



## **ADDENDUM 2 BID OPPORTUNITY 792-2006**

### **WINNIPEG WATER TREATMENT PROGRAM – CONSTRUCTION OF SODIUM HYPOCHLORITE AND CHEMICAL STORAGE BUILDINGS**

#### **URGENT**

**PLEASE FORWARD THIS DOCUMENT TO  
WHOEVER IS IN POSSESSION OF THE BID  
OPPORTUNITY**

ISSUED: March 23, 2007  
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TELEPHONE NO. (204) 986-4246

**THIS ADDENDUM SHALL BE INCORPORATED  
INTO THE BID OPPORTUNITY AND SHALL  
FORM A PART OF THE CONTRACT  
DOCUMENTS**

Template Version: A20050506

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**Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.**

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#### **PART A – BID SUBMISSION**

Replace 792-2006-Bid\_Submission with 792-2006\_Addendum\_2-Bid\_Submission. The following forms have been revised:

- Form A: Bid has been replaced by Form A(R1): Bid
- Form G1 has been replaced by Form G1(R1)
- Form G2 has been replaced by Form G2(R1)

#### **PART B – BIDDING PROCEDURES**

Revise: B2.1 to read: The Submission Deadline is 12:00 noon Winnipeg time, April 5, 2007.

#### **PART D – SUPPLEMENTAL CONDITIONS**

- Revise: D2.2(d) to read: Supply, installation, Performance Verification and commissioning support for all mechanical, process, electrical, I&C, associated with the above works and as shown in the Contract Documents, including receiving, unloading, acceptance, storage, and installation of City Supplied Equipment supplied under bid opportunities 742-2005 and 49-2006.
- (i) City Supplied Equipment for Bid Opportunity 49-2006 shall be stored in the City Warehouse except for the tanks which shall be delivered to the Site. The Contractor shall receive, unload and accept the equipment at the City Warehouse and reload and transport the equipment from the City Warehouse to the Site. The City will insure the equipment while in storage at the City Warehouse in accordance with D11.
- Revise: D2.2(e)(i) to read: 49-2006: Supply of Hypochlorite Generation Equipment. Hypochlorite Generation Equipment will be supplied no earlier than November 1, 2007 and no later than November 15, 2007. For equipment delivered to the City Warehouse, the equipment will be delivered in five separate shipments.
- Revise: D2.2(e)(ii) to read: Product information for the City Supplied Equipment (SWGR2A, SWGR 2B, XFMR-H965A and XFMR-H965B) supplied under Bid Opportunity 742-2005 is available from the Contract Administrator upon request. SWGR2A, SWGR 2B, XFMR-H965A and XFMR-H965B will be supplied no earlier than January 2, 2008 and no later than January 31, 2008.

Revise: D17.1(f) to read: Energize the cables servicing the main water treatment plant electrical room 2 MCC #4A and MCC #4B by February 28, 2007. Successful installation shall be considered complete when service can be energized and the City can use the service to support construction activities in the WTP.

Revise: D18.1 to read: The Contractor shall achieve Substantial Performance by August 29, 2008.

## **PART E – SPECIFICATIONS**

### **Section 03300**

Revise: Table A to read:

**Table A**

<b>Mix Type</b>	<b>Portion of Structure</b>	<b>Min. Compressive Design Strength @ 28 Days (MPa)</b>	<b>Cement Type</b>	<b>Min. Cementing Material Content (kg/m<sup>3</sup>)</b>	<b>Max. Water Cementing Material Ratio</b>	<b>Nominal Aggregate Size (mm)</b>	<b>Slump (mm)</b>	<b>Entrained Air Content (%)</b>
<b>1</b>	**Containment structural concrete beams, grade beams, slabs and walls Containment sump pits. Class of exposure: C-1	35	50 (HS)	335	0.40	20 to 5	*80 ± 25	4 to 7
<b>2</b>	Non- containment structural concrete in contact with soil and backfill or exposed to weather or freezing and thawing – pile caps, concrete beams, grade beams, pads, and curbs Class of exposure: C-1	35	50 (HS)	--	0.40	20 to 5	*80 ± 25	5 to 8
<b>3</b>	Interior structural concrete, 150 concrete on steel deck Class of exposure: N	30	10 (GU)	--	0.50	20 to 5	80 ± 25	Less than 3
<b>4</b>	Topping on hollowcore and 103 concrete on steel deck Class of exposure: N	30	10 (GU)	--	0.50	10 to 2.5	80 ± 25	Less than 3
<b>5</b>	Miscellaneous concrete – curbs, equipment bases, pipe supports within heated buildings and benching Class of exposure: N	25	10 (GU)	--	0.50	20 to 5	80 ± 25	Less than 3
<b>6</b>	Grout or Concrete used in Masonry infill	20	10 (GU)	--	--	10 to 2.5	150 ± 30	Less than 3

Note: \*Concrete for walls and beams of containment areas shall be superplasticized; other elements with congested reinforcement may also be superplasticized subject to review by the Contract Administrator. Superplasticized concrete slump shall be  $200 \pm 30$ .

