



A1	INLET VALVE		NONE	
A2	CONTROLLER		NONE	
A3	3 BYPASS VALVES	2	NIBCO	T-111
A4	1 MAKE UP BY-PASS PIPING	2	KOD SHOP	
A5	1 STRAINER		NONE	
B1	STEAM PRV		NONE	
B2	STEAM CONTROLLER		NONE	
B3	BYPASS VALVES		NONE	
B4	STEAM PRV BY-PASS PIPING		NONE	
B5	1 STRAINER	3	MUELLER	782
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	1 MW SPARE GASKETS		NONE	
H1	VACUUM BREAKER		NONE	
M1	BFP RECIRC SHUTTOFF			
M2	BFP RECIRC CHECK			
M3	BFP ORIFICE /VALVE			
M4	BFP PIPING		NONE	
M5	BFP PRESSURE GAUGE	4	GRUNDFOS	CR60-50U
M1	2 BOILER FEED PUMPS	4	NIBCO	F817.0
N2	2 ISOLATION VALVE	4	MUELLER	788
N3	2 STRAINER	4	KOD SHOP	
N4	2 PIPING	4		
N5	2 EXPANSION JOINT			
N6	BFP DISC PRESSURE GAUGE			
N7	BFP DISC CHECK			
N8	BFP DISCH ISOLATION			
O	CHEMICAL FEED QUILL		NONE	
P	1 MW SPARE GASKETS			
Q1	OVERFLOW VALVE		NONE	
Q2	CONTROLLER		NONE	
Q3	OVERFLOW PIPING		NONE	
R1	LEVEL SWITCHES		NONE	
R2	1 LEVEL SWITCH BRIDLE PIPING	1 1/2	NIBCO	T-111
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		

NOTES:
 1. CUSTOMER TO FIELD ALIGN PUMPS AND MOTORS, THEN SEND KOD CERTIFICATION PAPERS.
 2. GROUT STAND AS NECESSARY.

FRONT VIEW

END VIEW

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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	1-16 2004	1-16 2004
TITLE: GENERAL ARRANGEMENT						
MODEL: VTP149-6010-05-CR64-3						
DWG. NO: VTP149-6010-05-CR64-3						