

Project: Iron Bridge SMPEI Process Plant Construction – Dry Plant		Client: FMG		Document No: C292-QU-ITP-0024		Revision: 1			
Project No: C292		Contract No: 662NSC2002-0000-CO-CP-0002		Prepared By: M. Benson		Approved by: W. Bradshaw			
Scope: HPGR 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									
ACT No.	DESCRIPTION OF ACTIVITY	PROCEDURE/ SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFYING DOCUMENTATION	RESP. PERSON	CONTROL POINT			REMARKS
						CIVMEC	CLIENT	THIRD PARTY	
1 Submission/ Approval of Documentation									
1.1	Submit HPGR Installation Inpection & Test Plan for FMG Approval	662NSC2002-2000-SW-CN-0002_4 0100-SP-QA-0001_1	662NSC2002-2000-SW-CN-0002_4 Cl. 10.3 0100-SP-QA-0001_1 Cl. 2.3	Approved ITP	QC / PE	H / R	H / R		
1.2	Ensure Manufacturer's Installation Instructions and Manuals Have Been Provided with Equipment	662NSP2054-0000-IM-QA-0001_0 Manufacturer's Recommendation 100-SP-ME-0002_0	662NSP2054-0000-IM-QA-0001_0 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 Materials									
2.1	Inspect Supplied and Free-Issued Mechanical Components for the Following: <ul style="list-style-type: none"> • 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	0100-SP-ME-0002_B 662NSP2002-2460-IM-QA-0001_0	0100-SP-ME-0002_B 662NSP2002-2460-IM-QA-0001_0	Delivery Dockets Material Certificates Dilapidation Report	SS / QC / PE	S / R	S		
3 Calibration									
3.1	Ensure All Inspection, Measuring and Testing Equipment is Calibrated including* <ul style="list-style-type: none"> • Coupling Laser Alignment Tool; • Machine Levels; • Dial Gauge Indicators; and • Torque Tooling • Survey Equipment 	0100-SP-ME-0002_B 662NSP2002-2460-IM-QA-0001_0	0100-SP-ME-0002_B	Calibration Certificates Signed ITP	QC / PE	R	R		
4 Acceptance of HPGR Support Structure									
4.1	Inspect Support Structure for Anchor Bolts or Bolt Holes at Correct Location, Level and Alignment	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings 0100-SP-ST-0002_0	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings 100-SP-ST-0002_0 Cl. 9.1 & 9.2	Foundations As-Built Survey & Acceptance	SS / PE	S / R	H		
5 HPGR Installation									
5.1	Survey and install shims at base plate locations where required	662NSP2002-2460-IM-QA-0001_0	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	Signed ITP FMG HPGR ITR	SS	R	S		
5.2	Lift and Land the main HPGR main frame, bridge frame and roller displacing device onto the support structure. Align, survey and bolt out	662NSP2002-2460-IM-QA-0001_0	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	Signed ITP FMG HPGR ITR	PE	W	H		
5.3	Carry out epoxy grouting for main frame bottom section and bridge frame support	662NSP2002-2460-IM-QA-0001_0	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	ITP C292-QU-ITP-0009 Grouting	SS / PE	H	H		
5.4	Install Rollers into frame by using manual rigging gear fixed to winch assemblies on Main Frame, then close the frame	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	Signed ITP FMG HPGR ITR	SS	R	S		
5.5	Install Feed Hopper and Feeding Device onto HPGR Main Frame and bolt out	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	Signed ITP FMG HPGR ITR	SS	W	S		

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5.6	Install Torque Support (Torque Arm) onto structure and bolt out	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	Signed ITP FMG HPGR ITR	SS	W	S		
5.7	Install and align Drive Motor, Gear Box and Coupling. Shim Drive Motor if required to level, bolt out to base.	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	Signed ITP FMG HPGR ITR	SS	W	W		
5.8	Install and Level Lubrication Power Unit and secure bolts	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	FMG ITR Lubrication System	SS	R	S		
5.9	Complete hydraulic and lubrication installation as per manufacturers installation instructions	662NSP2002-2460-IM-QA-0001_0	662NSP2002-2460-IM-QA-0001_0	Signed ITP FMG HPGR ITR	SS / PE	R	S / R		
5.10	Complete lubrication system first fills and sampling	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	662NSP2002-2460-IM-QA-0001_0 IFC Vendor Drawings	FMG ITR - Lubrication System Subcontractor ITP	SUBCON	H	H		
6 Final Inspection									
6.1	Complete Final Inspection of Installed Equipment	0100-SP-ME-0002_0 0100-SP-ME-0001_0 662NSP2002-2460-IM-QA-0001_0 IFC Drawing	0100-SP-ME-0002_0 0100-SP-ME-0001_0 662NSP2002-2460-IM-QA-0001_0 IFC Drawing	Field Inspection Records Punchlists	SS / PE	R	R		

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7	Finalise Documentation								
7.1	Redline Drawings Verified for Relevant Equipment	662NSC2002-2000-SW-CN-0002_4 0100-SP-QA-0001_0	662NSC2002-2000-SW-CN-0002_4 0100-SP-QA-0001_0	Redline Drawings	QC / PE	R	R		
7.2	Complete Construction Verification & Punchlisting	662NSC2002-2000-SW-CN-0002_4 0100-SP-QA-0001_0	662NSC2002-2000-SW-CN-0002_4 0100-SP-QA-0001_0	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				