INV. NO.	NAME OF MACHNERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
NONE NUMBER	1" PIPE	GAS PIPE 25mmD x 80 ML	1	
〃	3/4" 〃	〃 16mmD x 89ML	1	
〃	1/2" 〃	〃 30ML	1	
TOTAL			94	

CARBON MONOXIDE CONVERSION PLANT

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN. TITY	REMARKS
~~284F5~~ 286F5	THYSEN WASHER	CENTRIFUGAL, CAP. 100M^3/Min PRESS. 600 mm/WG BORE 300 mm	~~2~~ 1	284F5 SMALL SHOT 7
285F5 287F5	MOTOR (FOR 284F5 286F5)	INDUCTION 40 HP 1.455 RPM.	2	
288F5	DESULPHURIZING BOX	CATALYTIC, CAP. 5,000M^3/H 4 Boxs (7M × 7M × 5M)	1	
289F5	OVER HEAD TRAVELLING CRANE	CAP. 500 KG, SPAN 7M RAIL LENGTH 28M	1	
290F5 ~292F5	MOTOR (FOR 289F5)	INDUCTION 7 HP, 7 HP, 850 RPM, 5 HP 1,125 R.P.M.	3	
293F5. 295F5 297F5	BLOWER (RAW GAS)	TURBO FAN, CAP. 134M^3/MIN 4 STAGE PRESS. 2.5 M/WG. 3500 RPM	3	
294F5. 296F5 298F5	MOTOR (FOR 293F5. 295F5 297F5)	INDUCTION 145 HP 3,550 RPM	3	
299F5. 300F5	SATURATING AND COOLING TOWER	RIM TYPE 2.5 MΦ × 20 MH	2	TOWER UPPER PART SMALL SHOT 5
301F5. 302F5	HEAT EXCHANGER	SHELL AND TUBE, PRESS. 2 KG/cm^2 HEATING SURFACE 922 M^2. TUBE 25 mm	2	
303F5~306F5	〃	〃 PRESS. 1.5 KG/cm^2 〃 1285 M^2 〃	4	
307F5~310F5	CATALITIC CO CONVERTOR	TEMP. 500°C, CAP. 6,000 M^3/H DIA. 4.5M	4	
311F5~314F5	CO COMBUSTION FURNACE	GAS BURNER TYPE, HORIZONTAL 1.25 MΦ × 2.85 ML	4	
315F. 316F5	COOLING TOWER	VERTICAL, RASCHIG RING 3 MΦ × 14.5 MH	2	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
317F5. 319F5 321F5	INOKUCHI PUMP	TURBINE, CAP. 5 M³/MIN BORE 200 mm PRESS. 30 M/WG, 1,760 RPM	3	
318F5. 320F5 322F5	MOTOR (FOR 317F5. 319F5 321F5)	INDUCTION 50 HP 1,760 RPM	3	
323F5~326F5	PUMP	TURBINE, CAP. 42 M³/MIN PRESS. 20 M/WG BORE 200 mm, 1755 RPM	4	50 HP MOTOR MISSING
327F5	〃	〃 〃 〃 PRESS 30 M/WG BORE 300 mm 〃	1	〃
328F5	〃	〃 〃 〃 〃 BORE 200 mm, 1955 RPM	1	〃
329F5	FAN	PROPELLER, CAP. 3,080 M³/MIN DIA OF FAN 300 mm 15 HP	1	15 HP MOTOR MISSING
330F5~336F5	〃	PROPELLER, CAP. 2,080 M³/MIN 15 HP	7	〃
337F5. 338F5	INSTRUMENT BOARD	1.1 ML × 2 MH STEEL PLATE	2	
339F5	TRANSFORMER	INDOOR, 50 KVA CYCLE 60 VOLT 3,300~220 V	1	
29(47). 29(48)	〃	〃	2	
340F5	SWITCH BOX	LM 112, VOLT 220 CYCLE 60 (FOR 25 HP)	1	
NONE NUMBER	STEAM TRAP	FLOAT STEAM INLET 40 mm	1	
〃	〃	〃 〃 25 mm	1	
344F5. 345F5	VALVE	SLUICE, SIZE 200 mm FACE TO FACE 300 mm	2	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARS
346F5. 347F5	VALVE	SLUICE SIZE 250mm FACE TO FACE 320mm	2	
350F5~354F5	〃	〃 〃 200mm 〃 320mm	5	
355F5	〃	〃 〃 200mm 〃 300mm	1	
356F5. 357F5	〃	STOP 〃 150mm 〃 〃 500mm	2	
358F5~363F5	〃	SLUICE 〃 165mm 〃 285mm	6	
364F5. 365F5	〃	〃 〃 350mm 〃 350mm	2	
366F5. 367F5	〃	〃 〃 220mm 〃 310mm	2	
368F5. 369F5	〃	〃 〃 600mm 〃 450mm	2	
370F5. 371F5	〃	〃 〃 165mm 〃 510mm	2	
372F5~374F5	〃	〃 〃 350mm 〃 350mm	3	
375F5. 376F5	〃	〃 〃 200mm 〃 320mm	2	
377F5. 378F5	〃	〃 〃 250mm 〃 320mm	2	
379F5	〃	〃 〃 350mm 〃 350mm	1	
380F5	〃	〃 〃 600mm 〃 440mm	1	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN. TITY	REMARKS
381F5~384F5	VALVE	SLUICE SIZE 250mm FACE TO FACE 330mm	4	
385F5	〃	〃 〃 600mm 〃 〃 440mm	1	
386F5	〃	〃 〃 300mm 〃 〃 340mm	1	
387F5	〃	〃 〃 250mm 〃 〃 330mm	1	
388F5~391F5	〃	〃 〃 350mm 〃 〃 350mm	4	388F5 BODY BOMB SHOT
392F5~396F5	〃	〃 〃 200mm 〃 〃 310mm	5	393F5 HANDLE DAMAGE BY BOMB
397F5	〃	STOP 〃 200mm 〃 〃 430mm	1	
398F5.399F5	〃	SLUICE 〃 500mm 〃 〃 400mm	2	BODY BOMB SHOTS
400F5.401F5	〃	ANGLE 〃 500mm 〃 〃 900mm	2	400F5 BODY BOMB SHOTS
402F5	〃	〃 〃 800mm 〃 〃 900mm	1	
403F5~407F5	〃	〃 〃 500mm 〃 〃 900mm	5	
408F5	〃	STOP 〃 300mm 〃 〃 850mm	1	
409F5	〃	SLUICE 150mm 240mm	1	
410F5	〃	〃 〃 900mm 〃 〃 610mm	1	BODY DAMAGE BOMB SHOTS

