

ATTACHMENT C: MANUFACTURING EQUIPMENT LIST

#	Area	Description	Qty	Manufacturer	Model	Serial	Size	Year	Picture	Comments	
1	700A	Centac Compressors	4	Ingersoll Rand	4C110M4	M91-5979 M91-5978 M91-6604 M91-6605	2500 hp	1992	1,2	10206 cfm intake, 5000 cfm @ 141psi	
2	106C	Carbon Black Bag Unloading system	1	Waschle				1992	3	Pressure convey	
	106C	Bag Unloading sytem	3						4	2000 lb supersack capacity	
3	106C	Housekeeping Vacuum System	2	Spencer Turbine			100	1992	5	Dust Collector, blower, bag offloading station	
4	1-101	Double Belt Cooler	2	Berndorf				1992	6	40 in wide SS belt, Pin Breaker	
5	1-101	Hammer Mill	2	Fitzpatrick			30 hp	1992	7	Chilled water jacket	
7	1-101	Mobile Tote unload station	2					1992	9		
8	1-201	Horizontal Blender / Control Panel	2	Littleford	FKM-1200-D	4304	1200 liter	1992	10,11	Jacketed, mixing plow, 4 high speed choppers	
10	1-201	Vacuum Extraction skid	2	Intervac					12		
11	1-201	Belt Cooler Heat exchanger	2	Berndorf				1992	13		
12	1-201	Wet Dust collector	1	Fisher Klosterman					14	Emco Filter module	
13	1-201	Storage Tank	2	Midco				2001	15	Load cells, level detection, air sweeps	
14	1-202	Fisher DCS cabinets	16	Fisher Controls				1992	16	Assorted analog and digital cards	
16	1-301	LIW Feeders	14	Acrison	A405B-350/15/-40-BDF1-FF 402B-7000/250/-250-105Z-G/130-P 405B-10000/400/-200-130-P 402X-2500-150-225-BDF15-G 402B-6000/250/-100-105Z-N 405B-600/40/BDF1-FF 402X-2500-150-225-BDF15-G 405B-600/25/-60-BDF1-FF 402B-7000/250/-250-105Z-G/130-P 405B-10000/400/-200-130-P 405B-600/25/-60-BDF1-FF 402B-6000/250/-100-105Z-N 405B-600/40/-40-BDF1-FF	92356-04 92356-02 92356-01 05209-01 92356-03 92356-05 04555-01 91313-06 91313-02 91313-01 91313-05 91313-03 91313-07			1992 1992 1992 2005 1992 1992 2005 1991 1991 1991 1991 1991 1991	17	Includes feeder controls, 2005
17	1-301	Hoppers	4	Waschle			5ft^3	1992	18	Aerated cone	
18	1-401	Explosion Containment Drum Dumper	2	Essex-Rise	HD2-2424-48-180-LSS	5739	200 lb cap	1992	19		
19	1-402	Motor Control Centers	8	Allen Bradley				1992	20, 21	480 V	
20	1-402	Transformers	8					1992	21	480 V-	
21	1-501	10 m^3 Storage bins.	9	Waschle			10 M^3	1992	22	Carbon steel, 10 bar containment, load cells, Aerated Cone, Lammers Filters, 130 ft^2 FA, 16 M^3 air, 66.8 ft^3 filter volume, A/C - 1.3,	

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22	1-501	10 m <sup>3</sup> Storage bins.	2	Waschle			10 M <sup>3</sup>	1992	22	Stainless steel, 10 bar containment, load cells, Aerated Cone, Lammers Filters, 130 ft <sup>2</sup> FA, 16 M <sup>3</sup> air, 66.8 ft <sup>3</sup> filter volume, A/C -1.3
28	2-102	Pressure convey tank	8	Waschle			48" Dia	1992	23	Carbon steel, 10 bar containment, load cells, Aerated Cone
29	2-102	Mobile Tote Loading station	5	Waschle				1992	24	Includes rotary valve
31	2-204	Alpine AFG Air Grinders	8	Alpine	800 AFG -1			1991	25, 26	Twin chamber
								49842/1		
								49842/2		
								49842/3		
								49842/4		
								76915-1		1993
								76915-2		1993
								76915-3		1993
								76915-4		1993
32	2-204	Cyclones w/ Reciever Tanks	8	Fisher-Klosterman						27
34	2-204	Vented reciever Bin	4	Waschle						28
		10 m <sup>3</sup> Storage Bin	2	Waschle						65
35	2-303	Vented reciever Bin	8	Waschle						64
36	2-303	Vacuum Convey Blowers	4	Aerezen						29
37	EEP	Grinder Dust Collectors	8	Torit	3DF24-BIBO		IGO 33478			30
38	EEP	Grinder Vacuum Blowers	8	Lampson				100 hp		31
39	EEP	Classifier Dust Collectors	6	Hosokawa Micron	698220		920072H1			32
40	EEP	Classifier Vacuum Blowers	6	Tuthill	1215-19T2		793R-A94	100 hp		33
42	3-103	Pressure Convey Tank	13	Waschle						23
43	3-103	Tote Offload Station	9							9
44	3-103	Tote Upload Station	8							24
46	3-103	Additive Convey System	2	Mann & Hummel						35, 36
76		Convey Blower	2	Mann & Hummel						56
58	3-304	Dosing Feeders		Mann & Hummel						44
47	3-206	Classifier	6	Hosokawa Micron	C24 Accucut		911186-P1	15 hp	1991	37
							911186-P2		1991	
							911420-P1		1991	
							911420-P2		1991	
							921317-P1		1992	
							921317-P2		1992	
48	3-206	Coarse Material Collector	3	Hosokawa Micron						38
49	3-206	Cyclone Reciever Tanks	2	Waschle						39
51	3-206	Dust Collector	2	Torit						40
52	3-206	Feeders	2	K-Tron						41
53	3-206	Additive Dumping Station	1							42

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57	3-304	10 m <sup>3</sup> Storage Bins				43	Carbon steel, 10 bar containment, load cells, Aerated Cone, Lammers Filters, 130 ft <sup>2</sup> FA, 16 M <sup>3</sup> air, 66.8 ft <sup>3</sup> filter volume, A/C - 1.3,
			9 Waschle				
		15 m <sup>3</sup> Storage Bins	3 Waschle			43	
		Vented reciever Bin	10 Waschle			28	Carbon steel, 10 bar containment, load cells, Aerated Cone, Lammers Filters,
61	ETP-2			M410i A05B-1037-B201	R97846846 R97446976 R97446977	1997 1997 1997	
		Robot - Casepacking	3 Fanuc				
62	ETP-2	Pallet Destacker	1 Schneider			46	
63	ETP-2	Pallet Dispenser	3 Schneider			47	
		CasePacker	1 Schneider			58	
		Top Sheet Dispenser	1 ITW Mima	21A-TSD	19559	1997	48 Schem 24-02925-006
64		Powder Filling Line	1 Various			49	
65		Vented storage bin	7 Waeschle			50	
67		Barrel Dumper	1 Hercules			51	
68		Barrel Dumper	1 Hercules			52	
		Bag Unloading sytem	1 NBE			66	Includes pressure convey tank
71		Dust Collector	2			54	Batching / Compounding
72		Dust Collector	2			53	Packaging
73		Dust Collector	1 Torit			53	Housekeeping
74		Vacuum Blower	1 Spencer			53	
75		Convey Blower	3 Aerezen			29	
77							
79		35 M <sup>3</sup> Storage Silo	2 Waschle		35 M <sup>3</sup>	55	Outside