



*“RE-BUILDING THE CITY’S WATER SYSTEMS FOR THE 21<sup>ST</sup> CENTURY”*

# **Sewerage & Water Board** OF NEW ORLEANS

625 ST. JOSEPH STREET  
NEW ORLEANS, LA 70165 • 504-529-2837 OR 52-WATER  
[www.swbno.org](http://www.swbno.org)

## **Addendum No.   9**

**Date: 02/05/2024**

Your reference is directed to **Contract Number: 2023-SWB-97 (Contract 1420)** for WPC Phase 1 Equipment Installation which is scheduled to open at **11:30 a.m. CST** on **February 23, 2024** for SWBNO Civil Engineering Department.

This addendum provides for the following:

1. Network Block Diagram for PDCS System
  - a. Attachment - PDCS\_NetworkDiagram\_QDS.pdf (Page 2)
2. Responses to Questions.
  - a. Attachment - 1420\_BidderQuestions\_Working\_020224 (Pages 3-9)

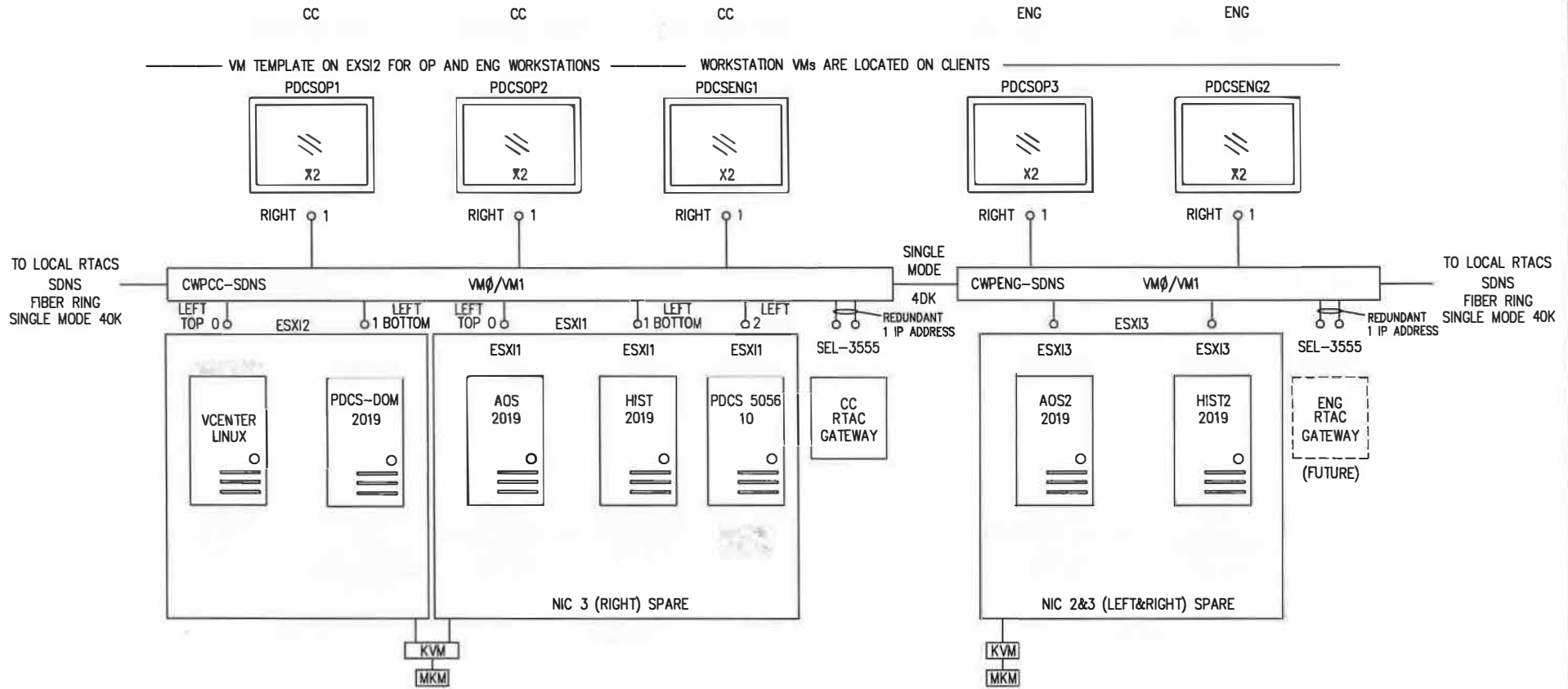
The above revisions shall be incorporated in and take precedence over any conflicting part of the original proposal documents. This addendum is hereby officially made a part of the referenced proposal.