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
411F5~414F5	VALVE	SLUICE SIZE 500mm FACE TO FACE 420mm	~~4~~ 3	411F5 BODY DAMAGE BOMB SHOTS
415F5	〃	〃 〃 900mm 〃 610mm	1	BODY DAMAGE BOMB SHOTS
416F5, 417F5	〃	〃 〃 500mm 〃 420mm	~~2~~ 1	416F5 BODY DAMAGE BOMB SHOTS
418F5~423F5	〃	〃 〃 400mm 〃 360mm	~~6~~ 4	BOMB DAMAGE OR HANDLE MISSING
NONE NUMBER	25 PCS VALVE	SLUICE SIZE 100mm	1	
〃	16 〃 〃	〃 〃 100mm	1	
〃	6 〃 〃	COCK SIZE 75mm	1	
〃	VALVE	STOP 〃 75mm	1	
〃	8 PCS VALVE	SLUICE 〃 50mm	1	
〃	18 〃 〃	STOP 〃 50mm	1	
〃	18 〃 〃	〃 〃 50mm	1	
〃	64 〃 〃	〃 〃 25mm	1	
〃	8 〃 〃	SLUICE 〃 25mm	1	
〃	11 〃 〃	COCK 〃 25mm	1	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
NONE NUMBER	VALVE	COCK SIZE 20 m.m	1	
〃	27 PCS VALVE	STOP 〃 20 m.m	1	
〃	VALVE	〃 〃 12 m.m	1	
〃	23 PCS VALVE	COCK 〃 12 m.m	1	
〃	PIPE	WELDING PIPE 900 m.m OD x 90 ML	1	
〃	〃	〃 750 m.m OD x 58 ML	1	
〃	〃	〃 500 m.m OD x 46 ML	1	
〃	〃	400 m.m OD x 255 ML	1	
〃	〃	300 m.m OD x 26 ML	1	
〃	〃	DRAWN PIPE 115 m.m OD x 7 ML	1	
〃	〃	〃 90 m.m OD x 36 ML	1	
〃	〃	〃 115 m.m OD x 38 ML	1	
〃	〃	〃 90 m.m OD x 70 ML	1	
〃	〃	WELDING PIPE 900 m.m OD x 46 ML	1	

DECLASSIFIED E.O. 12065 SECTION 3 (E)(1)(2)

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
NONE NUMBER	PIPE	WELDING PIPE 500mm OD x 98ML	1	
〃	〃	DRAWN PIPE 220mm OD x 94ML	1	
〃	〃	〃 220mm OD x 21ML	1	
〃	〃	〃 175mm OD x 36ML	1	
〃	〃	GAS PIPE 150mm OD x 82ML	1	
〃	〃	CAST IRON 250mm D x 14ML	1	
〃	〃	GAS PIPE 150mm D x 30ML	1	
〃	〃	DRAWN PIPE 115mm OD x 21ML	1	
〃	〃	〃 90mm OD x 164ML	1	
〃	〃	〃 60mm OD x 175ML	1	
〃	〃	GAS PIPE 50mm D x 126ML	1	
〃	〃	DRAWN PIPE 50mm OD x 7ML	1	
〃	〃	〃 40mm OD x 18ML	1	
〃	〃	〃 35mm OD x 734ML	1	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDB

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN. TITY	REMARKS
NONE NUMBER	PIPE	DRAWN PIPE 35 mmOD x 130 ML	1	
〃	〃	GAS PIPE 20 mm ϕ x 800 ML	1	
341F5~343F5	SWITCH BOX	LM 112 TYPE 3,300V 60HP	3	
348F5. 349F5	VALVE	SLUICE SIZE 500 mm FACE TO FACE 415 mm	2	
TOTAL			184	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNS

CARBON DIOXIDE REMOVING PLANT

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
424F5 425F5	CARBON DIOXIDE ABSORBER	VERTICAL, PRESS. 17 KG/CM² 1.8 MΦ × 32 MH	2	
426F5 427F5	WATER SEPARATER	VERTICAL 0.8 MΦ × 3 MH	2	
428F5 430F5	FEED WATER POWER RECOVERING PUMP	CAP. 12 M³/MIN 900 HP RECOVERING POWER 270 HP	2	
429F5 431F5	MOTOR (FOR 428F5 430F5)	INDUCTION, 3.300 V 900 HP 1.795 RPM	2	
NONE NUMBER	CO_2 DISSIPATING TOWER	CONCRETE, HEXAGONAL H = 21 M LENGTH OF ONE SIDE 7 M	2	
441F5, 446F5 447F5	MOTOR	INDUCTION. 15 HP 1,930 R.P.M	3	
448F5, 449F5 451F5	〃	〃	3	
452F5	CARBON DIOXIDE WASHING TOWER	UNCONPLETED, VERTICAL. 1.8 MΦ × 30 MH	1	
453F5~455F5	ELECTRIC TRANSFORMER	CAP. 75 KVA	3	
459F5	〃	CAP. 30 KVA	1	
463F5, 464F5	〃	CAP. 25 KVA	2	
465F5	INSTRUMENT BOARD	2 STEEL PLATE 1.5 MH × 1.92 ML	1	
466F5	〃	STEEL PLATE 1.5 MH × 0.8 ML	1	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDS

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
467F5. 468F5	ELECTRIC DISTRIBUTING BOX	3.300V. PHASE 3. 150A 900HP. CYCLE 60	2	METER AND WIRE MISSING
469F5. 470F5	ELECTRIC RESISTANCE	3.300V 900HP	2	
471F5. 472F5	ELECTRIC CONTROLLER	3.300V 900HP	2	
473F5~475F5	VALVE	SLUICE SIZE 350mm FACE TO FACE 435mm	3	
476F5. 477F5	〃	SLUICE. GEAR OPERATE SIZE 350mm, FACE TO FACE 720mm	2	
478F5. 479F5	〃	CHECK SIZE 350mm FACE TO FACE 730mm	2	
480F5	〃	SLUICE 〃 250mm 〃 340mm	1	
481F5~483F5	〃	〃 〃 250mm 〃 285mm	3	483F5 HANDLE MISSING
484F5	〃	〃 〃 150mm 〃 270mm	1	
NONE NUMBER	3 PCS VALVE	SLUICE SIZE 125mm	1	
〃	29 〃 〃	〃 〃 100mm	1	
〃	8 〃 〃	STOP 〃 100mm	1	
〃	4 〃 〃	SLUICE 〃 75mm	1	
〃	4 〃 〃	〃 〃 70mm	1	

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DECLASSIFIED E.O. 12065 SECTION 3 402/MDS NO.

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
NONE NUMBER	14 PCS VALVE	STOP SIZE 60mm	1	
〃	VALVE	〃 〃 50mm	1	
〃	7 PCS VALVE	STOP 〃 40mm	1	
〃	4 〃 〃	〃 〃 30mm	1	
〃	3 〃 〃	〃 〃 25mm	1	
〃	3 〃 〃	〃 〃 20mm	1	
〃	11 〃 〃	〃 〃 12mm	1	
〃	PIPE	WELDING PIPE 350mmOD x 80ML	1	
〃	〃	〃 〃 x 186ML	1	
〃	〃	DRAWN PIPE 255mmOD x 60ML	1	
〃	〃	〃 100mmOD x 120ML	1	
〃	〃	〃 76mmOD x 8 ML	1	
〃	〃	〃 38mmOD x 45ML	1	
〃	〃	GAS PIPE 100mmD x 80ML	1	

DECLASSIFIED E.O. 12065 SECTION 3 402/NNDG NO.

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
NONE NUMBER	PIPE	GAS PIPE 75mmD x 20ML	1	
"	"	" 50mmD x 30ML	1	
"	"	" 20mmD x 30ML	1	
TOTAL			65 ~~64~~	

CARBON MONOXIDE REMOVING PLANT

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN. TITY	REMARKS
485F5~487F5	COPPER SOLUTION WASHER	VERTICAL , MATERIAL SS 400mm ID x 50mm t x 12 MH	3	
488F5	AMMONIA LIQUOR WASHER	VERTICAL MATERIAL SS 400mm ID x 50mm t x 12 MH	1	
489F5	CONDENSED WATER WASHER	400mm ID x 50mm t x 12 MH	1	
490F5~492F5	HIGH PRESSURE LIQUID SEPARATER	VERTICAL MATERIAL SS 400mm ID x 50mm t x 3 MH	3	
493F5	AMMONIACAL WATER EXPANSION TANK	VERTICAL 1.2 MID x 1.3 MH	1	
494F5	CONDENSED WATER EXPANSION TANK	VERTICAL 1.2 MID x 1.3 MH	1	
495F5	AMMONIACAL WATER FILTER	VERTICAL 300mm D x 800 mm H	1	
496F5	CONDENSED WATER FILTER	VERTICAL 300mm D x 800 mm H	1	
497F5	AMMONIACAL WATER COOLER	SHELL AND TUBE 400mm OD x 5.5 ML	1	
498F5	CONDENSED WATER COOLER	SHELL AND TUBE 400mm OD x 5.5 ML	1	
499F5. 504F5 509F5	COPPER SOLUTION CHARGE PUMP	3 PLANGER , BORE 48mm, 100 RPM. PRESS. 300 KG/cm², CAP. 0.275 M³/MIN	3	
500F5. 505F5 510F5	MOTOR (FOR 499F5. 504F5, 509F5)	INDUCTION 3.300V 300 HP 585 RPM.	3	510F5 SWITCH BOX MISSING
501F5 506F5	SWITCH BOX	OIL SWITCH 3.000V~3.300V CYCLE 50~60 200A	2	

