



PARTS LIST							
SHIPPING NUMBER	FIND OR MARK NO.	QUANTITY REQ'D TO SHIP	PER ASSY	TOTAL REQ'D	CIRCUIT SYMBOL	DESCRIPTION	MATL/REMARKS
834-10		2				HOPPER HEATER CONTROL PANEL	
1		1	2			ENCLOSURE, NEMA 4, 48"X37.38"X12"	HOFFMAN A-48HS3712LP OR EQ
2		1	2			BACK PANEL, 45"X33"	HOFFMAN A-48P36 OR EQUAL
3		1	2			FLOOR STAND KIT (24")	HOFFMAN AFK2412 OR EQUAL
4		1	2		PDB	POWER DISTRIBUTION BLOCK	ALLEN-BRADLEY 1492-PD31123 OR EQ
5		1	2		T1	TRANSFORMER, 1000VA 480-120V	SQUARE D TF1000D1 OR EQ
6		2	4		FU1-FU2	FUSE, 4A, 600V	BUSSMAN FNQR-4 OR EQ
7		1	2		FU3	FUSE, 10A, 250V	BUSSMAN FNM-10 OR EQ
8		10	20		TC1-TC10	TEMPERATURE CONTROLLER	WATLOW PM6C1EJ-AAAAA
9		10	20		C1-C10	CONTACTOR	SQUARE D DPA23V02 OR EQ
11		10	20		FB1-FB10	FUSE BLOCK	SQUARE D DFCC3 OR EQ
12		30	60		FU4-FU33	FUSE, 15A, 600V CLASS CC	BUSS FNQR-15 OR EQ
13		AS REQ'D				WIRING DUCT 1.5WX3H, 2WX3H	PANDUIT OR EQUAL
14		AS REQ'D				WIRING DUCT COVER	PANDUIT OR EQUAL
15		66	132		TB2-TB3	TERMINAL BLOCK	WEIDMULLER SAK 6 (OR EQUAL)
16		AS REQ'D			TB1-TB3	MOUNTING RAIL (RAISED)	WEIDMULLER OR EQUAL
17		2	4		TB2-TB3	END SECTION	WEIDMULLER OR EQUAL
18		4	8		TB2-TB3	END STOP	WEIDMULLER OR EQUAL
19		-	-				
21		1	2			METAL BARRIER	PANEL VENDOR
22		1	2		GB	GROUND BUS	ILSCO NB-350-24
23		1	2			INTERIOR LIGHT	HOFFMAN A-LTMB1 OR EQ
24		1	2			NAMEPLATE DETAIL B	PANEL VENDOR
25		10	20			NAMEPLATES DETAIL C (SEE NOTE 4)	PANEL VENDOR
26		28	56			LABELS DETAIL D	PANEL VENDOR
27		1	2		DS	DISCONNECT SWITCH 600V, 200A	ABB OT200U30 OR EQ
28		1	2		DS	SWITCH FLANGE HANDLE (INTRLK W/ DOOR)	ABB OHF1C4 OR EQ
29		1	2		DS	SWITCH CABLE	ABB OXC1L36 OR EQ
31		1	2		DS	SWITCH OPERATING MECHANISM	ABB MKCS4 OR EQ
32		1	2		DS	SWITCH TERMINAL LUG KIT	ABB OZXA-200 OR EQ
33		1	2		DS	SWITCH DOOR HARDWARE	ABB KDH3R OR EQ
34		11	22		TB1	TERMINAL BLOCK (DUAL) TYPE K TC	WEIDMULLER SAK 2.6K
35		11	22		TB1	TERMINAL BLOCK - GROUNDING	WEIDMULLER SAK 5 (OR EQUAL)
36		1	2		TB1	END SECTION	WEIDMULLER OR EQUAL
37		2	4		TB1	END STOP	WEIDMULLER OR EQUAL
38		1	2		GFCI	GFCI RECEPTACLE	PANEL VENDOR
39							

- NOTES:
- SEE SHEET 2 FOR BACK PANEL LAYOUT AND MK. 26 LABEL LIST.
 - REFERENCE DRAWING D835 FOR HOPPER HEATER CONTROL PANEL SCHEMATIC DIAGRAM.
 - HOPPER HEATER CONTROL PANEL TO MEET NEMA 4 STANDARDS.
 - TEMPERATURE CONTROLLERS ON DOORS TO BE LABELED BOTH ON FRONT AND BACK OF DOOR.
 - THE TEMPERATURE CONTROLLERS (MARK 8) SHALL BE PRE-PROGRAMMED BY THE PANEL MANUFACTURER WITH THE "CONTROL" AND "ALARM" SET-POINTS AS SHOWN ON DRAWING D835.

metso 3430 Taringdon Way
Charlotte, NC 28277
(704) 541-1453

REVIEWED - WITH COMMENTS
 REVIEWED - WITHOUT COMMENTS
 SUBMIT CERTIFIED - RELEASED FOR FABRICATION
 REJECTED - RESUBMIT
 CERTIFIED ACCEPTED

SIGNED: *Phil Bid* DATE: 1-May-2012

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RECEIVED DATE: Apr 11, 2012

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CLYDE BERGMANN INC

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METSO POWER INC.
METSO PROJECT 190020 GREC
GAINESVILLE, FL

HOPPER HEATER CONTROL PANEL
GENERAL ARRANGEMENT

REV.	ZONE	DESCRIPTION	APP'D	DATE	REV.	ZONE	DESCRIPTION	APP'D	DATE	APPROVED	SCALE:	REV.
					2	-	ADDED CUSTOMER'S EQUIPMENT NUMBER TO NAMEPLATE, DETAIL "B". ADD NOTE 5. CERTIFY.			PTK	4/9/12	DRAWN
					1	-	REVISED MARK NO 11 AND 12			PTK	2/16/12	CHECKED
					0	-	INITIAL ISSUE			PTK	11-29-11	APPROVED