Receipt of this addendum shall be acknowledged by inserting its number and date in the space provided in the Form of Proposal.

This addendum consists of nine (9) page.

\*\*\* END OF ADDENDUM \*\*\*

# PDCS SYSTEM PLATFORM ARCHITECTURE



WALTER J. BARNES ELECTRIC CO.  
 SWBNO - CONTRACT 1370A  
 PDCS SYSTEM PLATFORM ARCHITECTURE  
 CONNECTION DIAGRAM

**QDS** SYSTEMS, INC.  
 11817 Industry Blvd.  
 Baton Rouge, LA 70809  
 (225) 753-2211

DRAWN BY	MM	DATE	04/14/21	DRAWN NO.	31800-CNP-K02
CHECKED BY	JF	DATE	XX/XX/XX	CHECK NO.	31800-CNP-K02
APPROVED BY	SP	DATE	XX/XX/XX	SCALE	N/A

A	11/6/20	RE-SUBMITTAL	scdm	
REV	DATE	DESCRIPTION	BY	

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**C1420 - WPC Phase 1 Equipment Installation and Commissioning**  
**Questions and Responses during Bidding**

Response Version 0 dated December 20, 2023 included in Addendum 4: [Questions 1 - 7]

Response Version 1 dated January 02, 2024 included in Addendum 5: [Questions 8 - 20]

Response Version 2 dated January 17, 2024 included in Addendum 7: [Questions 21 - 59]

Response Version 3 dated February 05, 2024 included in Addendum 9: [Questions 60 - 81]

BIDDER QUESTION 60: Spec 26 00 10 - 1.02 - C - 3c says to "remove, salvage, and repurpose control wiring to CWPYRD XFMR B..." but we are confused by this scope of work request, since these existing wires have nothing to do with the T6 service. Please advise.

**RESPONSE 60: CWPYRD XFMR B is being re-fed from the West Power Complex at 24kV and the electrical protection associated with this transformer and associated feeder cables needs to be updated. The existing control wiring may be repurposed for the updated transformer protection, therefore has been requested to be salvaged.**

BIDDER QUESTION 61: The Cable Schedule lists a number of 4160V cables at 3600.3' each for CWPYRD on pages 15-16 with no "from" or "to" markings, and these appear to be for a future phase. Do we exclude these runs?

**RESPONSE 61: There are several attributes in the Cable Schedule that indicate scope; SUPPLIED BY, CONSTRUCTION BY, COMMISSIONING BY. Where any of these attributes indicate "CP-1416" or "CP-1420" those cable aspects are within the Contractors' scope, otherwise those cables are for reference only. The cable definition, if incomplete such as lacking FROM or/and TO, will be completed in the IFC Issue Cable Schedule provided to the successful bidder.**

BIDDER QUESTION 62: The Cable Schedule lists a number of 25KV cables at 3400.3' each for CWPYRD on pages 16-17 with no "from" or "to" markings, and these appear to be for a future phase. Do we exclude these runs?

**RESPONSE 62: There are several attributes in the Cable Schedule that indicate scope; SUPPLIED BY, CONSTRUCTION BY, COMMISSIONING BY. Where any of these attributes indicate "CP-1416" or "CP-1420" those cable aspects are within the Contractors' scope, otherwise those cables are for reference only. The cable definition, if incomplete such as lacking FROM or/and TO, will be completed in the IFC Issue Cable Schedule provided to the successful bidder.**

BIDDER QUESTION 63: The Cable Schedule lists what appears to be a single receptacle circuit wire called CWPYRD0CPREC01-P01 on page 15 and also notes it as construction under Contract 1418. And no new receptacles are shown on the drawings. So we assume we exclude this run?

**RESPONSE 63: Yes this particular cable can be excluded from 1420. There are several attributes in the Cable Schedule that indicate scope; SUPPLIED BY, CONSTRUCTION BY, COMMISSIONING BY. Where any of these attributes indicate "CP-1416" or "CP-1420" those cable aspects are within the Contractors' scope, otherwise those cables are for reference only. The cable definition, if incomplete such as lacking FROM or/and TO, will be completed in the IFC Issue Cable Schedule provided to the successful bidder. Note that convenience receptacles are shown on E-P series drawings.**

BIDDER QUESTION 64: The Cable Schedule lists a number of ground wires for SSCC on page 20 (and elsewhere) and identifies them as G01250I, but this marking doesn't appear on the Cable Schedule Notes under Grounding. Are these cables 250MCM, and if so, are they still client supplied?