DECLASSIFIED E.O. 12065 SECTION 3 402/NARS

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN. TITY	REMARKS
502F5 . 509F5 511F5	STARTER	FOR MOTER RESISTANCE 300HP	3	
503F5 . 508F5 512F5	AIR RECEIVER	VERTICAL 400mmD	3	
513F5~515F5	AMMONIACAL WATER CHARGE PUMP	3 PLANGER, BORE 15mm, 155RPM. PRESS. 30Kg/cm². CAP. 0.275M³/MIN	3	
516F5~518F5	MOTOR (FOR 513F5~515F5)	INDUCTION 25HP	3	
519F5	COPPER SOLUTION EXPANSION TANK	VERTICAL 2.4MD × 4.7MH	1	
520F5	COPPER SOLUTION COOLER	SHELL AND TUBE 400mmD × 5.5ML	1	
521F5	VACUUM TANK	VERTICAL 2.4MD × 5MH	1	
522F5	VACUUM SEPARATER TANK	VERTICAL 0.8MD × 2.45MH	1	
523F5	SUCTION TANK	VERTICAL 1.5MD × 2.5MH	1	
524F5	LIQUID SEPARATER FILTER	VERTICAL 0.75MD × 2.3MH	1	
525F5. 526F5	COPPER SOLUTION FILTER	VERTICAL 0.6MD × 1.7MH	2	
527F5. 528F5	TURBINE PUMP	2 STAGE BORE 50mm CAP. 0.167M³/MIN. PRESS. 3Kg/cm²	2	
529F5. 531F5 533F5	AIR COMPRESSOR AND VACUUM PUMP	CAP. 10.8M³/MIN PRESS. 1Kg/cm² VACUUM 600mm/WG BORE 100mm	3	
530F5. 532F5 534F5	MOTOR (FOR 533F5 529F5. 531F5)	INDUCTION 25HP 580RPM	3	

DECLASSIFIED E.O. 12065 SECTION 3 4027 NND

DECLASSIFIED E.O. 12065 SECTION 3 402/NNDS NO.

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
535F5	OIL SEPARATER	VERTICAL 0.7 MD x 1.2 MH	1.	
536F5	PREPARATION TANK	VERTICAL 0.1 MD x 2.7 MH	1.	
537F5	SETTING TANK	VERTICAL 2.4 MD x 4.7 MH	1	
538F5	MUD SEPARATOR	VERTICAL 1.7 MD x 2.6 MH	1.	
539F5	SEPARATOR	VERTICAL 0.5 MD x 1 MH	1.	
540F5	FILTER PRESS	SIZE 600x600 MM x 31 PLATE	1.	
541F5 542F5	FEED WATER PUMP	CAP. 0.34 M3/MIN DEL. PRESS 2.5 KG/CM² BORE 75 MM	2.	
543F5	AMMONIACAL LIQUOR COOLER	SHELL AND TUBE 400 MMD x 3 ML	1.	
544F5	AMMONIACAL WATER TANK	VERTICAL 2.3 MD x 3 MH	1.	
545F5 ~ 547F5	LIQUEFIED AMMONIA TANK	HORIZONTAL 1.3 MD x 9.5 ML	3.	
548F5	ELECTRIC HOIST	CAP. 5 T HEIGHT OF LIFT 5 M	1.	
549F5	MOTOR (FOR 548F5)	INDUCTION 7.5 HP 750 R. P. M.	1.	
550F5	SWITCH BOARD	220 V 100 A	1.	
551F5	〃 〃	220 V 60 A	1	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
		OIL SWITCH BOX	3	
552F5 ~ 554F5	SWITCH BOX	220▽ 3 PHASE		
		4 PRESSURE RECORDER	1.	
555F5	METER BOARD	1 PRESSURE INDICATOR		
		SLUICE SIZE 150 MM	10	
556F5 ~ 565F5	VALVE	FACE TO FACE 240 "		
		" " 200 "	6.	
		" " 300 "		
566F5 ~ 571F5	"	" " 150 "	7	
		" 240 "		
572F5 ~ 578F5	"		1	
NONE NUMBER	" (19 PCS)	GLOVE SIZE 6 MM	1.	
" "	" (20 PCS)	" " "	1	
" "	" (14 PCS)	" " 12 MM	1.	
" "	" (41 PCS)	" " 19 MM	1.	
" "	" (2 PCS)	SLUICE " 19 MM	1.	
" "	" (26 PCS)	STOP " 19 MM	1.	
" "	" (10 PCS)	GLOVE " 25 MM	1.	
" "	" (10 PCS)	SLUICE " 25 MM	1.	
" "	" (3 PCS)	GLOVE " 25 MM		

