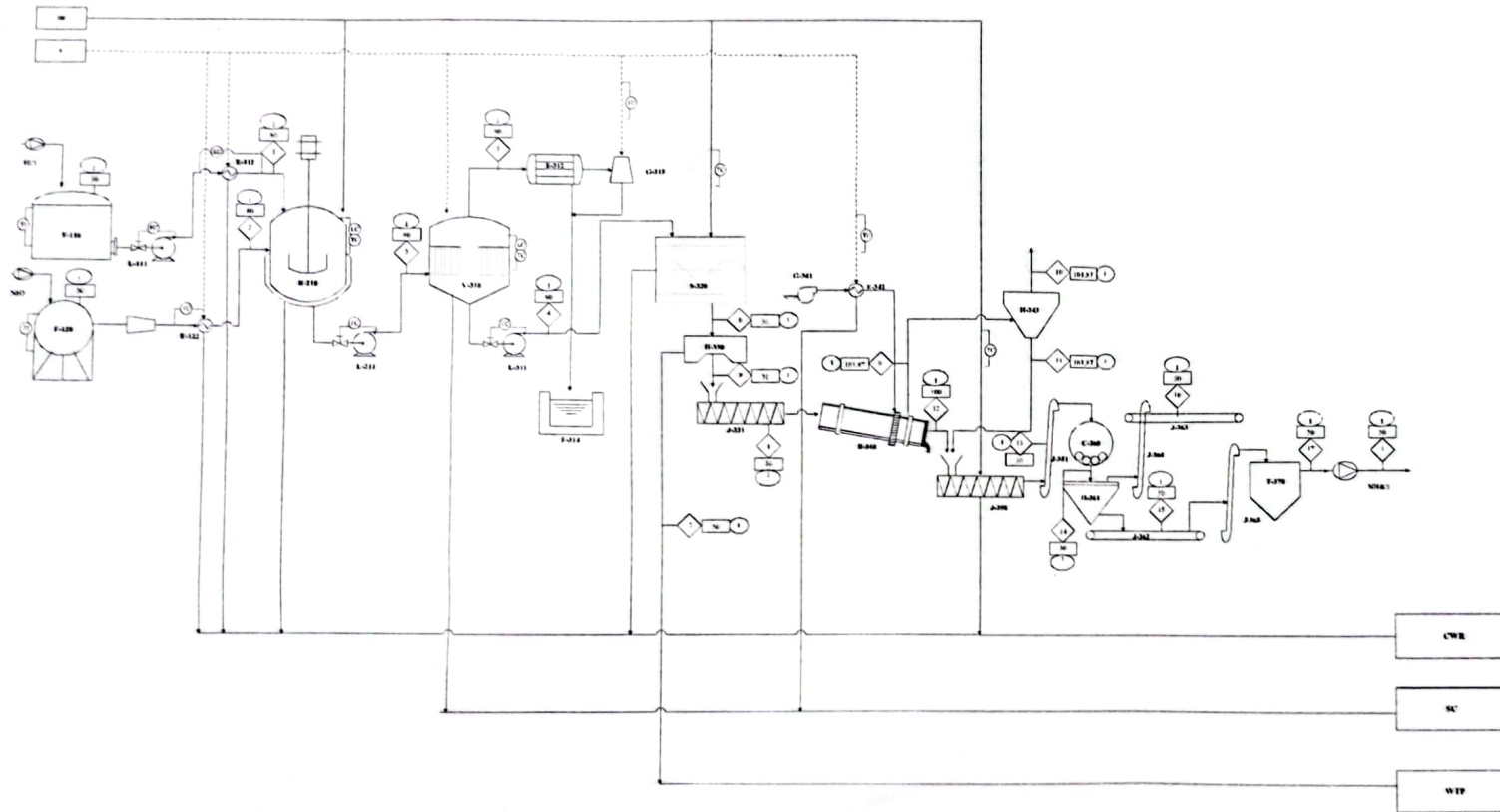


**PROCESS ENGINEERING FLOW DIAGRAM
PABRIK AMMONIUM CHLORIDE DARI AMMONIA DAN CHLORIDE ACID DENGAN PROSES NETRALISASI**



KETERANGAN ALIRAN	
CW	Cooling Water
PW	Water Proses
S	Steam
CWR	Cooling Water Return
SC	Steam Condensate
WTP	Waste Treatent Plant
○	Tekanan, atm
□	Suhu, C
◇	Aliran Massa

NO	KODE	NAMA ALAT
1	F - 110	Tangki Penampung HCl
2	L - 111	Pompa - 1
3	E - 112	Heat Exchanger - 1
4	F - 120	Tangki penampung NH3
5	E - 122	Heat Exchanger - 2
6	R - 210	Reaktor
7	L - 211	Pompa - 2
8	V - 310	Evaporator
9	L - 311	Pompa - 3
10	E - 312	Barometic Condensor
11	G - 313	Steam ejector
12	F - 314	Hot well
13	S - 320	Crystallizer
14	H - 330	Centrifuge
15	J - 331	Screw Conveyor
16	B - 340	Rotary Dryer
17	G - 341	Blower
18	E - 342	Heat Exchanger - 3
19	H - 343	Cyclone
20	J - 350	Cooling Conveyor
21	J - 351	Bucket Elevator
22	J - 360	Ball Mill
23	H - 361	Screen
24	J - 362	Ball Conveyor
25	J - 363	Bucket Elevator
26	J - 364	Ball Conveyor
27	J - 365	Bucket Elevator
28	F - 370	Silo NH4Cl

PERIODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
HCl	724,1161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NH3	-	3364,0279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H2O	15308,7466	16,9047	15325,6513	5690,5390	9635,1123	5690,5390	5406,0121	284,5269	263,6487	263,6487	-	20,8783	20,8783	20,8783	1,0439	1,0439	20,8783
NH4Cl	-	-	10568,1439	10568,1439	-	23,5588	22,3809	1,1779	105,4459	1,0545	104,3914	1,1779	1,1779	1,1779	0,0589	0,0589	1,1779
Kristal NH4Cl	-	-	-	-	-	10544,5851	-	10544,5851	-	-	-	10439,1393	10543,5306	10543,5306	527,1765	527,1765	10543,5306
Ulim	-	-	-	-	-	-	-	-	57563,4096	57563,4096	-	-	-	-	-	-	-
Total	22512,8627	3380,9326	25893,7952	16258,6829	9635,1123	16258,6829	5428,3930	10830,2899	57932,5042	57828,1128	104,3914	10461,1955	10565,5868	10565,5868	528,2793	528,2793	10565,5868

Dibuat Oleh : *[Signature]*
 NPM : *[Signature]*
 Departemen : *[Signature]*

FLOWSHEET PABRIK AMMONIUM CHLORIDE DARI AMMONIA DAN CHLORIDE ACID DENGAN PROSES NETRALISASI



PROGRAM STUDI TEKNIK KIMIA
 FAKULTAS TEKNIK
 UNIVERSITAS NASIONAL "VETERAN"
 JAWA TIMUR
 2023