'Containment' includes the secondary containment areas where the chemical tanks are located.

### **Section 05410**

Add: Section 05410 – Light Weight Steel Framing

### **Section 05500**

Revise 2.1.6 to read: Fasteners: Bolts, nuts, washers, rivets, lock washers, anchor bolts, machine screws and machine bolts hot dipped galvanized to CSA G164. For joining stainless steel components, use stainless steel fasteners. For anchoring and joining items in secondary containment areas, use stainless steel fasteners.

### **Section 07400**

Revise: 1.2 to read: Quality Control

Revise: 2.1.1 to read: Roll Formed Metal Cladding Panel: Sheet steel coil coated to ASTM A755, galvanized by the hot dip process to ASTM A653M, Z275. Prefinish sheet to meet or exceed requirements of Baycoat Metallic Series, profile to match CL7040 by Vic West, colour to match UC55028XL Bright Silver Metallic by PPG, apply colour on top side only.

Revise: 2.1.2 to read: Aluminium Plate Cornice Band, and Trim Bands: Prefinished, plate aluminium ally 3105-H14 or 3003-H14, minimum 3.2 mm nominal thickness, reinforced, corners welded and ground smooth. Prefinish exposed to view aluminium surfaces in high performance fluoropolymer metallic finish, colour to match UC52061XL Concord Blue Metallic by PPG.

### **Section 07515**

Replace Section 07515 with Section 07515(R1).

### **Section 07900**

Revise: 3.4.5.1 to read: Around pipes and conduits passing through washroom walls and ceilings. Conceal sealant with escutcheons.

Revise: 3.4.5.2 to read: Joints between washroom access panels and walls.

### **Section 09300**

Add: Section 09300 – Tiles

### **Section 09510**

Add: Section 09510 – Acoustical Ceilings

### **Section 10800**

Add: Section 10800 – Washroom Accessories

### **Section 15010**

Revise: 1.17.4.46 to read: Pumps – Deaerators and Boiler Feed - York Shipley, Cleaver Brooks, Duro, ITT Goulds, Grundfos

Revise: 1.17.4.57 to read: Steam Relief Valves - Kunkle, Spirax Sarco

Revise: 1.17.4.58 to read: Steam Traps - Spirax Sarco, Watson McDaniel, Spence Engineering

- Revise: 1.17.4.61 to read: Tanks - Boiler Feed and Blowdown - Miura, Bryan
- Add: 1.17.4.82 Makeup Air Units - Circul Aire, Engineered Air
- Add: 1.17.4.83 Air Handling Units - McQuay, Engineered Air

**Section 15160**

- Add: 2.11 Steam Separator
- Add: 2.11.1 Supply and install a steam separator to each boiler, as Spirax Sarco, Model S4A Steam Separator, Size 4".

**Section 15705**

- Add: 2.2.4 The heat tracing systems shall have control panels providing the following.
- Add: 2.2.4.1 Hand/off/auto switch
- Add: 2.2.4.2 Input from BAS system to turn heat tracing on
- Add: 2.2.4.3 An output connected to the BAS to indicate when each individual heat trace circuit is on.
- Add: 2.2.4.4 An output connected to the BAS to indicate a fault for each trace heating circuit
- Add: 2.2.5 Where possible the heat trace control panels should be incorporated into the BAS control panel

**Section 15720**

- Revise: 2.2.5.2 to read: Motorized damper actuators shall be supplied and field mounted by HVAC Controls Contractor.
- Revise: 2.2.8.3 to read: Where indicated provide supply air side opposed blade face and bypass dampers with accompanying linkage and operating controls. Dampers and actuators shall be High Performance type as specified under Section 15901 - HVAC Controls, Field Components and Instruments.
- Revise: 2.2.8.4 to read: Where indicated, provide factory mounted frost control system.
- Revise: 2.2.8.5 to read: Frost control shall be sized such that the total air flow is unchanged in defrost mode.
- Delete: 2.2.8.5.1
- Delete: 2.2.8.5.2
- Revise: 2.2.10.14 to read: Supply and install factory mounted Hand-Off-Auto (HOA) switch for single speed systems, Slow-Off-Fast-Auto (SOFA) switch for two speed systems.