DECLASSIFIED E.O. 12065 SECTION 3 NND

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
NONE NUMBER	VALVE (12 PCS)	STOP SIZE 25 MM	1.	
〃 〃	〃 (8 〃)	GLOVE 〃 40 MM	1.	
〃 〃	〃 (6 〃)	SLUICE 〃 40 〃	1.	
〃 〃	〃 (23 〃)	STOP 〃 40 〃	1.	
〃 〃	〃	GLOVE 〃 50 〃	1.	
〃 〃	〃 (7 〃)	〃 〃 50 〃	1.	
〃 〃	〃 (6 〃)	STOP 〃 50 〃	1.	
〃 〃	〃 (4 〃)	GLOVE 〃 50 〃	1.	
〃 〃	〃 (6 〃)	SLUICE 〃 65 〃	1.	
〃 〃	〃 (10 〃)	GLOVE 〃 75 〃	1.	
〃 〃	〃 (20 〃)	SLUICE 〃 75 〃	1.	
〃 〃	〃	〃 〃 100 〃	1.	
〃 〃	〃 (22 〃)	〃 〃 100 〃	1.	
〃 〃	〃	〃 〃 125 〃	1.	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
NONE NUMBER	VALVE (5 PCS)	SLUICE SIZE 125 MM	1.	
" "	PIPE	DRAWN PIPE 19 MMOD. x 120 ML	1.	
" "	"	GAS PIPE 21 MMOD x 25 ML	1.	
" "	"	" 27 " x 20 "	1.	
" "	"	DRAWN PIPE 38 " x 185 "	1.	
" "	"	GAS " PIPE " 34 " x 120 "	1.	
" "	"	DRAWN PIPE " 45 " x 175 "	1.	
" "	"	GAS " PIPE " 48 " x 70 "	1.	
" "	"	DRAWN PIPE " 65 " x 350 "	1.	
" "	"	GAS " PIPE " 60 " x 200 "	1.	
" "	"	DRAWN PIPE " 75 " x 45 "	1	
" "	"	" 90 " x 140 "	1.	
" "	"	" 90 " x 20 "	1	
" "	"	" 115 " x 45 "	1.	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
NONE NUMBER	PIPE	DRAWN PIPE 115 MMOD. x 75 ML	1.	
" "	"	GAS PIPE 165 " x 25 "	1.	
" "	"	" 165 " x 110 "	1.	
" "	"	216 " x 75 "	1.	
TOTAL			135	

HYDRO CRACKING PLANT.

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
1F3 13F3 25F3	GAS COMPRESSOR (FOR HYDROGEN)	SINGLE ACTING. CAP. 67 M^3/Min DEL. PRESS 30 kg/cm^2	3.	13F3 LUBRICATER MISSING
2F3 14F3 26F3	MOTOR (FOR 1F3. 13F3. 25F3)	SYNCHRONOUS HP 800 R.P.M. 138.5	3.	
3F3 15F3 27F3	MOTOR (FOR 1F3. 13F3 25F3)	INDUCTION HP 10 R.P.M. 1440	3.	
4F3 16F3 28F3	COOLER (FOR 1ST STAGE)	SHELL AND TUBE HEATING AREA 42 M^2	3.	
5F3 17F3 29F3	COOLER (FOR 2ND STAGE)	SHELL AND TUBE HEATING AREA 50 M^2	3.	
6F3 18F3 30F3	COOLER (FOR 3RD STAGE)	SHELL AND TUBE HEATING AREA 76 M^2	3.	
7F3 19F3 31F3	SEPARATOR (FOR 1ST STAGE)	VERTICAL 0.8 $M\Phi$ x 2 MH	3.	
8F3 20F3 32F3	SEPARATOR (FOR 2ND STAGE)	VERTICAL 0.6 $M\Phi$ x 3.3 MH	3.	
9F3 21F3 33F3	SEPARATOR (FOR 3RD STAGE)	VERTICAL 0.55 $M\Phi$ x 2.3 MH	3.	
10F3 22F3 34F3	SEPARATOR (FOR LAST)	VERTICAL 0.42 $M\Phi$ x 1.8 MH	3.	
11F3 23F3 35F3	TRAP	FLOAT TYPE INLET SIZE 25 mm	3.	
12F3 24F3 36F3	OIL RECOVERY TANK.	VERTICAL 0.62 $M\Phi$ x 1.4 MH	3	
37F3 49F3 60F3	GAS COMPRESSOR (FOR HYDROGEN)	SINGLE ACTING CAP. 50 M^3/Min DEL. PRESS 300 kg/cm^2	3	

