and Support Services	APG-Neuros, Inc.
16620	Packaged Engine Generator Systems	MTU
16346	Medium Voltage Vacuum Circuit Breaker Switchgear – 15kV	General Electric/ABB

16426	Relays, Power Quality Meters, and Automatic Transfer Controls	Schweitzer Engineering Laboratories
17000	Process Control and Integration Service	Beavens and Associates, South Coast, and TriMax

SC-44. Cost of Owner Supplied Items.

Change SC-44 title as follows:

SC-44. Owner Supplied Items.

SC-45. Cost of Pre-negotiated Items.

Change SC-45 title as follows:

SC-45. Pre-negotiated Items.

SC-50. Process Control and Integration Service.

Replace SC-50 in its entirety with the following:

The Contractor shall include the service of process control and integration as identified in Section 17000 and 17950. The Contractor shall be limited to the following pre-qualified providers to obtain the service:

- 1) Beavens and Associates, Torrance, CA.
- 2) South Coast Control, Anaheim, CA
- 3) TriMax Systems Inc. Brea, CA
- 4) No "or-equals"

This restriction does not apply to integration services associated with programming of the power distribution system. Refer to Specification Section 16426 for requirements associated with the closed transition system at TVRWRF. Refer to Specification Section 16346 and Appendix M for requirements associated with the paralleling switchgear at SJRWRF.

ADD the following Special Conditions:

SC-51. Pre-negotiated SJVRWRF Paralleling Switchgear Modifications. The District pre-negotiated the price and scope of service for Paralleling Switchgear Modifications and New Generator Integration at SJVRWRF by ABB/GE Zenith Controls, Inc. The cost for the scope of work is preset as in the Bidding Sheet and Schedule of Values. A proposal for the SJVRWRF Paralleling Switchgear Modifications is included in Appendix M. The Contractor shall use ABB/GE Zenith Controls, Inc. to perform the work proposed by them and complete the work as shown on the plans and specifications.

SC-52. Pre-negotiated TVRWRF Generator. The District pre-negotiated the price for a new generator at TVRWRF by MTU/Collicutt Energy. The cost for the generator is preset as in the Bidding Sheet and Schedule of Values. 7.75% sale tax is included in the preset price. A proposal for the TVRWRF generator is included in Appendix N. The Contractor shall use MTU/Collicutt Energy to perform the work proposed by them and complete the work as shown on the plans and specifications.

SC-53. Pre-negotiated SJVRWRF Generator. The District pre-negotiated the price for a new generator at SJVRWRF by MTU/Collicutt Energy. The cost for the generator is preset as in the Bidding Sheet and Schedule of Values. 7.75% sale tax is included in the preset price. A proposal for the SJVRWRF generator is included in Appendix O. The Contractor shall use MTU/Collicutt Energy to perform the work proposed by them and complete the work as shown on the plans and specifications.

SC-54. TVRWRF Closed Transition System Modifications. The Contractor shall provide all services, materials, and equipment required to integrate the new switchboard MSB-5 and new generator GEN-5 into the existing plant wide closed transition control system as specified in Section 16426. The existing system is comprised of Schweitzer Engineering Laboratory (SEL) relays and controls and all new relays, power quality meters, and controls shall be SEL to match existing. The Contractor shall provide updated operation and maintenance manuals to include all modifications and additions to the existing system. The updated operation and maintenance manuals shall include information on the entire system, existing and new equipment.

SC-55. Salvaged Engine Coordination. The Contractor shall salvage the engines and related components as described in 02050 from the blowers at TVRWRF and deliver following items to the District OMC located at 2270 Trumble Rd, Perris, CA 92570.

1. Engines
2. Engine control panels
3. Woodward E3 fuel blending units

SECTION 1026 – SCHEDULE OF VALUES

REPLACE Schedule of values in its entirety.

SECTION 11184 – SINGLE CORE HIGH SPEED DIRECT-DRIVE CENTRIFUGAL BLOWER PACKAGES

11184-3: Update 1.03.A to say “8. The blower manufacturer shall integrate the new blower at SJVRWRF with the existing MCP.” and “9. The blower manufacturer shall integrate the relocated blower and existing blowers at MVRWRF with the new MCP.”

