

Project: Iron Bridge SMPEI Process Plant Construction – Dry Plant		FMG Document No: 662NSC2002-2000-IT-QA-0027		Document No: C292-QU-ITP-0027		Revision: 0		
Project No: C292		Contract No: 662NSC2002-0000-CO-CP-0002		Prepared By: C. Unsworth		Approved By: W. Bradshaw		
Scope: Air Classifier Installation				Workpack / Area: WP-2512-ME-0001 - Static & Dynamic Air Classifiers				
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						CIVMEC	CLIENT	
1 Submission / Approval of Documentation								
1.1	Submit Static and Dynamic Air Classifier 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	662NSP2003-2510-IM-QA-0002_0 through 662NSP2003-2510-IM-QA-00012_0 100-SP-ME-0004_0	100-SP-ME-0004_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-0004_0 662NSP2003-2510-IM-QA-0004_0 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_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-0004_0 662NSP2003-2510-IM-QA-0004_0 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0 662NSP2003-2510-IM-QA-0002_0	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-0004_0 662NSP2003-2510-IM-QA-0004_0 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0 662NSP2003-2510-IM-QA-0002_0	Signed ITP	SS / QC / PE	S / R	S / R	

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4	Acceptance of Air Classifier Support Structure							
4.1	Prepare Structure for Installation of Equipment: • 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 662NSP2003-2510-IM-QA-0004_0 662NSP2003-2510-IM-QA-0002_0	100-SP-ST-0002_0 Cl. 9.1 & 9.2 IFC Drawings Manufacturer's Recommendation	C1-ME-ITR-162	SS / PE	S / R	S / R	
5	Static Air Classifier Installation							
5.01	Wear plates are all installed and tightened	IFC Drawings 662NSP2003-2510-IM-QA-0004_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0	C1-ME-ITR-162 Field Inspection Records	SS	H / R	H / R	
5.02	Separator Housing is aligned to structure and securely fixed with correct packers	IFC Drawings 662NSP2003-2510-IM-QA-0004_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0	C1-ME-ITR-162 Survey Report Field Inspection Records	SS / PE	W / R	W / R	
5.03	Installation of guide elements, air guide plates & flaps	IFC Drawings 662NSP2003-2510-IM-QA-0004_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0	C1-ME-ITR-162 Field Inspection Records	SS	W / R	W / R	
5.04	Installation of Inlet channel & Inlet hood installed with 6mm Fibreglass rope gasket	IFC Drawings 662NSP2003-2510-IM-QA-0004_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0	C1-ME-ITR-162 Field Inspection Records	SS	W / R	W / R	
5.05	Installation of Outlet channel and securely fixed with 6mm Fibreglass rope gasket	IFC Drawings 662NSP2003-2510-IM-QA-0004_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0	C1-ME-ITR-162 Survey Report Field Inspection Records	SS / PE	W / R	W / R	
5.06	Installation of the Riser Duct (square to round and expansion joint) piece with 6mm Fibreglass rope gasket between each flange. The correct pre-tension of expansion joint in accordance with Manufacturer's Installation Instructions.	IFC Drawings 662NSP2003-2510-IM-QA-0004_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0	C1-ME-ITR-162 Field Inspection Records Survey Report	SS / PE	S / R	S / R	
5.07	Sqaure to round distance piece has been trimmed to length and installed as per manufacturers recommendation	IFC Drawings 662NSP2003-2510-IM-QA-0004_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0	C1-ME-ITR-162 Field Inspection Records	SS	S / R	S / R	
5.08	Kalcret has been applied to Static Air Classifier modules	IFC Drawings 662NSP2003-2510-IM-QA-0004_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0004_0	C1-ME-ITR-162 MR371-QU-ITP-0001_0	SS	H / R	W / R	
6	Dynamic Air Classifier Installation							
6.01	Installation of Lower Housing Tank Section to riser duct with sealing tape	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS	S / R	S / R	
6.02	Installation of Guard plate, coarse material pipe, connection piece and pendulum flap.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS	S / R	S / R	
6.03	Installation of the Lower Housing Cone Section with correct packers installed. Final bolt out and alignment of the upper flange.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS / PE	W / R	W / R	

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6.04	Weld lower housing tank to the lower housing cone section complying with IFC documentation and welding procedures.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS / PE	W / R	W / R	
6.05	Installation of the Upper Housing Section into position. Bolt up as per manufacturer's IOM.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS	S / R	S / R	
6.06	Mount the guide vanes brackets & guide vanes into position. Confirm direction of rotation of the cage wheel and set static guide vanes to default "35deg" position	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS	S / R	H / R	
6.07	Set the cage wheel & outlet head on cans. Ensure outlet head is set up with a minimum clearance of 1.7m. Ensure surfaces on cans are to be flat and true.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Survey report	SS / PE	W / R	S / R	
6.08	Lift Drive Shaft (bearing) into the outlet head and bolt up as per Vendors IOM. Alignment in accordance with FMG mechanical specification.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS / PE	W / R	W / R	
6.09	Confirm Levelness and install shaft into barrel	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS / PE	W / R	H / R	
6.10	Mount gearbox and drive coupling onto outlet head.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS	S / R	S / R	
6.11	Lift pre-assembled outlet head with installed bearing onto cage wheel and fix the outlet head using the shaft locking nut. Cage wheel has been verified as being in the correct orientation.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS / PE	H / R	H / R	
6.12	Lift the pre-assembled outlet head/cage wheel into the separator housing.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS / PE	S / R	S / R	
6.13	Install, level and bolt out Drive Frame	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0 level to be within 0.4mm/m	C1-ME-ITR-163 Field Inspection Records	SS / PE	W / R	H / R	
6.14	Installation of Drive unit as per manufactures recommendations.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0 662NSP2003-2510-IM-QA-0007_0	C1-ME-ITR-163 C1-ME-ITR-060 C1-ME-ITR-061 Field Inspection Records	SS / PE	H / R	H / R	
6.15	Alignment of gearbox coupling as per FMG's mechanical specification.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0 662NSP2003-2510-IM-QA-0006_0	C1-ME-ITR-163 Laser Alignment records	SS / PE	W / R	S / R	
6.16	Final alignment of driveshaft ensuring the driveshaft is vertical as per FMG's mechanical specification. Re-tighten eye bolts as per manufactures IOM's.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Laser Alignment records	SS / PE	H / R	H / R	
6.17	Installation of roof platform with welds complying with the applicable welding procedures and IFC drawings.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS / QC	S / R	S / R	
6.18	Adjustment of the upper housing sealing gap, installation of sealing ring and fit dip tube segments as per manufactures IOM's.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS / PE	W / R	W / R	
6.19	Confirm Lubrication lines have been purged , secured to prevent chafing or rubbing.	IFC Drawings 662NSP2003-2510-IM-QA-0002_0	100-SP-ME-0004_0 662NSP2003-2510-IM-QA-0002_0	C1-ME-ITR-163 Field Inspection Records	SS / PE	S / R	S / R	

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7	Final Inspection							
7.1	Complete Final Inspection of Installed Equipment	100-SP-ME-0001_0 100-SP-ME-0004_0 IFC Drawings	100-SP-ME-0001_0 100-SP-ME-0004_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 / R	

SIGNATURE IDENTIFICATION REGISTER

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