DECLASSIFIED E.O. 12065 SECTION 3 NND

INV. NO.	NAM OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
38F3 50F3 61F3	MOTOR (FOR 37F3.49F3.60F3)	SYNCHRONOUS HP 1250 R.P.M. 136	3.	
39F3 62F3	MOTOR (FOR 37F3 .60F3)	INDUCTION HP 10 R.P.M. 1440	2.	5 OF 3 10 HP INDUCTION MOTOR MISSING.
40F3 51F3 63F3	COOLER (FOR 1ST STAGE)	SHELL AND TUBE HEAT AREA 16.8 M^2	3.	
41F3 52F3 64F3	COOLER (FOR 2ND STAGE)	SHELL AND TUBE HEAT AREA 16.8 M^2	3.	
42F3 53F3 65F3	COOLER (FOR 3RD STAGE)	SHELL AND TUBE HEAT AREA 16.8 M^2	3.	
43F3 54F3 66F3	DRAIN SEPARATOR	VERTICAL 0.8 $M\phi$ x 3 MH	3.	
44F3 55F3 67F3	DRAIN SEPARATOR	VERTICAL 0.6 $M\phi$ x 2.26 MH	3.	
45F3 56F3 68F3	DRAIN SEPARATOR	VERTICAL 0.5 $M\phi$ x 3.2 MH	3.	
46F3 57F3 69F3	DRAIN SEPARATOR	VERTICAL 0.8 $M\phi$ x 3 MH	3.	
47F3 58F3 70F3	DRAIN SEPARATOR	VERTICAL 0.36 $M\phi$ x 3 MH	3.	
48F3 59F3 71F3	OIL RECOVERY TANK	VERTICAL 0.8 $M\phi$ x 1.39 MH	3.	
72F3	GAS COMPRESSOR (FOR HYDROGEN)	SINGLE ACTING CAP. 100 M^3/Min DEL. PRESS 300 KG/CM^2	1.	
73F3	MOTOR (FOR 72F3)	SYNCHRONOUS HP 2.400 R.P.M. 128.5	1.	
74F3	MOTOR (FOR 72F3)	INDUCTION HP 15 R.P.M. 675	1.	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
75F3	COOLER (FOR 72F3)	SHELL AND TUBE HEAT AREA 50 M^2	1.	
76F3	COOLER (FOR 72F3)	SHELL AND TUBE HEAT AREA 28 M^2	1.	
77F3	DRAIN SEPARATOR	VERTICAL 0.72 $M\phi$ x 2.5 MH	1.	
78F3	DRAIN SEPARATOR	VERTICAL 0.85 $M\phi$ x 3.5 MH	1.	
79F3	DRAIN SEPARATOR	VERTICAL 0.6 $M\phi$ x 1.2 MH	1.	
80F3	DRAIN SEPARATOR	VERTICAL 0.3 $M\phi$ x 1 MH	1.	
81F3	DRAIN SEPARATOR	VERTICAL 0.6 $M\phi$ x 1.2 MH	1.	
82F3 83F3	DRAIN SEPARATOR	VERTICAL 0.28 $M\phi$ x 0.9 MH	2.	
84F3	OIL RECOVERY TANK	VERTICAL 1.0 $M\phi$ x 1.47 MH	1.	
85F3 ~ 92F3	GAS COMPRESSOR {FOR HYDROGEN}	SINGLE ACTING CAP. 6.000 M^3/H DEL PRESS 290 ~ 300 Kg/CM^2	8.	
93F3	HYDROGEN AND OIL HEAT EXCHANGING TOWER	1.264 $M\phi$ x 10.5 MH 200 Kg/CM^2	1.	MATERIAL NI-CR-MO
94F3	HEAT EXCHANGING TOWER	1.264 $M\phi$ x 10.5 MH 200 Kg/CM^2	1.	MATERIAL NI-CR-MO
95F3 96F3	1ST. 2ND. PREHEAT TOWER	1.264 $M\phi$ x 10.5 MH 200 Kg/CM^2	2	MATERIAL NI-CR-MO SHEL MISSING
97F3 98F3	1ST. 2ND. REACTION TOWER	1.264 $M\phi$ x 10.5 MH 200 Kg/CM^2	2	MATERIAL NI-CR-MO