**Section 15900**

- Add: 1.2.5.5 Includes all wiring from Make Up Air Unit, Air Handling Unit, and Equipment terminal strips to local DDC controllers.
- Add: 1.3.1.5 Supply and install local control panels to house all control items including, but not limited too, interlocks, hand switches, indicator lamps, and BAS controllers etc. Panels to be constructed in accordance with Division 17, Section 17110.

**Section 15999**

Revise: 1.6 Supply Air Fan Schedule to read:

Tag	SF-H831A
Function	Chemical Building Mech. Room Ventilation & Combustion
Location	Mechanical Room
Type	Centrifugal Inline
Volume, L/s (cfm)	1062 (2250)
E.S.P., Pa (in.wg.)	250 (1.0)
Fan Speed, rpm	1137
Motor Power, kW (hp)	0.56 (0.75)
Power Supply, V/ph/Hz	575-3-60
Drive	Belt
Arrangement	
Manufacturer	Greenheck
Model	BSQ-180HP-7
Control	On/Off
Accessories & Remarks	1-11

Revise: 1.7 Exhaust Air Fan Schedule to read:

	EF-H818B	EF-H819B	EF-H820C
Function	Chemical Building Rail Car Enclosure Ventilation	Chemical Building Rail Car Enclosure Ventilation	Chemical Building Mech. Room Emergency Relief
Location	Rail Car Enclosure	Rail Car Enclosure	Aqua Ammonia Room
Type	Vaneaxial Roof Exhaust	Vaneaxial Roof Exhaust	Vaneaxial Roof Exhaust
Volume, L/s (cfm)	1982 (4200)	1982 (4200)	1062 (2250)
E.S.P., Pa (in.wg.)	63 (0.25)	63 (0.25)	125 (0.5)
Fan Speed, rpm	1480	1480	1551
Motor Power, kW (hp)	0.75 (1.0)	0.75 (1.0)	0.37 (0.5)
Power Supply, V/ph/Hz	575-3-60	575-3-60	575-3-60
Drive	Belt	Belt	Belt
Arrangement	9	9	9
Manufacturer	Northern Blower	Northern Blower	Northern Blower
Model/Size	7412/1825	7412/1825	7412/1500
Control	On/Off	On/Off	On/Off
Weight, kg (lbs)	114 (250)	114 (250)	114 (250)
Accessories & Remarks	1-12	1-12	1-12

Revise: 1.12 Air Compressor Schedule to read:

Tag	CMP-S815A	CMP-S816A
Location	Chemical Building Mechanical Room	Chemical Building Mechanical Room
Service	Unloading	Unloading
Type	Oil Free Scroll	Oil Free Scroll
Capacity @ 800 kPa, L/s (cfm)	10 (22)	10 (22)
Motor Power, kW (hp)	6 (8)	6 (8)
Power Supply, V/ph/Hz	575/3/60	575/3/60
Manufacturer	Atlas Copco	Atlas Copco
Model	SF6	SF6
Dimensions, mm	1450x750x1040	1450x750x1040
Operating Weight, kg (lbs)	340 (748)	340 (748)
Accessories & Remarks		

Revise: 1.13 Air Dryer Schedule to read:

Tag	AD-S815A	AD-S816A
Location	Chemical Building Mechanical Room	Chemical Building Mechanical Room
Service	Unloading	Unloading
Type	Heatless Adsorption	Heatless Adsorption
Capacity @ 1100 kPa, L/s (cfm)	11.8 (25)	11.8 (25)
Nominal Pressure Dew Point C° (F°)	-4 (-20)	-4 (-20)
Possible Dew Point C° (F°)	-40 (-40)	-40 (-40)
Manufacturer	Atlas Copco	Atlas Copco
Model	CD12	CD12
Dimensions, mm	290x176x855	290x176x855
Operating Weight, kg (lbs)	27 (60)	27 (60)
Accessories & Remarks		

Revise: 1.14 Tank Schedule to read:

Tag	GFT-H815A	ETNK-H815B	CFR-H815C
Service	Heating	Heating	Heating
Location	Mechanical Room	Mechanical Room	Mechanical Room
Type	Vertical	Vertical	Vertical
Capacity, L (USgal)	180 (48)	100 (264)	20 (5)
Diameter, mm (in)	610 (24)	914 (36)	250 (10)

