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North State Hulling HP List

Inside Equipment

Motor #	Vendor	Type of Motor/ What it Runs	# of Drives	HP of Each Drive	VFD or Soft Start	Notes
PBB-1 A	AB Fab	Airlock ABFT-24	2	5	No	Start 1, Shut Down 4 (Any equipment below the airlock abft-24 (auger, etc.) start before the airlock and shut off after airlock)
PBB-1 B	AB Fab	Baghouse Cleaning Arm	2	1	No	Start 2, Shut Down 3
PBB-1 C	AB Fab	Baghouse Cleaning Fan	2	25	No	Start 3, Shut Down 2
PBB-1 D	AB Fab	Fan	2	200	Soft Start	Start 4, Shut Down 1 (After shut down of fan put a 5 minute delay before shutting down the cleaning fan)
PBB-2 A	AB Fab	Air System	2	5	No	Start 1, Shut Down 4 (Any equipment below the airlock abft-24 (auger, etc.) start before the airlock and shut off after airlock)
PBB-2 B	AB Fab	Baghouse Cleaning Arm	2	1	No	Start 2, Shut Down 3
PBB-2 C	AB Fab	Baghouse Cleaning Fan	2	25	No	Start 3, Shut Down 2
PBB-2 D	AB Fab	Fan	2	200	Soft Start	Start 4, Shut Down 1 (After shut down of fan put a 5 minute delay before shutting down the cleaning fan)
H8	AB Fab	Aspirator	2	0.25	No	
	AB Fab	Aspirator	2	1.5	No	

H9	AB Fab	Aspirator	2	0.25	No	
	AB Fab	Aspirator	2	1.5	No	
H15	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
H23	AB Fab	Aspirator	4	0.25	No	
	AB Fab	Aspirator	4	1.5	No	
H24	AB Fab	Aspirator	4	0.25	No	
	AB Fab	Aspirator	4	1.5	No	
H35	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
H37	AB Fab	Aspirator	4	0.25	No	
	AB Fab	Aspirator	4	1.5	No	
H38	AB Fab	Aspirator	4	0.25	No	
	AB Fab	Aspirator	4	1.5	No	
H43	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
H45	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
H47	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
H48	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
S4	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
S5	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
M9	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
M10	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
M31	AB Fab	Aspirator	2	0.25	No	
	AB Fab	Aspirator	2	1.5	No	
M38	AB Fab	Aspirator	2	0.25	No	
	AB Fab	Aspirator	2	1.5	No	
M43C	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
M43D	AB Fab	Aspirator	6	0.25	No	
	AB Fab	Aspirator	6	1.5	No	
P-3A	Amsler	Stick Reel	1	5	May need a VFD but is not included	
P-3B	Amsler	Stick Reel	1	5	May need a VFD but is not included	
M7	Annex	Elevator	1	1.5	A VFD/Soft start is not necessary but it is recommended. (These are not included with the elevators)	

M11	Annex	Elevator	1	1.5	A VFD/Soft start is not necessary but it is recommended. (These are not included with the elevators)	
M15	Annex	Elevator	1	1.5	A VFD/Soft start is not necessary but it is recommended. (These are not included with the elevators)	
M20	Annex	Elevator	1	1.5	A VFD/Soft start is not necessary but it is recommended. (These are not included with the elevators)	
M29	Annex	Elevator	1	1.5	A VFD/Soft start is not necessary but it is recommended. (These are not included with the elevators)	
H7	BM&M	BM&M stage 1	1	15		
H22	BM&M	BM&M Stage 2	1	15		
H36	BM&M	BM&M stage 3	1	10		
H46	BM&M	BM&M Stage 4	1	15		
M8	BM&M	Gyratory Shaker	1	10		
S3	Cleveland	Vibratory feed pan	2	3	We recommend a single VFD or magnetic starter (not soft start) with dual overload protection per our proposa	Both drives need to start simultaneously
P-8B2	Forsberg	P10 Destoner	1	2	No VFD or soft starts are required	Start First
	Forsberg	Rotary Feeder	1	3/4	No VFD or soft starts are required	Start Second
S4a	Forsberg	Aspirator	0	0	No soft starts are required	
C5	Forsberg	Aspirator	0	0	No soft starts are required	
D3	Forsberg	Aspirator	0	0	No soft starts are required	