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
99F3	HIGH PRESSURE GAS SEPARATING TOWER	1.264 $^{M\phi}$ × 10.5 ^{MH} 200 $^{Kg/CM^2}$	1.	MATERIAL NI-CR-MO
100F3	HIGH PRESSURE WASHING TOWER	1.264 $^{M\phi}$ × 10.5 ^{MH} 200 $^{Kg/CM^2}$	1.	MATERIAL NI-CR-MO
101F3 102F3	HIGH PRESSURE GAS HOLDER	0.53 $^{M\phi}$ × 10.5 ^{MH} 300 $^{Kg/CM^2}$	2.	MATERIAL 18:8
103F3 104F3	HIGH PRESSURE VESSEL	1.264 $^{M\phi}$ × 10.5 ^{MH} 300 $^{Kg/CM^2}$	2	MATERIAL NI-CR-MO
105F3 ~ 108F3	HIGH PRESSURE VESSEL	1.0 $^{M\phi}$ × 7.0 ^{MH} 300 $^{Kg/CM^2}$	4	MATERIAL CR-MO
109F3	HIGH PRESSURE VESSEL	0.7 $^{M\phi}$ × 7.0 ^{MH} 300 $^{Kg/CM^2}$	1.	MATERIAL CR-MO
110F3 111F3	FURNACE	PIPE STILL TYPE 7.3 ^{MH} × 5.5 ^{MW} × 6.0 ^{ML}	2.	110F3 BRICK WORKING 20% UNCONPLETED
112F3 113F3	HIGH PRESSURE COOLER	DUBLE TUBE TYPE COOLING AREA 113 $^{M^2}$ 200 $^{Kg/CM^2}$	2.	
114F3 115F3	LOW PRESSURE SEPARATOR	1.62 $^{M\phi}$ × 5.0 ^{ML} 20 $^{Kg/CM^2}$	2.	
116F3	ACCUMULATOR (FOR HYDROGEN)	VERTICAL 1.0 $^{M\phi}$ × 10 ^{MH} 20 $^{Kg/CM^2}$	1.	
117F3 118F3	ACCUMULATOR (FOR NITROGEN)	VERTICAL 1.6 $^{M\phi}$ × 5.4 ^{MH} 20 $^{Kg/CM^2}$	2.	
119F3 122F3	ACCUMULATOR (FOR NITROGEN)	VERTICAL 1.0 $^{M\phi}$ × 6.75 ^{MH} 20 $^{Kg/CM^2}$	4.	
123F3 124F3	WORTHINGTON PUMP	CAP. 0.17 $^{M^3/MIN}$ DUPLEX TYPE 700×110×500 ^{MM} 300 $^{Kg/CM^2}$	2.	
125F3 127F3	TURBINE PUMP	MOTOR DRIBEN CAP. 1 $^{M^3/MIN}$ SUC. PRESS 1 ^{M} W.G.	2	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
126F3 128F3	MOTOR (FOR 125F3 127F3)	INDUCTION HP 10 R.P.M. 1735	2	
131F3~135F3	WORTHINGTON PUMP	DUPLEX TYPE CAP. 0.5 M^3/MIN 200 × 150 × 250 MM 30 KG/CM^2	5	
136F3~138F3	OIL CATALYSER TANK	VERTICAL 1.54 MΦ × 1.8 MH	3.	
139F3 140F3	REACTED OIL TANK	HORIZONTAL TYPE 1.2 MΦ × 2.5 ML	2.	
141F3 142F3	WORTHINGTON PUMP	DUPLEX TYPE CAP. 0.5 M^3/MIN 250 × 250 × 220 MM	2.	
143F3~145F3	FILTER PRESS	650 × 650 MM 50 PLATES	3.	
146F3	FILTER RECEIVER	VERTICAL 2.45 MΦ × 3.95 MH	1.	
147F3	BLOW DOUN TANK	HORIZONTAL 2.5 MΦ × 7.5 ML	1.	
148F3 149F3	STABILIZER	VERTICAL 1.47 MΦ × 25 MH 4.7 KG/CM^2	2	TOWER 20% UNCOMPLETED
150F3 151F3	WASHING OIL HEAT EXCHANGER	0.7 MΦ × 5.55 ML HEATING AREA 30 M^2	2.	
152F3 153F3	STABILIZER HEAT EXCHANGER	HEATING AREA 20 M^2 0.35 MΦ × 5 ML	2.	
154F3	STABILIZER REBOILER	HEATING AREA 60 M^2 0.7 MΦ × 5 ML	1.	
155F3	STABILIZER REFLUX CONDENSER	COOLING AREA 80 M^2 0.7 MΦ × 4 ML	1.	
156F3 157F3	STABILIZER REFLUX DRUM	VERTICAL 1.6 MΦ × 6 MH 5 KG/CM^2	2.	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
158F3 159F3	STABILIZER COOLER	HEATING AREA 24.2 M^2	2.	
160F3 161F3	SODA WASHING TOWER	VERTICAL 1.3 $M\phi$ x 7 MH	2.	
162F3 163F3	MEDIATE TANK	VERTICAL CAP. 12 KL 1.4 $M\phi$ x 5.5 MH 5 Kg/cm^2	2.	
164F3	SODA TANK	VERTICAL CAP. 8 KL 2.2 $M\phi$ x 2.6 MH	1.	
165F3 ~ 170F3	SODA MEASURING TANK	VERTICAL 1.85 $M\phi$ x 3.1 MH	6.	
171F3 172F3	SODA TANK	VERTICAL 1.85 $M\phi$ x 1.8 MH	2.	
173F3 174F3	SODA SEPARATOR	HORIZONTAL 1.3 $M\phi$ x 8.8 ML	2.	
175F3 176F3	TANK (FOR WASHING OIL)	VERTICAL CAP. 20 KL 2 $M\phi$ x 5.6 MH PRESS 500 mm W.G	2.	
177F3 178F3	AUXILIARY TANK	HORIZONTAL CAP. 40 KL 2.5 $M\phi$ x 9 ML	2.	
179F3 180F3	HEATER OF WASHING OIL	HORIZONTAL HEATING AREA 30 M^2 7 $M\phi$ x 5 ML	2.	
181F3 182F3	WASHING OIL COOLER	VERTICAL 2.8 $M\phi$ x 1.03 MH	2.	
183F3 184F3	WATER SEPARATOR	HORIZONTAL 1.3 $M\phi$ x 8.8 ML	2.	
185F3 ~ 188F3	WORTHINGTON PUMP	DUPLEX CAP. 0.2 M^3/MIN 190 x 150 x 250 mm 6 Kg/cm^2	4.	
189F3 ~ 191F3	WORTHINGTON PUMP	DUPLEX CAP. 0.83 M^3/MIN 300 x 250 x 27[illegible] mm 5 Kg/cm^2	3.	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDS

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
195F3 ~ 197F3	SODA INJECTION PUMP	CAP. 2 $^{L}/_{MIN}$ 3 PLANGER	3.	3 MOTOR MISSING
198F3 ~ 201F3	WORTHINGTON PUMP	DUPLEX CAP. 60 $^{L}/_{MIN}$ 125 x 75 x 125 ^{MM} 10 $^{Kg}/_{CM^2}$	4.	
202. 204. 206. 208. 210F3	TURBINE PUMP	MOTOR DRIVEN ONE STAGE CAP. 3.3 $^{M^3}/_{MIN}$ 5 $^{Kg}/_{CM^2}$	5	
203. 205. 207. 209. 211F3	MOTOR (FOR 202. 204. 206. 208. 210F3)	INDUCTION HP. 60 R.P.M. 1760.	5	
212F3 214F3 216F3	TURBINE PUMP	MOTOR DRIVEN TWO STAGE CAP. 3.3 $^{M^3}/_{MIN}$ 10 $^{Kg}/_{CM^2}$	3.	
213F3 215F3 217F3	MOTOR (FOR 212. 214. 216F3)	INDUCTION HP. 125 R.P.M. 1760	3	
218F3 219F3 220F3	AIR COMPRESSOR	SINGLE ACTING STEAM DRIVEN CAP. 0.25 $^{M^3}/_{MIN}$ 195x150x300 ^{MM} 3 $^{Kg}/_{CM^2}$	3	
221F3	AIR RECEIVER	VERTICAL 0.75 $^{M\phi}$ x 1.85 ^{MH} 3 $^{Kg}/_{CM^2}$	1.	
222F3 ~ 228F3	OIL TANK	VERTICAL CAP. 500 ^{KL} 9 $^{M\phi}$ x 8.7 ^{MH}	7.	222.~227F3 SIDE PLATES BURNT DAMAGE
229F3	OIL TANK	VERTICAL CAP. 50 ^{KL} 4.75 $^{M\phi}$ x 3 ^{MH}	1.	
230F3	OIL TANK	VERTICAL CAP. 9 ^{KL} 2 $^{M\phi}$ x 3 ^{MH}	1.	
231F3	GAS HOLDER	VERTICAL CAP. 10,000 $^{M^3}$ 26.5 $^{M\phi}$ x 28.5 ^{MH} 200 ^{MM} W.G.	1.	STAY 50% & SIDE PLATE 70% BURNT DAMAGE
232F3 233F3	GAS HOLDER	VERTICAL CAP. 5.000 $^{M^3}$ 20.5 $^{M\phi}$ x 25 ^{MH} 200 ^{MM} W.G	2	STAY & SIDE PLATE BURNT DAMAGE
234F3	OVERHEAD TRAVELLING CRANE	CAP. 25 ^{T} LIFT 6 ^{M} SPAN 16.5 ^{M}	1.	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNS NO

