



A1	INLET VALVE			NONE	
A2	CONTROLLER			NONE	
A3	3 BYPASS VALVES	2		NIBCO	T-111
A4	1 MAKE UP BY-PASS PIPING	2		KCD SHOP	
A5	STRAINER			NONE	
B1	STEAM PRV			NONE	
B2	STEAM CONTROLLER			NONE	
B3	BYPASS VALVES			NONE	
B4	STEAM PRV BY-PASS PIPING	3		MELLER	782
B5	1 STRAINER			NONE	
C1	RELIEF VALVE			NONE	
C2	RELIEF VALVE PIPING			NONE	
D1	THERMOWELL			NONE	
E1	PRESSURE GAUGE			NONE	
E2	SIPHON & COCK			NONE	
E3	PRESSURE TRANS			NONE	
F1	VENT VALVE			NONE	
F2	1 ORIFICE PLATES	#N/A		#N/A	
F3	BYPASS VALVES			NONE	
F4	VENT PIPING			NONE	
G1	1M7 SPARE GASKETS			NONE	
H1	VACUUM BREAKER			NONE	
M1	BFP REGICR SHUTOFF				
M2	BFP REGICR CHECK				
M3	BFP ORIFICE / VALVE				
M4	BFP PIPING			NONE	
M5	BFP PRESSURE GAUGE	4		GRUNDFOS	CR80-50U
N1	2 BOILER FEED PUMPS	4		NIBCO	FB17-0
N2	ISOLATION VALVE	4		MELLER	788
N3	2 STRAINER	4		KCD SHOP	
N4	2 PIPING	4			
N5	2 EXPANSION JOINT	4			
N6	BFP DISC PRESSURE GAUGE				
N7	BFP DISC CHECK				
N8	BFP DISCH ISOLATION				
O	CHEMICAL FEED QUILL			NONE	
P	1M7 SPARE GASKETS			NONE	
Q1	OVERFLOW VALVE			NONE	
Q2	CONTROLLER			NONE	
Q3	OVERFLOW PIPING			NONE	
R1	LEVEL SWITCHES	1 1/2		NIBCO	T-111
R2	LEVEL SWITCH BRIDLE PIPING	1 1/2		NONE	
S1	1 GAUGE GLASS			NONE	
S2	1 GAUGE GLASS BRIDLE PIPING	1 1/2		NIBCO	T-111
T1					
2	CONTROL PANEL				
	STARTERS		NONE		
1	PUMP STAND		14.2		

NOTE:
CUSTOMER TO FIELD ALIGN PUMPS AND MOTORS, THEN SEND KCD CERTIFICATION PAPERS.

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NO.	DATE	DESCRIPTION OF CHANGE
-	-	-
-	-	-
-	-	-
-	-	-
BY		

CLIENT: **KANSAS CITY DEAERATOR CO.**
6731 W. 121st STREET
OVERLAND PARK, KANSAS 66209
(913) 338-2111 FAX (913) 338-2144

JOB #	SCALE	DESIGNED	DRAWN	CHECKED	DATE	UTD
STD	NTS	MK	GENI	PC	7-24 2003	7-24 2003
TITLE: GENERAL ARRANGEMENT PACKAGE - HS4510						
MODEL: HS4510-065-CR16-80						
DWG. NO.: HS4510-065-CR16-80						