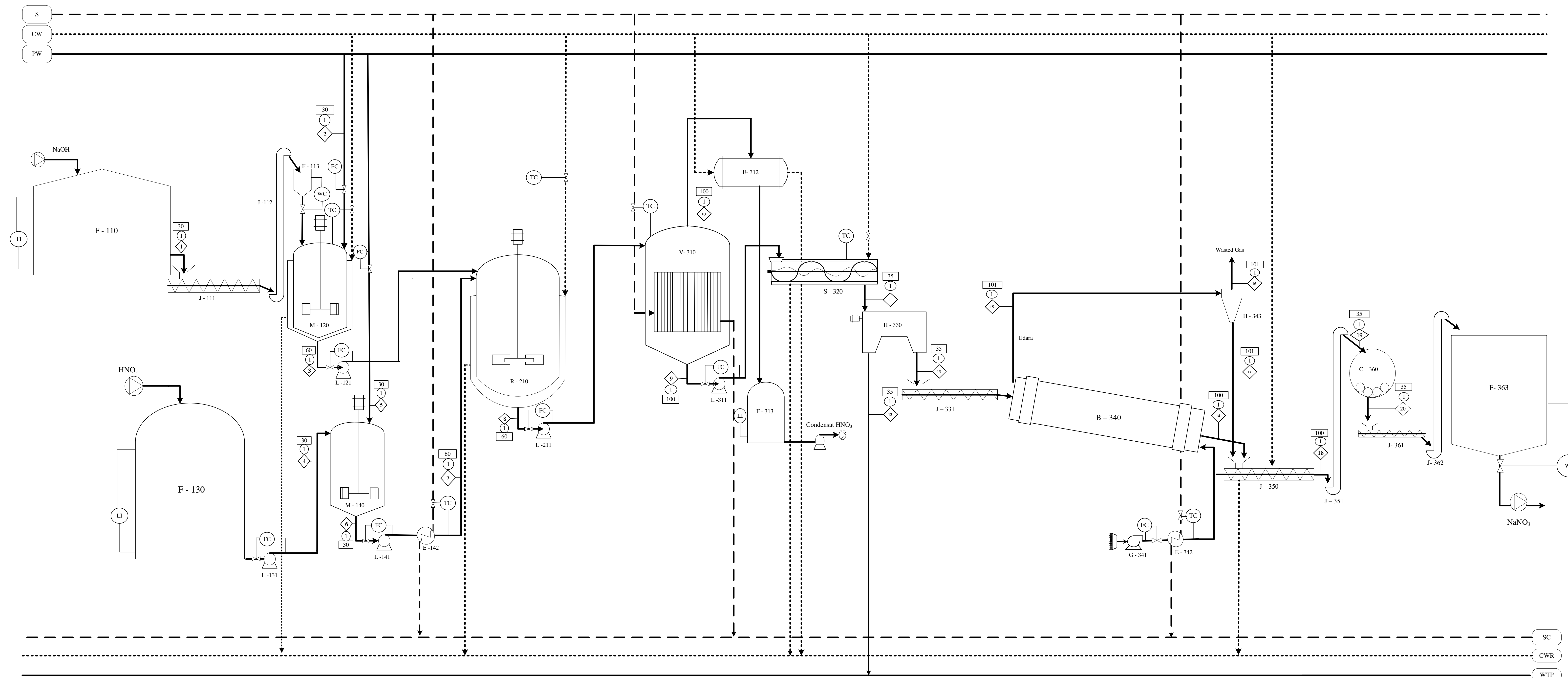


FLOWSHEET PABRIK SODIUM NITRAT DARI SODIUM HIDROKSIDA DAN ASAM NITRAT DENGAN PROSES NETRALISASI



KETERANGAN	
UTILITY	
S	: Steam
SC	: Steam Condensate
CW	: Cooling Water
CWR	: Cooling Water Return
PW	: Process Water
WTP	: Waste Treatment Process
MAIN EQUIPMENT	
30	F-363 SILO SODIUM NITRAT
29	J-362 BUCKET ELEVATOR - 3
28	J-361 SCREW CONVEYOR - 3
27	C-360 BALL MILL
26	J-351 BUCKET ELEVATOR - 2
25	J-350 COOLING SCREW CONVEYOR
24	E-342 HEATER - 2
23	G-341 BLOWER
22	H-343 CYCLONE
21	B-340 ROTARY DRYER
20	J-331 SCREW CONVEYOR - 2
19	H-330 CENTRIFUGE
18	S-320 CRYSTALLIZER
17	F-313 TANGKI KONSENTRASI HNO ₃
16	E-312 VERTIKAL CONDENSOR
15	L-311 POMPA - 5
14	V-310 EVAPORATOR
13	L-211 POMPA - 4
12	R-210 REAKTOR
11	E-142 HEATER - 1 HNO ₃
10	L-141 POMPA - 3
9	M-140 TANGKI PELARUTAN ASAM NITRAT
8	L-131 POMPA - 2
7	F-130 STORAGE ASAM NITRAT
6	L-121 POMPA - 1
5	M-120 TANGKI PELARUTAN NaOH
4	F-113 BIN
3	J-112 BUCKET ELEVATOR - 1
2	J-111 SCREW CONVEYOR - 1
1	F-110 STORAGE NATRIUM HIDROKSIDA
NO	KODE
	NAMA ALAT
LINE AND SYMBOL	
PC	PRESSURE CONTROL
TC	TEMPERATURE CONTROL
FC	FLOW CONTROL
← MATERIAL FLOW	
○	TEMPERATURE (°C)
○	PRESSURE (atm)
◇	ALIRAN MASSA (kg/jam)
DIGAMBAR OLEH : MILLA ZULFA BILLAH	
NPM : 18051010167	
DIBIMBING OLEH :	
Dr. Ir. Sintha Soraya Santi, MT	
NIP. 19660621 199203 2 001	
PRA RENCANA PABRIK SODIUM NITRAT DARI SODIUM HIDROKSIDA DAN ASAM NITRAT DENGAN PROSES NETRALISASI	
 TEKNIK KIMIA FAKULTAS TEKNIK UNIVERSITAS PEMBANGUNAN NASIONAL 2022	

KOMPONEN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
NaOH	2729.1565		2729.1565					54.5831	54.5831		54.5831	51.8540	2.7292	2.7019	0.0273	0.0003	0.0270	2.7289	2.7289	2.7289
HNO ₃				4298.4215		4298.4215	4298.4215	85.9684		85.9684										
NaNO ₃								5683.4684	5683.4684		5683.4684	1.0820	5682.3864	5625.5626	56.8239	0.5682	56.2556	5681.8182	5681.8182	5681.8182
H ₂ O	55.6971	2364.4983	2420.1954	3112.6501	2585.2575	5697.9076	5697.9076	9321.6610	3173.2125	6148.4485	3173.2125	3014.5519	158.6606	11.2791	147.3815	147.3815		11.2791	11.2791	11.2791
TOTAL	2784.8536	2364.4983	5149.3519	7411.0716	2585.2575	9996.3291	9996.3291	15145.6810	8911.2641	6234.4170	8911.2641	3067.4879	5843.7762	5639.5435	204.2327	147.9500	56.2826	5695.8262	5695.8262	5695.8262