Height/Length, mm (in)	1245 (49)	1867 (73.5)	750 (30)
Manufacturer	Axiom Industries Ltd	Armstrong	Neptune
Model	SF100	1000-L	DBF-5HP
Accessories & Remarks	Set to 138 kPa (20 psig)		

**Section 17015**

Replace: Section 17015 with Section 17015(R1)

**Section 17600a**

Replace: Section 17600a with Section 17600a(R1)

**Section 17700a**

Replace: Section 17700a with Section 17700a(R1)

**DRAWINGS**

Shop drawings for contracts 49-2006 and 742-2005 have been added and form part of this Addendum:

<b><u>Consultant Drawing No.</u></b>	<b><u>City Drawing No.</u></b>	<b><u>Drawing Name/Title</u></b>
		Sodium Hypochlorite Shop Drawings-R0
		Switchgear and Transformers Shop Drawings-R0

Drawing P01-R2 has been replaced by Sodium Hypochlorite Shop Drawings above.

Drawing CPG0465-I-01-R2 has been replaced by Sodium Hypochlorite Shop Drawings above.

The following Drawings have been added and form part of this Addendum:

<b><u>Consultant Drawing No.</u></b>	<b><u>City Drawing No.</u></b>	<b><u>Drawing Name/Title</u></b>
WJ-E0401	1-0601J-A-E0401-001-00D	ELECTRICAL – SKYWAY BRIDGE – DETAILS
WS-H0522	1-0601S-G-H0522-001-00D	MECHANICAL - BAS ARCHITECTURE LAYOUT

The following Drawings have been revised and form part of this Addendum:

<b><u>Consultant Drawing No.</u></b>	<b><u>City Drawing No.</u></b>	<b><u>Drawing Title</u></b>
WJ-B0401	1-0601J-A-B0401-001-01D	ARCHITECTURAL - DETAILS
WJ-B0403	1-0601J-A-B0403-001-01D	ARCHITECTURAL - BUILDING LINK DETAILED PLAN & SECTIONS
WJ-B0501	1-0601J-A-B0501-001-01D	ARCHITECTURAL - SCHEDULES AND CODE ANALYSIS
WJ-M0402	1-0601J-A-M0402-001-01D	PROCESS MECHANICAL - SODIUM HYPOCHLORITE BUILDING - DETAILS
WJ-M0403	1-0601J-A-M0403-001-01D	PROCESS MECHANICAL - SODIUM HYPOCHLORITE BUILDING - SKYWAY BRIDGE DETAILS
WJ-H0506	1-0601J-G-H0506-001-01D	HVAC AND PLUMBING - SODIUM HYPOCHLORITE BUILDING - SKYWAY BRIDGE HEATING AND VENTILATION SCHEMATIC
WS-B0130	1-0601S-A-B0130-001-01D	ARCHITECTURAL - ROOF PLAN
WS-B0203	1-0601S-A-B0203-001-01D	ARCHITECTURAL - WALL SECTIONS
WS-B0301	1-0601S-A-B0301-001-01D	ARCHITECTURAL - BUILDING ELEVATIONS
WS-B0302	1-0601S-A-B0302-001-01D	ARCHITECTURAL - BUILDING ELEVATIONS
WS-B0401	1-0601S-A-B0401-001-01D	ARCHITECTURAL - DETAILS

