DEPARTMENT OF INTERIOR
U.S. Bureau of Reclamation
Buy America Nonavailability Project Level Waiver
Columbia Basin Project: SCADA System

1. Summary

Agency: Department of the Interior, Bureau of Reclamation (USBR)

Proposed Waiver: USBR is proposing a product nonavailability waiver of the requirements of section 70914 of the Build America, Buy America Act included in the Infrastructure Investment and Jobs Act (Pub. L. No. 117-58) for the use of non-domestic servers, storage, networking equipment, radio equipment, Programmable Logic Controllers (PLCs) and related components, and propane generators for the modernization of the Columbia Basin Project (CBP) Supervisory Control and Data Acquisition (SCADA) system funded through the South Columbia Basin Irrigation District. This waiver is in effect for the duration of the project.

Waiver type: Nonavailability of domestic products of satisfactory quantity or quality.

Waiver level: Project level waiver.

Waiver justification summary: Electronic equipment and other manufactured products required for this project are not produced in the United States in sufficient and reasonably available quantities or of satisfactory quality.

Length of the waiver: From the effective date of the final waiver until the end of the project. Construction is planned from 2026 through 2030.

Summary of items covered: Servers, storage, and network devices; communications equipment, Programmable Logic Controllers (PLC) and related components, and propane generators.

Summary of Project: The existing CBP SCADA system is over 30 years old and in need of replacement. The system spans across over 180 individual sites and allows for operations and monitoring of hundreds of miles of large canals and laterals as well as monitoring capability of approximately 60 pumping plant sites. Altogether, the CBP SCADA system facilitates irrigation district operation of facilities that deliver approximately 3.5-million-acre-feet of water annually to approximately 690,000 irrigated acres. The need for CBP SCADA modernization was highlighted by internal and external audits that culminated in over 40 Plans of Action and Milestones (audit findings). The main aspects driving the need for modernization are: Information Technology (IT) security requirements that are difficult and/or impossible to effectively achieve in the current outdated SCADA configuration; system components that are no longer supported and that have no commercially available replacement parts; the inability of the existing system configuration to support expansion of sites and enhancement of capabilities such as remote operation of pumping plants; and the need to establish a clear lifecycle maintenance/replacement schedule that will alleviate future

unsupported system component issues. Additionally, the CBP SCADA system requires remote access to promote effective and efficient operation of the CBP. This remote access scenario only occurs in a couple known examples across USBR.

2. Background

The Buy America Preference set forth in section 70914 of the Build America, Buy America Act included in the Infrastructure Investment and Jobs Act (Pub. L. No. 117-58), requires all iron, steel, manufactured products, and construction materials used for infrastructure projects under Federal financial assistance awards be produced in the United States.

Under section 70914(b), the Department of the Interior may waive the application of the Buy America Preference, in any case in which it finds that: applying the domestic content procurement preference would be inconsistent with the public interest; types of iron, steel, manufactured products, or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality; or the inclusion of iron, steel, manufactured products, or construction materials produced in the United States will increase the cost of the overall project by more than 25 percent. All waivers must have a written explanation for the proposed determination; provide a period of not less than 15 calendar days for public comment on the proposed waiver; and submit the proposed waiver to the Office of Management and Budget Made in America Office for review to determine if the waiver is consistent with policy.

For more information on the Build America, Buy America Preference, please reference www.doi.gov/grants/buyamerica or MadeinAmerica.gov.

3. Description of Award

Title of project: Columbia Basin Project Supervisory Control and Data Acquisition

Recipient name: South Columbia Basin Irrigation District (SCBID)

Unique Entity Identifier (UEI): UEI: NJ98FLYNYYT3

Federal Award Identification Number (FAIN): R25AC00532

Federal Financial Assistance Listing: 15.581 – Water Resources Development Act

Federal financial assistance funding amount (if applicable): $7,000,000.00

Total cost of infrastructure expenditures, including all Federal and non-Federal funds (to the extent known): $17,084,358.00

Infrastructure project description and location: This project would provide a complete end-to-end replacement of almost all components of the existing Supervisory Control and Data Acquisition (SCADA) system. The components of the current system are no longer commercially available. This new modernized system would support expansion, enhance current capabilities, and alleviate future unsupported system component issues.

Located in the Columbia Basin of Washington state, the CBP is the largest USBR water project in the United States with a yearly irrigated crop value of $2.66B. This modernized system would enable USBR and the recipient to continue providing uninterrupted water operations into the foreseeable future.

4. Description of Covered Items

Manufactured products: This waiver seeks an exemption from Buy America requirements for the following items.