D7	Forsberg	Aspirator	0	0	No soft starts are required	
M12a	Forsberg	300V Gravity Sperator	1	3	VFD (No soft starts are required)	Start First
	Forsberg	12" x 30" Syntron Feeder	1	110 Volt, Electro-Magnetic	No VFD or soft starts are required	Start Second
M13a	Forsberg	300V Gravity Sperator	1	3	VFD (No soft starts are required)	Start First
	Forsberg	12" x 30" Syntron Feeder	1	110 Volt, Electro-Magnetic	No VFD or soft starts are required	Start Second
M34	Forsberg	7G Destoner	1	7.5	No VFD or soft starts are required	
M36	Forsberg	TKV-2000 Gravity Sperator	1	3	VFD (No soft starts are required)	Start First
	Forsberg	Rotary Feeder	1	3/4	No VFD or soft starts are required	Start Second
M40	Forsberg	TKV-25 Gravity Separator	1	3/4	VFD (No soft starts are required)	Start First
	Forsberg	6" Syntron Feeder	1	110 Volt, Electro-Magnetic	No VFD or soft starts are required	Start Second
P-2A	Nolin	Cross Conveyor to Stick Reel	1	5	No VFD or soft starts are required	Start Second
P-4A	Nolin	Collection Belt	1	3		
P-5A	Nolin	Elevator to Vib Splitter	1	7.5		
P-6A	Nolin	Vibratory splitter	1	3		
P-10A	Nolin	Elevator to Bins	1	7.5		
P-4B	Nolin	Collection Belt	1	3		
P-5B	Nolin		1	7.5		
P-6B	Nolin	Vibratory splitter	1	3		
P-7B2	Nolin	Combination Screener/Det wigger	1	2		
	Nolin		1	1		
P-10B	Nolin	Elevator to Bins	1	7.5		

PD-2	Nolin	Incline Dirt Conveyor	1	5		
PS-1	Nolin	Stick Conveyor	1	5		
PS-2	Nolin	Incline Stick Conveyor	1	5		
PR-1	Nolin	Rock Conveyor	1	5		
PR-2	Nolin	Incline Rock Conveyor	1	5		
H?	Nolin	Incline Conveyor to Elevator	1	3		
H1	Nolin	Bottom Bin Conveyor	1	5		
H2	Nolin	Bottom Bin Conveyor	1	5		
H3	Nolin	Elevator	1	7.5		
H6	Nolin	Roll Feeder	1	7.5		
H11	Nolin	Elevator to Stage 2	1	3		
H14	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
H17	Nolin	Roll Feeder	1	1.5		
H18	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
H20	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
H25	Nolin	Elevator to Stage 3	1	7.5		
H28	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
H31	Nolin	Roll Feeder	1	1.5		
H32	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
H34	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
H39	Nolin	Elevator to Stage 4	1	7.5		
H42	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
H44	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
H49	Nolin	Elevator to Sheller	1	10		
H51	Nolin	Bin Tipper	1	2		
H52	Nolin	Bin Tipper	1	2		

S2	Nolin	Elevator for Inshell to Aspirators	1	5		
S6	Nolin	Belt Conveyor-inshell	1	3		
S7	Nolin	Elevator-inshell to sheller	1	5		
S9	Nolin	Elevator-Inshell Reclaim at Stage 8	1	3		
S11	Nolin	Elevator to Inshell Loadout	1	5		
S13	Nolin	Elevator for Inshell Rejects	1	3		
S17	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	0.5	VFD	
S18	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	0.5	VFD	
S19	Nolin	Gyratory Shaker -Stage 5	1	10		
S20	Nolin	Elevator to Stage 6	1	5		
S21	Nolin	Roll Feeder Above S31	1	1.5		
S22	Nolin	Shear roll	1	3	VFD	
	Nolin		1	0.5	VFD	
S23	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	0.5	VFD	
S25	Nolin	Elevator to Stage 7	1	5		
S27	Nolin	Roll feeder above S30	1	1.5		
S28	Nolin	48" Shear Roll w/cracker	1	3	VFD	
	Nolin		1	0.5	VFD	
S29	Nolin	48" Shear Roll w/cracker	1	3	VFD	
	Nolin		1	.5	VFD	
S30	Nolin	Elevator to Stage 8	1	3		