11184-17: Update 2.13.A to say “The blower manufacturer shall replace the existing MVRWF MCP...” instead of “upgrade the existing”.

SECTION 16346 – MEDIUM VOLTAGE VACUUM CIRCUIT BREAKER SWITCHGEAT-15KV

DELETE ABB proposal in its entirety from this section and *CHANGE* references from ABB scope of work “attached to this specification” to “attached to the Appendix”.

SECTION 16426 – LOW VOLTAGE SWITCHBOARDS

16426-1: 1.01, A, c – *ADD* the following sentence to the end of the paragraph “Modifications to the existing control system shall include, but not be limited to, modification or creation of up to three (3) HMI screens.”

16426-1: 1.01, A – *ADD* the following:

“e. All programming of the automatic transfer controls, existing and new, and all programing and modifications to the existing RTAC controller shall be by ESS Matron or approved equal.”

SECTION 16620 – PACKAGED ENGINE GENERATOR SYSTEM

DELETE MTU/Collicutt Energy proposal in its entirety from this section and *CHANGE* references from quotes “attached to this specification” to “attached to the Appendix”.

REPLACE all references to “Rypos active diesel particulate filter” with “passive diesel particulate filter”.

DRAWING MVRWRF 15E01

Add the following as Note 3:

“3. EXISTING MASTER BLOWER CONTROL PANEL MCP-24.7400 SHALL BE REPLACED IN ITS EXISTING LOCATION. EMWD SHALL PROVIDE NEW CONTROL PANEL AS DEFINED IN THE APG NEUROS BLOWER SCOPE OF SUPPLY. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING MASTER CONTROL PANEL AND INSTALLATION OF THE NEW PANEL.”

MODIFICATIONS TO APPENDICES

APPENDIX A – APG Neuros Blower Scope of Supply

REPLACE Appendix A, in its entirety.

APPENDIX B – APG Neuros Blower Submittal

REPLACE APG Neuros Blower Submittal for MVRWRF in its entirety.

APPENDIX C – APG Neuros Blower Technical Support

REPLACE Appendix C, in its entirety.

APPENDIX E – Electrical Hazard Assessment proposal for MVRWRF, SJVRWRF and TVRWRF

ADD PES proposal for TVRWRF to Appendix E.

ADD THE FOLLOWING APPENDICES

APPENDIX M – SJVRWRF ABB Scope of Supply

APPENDIX N – TVRWRF MTU Scope of Supply

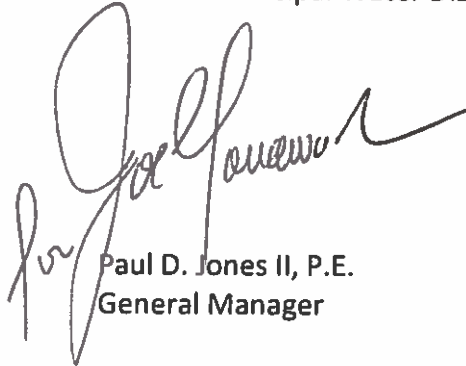
APPENDIX O – SJVRWRF MTU Scope of Supply

MANDATORY PRE BID WALK THROUGH

A mandatory pre-bid walk-through meeting was conducted on 02/19/2019 at 9:00 a.m.

NOTE: Refer to EMWDs website to obtain the Pre Bid Walk-Through Sign-In Sheet.

Eastern Municipal Water District



Paul D. Jones II, P.E.
General Manager

PE: al
PM: ES
DFE: B&M
DE: M&S

PDJ:SL:sf:ae

ATTACHMENTS:

- Proposal Package
- Schedule of Values Sample
- APPENDIX A – APG Neuros Blower Scope of Supply
- APPENDIX B – Revised APG Neuros Blower Submittal for MVRWRF
- APPENDIX C – APG Neuros Blower Technical Support
- APPENDIX E – PES Proposal for TVRWRF
- APPENDIX M – SJVRWRF ABB Scope of Supply
- APPENDIX N – TVRWRF MTU Scope of Supply
- APPENDIX O – SJVRWRF MTU Scope of Supply