**RESPONSE 64: Cable Schedule Notes will be updated to add this cable type definition. Similar to A61, please consult the Supplied By attribute to determine the supplier of that cable.**

BIDDER QUESTION 65: The Cable Schedule lists a number of 125V, 120V, and control cables of various lengths for SSCC (pages 33-46) that have no To or From designation. Some of them appear to be for the new PDCS controls for the gear breakers but some also appear to be for future use. Please elaborate on all these cables and also advise which ones are included in this project.

**RESPONSE 65: There are several attributes in the Cable Schedule that indicate scope; SUPPLIED BY, CONSTRUCTION BY, COMMISSIONING BY. Where any of these attributes indicate "CP-1416" or "CP-1420" those cable aspects are within the Contractors' scope, otherwise those cables are for reference only. The cable definition, if incomplete such as lacking FROM or/and TO, will be completed in the IFC Issue Cable Schedule provided to the successful bidder.**

BIDDER QUESTION 66: The Cable Schedule lists four 25KV cables for SSSYC (page 51) listed as SSSYC0EMV60FDRWPC11 that are not listed for future use, but still appear to be for future use. We assume these cables are marked incorrectly and are for future use and should be ignored. Is that correct?

**RESPONSE 66: Correct, the Cable Schedule entry for this cable will be modified to indicate FUTURE scope and will be for reference only,**

BIDDER QUESTION 67: The PDF file (1420 vol 2 specifications) is a locked file that restricts our ability to extract the document (looking to split it into individual spec sections to more easily send it to potential subs and suppliers). So can we either have the document password or get the spec sections split into individual PDF files?

**RESPONSE 67: An unlocked version of Volume 2, without the PE Seal pages is provided in Addendum 8.**

BIDDER QUESTION 68: 26.00.10 Section 1.02 (B) mentions Demolishing hardwired SSFC controls at the central control consoles. Confirm that this includes removal of all indicator lights and circuit breaker control switches in the console for each breaker in SSCC and SSYRD.

a. Confirm if metering will remain at the consoles or if meters are also to be demolished.

b. Confirm if relays for SSCC ring bus and SSYRD will be replaced with SEL relays. If so will they be installed in the same console panels as the existing relays?

**RESPONSE 68: Confirmed.**

**a. Meters at the consoles shall be removed, noting that the telemetry provided by these digital meters is standard feature of the PDCS integration and will be included in the data transfer scope of the PDCS-to-PI for continued presence in the PSS (Process SCADA System).**

**b. The subject SEL relays will be installed locally at the switchgear within the door for the specific circuit breaker vertical section; reference articles 26.00.10 1.06 and 1.07.**

BIDDER QUESTION 69: 26.00.10 Section 1.02 (C) includes addition of remaining switchgear breakers into PDCS. Confirm if existing relays are suitable for implementation or if they will require replacement to be compliant with PDCS GOOSE protocol.

**RESPONSE 69: Existing relays shall be replaced and integrated into the PDCS consistent with article 26.00.10 1.06.**

BIDDER QUESTION 70: 26.00.10 Section 1.02 (G) (2) identifies High Lift Pump Room, but with no scope included. Please clarify if there is scope in the pump room.

**RESPONSE 70: There is NO scope in the High Lift Pump Room.**

BIDDER QUESTION 71: 26.00.10 Section 1.02 (G) (3&4) identifies the addition of T4 and T5 into the PDCS. Does this include circuit breaker control? If so, does it include all breakers in the T4 and T5 6.6kV switchgear? Would the breakers require retrofit relays to support PDCS operations?

**RESPONSE 71: Yes, the scope includes full integration of the associated 6.6kV circuit breakers into the PDCS per article 26.00.10 1.06.**

BIDDER QUESTION 72: 26.00.10 section 1.02 (H) - the XFMR B 787 relay will be installed at the XFMR. Currently there is 125VDC available at the XFMR control panel for the sudden pressure. Confirm if this 125VDC circuit can be used to power the 787 relay, or if the relay will require separate dedicated circuit from the yard DC system.

**RESPONSE 72: The existing 125VDC circuit at XFMR B can be used for the 787 relay.**

BIDDER QUESTION 73: 26.00.10 section 1.02 (I) indicates modification of all breakers in the ring bus, either full or partial, with breaker control being added to the PDCS. Confirm if circuit breaker control power will remain on existing battery backed DC circuits or if a new battery system will supply control power for the breakers.