- **Server Hardware**
  NAICS: 334111 – Electronic Computer Manufacturing
  PSC: 7B22 – IT and Telecom - Compute: Servers
- **Storage Devices**
  NAICS: 334112 – Computer Storage Device Manufacturing
  PSC: 7K20 – IT and Telecom – Storage Products
- **Network Devices**
  NAICS: 334118 – Computer Terminal and Other Computer Peripheral Equipment Manufacturing
  PSC: 7C20 – IT and Telecom – Data Center Products
- **Communications Equipment, including Antennas and Microwave Radio**
  NAICS: 334220 – Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
  PSC: 7G22 – IT and Telecom – Network: Satellite and RF Communications Products
- **PLCs, Power Supplies, and Related Components**
  NAICS: 335314 - Relay and Industrial Control Manufacturing
  PSC: 6110 – Electrical Control Equipment
- **Generators**
  NAICS: 335312 – Motor and Generator Manufacturing
  PSC: 6115 – Generators and Generator Sets, Electrical

5. Waiver Justification

Anticipated impact if no waiver is issued:

The electronics and other hardware mentioned above are integral to completing the project. The server, storage, and networking devices provide centralized control with the PLC hardware providing local control of the remote sites. The communications equipment and other listed hardware support the centralized control to the remote sites. No significant quantity or quality of these products are produced in the United States. If a waiver is not approved, the project cannot move forward.

Assessment of Cost Advantage of a Foreign-Sourced Product:

All products were chosen for functionality and effectiveness, not cost savings. DOI's analysis has concluded that this assessment is not applicable to this waiver as this waiver is not based on the cost of foreign-sourced products.

Description of efforts made to identify domestic products:

The SCADA system design consultant and project management staff performed market research for this project directly through outreach to manufacturers or their distributors. The system designs and specifications produced by design consultants provided the basis for the manufactured products needed. Four months of extensive research was conducted to identify any available US made components.

Major server manufacturers and distributors were contacted for the class of server needed for the system. Out of five manufacturers, no server hardware was found to be compliant. These manufacturers all reported that their products are being made in Mexico.

Manufacturers contacted for storage devices were the same as the server hardware. The storage controllers used need to be compatible with the servers with no mixing of brands. As such, no US manufactured storage devices were found.

Research done on the networking device manufacturers found that not all brands would be able to meet design specifications. Only three manufacturers were identified to make switches, routers, and firewalls that meet the specifications of this project. All their products were confirmed to be made in Mexico or Asia.

During project design, only one microwave manufacturer was identified as meeting the specifications. This equipment is integral to the communications backbone that connects the server to the remote sites. The SIAE microwave radio and antennas are made in Italy.

Programmable controllers (PLC's) are an important part of the project. They collect data and control operational equipment at the remote sites. Extensive comparison of PLC's was considered during design, including device class, industrial use, programming language, native protocols, and support libraries. The Siemens S7 PLC was selected for the project due to its deployment in water applications, native features of MQTT, PID control, and field testing. The S7 is not manufactured in the US and the nine other PLCs investigated did not meet specifications. Likewise, no electronic power supplies were found to be manufactured in the United States. For each power supply class, 2-3 manufacturers were contacted and there was either no response, or the item was made outside the US. Related components consist of smaller electrical hardware used to support the electronics, such as relays, terminal blocks, etc. Research did not find compliant components.

There are two power classes of generators used for the project, 25kW and 35kW. Market research found one compliant generator in the 35kW class. Manufacturer response has been slow with no 25kW compliant generator being found.

Expectations at the conclusion of the waiver:

Through ongoing market research DOI will seek to identify opportunities for domestic sourcing of electronic components for use within other projects going forward. This waiver will allow the recipient to proceed with the materials necessary to complete the project as designed. USBR will continue to work with future recipients to evaluate possible domestic sources of supply for upcoming or new projects to achieve compliance going forward.

6. Summary of Comments

Proposed Waiver: This notice posted on April 27, 2026, satisfies the requirement to publish any proposed Buy America waiver and provide the public with a reasonable period of time for notice and comment. The Department of the Interior seeks public and industry comment from all interested parties. In particular, the Department of the Interior seeks comment regarding availability of BABA compliant products outlined in this waiver and Attachment 1. Relevant information and comments will help to understand completely the facts surrounding the waiver requests and the agency's proposal. This notice will be closed for comments on May 12, 2026. Comments can be sent to DOI_Grants_BuyAmerica_Waiver@ios.doi.gov. Please reference the associated project title in the subject line of the email. Comments received prior to the public comment closing date will be reviewed and considered by DOI.