<b>Consultant Drawing No.</b>	<b>City Drawing No.</b>	<b>Drawing Title</b>
WS-B0403	1-0601S-A-B0403-001-01D	ARCHITECTURAL - SKYWAY BRIDGE DETAILED PLAN & SECTIONS
WS-B0404	1-0601S-A-B0404-001-01D	ARCHITECTURAL - ROOF PLAN OF BRIDGE AND DETAILS
WS-B0501	1-0601S-A-B0501-001-01D	ARCHITECTURAL - SCHEDULES AND CODE ANALYSIS
WS-E0112	1-0601S-A-E0112-001-01D	ELECTRICAL - MAIN FLOOR POWER PLAN
WS-E0122	1-0601S-A-E0122-001-01D	ELECTRICAL - SECOND FLOOR POWER PLAN
WS-E0123	1-0601S-A-E0123-001-01D	ELECTRICAL - SECOND FLOOR LIFE SAFETY
WS-E0142	1-0601S-A-E0142-001-01D	ELECTRICAL - ROOF PLAN - LIGHTING PROTECTION
WS-E0506	1-0601S-A-E0506-001-01D	ELECTRICAL - SCHEDULES
WS-H0112	1-0601S-A-H0112-001-01D	MECHANICAL - MAIN LEVEL HYDRONIC PLAN
WS-H0115	1-0601S-A-H0115-001-01D	MECHANICAL - PARTIAL MECHANICAL ROOM PLUMBING PLAN
WS-H0116	1-0601S-A-H0116-001-01D	MECHANICAL - MECHANICAL ROOM PARTIAL PLANS
WS-H0122	1-0601S-A-H0122-001-01D	MECHANICAL - UPPER LEVEL HYDRONIC PLAN
WS-H0124	1-0601S-A-H0124-001-01D	MECHANICAL - UPPER LEVEL COMPRESSED AIR PLAN
WS-H0201	1-0601S-A-H0201-001-01D	MECHANICAL - SECTION A
WS-H0204	1-0601S-A-H0204-001-01D	MECHANICAL - SECTIONS E & F
WS-H0208	1-0601S-A-H0208-001-01D	MECHANICAL - SECTIONS L & M
WS-M0203	1-0601S-A-M0203-001-01D	PROCESS MECHANICAL - SECTION
WS-F0101	1-0601S-B-F0101-001-01D	STRUCTURAL - FOUNDATION PLAN - PARTIAL PILE LAYOUT
WS-S0110	1-0601S-A-S0110-001-01D	STRUCTURAL - MAIN FLOOR FRAMING PLAN
WS-S0120	1-0601S-A-S0120-001-01D	STRUCTURAL - SECOND FLOOR PLAN - MASONRY WALL LAYOUT
WS-S0125	1-0601S-A-S0125-001-01D	STRUCTURAL - CATWALK FRAMING PLAN
WS-S0126	1-0601S-A-S0126-001-01D	STRUCTURAL - PARTIAL CATWALK STAIRS AND PLATFORMS PLAN
WS-S0128	1-0601S-A-S0128-001-01D	STRUCTURAL - CATWALK HANGER DETAILS
WS-S0140	1-0601S-A-S0140-001-01D	STRUCTURAL - ROOF PLAN - STEEL FRAMING (PARTIAL)
WS-S0201	1-0601S-A-S0201-001-01D	STRUCTURAL - BUILDING SECTIONS
WS-S0202	1-0601S-A-S0202-001-01D	STRUCTURAL - BUILDING SECTIONS
WS-S0301	1-0601S-A-S0301-001-01D	STRUCTURAL - WEST & EAST ELEVATIONS
WS-S0303	1-0601S-A-S0303-001-01D	STRUCTURAL - NORTH & SOUTH ELEVATIONS
WS-S0400	1-0601S-A-S0400-001-01D	STRUCTURAL - DUCT BANK PLAN AND DETAILS
WS-S0405	1-0601S-A-S0405-001-01D	STRUCTURAL - STANDARD DETAILS
WS-S0410	1-0601S-A-S0410-001-01D	STRUCTURAL - BUILDING SECTIONS AND DETAILS
WS-S0411	1-0601S-A-S0411-001-01D	STRUCTURAL - DUCT BANK PLAN AND DETAILS
WS-S0421	1-0601S-A-S0421-001-01D	STRUCTURAL - MAIN FLOOR STAIR SECTIONS AND DETAILS
WS-S0422	1-0601S-A-S0422-001-01D	STRUCTURAL - MAIN FLOOR STAIR SECTIONS AND DETAILS
WS-S0423	1-0601S-A-S0423-001-01D	STRUCTURAL - MAIN FLOOR STAIR SECTIONS AND DETAILS AND PLATFORMS
WS-S0424	1-0601S-A-S0424-001-01D	STRUCTURAL - CATWALK STAIRS AND PLATFORMS DETAILS
WS-S0425	1-0601S-A-S0425-001-01D	STRUCTURAL - CATWALK STAIRS AND PLATFORMS DETAILS
WS-S0502	1-0601S-A-S0502-001-01D	STRUCTURAL - PILE SCHEDULES
WS-E0453	1-0601S-D-E0453-001-01D	ELECTRICAL - STANDARD DETAILS
WS-E0503	1-0601S-F-E0503-001-01D	ELECTRICAL - SINGLE LINE DIAGRAM - MAIN SWITCHGEAR
WS-H0501	1-0601S-G-H0501-001-01D	MECHANICAL - PROCESS WATER SYSTEM - SCHEMATICS
WS-H0502	1-0601S-G-H0502-001-01D	MECHANICAL - DOMESTIC WATER SYSTEM - SCHEMATICS
WS-H0503	1-0601S-G-H0503-001-01D	MECHANICAL - STEAM HEATING SYSTEM SCHEMATIC
WS-H0504	1-0601S-G-H0504-001-01D	MECHANICAL - STEAM HEATING SYSTEM SCHEMATIC
WS-H0508	1-0601S-G-H0508-001-01D	MECHANICAL - HEATING SCHEMATIC - HOT WATER BOILERS
WS-H0509	1-0601S-G-H0509-001-01D	MECHANICAL - WEST HYDRONIC SCHEMATIC - BUILDING HEATING
WS-H0510	1-0601S-G-H0510-001-01D	MECHANICAL - EAST HYDRONIC SCHEMATIC - BUILDING HEATING
WS-H0511	1-0601S-G-H0511-001-01D	MECHANICAL - HYPO BLDG HYDRONIC SCHEMATIC - BUILDING HEATING
WS-H0512	1-0601S-G-H0512-001-01D	MECHANICAL - PROCESS HOT WATER HEATING SCHEMATIC - DOMESTIC HOT WATER HEATING SCHEMATIC
WS-H0513	1-0601S-G-H0513-001-01D	MECHANICAL - FERRIC CHLORIDE ROOM - HEATING AND VENTILATION SYSTEM SCHEMATIC
WS-H0514	1-0601S-G-H0514-001-01D	MECHANICAL - SULPHURIC ACID ROOM - HEATING AND VENTILATION SYSTEM SCHEMATIC
WS-H0515	1-0601S-G-H0515-001-01D	MECHANICAL - SODIUM HYDROXIDE ROOM - HEATING AND VENTILATION SYSTEM SCHEMATIC
WS-H0516	1-0601S-G-H0516-001-01D	MECHANICAL - AQUA AMMONIA ROOM - HEATING AND VENTILATION SYSTEM SCHEMATIC



