

Project: Iron Bridge SMPEI Process Plant Construction - Dry Plant		FMG Document No: 662NSC2002-2000-IT-QA-0013		Document No: C292-QU-ITP-0013		Revision: 1		
Project No: C292		Contract No: 662NSC2002-0000-CO-CP-0002		Prepared By: J. Lu		Approved By: W. Bradshaw		
Scope: Rock Breaker 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	
1 Submission / Approval of Documentation								
1.1	Submit Rock Breaker Installation Inspection & Test Plan for FMG Approval	100-ST-QA-0001_1 662NSC2002-2000-SW-CN-0002_4	662NSC2002-2000-SW-CN-0002_4 Cl. 10.3 100-ST-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	100-SP-ME-0004_2 662NSP2047-2410-IM-QA-0002_0 IOM	100-SP-ME-0004_2 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: <ul style="list-style-type: none"> • Coupling Laser Alignment Tool; • Machine Levels; • Dial Gauge Indicators; and • Torque Tooling • Survey Equipment 	100-SP-ME-0004_2 Manufacturer's Recommendation	100-SP-ME-0004_2 Cl. 4	Calibration Certificates	QC / PE	R	R	
3 Materials Receipt, Inspection, Storage & Preservation								
3.1	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 an OS&D Report Completed.	100-SP-ME-0004_2 Manufacturer's Recommendation	100-SP-ME-0004_2 662NSP2047-2410-IM-QA-0002_0 IOM	Delivery Dockets Material Certificates OS&D Report	SS / QC / PE	S / R	S	
3.2	Store and Preserve Equipment as Per Manufacturer's Recommendation	100-SP-ME-0004_2 Manufacturer's Recommendation	100-SP-ME-0004_2 662NSP2047-2410-IM-QA-0002_0 IOM	Preservation Register	SS / QC / PE	S	S	
4 Acceptance of Rock Breaker Concrete Foundation								
4.1	Inspect Concrete Foundation for Anchor Bolts or Bolt Holes at Correct Location, Level and Alignment;	100-SP-CI-0003_0 IFC Drawings Manufacturer's Recommendation	100-SP-CI-0003_0 Cl. 10.10 IFC Drawings 662NSP2047-2410-IM-QA-0002_0 IOM	Field Inspection Records Foundations As-Built Survey	SS / PE	S / R	S	
4.2	Prepare Concrete Foundation for Installation of Rockbreaker: <ul style="list-style-type: none"> • U/S of Rockbreaker, Concrete Foundation and Bolt Pockets Cleaned; and • Packers / Shims Positioned to Achieve Level and Alignment. 	100-SP-CI-0003_0 IFC Drawings Manufacturer's Recommendation	100-SP-CI-0003_0 Cl. 10.10 IFC Drawings 662NSP2047-2410-IM-QA-0002_0 IOM	Rockbreaker ITR Survey Report	SS / PE	H	H / R	

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5 Rockbreaker Installation								
5.1	Align and install Rockbreaker assembly	Manufacturer's Recommendations IFC Drawings	662NSP2047-2410-IM-QA-0002_0 IOM IFC Drawings	Rockbreaker ITR	SS	S / R	S	
5.2	Carry out epoxy grouting at connection joint	Manufacturer's Recommendations IFC Drawings	662NSP2047-2410-IM-QA-0002_0 IOM IFC Drawings	Grouting ITR	SS	H / R	H / R	
5.3	Install Hydraulic Power Pack and Associated Piping in Accordance with Manufacturer's Installation Instructions	Manufacturer's Recommendations IFC Drawings	662NSP2047-2410-IM-QA-0002_0 IOM IFC Drawings	Hydraulic System ITR	SS	S / R	S	
5.4	Carry out flushing, purging and first fill of Hydraulic System	Manufacturer's Recommendations 751EW-0100-SP-ME-0002	751EW-0100-SP-ME-0002 Cleanliness class: ISO 4406 class 18/16/13	Flushing Report, First Fill Records	SS	S / R	W / R	
5.5	Install grease line Piping / Tubing in Accordance with Manufacturer's Installation Instructions, Purge / Fill lines	Manufacturer's Recommendations IFC Drawings	662NSP2047-2410-IM-QA-0002_0 IOM IFC Drawings	Lubrication System ITR First Fill records	SS	S / R	W / R	
6 Final Inspection								
6.1	Complete Final Inspection of Installed Equipment	100-SP-ME-0002_0 100-SP-ME-0004_2 Manufacturer's Recommendations IFC Drawings	100-SP-ME-0002_0 100-SP-ME-0004_2 662NSP2047-2410-IM-QA-0002_0 IOM IFC Drawings	Field Inspection Records Punchlist	SS / PE	R	R	
7 Finalise Documentation								
7.1	Redline Drawings Verified for Relevant Equipment	100-ST-QA-0001_1 662NSC2002-2000-SW-CN-0002_4	100-ST-QA-0001_1 Cl. 2.8 662NSC2002-2000-SW-CN-0002_4 Cl. 10.2	Redline Drawings	QC / PE	R	R	
7.2	Complete Construction Verification & Punchlisting	100-ST-QA-0001_1 662NSC2002-2000-SW-CN-0002_4	100-ST-QA-0001_1 Cl. 2.8 662NSC2002-2000-SW-CN-0002_4 Cl. 9.1	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				