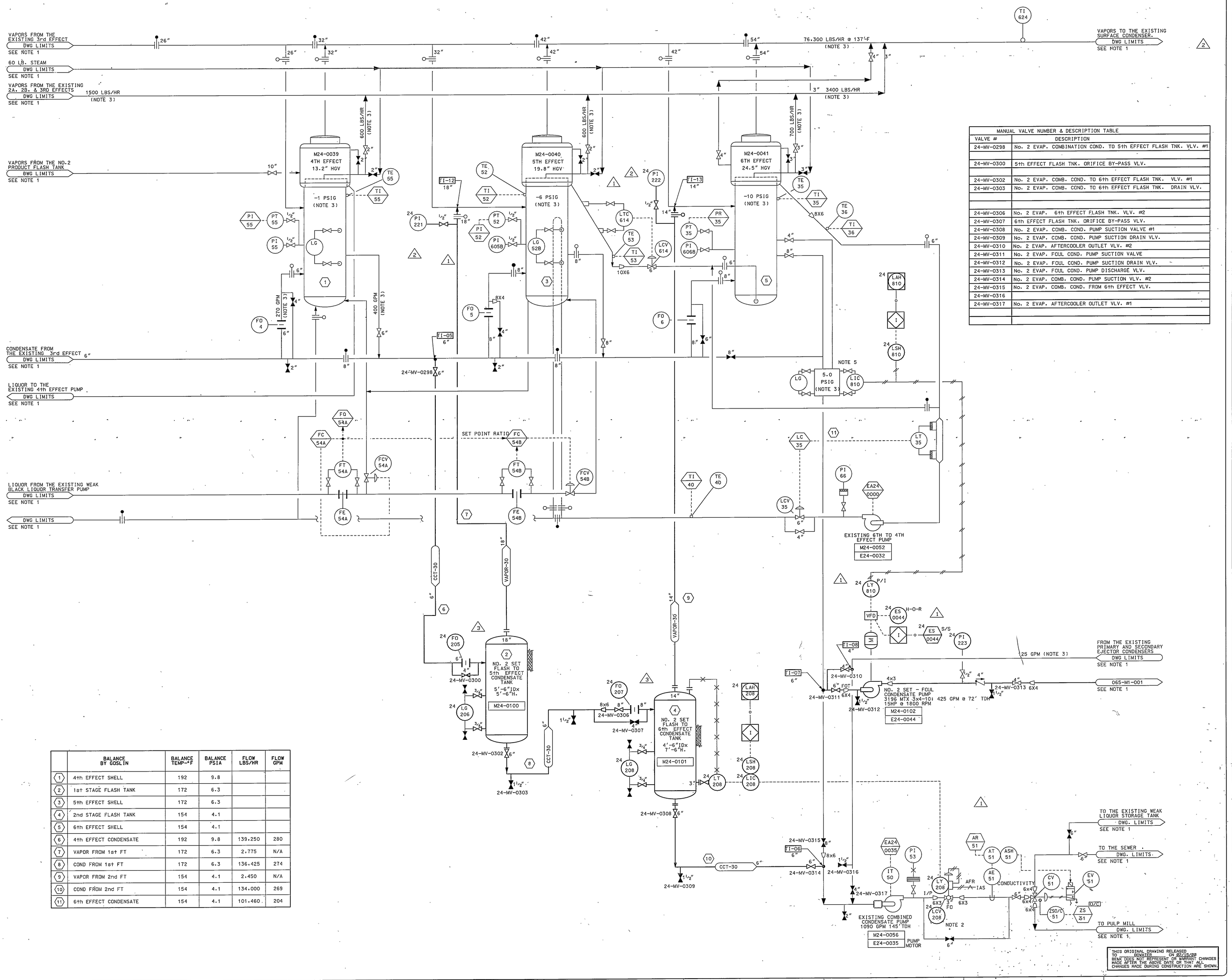
CAD FILE No. 24MF3001.DGN



	BALANCE BY GOSLIN	BALANCE TEMP-°F	BALANCE PSIA	FLOW LBS/HR	FLOW GPM
1	4th EFFECT SHELL	192	9.8		
2	1st STAGE FLASH TANK	172	6.3		
3	5th EFFECT SHELL	172	6.3		
4	2nd STAGE FLASH TANK	154	4.1		
5	6th EFFECT SHELL	154	4.1		
6	4th EFFECT CONDENSATE	192	9.8	139.250	280
7	VAPOR FROM 1st FT	172	6.3	2.775	N/A
8	COND FROM 1st FT	172	6.3	136.425	274
9	VAPOR FROM 2nd FT	154	4.1	2.450	N/A
10	COND FROM 2nd FT	154	4.1	134.000	269
11	6th EFFECT CONDENSATE	154	4.1	101.460	204

