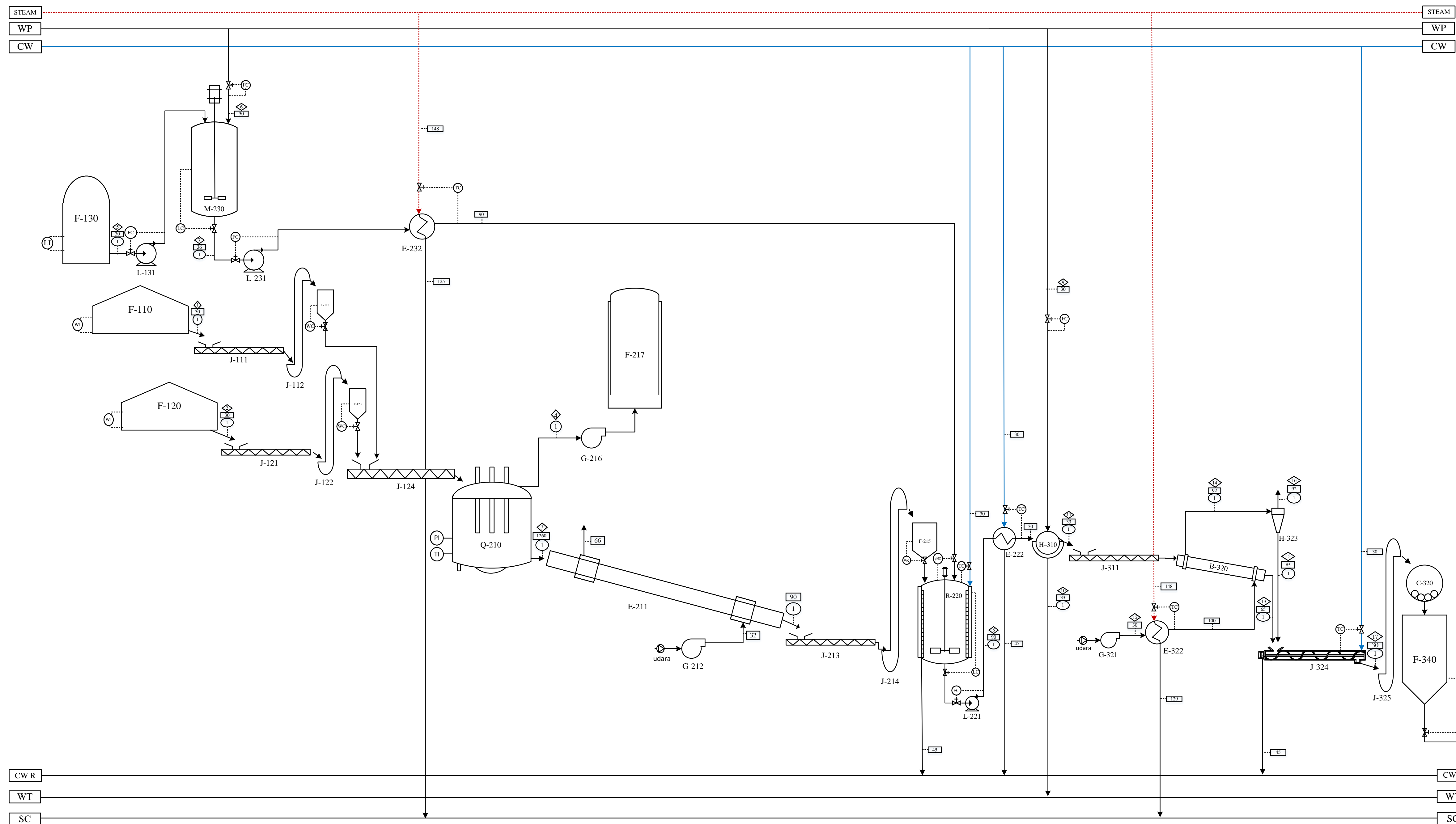


PABRIK SILICA POWDER DARI SODIUM CARBONATE DAN SILICA SAND  
DENGAN PROSES ACID HYDROLISIS KAPASITAS 40.000 TON/TAHUN

Skala 1:200



- Temperature (°C)
- Tekanan (atm)
- Aliran Massa
- STEAM Steam
- SC Steam Kondensat
- CW Cooling Water
- CWR Cooling Water Return
- WP Water Proses
- WT Water Treatment

NO.	KODE ALAT	NAMA ALAT
1	B-320	Rotary Dryer
2	C-330	Ball Mill
3	E-211	Rotary Cooler
4	E-222	Cooler
5	E-232	Heater Asam Sulfat
6	E-322	Heater Udara
7	F-110	Gudang Penyimpanan Pasir Silika
8	F-113	Hopper 2
9	F-120	Gudang Penyimpanan Natrium Karbonat
10	F-123	Hopper 1
11	F-130	Tangki Penampung Asam Sulfat
12	F-215	Hopper 3
13	F-217	Gas Holder
14	F-340	Silo Produk Silika Powder
15	G-212	Blower 1
16	G-216	Blower 2
17	G-321	Blower 3
18	H-310	Rotary Drum Vacuum Filter
19	H-323	Cyclone
20	J-111	Screw Conveyor 2
21	J-112	Bucket Elevator 2
22	J-121	Screw Conveyor 1
23	J-122	Bucket Elevator 1
24	J-124	Auger
25	J-213	Screw Conveyor 3
26	J-214	Bucket Elevator 3
27	J-311	Screw Conveyor 4
28	J-324	Cooling Conveyor
29	J-325	Bucket Elevator 4
30	L-131	Pompa 1
31	L-221	Pompa 3
32	L-231	Pompa 2
33	M-230	Tangki Pengencer Asam Sulfat
34	Q-210	Electric Furnace
35	R-220	Reaktor

Komponen	Aliran (kg/jam)																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
SiO2	4954.5826							4954.583			4954.5826		4905.0367	49.5458	49.4963	0.0495	4954.5330
Fe2O3	8.1725		8.1725														
Al2O3	6.6402		6.6402														
CaO	10.7264		10.7264														
MgO	15.8342		15.8342														
H2O	111.8612	4.3787		116.2399	8.7667	8153.0741	8161.841	1502.3393	3742.2546	4797.684171	446.9097		50.0104	396.8993		396.8993	50.0104
Na2CO3		8739.8105															
Na2SO4		8.7573	8.7573														
NaCl		4.3787	4.3787														
Na2O.SiO2			10065.352														
CO2				3629.0407													
H2SO4					429.5706		429.5706	409.1148		47.2864							
HCl								2.7317		409.1148							
Fe2(SO4)3								20.4638		2.7317							
Al2(SO4)3								22.2814		20.4638							
CaSO4								26.0393		22.2814							
MgSO4								47.2864		26.0393							
Udara											8661.7398			8661.7398			
Total	5107.8171	8757.3251	10119.862	3745.2806	438.3373	8153.0741	8591.41	18711.273	3742.255	17005.5783	5447.9493	8661.7398	5001.0396	9108.6495	49.9604	396.9493	5051.0000

Digambar Oleh :  
Shanti Larissa 18031010129

Dosen Pembimbing : Ir. Nurul Widji Triana, MT

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