



PROJECT: Feasibility Study Howse Deposit Project
 CLIENT: Tata Steel Minerals Canada
 PROJECT: 2014-049

MECHANICAL EQUIPMENT LIST HOWSE DEPOSIT DSO PLANT

Revision	Purpose of Issue	Date	Prepared by	Checked by	Approved by
A	Issued for final report	17/09/2015	E. Pengel, P.Eng.	W. Shadeed, ing.	André Boilard, ing.

Rev. No.	Equipment Number	Area	Equip. Code	Seq. #	Pkg Number	Equipment Name	Qty	Description / Model / Size	Supplier	Motor Status	Installed kW	In Operation kW	Emergency	Motor Type	Weight (kg)	Drawing No.	Remarks
A	150-CHU-12	150	CHU	12	4226	Discharge chute	1	Dryer #1 dust collector discharge chute	Met-Chem Database	No motor	0.0	0.0				A1-2014-049-0201-F	
A	150-CVO-03	150	CVO	03	4370	Dryer #2 feed conveyor	1	900mm W x 10m L x 0m vertical lift	B.I.D. Canada Ltd	Operating	7.5	7.5				A1-2014-049-0202-F	
A	150-BSC-02	150	BSC	02	4441	Belt scale	1	Dryer #2 feed conveyor belt scale	Met-Chem Database	No motor	0.0	0.0				A1-2014-049-0202-F	110 V connection required
A	150-CHU-20	150	CHU	20	4370	Dryer #2 feed chute	1	Dryer #2 feed chute	B.I.D. Canada Ltd	No motor	0.0	0.0				A1-2014-049-0202-F	
A	150-BUR-02	150	BUR	02	4212	Dryer #2 burner	1	Diesel fuel burner rated at maximum capacity of 1166 GJ/hour	Metso	Operating	0	0				A1-2014-049-0202-F	
A	150-AHE-02	150	AHE	02	4212	Air heater	1	Air heater	Metso	Operating	5	5				A1-2014-049-0202-F	
A	150-FAN-03	150	FAN	03	4212	Dryer #2 combustion air fan	1	Dryer #2 combustion air fan	Metso	Operating	125	125				A1-2014-049-0202-F	
A	150-FAN-06	150	FAN	06	4212	Dryer #2 dilution air fan	1	Dryer dilution air fan	Metso	Operating	50	50				A1-2014-049-0202-F	
A	150-DRY-02	150	DRY	02	4212	Rotary dryer #2	1	4.3m diameter x 26m long type rotary drum dryer	Metso	Operating	750	750				A1-2014-049-0202-F	VFD by electrical
A	150-CHU-21	150	CHU	21	4226	Dryer #2 Discharge chute	1	Dryer discharge chute	Met-Chem Database	No motor	0.0	0.0				A1-2014-049-0202-F	
A	150-OSA-02	150	OSA	02	4573	Online stream moisture analyzer	1	Online stream microwave moisture analyzer on dryer #2 discharge	Scantech International	Operating	3.7	3.7				A1-2014-049-0202-F	
A	150-DUC-02	150	DUC	02	4212	Dryer #2 dust collector	1	Multi-module pulse jet dust collector with carbon steel construction	Metso	No motor	0	0				A1-2014-049-0202-F	
A	150-FAN-04	150	FAN	04	4212	Exhaust fan #2	1	Dust collector fan	Metso	Operating	300	300				A1-2014-049-0202-F	
A	150-SCC-02	150	SCC	02	4212	Screw conveyor #2	1	Orthman Screw Conveyor	Metso	Operating	10	10				A1-2014-049-0202-F	
A	150-ROA-02	150	ROA	02	4212	Rotary valve #2	1	Meyer 12" x 12" HDX Rotary Air Lock (rotating valve)	Metso	Operating	10	10				A1-2014-049-0202-F	
A	150-CHU-22	150	CHU	22	4226	Discharge chute	1	Dryer #2 dust collector discharge chute	Met-Chem Database	No motor	0.0	0.0				A1-2014-049-0201-F	
A	150-CVO-05	150	CVO	05	4370	Dryer discharge conveyor	1	900mm W x 16m L x 2.5m vertical lift	B.I.D. Canada Ltd	Operating	19	19				A1-2014-049-0202-F	
A	150-CHU-31	150	CHU	31	4370	Discharge chute	1	Dryer discharge conveyor discharge chute	B.I.D. Canada Ltd	No motor	0.0	0.0				A1-2014-049-0202-F	
A	100-COM-01	100	COM	01	4125	Crushing area air compressor	1	GA18P-100-60 TM or equivalent	Met-Chem Database	Operating	25.0	25.0				A1-2014-049-0201-F	
A	100-AFI-01	100	AFI	01	4125	Air filter	1	Crusher compressor air filter	Met-Chem Database	No motor	0.0	0.0				A1-2014-049-0201-F	
A	100-ADR-01	100	ADR	01	4125	Crushing area air dryer	1	Heat less desiccant air dryer CD60 or equivalent	Met-Chem Database	No motor	0.0	0.0				A1-2014-049-0201-F	
A	100-ARE-01	100	ARE	01	4125	Crushing area air receiver	1	500 gallon vertical ASME air receiver	Met-Chem Database	No motor	0.0	0.0				A1-2014-049-0201-F	
A	100-DUC-01	100	DUC	01	6600	Crushing area dust collector	1	Pulse jet baghouse dust collector SPJ-640-4T10 , surface area 7539 ft ²	Rate Technology System	No motor	0.0	0.0				A1-2014-049-0201-F	
A	100-FAN-02	100	FAN	02	6600	Dust collector exhaust fan	1	Dust collector fan 83,000 CFM Twin City Fan Model BCS 660	Rate Technology System	Operating	224	224				A1-2014-049-0201-F	
A	100-SCC-01	100	SCC	01	6600	Dust collector screw conveyor	1	Orthman Screw Conveyor 12-inch Dia. x 16-ft long	Rate Technology System	Operating	5.6	5.6				A1-2014-049-0201-F	
A	100-ROA-01	100	ROA	01	6600	Dust collector rotary valve	1	Meyer 12" x 12" HDX Rotary Air Lock (rotating valve)	Rate Technology System	Operating	1.1	1.1				A1-2014-049-0201-F	
A	100-CHU-32	100	CHU	32	4226	Discharge chute	1	Crushing Area dust collector discharge chute	Met-Chem Database	No motor	0.0	0.0				A1-2014-049-0201-F	

SUMMARY																	
		100				Crushing and Screening - Area 100	58										
		150				Drying - Area 150	36										