S32	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
S33	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	0.5	VFD	
S34	Nolin	Gyratory Shaker - stage 8	1	15		
S35	Nolin	Elevator to Stage 9	1	3		
S37	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
S38	Nolin	Gyratory Shaker-Stage 9/10	1	10		
S39	Nolin	Elevator To Stage 10	1	3		
S40	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	0.5	VFD	
S41	Nolin	Elevator to Stage 11	1	3		
S42	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	0.5	VFD	
S43	Nolin	Gyratory Shaker-stage 11/12	1	10		
S44	Nolin	Elevator to Stage 12	1	3		
S46	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
C4	Nolin	Elevator Clean Hull to Aspirator	1	5		
C7	Nolin	Elevator After Meats recovery	1	5		
T1	Nolin	Belt Conveyor- twigs	1	5		
T2	Nolin	Belt Conveyor- twigs to bunker	1	3		
D6	Nolin	Elevator to Aspirator	1	5		
D10	Nolin	Elevator	1	5		

M1	Nolin	Vibratory Screening Conveyor under huller	1	7.5		
M3	Nolin	Belt Conveyor	1	3		
M4	Nolin	Vibratory Screening Conveyor	1	7.5		
M5	Nolin	Vibratory Screening Conveyor	1	5		
M6	Nolin	Belt Conveyor	1	3		
M10A	Nolin	Vibratory screening conveyor	1	3		
M14	Nolin	Vibratory conveyor	1	7.5		
M18	Nolin	Vibratory Conveyor For Reject Meats/Inshell	1	3		
M19	Nolin	Elevator	1	1		
M21	Nolin	East - West Belt Conveyor South of Meat Area	1	5		
M22	Nolin	North - South Belt Conveyor West of Meat Area	1	5		
M23	Nolin	North - South Belt Conveyor West of Sheller Area	1	5		
M24	Nolin	Vibratory Hash Conveyor	1	7.5		
M25	Nolin	Hash Vibratory screening conveyor under M8	1	3		

M26	Nolin	Hash elevator	1	1		
M27	Nolin	Belt Conveyor	1	3		
M28	Nolin	Belt Conveyor	1	3		
M30	Nolin	Shear Roll	1	3	VFD	
	Nolin		1	.5	VFD	
M32A	Nolin	Vibratory Screening Conveyor-Hash/peewee	1	5		
	Nolin		1	7 1/2		
M32B	Nolin	Elevator to Hash	1	1		
M33	Nolin	Belt Conveyor to Destoner	1	3		
M35	Nolin	Elevator to TKV	1	2		
M37	Nolin	5' x 12' Double Flow	1	10		
M39	Nolin	Hash elevator	1	1		
M41	Nolin	hash bin off elevator	1	1		
M42C	Nolin	3 cut deck	1	10		
M42D	Nolin	3 cut deck	1	10		
M44A	Nolin	18" wide Belt Conveyor from M43 to Meats line	1	3		
M44B	Nolin	18" wide Belt Conveyor from M43 to Meats line	1	3		
FM1	Nolin	Vibratory screening conveyor for field meats	1	5		
	Nolin		1	7.5		
BH2	Nolin	Shell elevator	1	2		
P-9A	Screw Conveyor	Auger	1	15		