Attachment 1

Server Hardware

NAICS: 334111 – Electronic Computer Manufacturing

Specifications: Multicore servers capable of running 96 virtual machines per server, comparable to HPE Proliant DL380 Gen11.

Description
2X 1200W PLAT FIO PS KIT
GEN11 8SFF NC CTO SVR
4516Y+ 2.2GHZ 24-CORE 185W PROCESSOR FOR DL380 SERVERS
6426Y 2.5GHz 16core 185W Processor
(1x64GB) Smart Memory Kit
96GB (1x96GB) Smart Memory Kit
x8/x16/x8 Secondary Riser Kit
PLG BOOT DRIVE OPT DEV
SUPPLY CHAIN FOR SERVER COMPUTERS
CABLE KIT
HIGH PERFORMANCE FAN KIT
COM BEZEL KIT
REAR SERIAL CBL KIT
CABLE MANAGEMENT ARM FOR RAIL KIT
INTERNAL CABLE KIT
HIGH PERFORMANCE HEAT SINK KIT
CPU2 TO OCP2 X8 ENABLEMENT KIT
EASY INSTALL RAIL 3 KIT
Ethernet 10Gb 2port BASET Adapter
1600W FS PLAT HT PLG LH PS KIT
MICROSERVER CTO
2.7GHZ – TOTAL THREADS: 16 - FCLGA1700 - 24MB – SERVER 128GB RAM
ETHERNET 10GB 2PORT SFP+ ADAPTER
POWEREDGE SERVERS
THINKSYSTEM SERVERS
UCS 220 SERVERS
78.5" X 23.63" X 43" 42U STANDARD-DEPTH RACK ENCLOSURE CABINET WITH DOORS AND SIDE PANELS
24-PORT 1U RACK-MOUNT CAT6/CAT5 110 PATCH PANEL
SMART RACK HEAVY DUTY FIXED SHELF, 250 LBS CAPACITY
VERTICAL CABLE MANAGER

Specifications: Micro servers comparable to HPE Proliant MicroServer Gen 11.

MICROSEVER 330W EXT POWER ADAPTER

Specifications: Industrial PCs comparable to OnLogic ML100G-42 are also required.

INDUSTRIAL PC, FANLESS, AMD RYZEN 8000, 32GB MEMORY (TANSCEND DDR5-5600 16GB x2), 1 TB STORAGE, WINDOWS 10 IoT

Storage Devices

NAICS: 334112 – Computer Storage Device Manufacturing

Specifications: Server storage controllers and hard drives capable of 24GB capacity. Read intensive, solid-state drives will be used for virtual servers.

2x12Gb SAS 4port Control 12x1.92TB SSD 23TB Storage Array
(8 Internal Lanes/No Cache) 12G SAS PCIe Plugin Controller
1.92TB SAS READ INTENSIVE SMALL FORM FACTOR BASIC CARRIER MULTI VENDOR SOLID STATE DRIVE
2X10 T 4P FIO ADPTR KIT (STORAGE ARRAY) - SHPFI
C13 TO C14 250V 10AMP 1.8M UNIVERSAL FIO POWER CORD
8SFF X1 TRIMODE U.3 DRIVE CAGE KIT

Specifications: SATA Business Critical hard drive with 1TB of storage.

801882-B21	1TB SATA 6G Business Critical 7.2K LFF RW Multi Vendor HDD

Network Devices

NAICS: 334118 – Computer Terminal and Other Computer Peripheral Equipment Manufacturing

Specifications: Enterprise Next Generation Firewalls and switches for IT/OT virtual networking comparable to Cisco Next Generation Firewalls and 9300/9200 switches.

SECONDARY ROUTER
24 PORT mGig NETWORK SWITCH WITH 4x 10G FIXED UPLINKS
24 PORT mGig NETWORK SWITCH WITH 4x 10G FIXED UPLINKS
NEXT GENERATION FIREWALL
200F Firewall
200G Firewall

T1024 Switch
108 Switch
511G Wireless Router
Session Smart Router
Enterprise Firewall
SD-WAN Firewall
Enterprise Switch

Specifications: Industrial routers and switches capable of cellular access comparable to Cisco Catalyst IR1101-K10 and IE1000-6T2T-LM.

8 PORT, MANAGED NETWORK SWITCH
ROUTER, BASE UNIT
CAT4 LETE PLUGGABLE VERIZON
RAIL KIT & MOUNTING SCREWS
2 IN 1 OUTDOOR ANTENNA, 4G/LTE, W/EXTENSION BASE - SHPFI
108F Switch
101G Wireless Router
5-PORT UNMANAGED ETHERNET SWITCH

Specifications: Data Diode to provide data to a private web server comparable to the Opswat Metadefender.