<b><u>Consultant Drawing No.</u></b>	<b><u>City Drawing No.</u></b>	<b><u>Drawing Title</u></b>
WS-H0517	1-0601S-G-H0517-001-01D	MECHANICAL - ELECTRICAL ROOM - HEATING, COOLING AND VENTILATION SCHEMATIC
WS-H0518	1-0601S-G-H0518-001-01D	MECHANICAL - CONTROL ROOM - HEATING, COOLING AND VENTILATION SCHEMATIC
WS-H0519	1-0601S-G-H0519-001-01D	MECHANICAL - RAILCAR SHELTER - HEATING & VENTILATION SYSTEM SCHEMATIC
WS-H0520	1-0601S-G-H0520-001-01D	MECHANICAL - HEAT TRACING SCHEMATICS
WS-H0521	1-0601S-G-H0521-001-01D	MECHANICAL - COMPRESSED AIR SYSTEM - PROCESS AND INSTRUMENTATION DIAGRAM
WS-P0001	1-0601S-G-P0001-001-01D	PROCESS - BULK SULPHURIC ACID OFFLOADING AND STORAGE - PROCESS AND INSTRUMENTATION DIAGRAM
WS-P0004	1-0601S-G-P0004-001-01D	PROCESS - BULK FERRIC CHLORIDE OFFLOADING AND STORAGE - PROCESS AND INSTRUMENTATION DIAGRAM
WS-P0005	1-0601S-G-P0005-001-01D	PROCESS - FERRIC CHLORIDE FEED SYSTEM 1 OF 3 - PROCESS AND INSTRUMENTATION DIAGRAM
WS-P0006	1-0601S-G-P0006-001-01D	PROCESS - FERRIC CHLORIDE FEED SYSTEM 2 OF 3 - PROCESS AND INSTRUMENTATION DIAGRAM
WS-P0008	1-0601S-G-P0008-001-01D	PROCESS - SODIUM HYDROXIDE OFFLOADING AND STORAGE - PROCESS AND INSTRUMENTATION DIAGRAM
WS-P0012	1-0601S-G-P0012-001-01D	PROCESS - BULK AMMONIA OFFLOADING AND STORAGE - PROCESS AND INSTRUMENTATION DIAGRAM
WS-E0513	1-0601S-H-E0513-001-01D	ELECTRICAL - SCHEMATICS