

<b>Project:</b> Iron Bridge SMPEI Process Plant Construction – Dry Plant		<b>FMG Document No:</b> 662NSC2002-2000-IT-QA-0028		<b>Document No:</b> C292-QU-ITP-0028		<b>Revision:</b> 1			
<b>Project No:</b> C292		<b>Contract No:</b> 662NSC2002-0000-CO-CP-0002		<b>Prepared By:</b> F.Fernandez		<b>Approved By:</b> W. Bradshaw			
<b>Scope:</b> Product Baghouse Installation				<b>Workpack / Area:</b>					
<b>Control Point</b>	H = Hold Point (Work must not proceed to the next step until this activity is completed and a signature obtained); W = Witness Point (Notify to permit witness, work can proceed if witness does not attend at agreed time); S = Surveillance (Monitor operations / surveillance of activity); R = Review Documentation (Sign to record review);								
<b>Resp. Person</b>	QC - Quality Inspector; PE - Project Engineer; CQR - Client Quality Representative; CI - Coating Inspector; PM - Project Manager; SS - Site Supervisor; DC - Dimension Checker; WE - Welding Engineer; PP - Pre-processing Personnel								
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						CIVMEC	FMG	3rd Party	
<b>1 Submission / Approval of Documentation</b>									
1.1	Product Baghouse Installation Inspection & Test Plan Approved	662NSC2002-2000-SW-CN-0002_4 100-SP-QA-0001_1	662NSC2002-2000-SW-CN-0002_4 Cl. 10.3 100-SP-QA-0001_1 Cl. 2.3	Approved ITP	QC / PE	R	H / R		
1.2	Ensure Manufacturer's Installation Instructions and Manuals Have Been Provided with Equipment	100-SP-ME-0002 IFC Drawings Vendor P2019 Documentation	100-SP-ME-0002 CL3.3	Manufacturer's Installation Instructions	SS / PE	R	R		
1.3	Approved Lift Studies For Critical Lifts	100-PR-SA-1036_5	100-PR-SA-1036_5 Cl. 3.4	Approved Lift Study	SS / PE	H / R	H / R		
<b>2 Materials</b>									
2.1	Inspect Supplied and Free-Issued Mechanical Components for the Following: • Equipment Identification & Nameplate; • Conformance to Specification and Drawings; • Damaged or Missing Components; and • Review Material Certification and Material Traceability Records.  NOTE: Non-Conforming Materials Shall be Segregated, Quarantined and a Dilapidation Report Completed.	662NSP2019-0000-IM-QA-0005_1 100-SP-ME-0002_0	662NSP2019-0000-IM-QA-0005_1 100-SP-ME-0002_0	Delivery Dockets Material Certificates Dilapidation Report	SS / QC / PE	S / R	S / R		
<b>3 Calibration</b>									
3.1	Ensure All Inspection, Measuring and Testing Equipment is Calibrated Including: • Coupling Laser Alignment Tool; • Machine Levels; • Dial Gauge Indicators; and • Torque Tooling • Survey Equipment	662NSP2019-0000-IM-QA-0005_1 100-SP-ME-0002_0	100-SP-ME-0002_0 Cl. 4	Calibration Certificates Signed ITP	QC / PE	R	R		
<b>4 Acceptance of Product Baghouse Concrete Supports</b>									
4.1	Refer to Structural Steel Erection ITP 662NSC2002-2000-IT-QA-0002	100-SP-ST-0001_0 AS 4100 IFC Drawings	100-SP-ST-0001_0 Cl. 8.3 AS 4100 IFC Drawings	Signed ITP	SS / PE	H	H		
<b>5 Baghouse Support Structure Modules</b>									
5.1	Refer to Structural Steel Erection ITP 662NSC2002-2000-IT-QA-0002	100-SP-ST-0001_0 AS 4100 IFC Drawings	100-SP-ST-0001_0 Cl. 8.3 AS 4100 IFC Drawings	Signed ITP	SS	W / R	S		
<b>6 Product Baghouse Bearing Installation</b>									
6.1	Replacement of Temporary Bearings with Slide Bearing (Individual changeout)	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 Drawing AT-00503213	Plain Bearing Arrangement / Positions / Type To Match Drawing Visual Inspection	SS	W / R	W / R		
<b>7 Hopper Connections</b>									
7.1	Bolted Connections	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 Drawing AT-00503213	Photos (Hopper Pocket) Bolt Torque Record ITR	SS	W / R	W / R		
7.2	Verification of Hopper Frame for Casing Module Landing	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 Drawing AT-00503213	Survey Report	SS / PE	H	H		