OPTICAL DIODE RAIL, 10Mbps

Communications Equipment, including Antennas and Microwave Radio

NAICS: 334220 – Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

Specifications: Microwave radio and antennas capable of licensed 11GHz communications comparable to the SIAE AGS20L and ASN-11.

2 RU, MODULAR, SPLIT MOUNT, MICROWAVE RADIO
ASN Outdoor Unit

Specifications: Communications pigtails with TNC/N connectors and lightning arrestors.

CABLE ASSEMBLY, LMR-240 36", N(M) - TNC (M)
TYPE N F/F BULKHEAD COAXIAL RF SURGE PROTECTOR, 10MHZ - 1GHZ, DC BLOCK, 1.5KW, 120UJ, 20KA

Specifications: Rubicon gate communications RTUs comparable to Motorola 4600 and 3600 units.

ACE4600 IP GATEWAY W/ AC POWER SUPPLY - PBR
ACE 3600 RTU - PBR

PLCs, Power Supplies, and Related Components

NAICS: 335314 - Relay and Industrial Control Manufacturing

Specifications: Programmable logic controller (PLC) commonly used in water/wastewater applications with analog and digital input/output modules. The PLC needs to have native ladder logic programming, MQTT communications, and PID controls comparable to the Siemens Simatic S7-1200 G2. Additional modules that support MQTT and PID controls will not be considered, only native capabilities.

COMPACT CPU 1214C, DC/DC/RLY, ONBOARD I/O (14DI/10DO)
DIGITAL INPUT MODULE, 8 X 24VDC
DIGITAL OUTPUT MODULE, 16 X RLY
8 CHANNEL , ANALOG INPUT MODULE, 14BIT ADC
UNIFIED BASIC PANEL, TOUCH OPERATION, 4" WIDESCREEN TFT DISPLAY HMI

Specifications: Smart Relays with analog and digital I/O and MQTT capable comparable to the IDEC FL1F.

FL1F SMART RELAY CPU, 12/24 VDC, 8 D/I, 4 D/O, WINDLGC V8.4 COMPATIBLE, FS06 MODEL
FL1F EXPANSION MODULE, 12/24VDC, 4DI, 4DO
RELAY, SPDT, 240VAC, 10A, W/ INDICATOR LIGHT AND CHECK BUTTON (PROVIDE 1 SPARE)
RELAY, SPDT, 12VDC, 10A, W/ INDICATOR LIGHT AND CHECK BUTTON (PROVIDE 1 SPARE)
RH1B RELAY BASE, DIN RAIL MOUNT (PROVIDE 1 SPARE)
FL1F SMART RELAY CPU, 12/24 VDC, 8 D/I, 4 D/O, WINDLGC V8.4 COMPATIBLE, FS06 MODEL
RELAY, SPDT, 120VAC, 10A, WITH INDICATOR LIGHT AND CHECK BUTTON (PROVIDE 1 SPARE)
FL1F SMART RELAY 2 CHANNEL ANALOG INPUT EXPANSION MODULE - CSHP
RELAY, SPDT, 24VDC, 10A, WITH INDICATOR LIGHT AND CHECK BUTTON (PROVIDE 2 SPARE)

Specifications: Rack mount universal power supply (UPS) with 6kVA output comparable to the Falcon FN2-6KRM-2TXI. This power supply with power the servers.

NIC CARD FOR FN2-4.5KRM-2TXI UPS
6kVA RACK MOUNTED UPS
RACK UPS
RACK UPS
RACK UPS

Specifications: Rack mount -48V power supply with 2kW rating for communications equipment, comparable to the Newmar C2RS-48. Additionally, 12V battery charger, comparable to the Victron BPC123047102.

DC POWER SYSTEM, MODULAR, RACK MOUNT, -48VDC
RECTIFIER MODULE, 48VDC, 2KW
CIRCUIT BREAKER, 20A
CIRCUIT BREAKER, 10A
48V DC POWER SUPPLY
48V DC POWER SUPPLY
BATTERY CHARGER, 12 VDC / 30 A

Specifications: 24V 5A power supplies for PLCs comparable to Phoenix Contact 2904600 and 2910124.

