

Project: Iron Bridge SMPEI Process Plant Construction – Dry Plant		FMG Document No: 662NSC2002-2000-IT-QA-0014		Document No: C292-QU-ITP-0014		Revision: 2		
Project No: C292		Contract No: 662NSC2002-0000-CO-CP-0002		Prepared By: J. Lu		Approved By: W. Bradshaw		
Scope: Cone Crusher Installation						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, SUBCON - Subcontractor								
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 Cone Crusher Installation Inspection & Test Plan for FMG Approval	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	H / R	R	
1.2	Ensure Manufacturer's Installation Instructions and Manuals Have Been Provided with Equipment	662NSP2054-0000-IM-QA-0001_A Manufacturer's Recommendation 100-SP-ME-0002_0	662NSP2054-0000-IM-QA-0001_A Manufacturer's Recommendation 100-SP-ME-0002_0 Cl. 3.3	Manufacturer's Installation Instructions	SS / PE	H / R	R	
1.3	Submit lift studies as per FMG Lifting Procedure for FMG Review & 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	662NSP2001-2430-IM-QA-0002_0 100-SP-ME-0002_0	100-SP-ME-0002_0 Cl. 4	Calibration Certificates Signed ITP	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.	662NSP2001-2430-IM-QA-0002_0 100-SP-ME-0002_0	662NSP2001-2430-IM-QA-0002_0 100-SP-ME-0002_0	Delivery Dockets Material Certificates Dilapidation Report	SS / QC / PE	S / R	S	
3.2	Store and Preserve Equipment as Per Manufacturer's Recommendation	662NSP2001-2430-IM-QA-0002_0 100-SP-ME-0002_0	662NSP2001-2430-IM-QA-0002_0 100-SP-ME-0002_0	Signed ITP	SS / QC / PE	S	S	
4 Acceptance of Cone Crusher Support Structure								
4.1	Inspect Support Structure for Anchor Bolts or Bolt Holes at Correct Location, Level and Alignment;	662NSP2001-2430-IM-QA-0002_0 IFC Vendor Drawings 100-SP-ME-0002_0	662NSP2001-2430-IM-QA-0002_0 IFC Vendor Drawings 100-SP-ME-0002_0 Cl. 9.1 & 9.2	Foundations As-Built Survey & Acceptance	SS / PE	S / R	S	

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5	Cone Crusher Installation							
5.2	Survey & Install shims at base plate locations where required	662NSP2001-2430-IM-QA-0002_0	IFC Vendor Drawings 662NSP2001-2430-IM-QA-0002_0	Signed ITP FMG Cone Crusher ITR	SS	H	H	
5.3	Install the subframe onto the concrete foundation structure, align, survey and weld	662NSP2001-2430-IM-QA-0002_0	IFC Vendor Drawings 662NSP2001-2430-IM-QA-0002_0	Signed ITP FMG Cone Crusher ITR	SS	W	W	
5.4	Lift & Land Bottom Shell Assembly onto subframe, align, survey and bolt out	662NSP2001-2430-IM-QA-0002_0	IFC Vendor Drawings 662NSP2001-2430-IM-QA-0002_0	Signed ITP FMG Cone Crusher ITR	PE	W	H	
5.5	Install Main Shaft Assembly into Bottom Shell arrangement	662NSP2001-2430-IM-QA-0002_0 IFC Drawings	662NSP2001-2430-IM-QA-0002_0 IFC Vendor Drawings	Signed ITP FMG Cone Crusher ITR	SS	W	W	
5.7	Lift & Land Top Shell Assembly onto Bottom Shell, align, survey and bolt out	662NSP2001-2430-IM-QA-0002_0 IFC Drawings	662NSP2001-2430-IM-QA-0002_0 IFC Vendor Drawings	Signed ITP FMG Cone Crusher ITR	SS	W	W	
5.8	Install full Hopper Assembly onto Top Shell	662NSP2001-2430-IM-QA-0002_0 IFC Drawings	662NSP2001-2430-IM-QA-0002_0 IFC Vendor Drawings	Signed ITP FMG Cone Crusher ITR	SS	W	W	
5.9	Install and align Drive Motor and Coupling, shim Drive Motor if required to level, bolt out to subframe	662NSP2001-2430-IM-QA-0002_0 IFC Drawings	662NSP2001-2430-IM-QA-0002_0 IFC Vendor Drawings	Signed ITP FMG Cone Crusher ITR	SS	W	H	
5.10	Install lubrication tank and interconnecting lubrication lines	662NSP2001-2430-IM-QA-0002_0 IFC Drawings	662NSP2001-2430-IM-QA-0002_0 IFC Vendor Drawings	Signed ITP FMG Lubrication System ITR	SS	R	W	
5.11	Install grease line Piping / Tubing in Accordance with Manufacturer's Installation Instructions, Purge / Fill lines	662NSP2001-2430-IM-QA-0002_0 IFC Drawings	662NSP2001-2430-IM-QA-0002_0 IFC Vendor Drawings	Signed ITP FMG Lubrication System ITR	SS	S/R	S/R	
5.12	First Fill and Sampling Oil	662NSP2001-2430-IM-QA-0002_0	662NSP2001-2430-IM-QA-0002_0	Signed ITP FMG First Fill ITR	SS / PE	H	H	
6	Final Inspection							
6.1	Complete Final Inspection of Installed Equipment	100-SP-ME-0002_0 662NSP2001-2430-IM-QA-0002_0 IFC Drawings	100-SP-ME-0002_0 662NSP2001-2430-IM-QA-0002_0 IFC Drawings	Field Inspection Records Punchlist	SS / PE	R	R	
7	Finalise Documentation							
7.1	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	
7.2	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	H	

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SIGNATURE IDENTIFICATION REGISTER

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