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<b>8</b>	<b>Casing Module Install</b>								
8.1	Ensure Baffle Plates & guides Lifted and Rested in Suitable Location on Hopper Frame to allow installation after Casing Module Install	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	Visual Inspection	SS	H	R		
8.2	Install Casing Module 5 and Remove Temporary Stiffeners	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	Visual Inspection Survey Report	SS / PE	W / R	W / R		
8.3	Install Casing Module 4, verifying final position and Conduct Stiffener Rotation. Note: Sealing Putty to be applied to clean gas flaps at module split line prior to installation	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	Survey Report Photos Bolt Torque Record ITR	SS / PE	H / R	H / R		
<b>9</b>	<b>Casing Connections</b>								
9.1	Bolted Connections	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 S2.3.2 AT-00522194 AS1554.1	Bolt Torque Record ITR	SS / PE	W / R	W / R		
9.2	All Welded Connections Between Modules (Includes Hoppers & Casings)	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 S2.3.2 AT-00522194 AS1554.1	All Welds Verified as Present on AT-00522194 NDT Reports Mesh & Weld Sign Off	SS / PE	H	H		
9.3	Sealant and Surface treatment repairs completed	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings 100-SP-ST-0004	662NSP2019-0000-IM-QA-0005_1 S2.3.2 100-SP-ST-0004 Sect 7 Manufacturer TDS	Signed ITP Surface Treatment Repair Checksheet C292-QU-ITP-0009	SS / PE	S / R	S / R		
<b>10</b>	<b>Wear Lining</b>								
10.1	Refer to Wear Lining ITP MR371-QU-ITP-0002	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 662NSP2019-0000-IM-QA-0013_0 662NSP2019-0000-IM-QA-0014_A AT-00589985	Grout ITR Baghouse Wear Lining ITP MR371-QU-ITP-0002	SS / PE	R	R / W		
<b>11</b>	<b>Filter Head Fitout</b>								
11.1	Installation of walkways, loose steel, and removal of all lifting eyes	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	Structural Steel ITR	SS	R	S		
11.2	Installation of PulseMaster Control Units	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	Installed in Sequence as Per Drawing & Labeled Control Units	SS	R	S		
<b>12</b>	<b>Penthouse Sub-Module Pre-Assembly &amp; Installation</b>								
12.1	Pre-assembly of Penthouse Modules 6a / 6b / 6c including cladding where practicable	662NSP2019-0000-IM-QA-0005_1 662NSP2019-2510-MA-QA-0002_0 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 662NSP2019-2510-MA-QA-0002_0 IFC Vendor Drawings	Structural Steel ITR	SS	R	S		
12.3	Installation of Penthouse Modules, Interconnecting Steel, and final cladding	662NSP2019-0000-IM-QA-0005_1 662NSP2019-2510-MA-QA-0002_0 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 662NSP2019-2510-MA-QA-0002_0 IFC Vendor Drawings	Structural Steel ITR	SS	R	S		
<b>13</b>	<b>Filter Bag Installation</b>								
13.1	Verify Filter Bag Tube Cell Installed	662NSP2019-0000-IM-QA-0005_1 662NSP2019-0000-IM-QA-0001_0 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 662NSP2019-2510-IM-QA-0001_0 IFC Vendor Drawings	Vendor ITR (If Applicable)	SS	W / R	W / R		
13.2	Installation of Filter Bags & Cages Note: Filter Bag Installation May proceed Prior to Penthouse Erection	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 662NSP2019-2510-IM-QA-0001_0 IFC Vendor Drawings	Vendor ITR (If Applicable)	SS	R	S		

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<b>14</b>	<b>Vendor Piping Installation</b>								
14.1	Jet Pipe Installation	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 662NSP2019-2510-MA-QA-0002_0 IFC Vendor Drawings	Vendor ITR (If Applicable) Piping installation ITP	SS	R	S		
14.2	Interconnecting Pipe Installation	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	662NSP2019-0000-IM-QA-0005_1 IFC Vendor Drawings	Vendor ITR (If Applicable) Piping installation ITP	SS	R	S		
<b>15</b>	<b>Final Inspection</b>								
15.1	Complete Final Inspection of Installed Equipment	100-SP-ME-0002_0 662NSP2019-0000-IM-QA-0005_1 Completions / Punchlist Procedure IFC Drawings	100-SP-ME-0002_0 662NSP2019-0000-IM-QA-0005_1 IFC Drawings	Inspection Test Records Punchlist	SS / PE	R	R / W		
<b>16</b>	<b>Finalise Documentation</b>								
16.1	Redline Drawings Verified for Relevant Equipment	662NSC2002-2000-SW-CN-0002_4 100-SP-QA-0001_1	662NSC2002-2000-SW-CN-0002_4 Cl. 8.4 100-SP-QA-0001_1 Cl. 2.8	Redline Drawings	QC / PE	R	R		
16.2	Complete Construction Verification & Punchlisting	662NSC2002-2000-SW-CN-0002_4 100-SP-QA-0001_1	662NSC2002-2000-SW-CN-0002_4 Cl. 9.2 100-SP-QA-0001_1 Cl. 2.8	Approved Construction Verification Documentation Signed-off Punchlist	QC / PE	R	R		

SIGNATURE IDENTIFICATION REGISTER				
NO	NAME	SIGNATURE	POSITION TITLE	ORGANISATION
1				
2				
3				
4				
5				
6				