MANUAL VALVE NUMBER & DESCRIPTION TABLE

VALVE #	DESCRIPTION
24-MV-0298	No. 2 EVAP. COMBINATION COND. TO 5th EFFECT FLASH TNK. VLV. #1
24-MV-0300	5th EFFECT FLASH TNK. ORIFICE BY-PASS VLV.
24-MV-0302	No. 2 EVAP. COMB. COND. TO 6th EFFECT FLASH TNK. VLV. #1
24-MV-0303	No. 2 EVAP. COMB. COND. TO 6th EFFECT FLASH TNK. DRAIN VLV.
24-MV-0306	No. 2 EVAP. 6th EFFECT FLASH TNK. VLV. #2
24-MV-0307	6th EFFECT FLASH TNK. ORIFICE BY-PASS VLV.
24-MV-0308	No. 2 EVAP. COMB. COND. PUMP SUCTION VALVE #1
24-MV-0309	No. 2 EVAP. COMB. COND. PUMP SUCTION DRAIN VLV.
24-MV-0310	No. 2 EVAP. AFTERCOOLER OUTLET VLV. #2
24-MV-0311	No. 2 EVAP. FOUL COND. PUMP SUCTION VALVE
24-MV-0312	No. 2 EVAP. FOUL COND. PUMP SUCTION DRAIN VLV.
24-MV-0313	No. 2 EVAP. FOUL COND. PUMP DISCHARGE VLV.
24-MV-0314	No. 2 EVAP. COMB. COND. PUMP SUCTION VLV. #2
24-MV-0315	No. 2 EVAP. COMB. COND. FROM 6th EFFECT VLV.
24-MV-0316	
24-MV-0317	No. 2 EVAP. AFTERCOOLER OUTLET VLV. #1

NOTES

1. THE INFORMATION ON THE EXISTING EVAPORATORS WAS EXTRACTED FROM BOWATER DRAWING NO. CTE-24MF-1. BE&K HAS REPRODUCED THE 4th, 5th, AND 6th EFFECTS OF THE NO. 2 EVAPORATOR SET TO PROPERLY SHOW THE TIE-INS AND SYSTEM RELATIONSHIPS WITH THE NEW FLASH TANKS (BY GOSLIN).
2. THE EXISTING LEVEL CONTROL VALVE (WAS LCV-810) WILL BE RELABELED AND REPLACED WITH A NEW VALVE AS SHOWN.
3. THIS INFORMATION WAS EXTRACTED FROM BOWATER DRAWING NUMBER CTE-24MF-1.
4. ORIGINAL DESIGN: (NOTE 3) 650 AD TONS/DAY 3,158 LB. DRY SOLIDS/AD TON.
5. THE EXISTING LEVEL CONTROLLER (LC-810) WILL BE REUSED AND CONNECTED TO NEW INSTRUMENTATION THAT WILL CONTROL THE VFD FOR PUMP M24-0102.

REFERENCE DRAWINGS:

CTE-24MF-1 NO. 2 REC. BOILER CONVERSION EVAPORATOR PROCESS FLOW DIAGRAM

CTE-24MP-4 NO. 2 REC. BOILER CONVERSION EVAPORATOR EFFECT 6 & COND. PROCESS FLOW DIAGRAM.

CTE-24MP-3 NO. 2 REC. BOILER CONVERSION EVAP. EFFECTS 3. 4. & 5 P&I DIAGRAM.

REV. NO.	CODE	CIRCLES	DATE	DESCRIPTION	CHECKED BY / APPROVED / APPROVED
4	G – CAW	02 15 00		RELEASED FOR RECORD (BE&K PROJECT #99-2065)	
3	B 2 RLA	12 08 99		AS-BUILT; DELETED VLV'S; ADDED VLV No.'S	
2	B 3 CAW	11 19 99		GENERAL REVISION	
1	B 6 JLM	10 08 99		GENERAL REVISION	
0	B LJP	09 15 99		ISSUED FOR DESIGN	TGT
B	A – CAW	08 17 99		GENERAL REVISION	
A	A –	07 30 99		RELEASED FOR APPROVAL	

NOTE: CIRCLE ALL REVISIONS, IDENTIFY WITH DIAMOND, NUMBER AND ARROW. REMOVE ONLY CIRCLE AND ARROW BEFORE NEXT REVISION.

ISSUE CODE			
A PRELIMINARY	C MAT'L T.O.	F CONST'N	
B DESIGN	D MAT'L PURC.	G RECORD	
	E BIDS		

SEAL

SIGNATURE

DATE

BE&K ENGINEERING OF NORTH CAROLINA, INC.
2008 PRESIDENTS PARK DRIVE, SUITE-100
MORRISVILLE, NORTH CAROLINA 27560

DR. M.L. RAPPA	DATE 07/28/99
DSGN. T. TOMPKINS	FILE NUMBER
CK. G. VIDANA	
DPE T. TOMPKINS	JOB NO. 99-2065
Cadfile Name: **DGN**	

BOWATER
COATED PAPER & PULP DIV.
P.O. Box 7, Catawba, South Carolina 29704

DRAWING TITLE
CLUSTER RULE PROJECT
NO. 2 SET OF
EVAPORATORS
PROCESS FLOW DIAGRAM

BE&K DRAWING NUMBER
065-PO-006

CLIENT DRAWING NUMBER
CTE-24MF-3001

SYTIME