120AC/24DC, POWER SUPPLY, 5A, 120W
POWER DISTRIBUTION BLOCK, 1 POSITION, 8 CONNECTIONS, 150A, 1000VAC
DC/DC CONVERTER, 12-24VDC INPUT, 24VDC, 5A OUTPUT
DC/DC POWER SUPPLY
DC/DC POWER SUPPLY
DC/DC POWER SUPPLY
DC/DC POWER SUPPLY

Specifications: Industrial control panel components providing AC power, motor controls and other relays, terminal blocks, and sensor inputs. Items include Nema enclosure backpanels, 120V AC breakers and surge protectors, 24-240V DC/AC relays, terminal blocks and wiring, fuses and fuse holders, and tilt sensors. All are comparable to items listed below.

MINIATURE CIRCUIT BREAKER 120VAC, 1 POLE, TRIP CURVE C, 2A
TERMINAL BLOCK ACCESSORIES INSULATED SIDE JUMPER, 5 MM CENTER TO CENTER, 10 POLE, GREY
TERMINAL BLOCK ACCESSORIES SCREW CENTER JUMPER, 6 MM CENTER TO CENTER, 10 POLE, GREY
TERMINAL BLOCK ACCESSORIES SNAP-IN INDIVIDUAL MARKER CARD, 6 MM X 12 MM, NO TEXT
TERMINAL BLOCK ACCESSORIES END BARRIER FOR J4 TERMINALS, GREY
IEC END ANCHOR
DIN RAIL, 35MM
MINIATURE CIRCUIT BREAKER 240VAC, 2 POLE, TRIP CURVE C, 20A
MINIATURE CIRCUIT BREAKER 120VAC, 1 POLE, TRIP CURVE C, 20A
MINIATURE CIRCUIT BREAKER 240VAC, 2 POLE, TRIP CURVE C, 5A
FUSE BLOCK, 24 VDC W/ LED BLOWN FUSE INDICATOR (PROVIDE 2 SPARE)
IEC TERMINAL BLOCK, ONE CIRCUIT FEED-THROUGH BLOCK, STANDARD FEEDTHROUGH, GREY (STD.)
IEC TERMINAL BLOCK, ONE CIRCUIT FEED-THROUGH BLOCK, STANDARD FEEDTHROUGH, WHITE
IEC TERMINAL BLOCK, ONE CIRCUIT FEED-THROUGH BLOCK, STANDARD FEEDTHROUGH, BLUE
IEC TERMINAL BLOCK, ONE CIRCUIT FEED-THROUGH BLOCK, STANDARD FEEDTHROUGH, GREEN (INS. GND.)
MINIATURE CIRCUIT BREAKER 120VAC, 1 POLE, TRIP CURVE C, 10A
MINIATURE CIRCUIT BREAKER 120VAC, 1 POLE, TRIP CURVE C, 3A
MINIATURE CIRCUIT BREAKER 120VAC, 1 POLE, TRIP CURVE C, 1A
DIN RAIL, RAISED, ALUMINUM, 35 X 7.5 X 57.4mm
MINIATURE CIRCUIT BREAKER 120VAC, 1 POLE, TRIP CURVE C, 5A
700-HL ELECTROMECHANICAL RELAY, NEXT GENERATION W/ LEAKAGE CURRENT SUPPRESSION CIRCUIT, 24 - 240 AC/DC
JUMPER LINK, 20-WAY, BLUE FOR 700 SERIES SLIM RELAYS
22 AWG, 8 CONDUCTOR INSTRUMENTATION CABLE
3PH 208V WYE UL SURGE PROTECTION DEVICE, DIN MOUNT, TYPE 2
SPLIT PHASE 240V W/NEUTRAL SURGE PROTECTION DEVICE, DIN MOUNT
120V SURGE PROTECTIVE DEVICE, DIN MOUNT
NON-CONDUCTIVE BACK PANEL, 33"H X 21"W
120VAC, 15CFM, SIDE-MOUNT FILTER FAN, TYPE 3R

FILTER FAN EXHAUST GRILLE, TYPE 3R
FILTER FAN SHROUD, TYPE 3R
HORIZONTAL MANAGER
SERVER RACK DIN RAIL BRACKET, 4U
GROUND BAR
1" X 4" WIREDUCT
2" X 4" WIREDUCT
SIGNAL CONDITIONER, 24VDC (CONTROL SITES)
ENCLOSURE VENTS
TMS22 TILT SENSOR, 1 AXIS, 4 - 20 mA SIGNAL OUTPUT

Generators

NAICS: 335312 – Motor and Generator Manufacturing

Specifications: 25KW or similar commercial generator with Automatic Transfer Switch (ATS), comparable to Cummins A051Y399.

25KW GENERATOR
25KW GENERATOR