CITY OF SARASOTA, FLORIDA

APPENDIX A-4

ELECTRICAL, INSTRUMENTATION, AND CONTROLS APPROVED MATERIAL LIST

PLEASE TYPE OR PRINT CLEARLY IN BLACK INK

Project Name:	
	Work Assignment Number:
Contractor's Name:	
Contractor's Address:	
Contractor's Signature:	
For	City Use Only
(Refer to Se	ction 01300 – Submittals)
Engineer:	Date:
Reviewed, No Comments:	
Reviewed, Comments as Noted:	
Reviewed, Comments Attached – Resubmit:	_
Rejected, Revise and Re-submit, Comments Attache	ed:
Not Reviewed:	
City Project Manager:	Date:
Comments:	

ELECTRICAL, INSTRUMENTATION, AND CONTROLS APPROVED MATERIAL LIST

With the submission of this document, the CONTRACTOR understands that the use of the following selected items, as individually indicated using an "X", is mandatory. The materials included in this list are approved for portable water service only.

Recommendations for Approved Alternates, using other items that are not contained within this Checklist, shall be initiated, and submitted by the CONTRACTOR, in accordance with Section 00800-General Provisions, to the CITY and the ENGINEER for review and approval at least ten (10) calendar days in advance of need.

It is also understood by the CONTRACTOR that the CITY and the ENGINEER shall reject materials and products not in accordance with this Specifications and this Checklist.

Shop drawings shall be required for all structures and similar items not contained on this checklist, such as manholes, wet wells, and other castings.

Four (4) sets of the CONTRACTOR's and the ENGINEER's executed APPROVED MATERIALS CHECKLIST and any necessary shop drawings shall be submitted to the CITY and the ENGINEER for its use and approval, plus the number of sets needed for the CONTRACTOR's use.

Ordering material and products without specific written approval from the CITY of the submitted list and shop drawings is NOT recommended and is done at the CONTRACTOR's sole expense and responsibility.

NOTE: The latest changes approved by the CITY are indicated by "underlining" and deleted items by "strikethroughs".

American Iron and Steel, Buy American Act, or any procurement requirements identified in the contract documents shall take precedence over the materials listed in this checklist.

CONTENTS

Section 1: Electrical Equipment

Section 2: Field Instruments

Section 3: Analyzers

Section 4: Control Systems

Section 5: Networking

Section 6: Electrical Distribution

ELECTRICAL, INSTRUMENTATION, AND CONTROLS APPROVED MATERIAL LIST

SECTION 1: ELECTRICAL EQUIPMENT

Electric Valve Actuators:

Manufacturer Part Number Comments

Beck

Low Voltage Soft Starters:

Manufacturer Part Number Comments

Allen Bradley SMC-Flex

Variable Frequency Drives:

Manufacturer Part Number Comments

Yaskawa IQ P1000

Pump Motors:

Manufacturer Part Number Comments

Nidec

Marathon Electric

USA Franklin

Automatic Transfer Switch:

Manufacturer Part Number Comments

Schneider Electric ASCO Series 7000

Emergency Backup Generators:

Manufacturer Part Number Comments

Caterpillar

SECTION 2: FIELD INSTRUMENTS

Magnetic Flow Meter:

Manufacturer Part Number Comments

Yokogawa ADMAG TI Series

ELECTRICAL, INSTRUMENTATION, AND CONTROLS APPROVED MATERIAL LIST

Pressure Transmitter:

Manufacturer Part Number Comments

Yokogawa DPharp EJA Series

Pressure Gauge:

Manufacturer Part Number Comments

Ashcroft Model 1279 or 1009 Oil filled, Inc. Diaphragm Seal

Level Transmitter:

Manufacturer Part Number Comments

Vega Vegapuls C21

Float Switch:

Manufacturer Part Number Comments

Kari

SECTION 3: ANALYZERS

Chlorine Residual:

Manufacturer Part Number Comments

Hach CL17

SECTION 4: CONTROL SYSTEMS

Program logic Controller:

Manufacturer Part Number Comments

Allen Bradley CompactLogix

Operator Interface Terminal:

Manufacturer Part Number Comments

Pro-Face GP4100 Series
Allen Bradley Panel View

ELECTRICAL, INSTRUMENTATION, AND CONTROLS APPROVED MATERIAL LIST

Uninterruptible Power Supply:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Eaton APC

Programmable Automation Controller:

Manufacturer Part Number Comments

Schweitzer Engineering Laboratories SEL-2411

Protective Relays:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Schweitzer Engineering Laboratories SEL-787 Series

Motor Management Relays:

Manufacturer Part Number Comments

Schweitzer Engineering Laboratories SEL-849 Series

Annunciator:

Manufacturer Part Number Comments

Schweitzer Engineering Laboratories SEL-2533 Series

Surge Protection:

Manufacturer Part Number Comments

Citel

Phoenix Contact

SCADA Software:

Manufacturer Part Number Comments

Trihedral VT-SCADA

SECTION 5: NETWORKING

Ethernet Switch:

Manufacturer Part Number Comments

Antaira End Point Switch

ELECTRICAL, INSTRUMENTATION, AND CONTROLS APPROVED MATERIAL LIST

Ethernet Switch (Continued):

Manufacturer **Part Number** Comments

Cisco Network Backbone Axis Security Network

Fiber Optic Cable:

Manufacturer **Part Number** Comments

Corning Bend Insensitive Cable

SECTION 6: ELECTRICAL DISTRIBUTION

Enclosures:

Manufacturer **Part Number Comments**

Hoffman NEMA 4 White Powder Coat Rittal **NEMA 4 White Powder Coat NEMA 4 White Powder Coat** Saginaw

Junction / Pull Boxes:

Manufacturer **Part Number** Comments

Hoffman Enclosures

Appleton Electric (Emerson) Arrow-Hart (Crouse-Hinds) Bell Electric (Square D) Keystone Columbia Inc.

OZ/Gendy Co.

Spring City Electrical MFG Co.

Medium Voltage Switchgear:

Manufacturer Part Number Comments

Square D

Metal Enclosed Load Interrupter Switchgear:

Manufacturer **Part Number** Comments

Square D HVL/CC

ELECTRICAL, INSTRUMENTATION, AND CONTROLS APPROVED MATERIAL LIST

Panelboards:

Manufacturer Part Number Comments

Cutler-Hammer General Electric Co.

Square D Siemens

Exterior Lighting Fixtures:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Cooper RAB

Hubbell Inc. Lithona

Transformers:

Manufacturer Part Number Comments

Square D

Cooper/Bussman (Eaton)

Surge Suppression:

Manufacturer Part Number Comments

Leviton

Advanced Protection Technology

Edco Company

Joslyn Mfg. Supply Co.

ASCO

Circuit and Motor Disconnections:

Manufacturer Part Number Comments

Square D

Cutler-Hammer

General Electric Co.

Siemens

Generator Connection:

Manufacturer Part Number Comments

Hubbell

ELECTRICAL, INSTRUMENTATION, AND CONTROLS APPROVED MATERIAL LIST

Outlet Boxes:

Manufacturer Part Number **Comments**

Appleton Electric (Emerson) Arrow-Hart (Crouse-Hinds) Bell Electric (Square D) Eagle Electric MFG Co. OZ/Gendy Co. Pass & Seymour RAVO Div; Harvey Hubbell, Inc.

Thomas Betts Co.

Receptacles:

Manufacturer **Part Number Comments**

Leviton 5362-1 Type Duplex

GFIs:

Manufacturer **Part Number Comments**

Leviton No. 6898-1

Snap Switches:

Manufacturer **Part Number Comments**

Leviton