

Project: Iron Bridge SMPEI Process Plant Construction - Dry Plant	FMG Document No: 662NSC2002-2000-IT-QA-0015	Document No: C292-QU-ITP-0015	Revision: 1
Project No: C292	Contract No: 662NSC2002-0000-CO-CP-0002	Prepared By: W. He	Approved By: W. Bradshaw

Scope: Isolation Gate 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 Isolation Gate 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	H / R	
1.2	Ensure Manufacturer's Installation Instructions and manuals Have Been Provided with Equipment	100-SP-ME-0004_2 Manufacturer's Recommendation	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
1.4	Verify Structural FIC's for Supporting Structure are Signed Off	IFC Drawings 662NSP2010-0000-IM-QA-0001_0	IFC Drawings 662NSP2010-0000-IM-QA-0001_0	Structural ITR's	SS/PE	R	R	
2	Calibration							
2.1	Ensure All Inspection, Measuring and Testing Equipment is Calibrated Including but not limited to: <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 Signed ITP	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 662NSP2010-0000-IM-QA-0001_0	Delivery Dockets Material Certificates OS&D Report	SS / QC / PE	S / R	S	
4	Isolation Gate Installation							
4.1	Bolt Isolation gate to bin/chute, Level and Align	662NSP2010-0000-IM-QA-0001_0	IFC Vendor Drawings 662NSP2010-0000-IM-QA-0001_0	Signed ITP FMG Isolation Gate ITR C1-ME-ITR-064	SS	R	S/R	
4.2	Install hydraulic power unit and valve station	662NSP2010-0000-IM-QA-0001_0	IFC Vendor Drawings 662NSP2010-0000-IM-QA-0001_0	Signed ITP FMG Isolation Gate ITR C1-ME-ITR-064	SS / PE	R	S/R	
4.3	Install hydraulic and lubrication unit and associated piping	662NSP2010-0000-IM-QA-0001_0	IFC Vendor Drawings 662NSP2010-0000-IM-QA-0001_0	FMG ITR - Lubrication System Subcontractor ITP C1-PI-ITR-068	SS / PE	W	S	
4.4	Carry out Hydrotesting	662NSP2010-0000-IM-QA-0001_1	IFC Vendor Drawings 662NSP2010-0000-IM-QA-0001_1	Hydrotest Report C1-PI-ITR-008	SS / PE	W	H	
4.5	Carry out flushing and first fills	662NSP2010-0000-IM-QA-0001_0	IFC Vendor Drawings 662NSP2010-0000-IM-QA-0001_0	Flushing Report, First Fill Records C1-PI-ITR-007	SS / PE	W	H	

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						CIVMEC	CLIENT	
5	Final Inspection							
5.1	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 662NSP2010-0000-IM-QA-0001_0 IOM IFC Drawings	Field Inspection Records Punchlist	SS / PE	R	R	
6	Finalise Documentation							
6.1	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	
6.2	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	

SIGNATURE IDENTIFICATION REGISTER

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