**RESPONSE 73: Reuse of the existing 125VDC system is the present scope.**

BIDDER QUESTION 74: 26.00.10 section 1.02 (O) indicates PDCS modification of SSYRD switchgear being installed. Existing switchgear includes breaker controls located in central control consoles.

- a. Confirm if existing relays for the existing SWGR are being reused, or if being replaced with SEL relays and brought into the PDCS system.
- b. Confirm if central control console breaker switches and indicator lights will remain in service, tied to new switchgear breakers.
- c. Confirm that breaker control (open/close) functionality will be implemented via the PDCS HMI.
- d. If relays are being replaced with SEL, will the new relays be located in the same console, or in another console to allow for shorter cutover duration?

**RESPONSE 74: a. The New SEL relays shall be installed and switchgear sections integrated into the PDCS, reference article 26.00.10 1.06.**

**b. Similar to Q68/A68, the existing control console control hardware shall be removed.**

**c. Similar to Q68/A68, the subject circuit breakers shall be fully integrated into the PDCS, reference article 26.00.10 1.06.**

**d. SEL relays shall be installed in the switchgear vertical section associated with the controlled circuit breaker; reference article 26.00.10 1.06.**

BIDDER QUESTION 75: 26.00.10 section 1.02 (J/K/L/M) confirm if power quality protection validation only applies to breakers connected to the PDCS, or if every CT/PT/Relay in the entire lineups are included for testing.

**RESPONSE 75: Power quality protection validation only applies to circuit breakers integrated in PDCS.**

BIDDER QUESTION 76: 26.00.10 section 1.02 (M) indicates the addition of Panola pumps into PDCS. Please confirm that existing relays and schematics do not require modification to conform to PDCS typical specification, and that communication and programming upgrade is only scope required.

- a. Confirm that 25Hz Panola pump feeders are not included.

**RESPONSE 76: Assume existing relays and schematics require modification to conform to PDCS typical specification in addition to the required communication and programming upgrades.**

- a. Panola 25Hz pump circuit breaker integration into the PDCS shall be included. These circuit breaker cubicles are being upgraded under a separate SWBNO Contract and will be PDCS ready at time of CP-1420.

BIDDER QUESTION 77: 26.00.10 section 1.02 (N) indicates addition of Sullivan Substation interface with the PDCS. Please identify I/O requirements and confirm that it will be implemented in the WPCAUX PDCS node located in AUX PDC-01.

a. Section also indicates power quality testing. Confirm if project will be required to test Entergy PTs, CTs and relays.

**RESPONSE 77: The exact I/O has not yet been determined; for bid purposes assume 40 I/O points per feeder (ie. 2 feeders), with 10 each per feeder requiring hardwiring within the WPCAUX switchgear.**

**a. No testing of Entergy equipment will be required by the 1420 Contractor; any Entergy equipment testing required to validate SWBNO protection will be performed by Entergy in collaboration with the 1420 Contractor.**

BIDDER QUESTION 78: Addendum 2 presentation indicates a list of workshops included in the scope of 1420 requiring participation in development of use cases and design reviews. The last 2 workshops are titled pre-FAT and post-FAT, and the language seems to indicate that the system has been configured by the "Control System Integrator" prior to the workshop. Please confirm that the configuration by the "Control System Integrator" is not part of 1420, and contract 1420 strictly requires workshop participation to develop Use Cases, but no configuration is required.

a. Is it assumed that "Control System Integrator" responsible for configuring the software is the same entity as the 1420 Integrator, or a potential different party

**RESPONSE 78: Incorrect assumption; the Control System Integrator is a specialty contractor qualified to configure the PDCS and is within the 1420 Contractors scope.**

BIDDER QUESTION 79: Related to the Cable Schedule

Any cable runs marked under their Note as "Future" or "Existing" are not to be included in this project, is that correct? Some examples are, all cables on Page 1 and all cables on Page 5.

**RESPONSE 79: See A61.**

BIDDER QUESTION 80: Related to the Cable Schedule

We assume the 3 parallel sets of runs for CWPYRD0EMV60FDRWPC04 on pages 15 and 16, and the 2 parallel sets of runs for CWPYRD0EMV60FDRWPC13 on pages 16 and 17 are not to be included in this project, is that correct? If so, then what are these cable runs for?

**RESPONSE 80: See A61.**

BIDDER QUESTION 81: Related to the Cable Schedule

We assume the set of runs for SSSYC0EMV60FDRWPC11 on page 51 is not to be included in this project, is that correct? If so, then what is this cable run for?

**RESPONSE 81: See A61.**