P-11A	Screw Conveyor	Auger	1	30		
P-1B	Screw Conveyor	Auger	1	20		
P-9B	Screw Conveyor	Auger	1	10		
P-11B	Screw Conveyor	Auger	1	30		
H4	Screw Conveyor	Auger	1	15		
H5	Screw Conveyor	Auger	1	5		
H10	Screw Conveyor	Auger	1	15		
H12	Screw Conveyor	Auger	1	7.5		
H13	Screw Conveyor	Auger	1	5		
H16	Screw Conveyor	Auger	1	5		
H26	Screw Conveyor	Auger	1	7.5		
H27	Screw Conveyor	Auger	1	3		
H30	Screw Conveyor	Auger	1	5		
H40	Screw Conveyor	Auger	1	5		
H41	Screw Conveyor	Auger	1	3		
H50A	Screw Conveyor	Auger	1	7.5		
H50B	Screw Conveyor	Auger	1	7.5		
S1	Screw Conveyor	Auger	1	7.5		
S8	Screw Conveyor	Auger	1	7.5		
S10	Screw Conveyor	Auger	1	7.5		
S12	Screw Conveyor	Auger	1	7.5		
S14	Screw Conveyor	Auger	1	5		
S15	Screw Conveyor	Auger	1	5		
S16A	Screw Conveyor	Auger	1	5		

S16B	Screw Conveyor	Auger	1	5		
S26	Screw Conveyor	Auger	1	5		
S31	Screw Conveyor	Auger	1	5		
S36	Screw Conveyor	Auger	1	5		
S45	Screw Conveyor	Auger	1	5		
C1-A	Screw Conveyor	Auger	1	5		
C1-B	Screw Conveyor	Auger	1	5		
C2	Screw Conveyor	Auger	1	10		
C3-A	Screw Conveyor	Auger	1	10		
C3-B	Screw Conveyor	Auger	1	7.5		
D1A	Screw Conveyor	Auger	1	5		
D1B	Screw Conveyor	Auger	1	2		
D2	Screw Conveyor	Auger	1	7.5		
D4	Screw Conveyor	Auger	1	10		
D5	Screw Conveyor	Auger	1	10		
BH1	Screw Conveyor	Auger	1	10		
BH3	Screw Conveyor	Auger	1	5		
Baghouse	Used Equipment	Baghouse		281		Need to confirm number of drives number listed is total HP for each baghouse
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Deck	Used Equipment		1	15		
P-5A	Used Equipment	Elevator to Vib Splitter	1	7.5		
P-7A	Used Equipment	Combination Screener/Det wigger	1	10		
P-7A2	Used Equipment	Combination Screener/Det wigger	1	10		
P-8A	Used Equipment	Destoner	1	7.5		
P-8A2	Used Equipment	Destoner	1	7.5		
P-2B	Used Equipment	Elevator to Stick Reel	1	7.5		
P-5B	Used Equipment	Elevator	1	7.5		
P-7B	Used Equipment	Combination Screener/Det wigger	1	10		
P-8B	Used Equipment	Destoner	1	7.5		
PD-1	Used Equipment	Dirt Conveyor	1	5		
PS-1	Used Equipment	Stick Conveyor	1	5		

Outside Conveyance

S47	Screw Conveyor	Auger	1	7.5		
S48	Screw Conveyor	Auger	1	30		
S49	Screw Conveyor	Auger	1	30		
S50	Screw Conveyor	Auger	1	15		
SL1	Screw Conveyor	Auger	1	30		
C8	Screw Conveyor	Auger	1	15		

C9	Screw Conveyor	Auger	1	30		
C10	Screw Conveyor	Auger	1	30		
CL1	Screw Conveyor	Auger	1	30		
CL2	Screw Conveyor	Auger	1	30		
CL3	Screw Conveyor	Auger	1	30		
CL4	Screw Conveyor	Auger	1	30		
CL5	Screw Conveyor	Auger	1	30		
CL6	Screw Conveyor	Auger	1	30		
D11	Screw Conveyor	Auger	1	15		
D12	Screw Conveyor	Auger	1	30		
D13	Screw Conveyor	Auger	1	30		
D14	Screw Conveyor	Auger	1	15		
DL1	Screw Conveyor	Auger	1	30		