

Project: Iron Bridge SMPEI Process Plant Construction – Dry Plant		FMG Document No: 662NSC2002-2000-IT-QA-0004		Document No: C292-QU-ITP-0004		Revision: 1		
Project No: C292		Contract No: 662NSC2002-0000-CO-CP-0002		Prepared By: F.Fernandez		Approved By: W. Bradshaw		
Scope: Mechanical Installation (General)						Workpack / Area:		
Control Point		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);						
Resp. Person		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						
ACT No.	DESCRIPTION OF ACTIVITY	PROCEDURE / SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFYING DOCUMENTATION	RESP. PERSON	CONTROL POINT		REMARKS
						CIVMEC	CLIENT	
1 Submission / Approval of Documentation								
1.1	Submit Mechanical Installation Inspection & Test Plan for FMG Approval	662NSC2002-2000-SW-CN-0002_4 100-ST-QA-0002	662NSC2002-2000-SW-CN-0002_4 Cl. 10.3 100-ST-QA-0002 Cl. 3.3	Approved ITP	QC / PE	H / R	H	
1.2	Ensure Manufacturer's Installation Instructions and Manuals Have Been Provided with Equipment	100-SP-ME-0002_0	100-SP-ME-0002_0 Cl. 3.3	Manufacturer's Installation Instructions	SS / PE	H / R	R	
1.3	For installation involving critical lifts, submit lift study for FMG Approval	100-PR-SA-1036_5	100-PR-SA-1036_5 Cl. 3.4	Approved Lift Study	SS / PE	H / R	H*/R	Hold for critical lifts only
2 Calibration								
2.1	Ensure All Inspection, Measuring and Testing Equipment is Calibrated Including: • Coupling Laser Alignment Tool; • Machine Levels; • Dial Gauge Indicators; and • Torque Tooling • Survey Equipment	100-SP-ME-0002_0	100-SP-ME-0002_0 Cl. 4	NATA Calibration Certificates	QC / PE	R	R	
3 Materials Receipt, Inspection, Storage & Preservation								
3.1	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 an OS&D Report Completed.	100-SP-ME-0002_0 Manufacturer's Recommendation	100-SP-ME-0002_0 Manufacturer's Recommendation	Delivery Dockets Material Certificates OS&D Report	SS / QC / PE	S / R	S / R	
3.2	Store and Preserve Equipment as Per Manufacturer's Recommendation	100-SP-ME-0002_0 Manufacturer's Recommendation	100-SP-ME-0002_0 Manufacturer's Recommendation	Preservation Register	SS / QC / PE	S / R	S / R	

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4	Acceptance of Foundations Supporting Mechanical Equipment							
4.1	Inspect Concrete Foundations and Steel Structures for Conformance to the Following: • Anchor Bolts or Bolt Holes at Correct Location, Level and Alignment Relevant Drawings, Specifications and Standards; • Curing Period Satisfied and Required Concrete / Grout Strength Achieved; • Rail Alignment Complies with Relevant Drawings, Specifications and Standards; • Damage to Foundations, Structure or Anchors; and • Concrete Voids and Structure Free of Foreign Material.	100-SP-ST-0002_0 IFC Drawings Manufacturer's Recommendation	100-SP-ST-0002_0 Cl. 9.1 & 9.2 IFC Drawings Manufacturer's Recommendation	Field Inspection Records Foundations As-Built Survey Report NATA Endorsed Concrete Test Records	SS / PE	S / R	S / R	
4.2	Prepare Foundations for Installation of Equipment: • Scabble Concrete Foundation below Baseplate with Allowance for 45° Chamfer in Grout; • Steel Members Shall be Clean, Flat and Free From Burrs; • Baseplate Free From Surface Treatment UNO; and • Packers / Shims Positioned to Achieve Level and Alignment.	100-SP-ST-0002_0 IFC Drawings Manufacturer's Recommendation	100-SP-ST-0002_0 Cl. 9.2.4 & 9.2.6 IFC Drawings Manufacturer's Recommendation	Field Inspection Records	SS / PE	S / R	S / R	
5	Equipment Installation							
5.1	Install Equipment in Accordance with Manufacturer's Installation Instructions	Manufacturer's Recommendations IFC Drawings	Manufacturer's Recommendations IFC Drawings 100-SP-ME-0002 100-SP-ME-0004	Field Inspection Records	SS	S / R	S / R	
5.2	Install and Align of Associated Drives Units in Accordance with Manufacturer's Installation Instructions	Manufacturer's Recommendations IFC Drawings	Manufacturer's Recommendations IFC Drawings 100-SP-ME-0002 100-SP-ME-0004	Field Inspection Records Laser Alignment Records	SS	S / R	H	
5.3	Install Associated Hydraulic Power Units and Associated Piping in Accordance with Manufacturer's Installation Instructions	Manufacturer's Recommendations IFC Drawings	Manufacturer's Recommendations IFC Drawings 100-SP-ME-0004 100-SP-PI-0001	Field Inspection Records	SS	S / R	S / R	
5.4	Install Associated Chiller / Compressor Units in Accordance with Manufacturer's Installation Instructions	Manufacturer's Recommendations IFC Drawings	Manufacturer's Recommendations IFC Drawings 100-SP-ME-0004 100-SP-PI-0001	Field Inspection Records	SS	S / R	S / R	
5.5	Install Associated Lubrication Units and Associated Piping / Tubing in Accordance with Manufacturer's Installation Instructions	Manufacturer's Recommendations IFC Drawings	Manufacturer's Recommendations IFC Drawings 100-SP-ME-0004 100-SP-PI-0001	Field Inspection Records	SS	S / R	S / R	
6	Grouting							
6.1	Refer to Grouting ITP	C283-QU-ITP-0010	C283-QU-ITP-0010	C283-QU-ITP-0010	SS / PE	R	R	

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7	Final Inspection							
7.1	Complete Final Inspection of Installed Equipment	100-SP-ME-0001_0 100-SP-ME-0002_0 IFC Drawings	100-SP-ME-0001_0 100-SP-ME-0002_0 IFC Drawings	Field Inspection Records Punchlist	SS / PE	R	R	
8	Finalise Documentation							
8.1	Redline Drawings Verified for Relevant Equipment	662NSC2002-2000-SW-CN-0002_4 100-ST-QA-0002_1	662NSC2002-2000-SW-CN-0002_4 Cl. 10.2 100-ST-QA-0002_1 Cl. 2.8	Redline Drawings	QC / PE	R	R	
8.2	Complete Construction Verification & Punchlisting	662NSC2002-2000-SW-CN-0002_4 100-ST-QA-0002_1	662NSC2002-2000-SW-CN-0002_4 Cl. 9.1 100-ST-QA-0002_1 Cl. 2.8	Approved Construction Verification Documentation Signed-off Punchlist	QC / PE	R	H	

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