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
235F3 ~ 238F3	MOTOR (FOR 234F3)	INDUCTION 13 HP 13 HP 7 HP 27 HP	4.	
239F3	OVERHEAD TRAVELLING CRANE	CAP. 150 T LIFT UNKNOWN SPAN 14.8 M	1.	
240F3 ~ 243F3	MOTOR (FOR 239F3)	INDUCTION 67 HP 67 HP 53 HP 20 HP	4.	
244F3 246F3	HOIST	CAP. 5 T LIFT 7 M	2	
245F3 247F3	MOTOR (FOR 244F3 246F3)	INDUCTION 7.5 HP 750 R.P.M.	2	
248F3	WORTHINGTON PUMP	SIMPLEX CAP. 75 L/MIN 150 x 100 x 250 MM 10 KG/CM²	1.	
249F3 250F3	BLOWER	IMPELLER TYPE CAP. 30 M³/MIN 0.4 M W.G.	2	2 MOTOR MISSING
251F3 252F3 254F3	WORTHINGTON PUMP	DUPLEX 150 x 125 x 200 MM	3	
255F3 257F3 259F3	TURBINE PUMP	MOTOR DRIVEN BORE 300 MM	3.	
256F3 258F3 260F3	MOTOR (FOR 255. 257. 259F3)	100 HP 1455 R.P.M.	3.	
261F3	KAGANO PUMP	CAP. UNKNOWN BORE 75 MM	1.	MOTOR MISSING
262F3 263F3	BLOWER CASE	MATERIAL STEEL BLOWER ACCESSORY	2.	
264F3 265F3	MOTOR	INDUCTION 40 HP	2	
269F3 ~ 270F3	MOTOR	INDUCTION 25 HP	4.	

DECLASSIFIED E.O. 13526

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
271F3	MOTOR	INDUCTION 7.5 HP 1400/1700 R.P.M	1.	
272F3	BEARING BED	DIA OF SHAFT 50 MM	1	
273F3	" "	" " 40 MM	1.	
275F3	ACCESSORY OF GAS COMPRESSOR	800 HP	1.	
276F3 277F3	MOTOR	INDUCTION 7.5 HP 720/860 R.P.M.	2.	277F3 BED 20% DAMAGE
278F3 279F3	WORTHINGTON PUMP	CAP. 0.25 M³/MIN 190×150×250 MM	2.	
283F3~289F3	TRANSFORME	CAP. 439 KTA 3400 V/345 V	7.	
290F3	BATTERY	110 V 2 V ×55 PIECES	1.	
291F3 292F3	RECTIFIRE	DC. 125 AC. 210/220 CAP. 125 KW	2.	REFLEX MISSING
293F3	"	DC. 100/160 AC. 220	1.	" "
294F3~300F3	VOLTAGE REGULATOR		7.	294F3 REFLEX MISSING
301F3~307F3	OIL CIRCUIT BREAKER	11.500 V 400 A	7.	MAGUNET SWITCH MISSING
308F3	" " "	3.500 V 800 A	1.	" " " "
309F3~313F3	" " "	6.600 V 200 A	5	" " " "

DECLASSIFIED E.O. 12065 SECTION 3 NND

DECLASSIFIED E.O. 12065 SECTION 3 402/NNDS

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
314F3 ~ 316F3	OIL CIRCUIT BREAKER	3,500 V 500 A	3.	MAGUNET SWITCH MISSING
317F3 318F3	〃 〃 〃	3,500 V 100 A	2	〃 〃 〃
319F3 320F3	〃 〃 〃	V.A. UNKNOWN	2	〃 〃 〃
321F3	MAGUNET SWITCH (112 P.CS.)	100 V	1.	32 SWITCH CASES MISSING
322F3 ~ 327F3	TRANSFORMER	CAP. 75 KVA 3450 V / 210 V	6.	
328F3 ~ 337F3	〃	〃 50 KVA 〃	10	
338F3 339F3	〃		2.	
340F3 ~ 343F3	〃	CAP. 15 KVA 3450 V / 210 V	4.	
344F3 ~ 346F3	STARTING REACTOR	〃 510 KVA	3.	
347F3 348F3	SWITCH BOARD		2.	RELAYS DAMAGED
349F3 350F3	SWITCH BOX		2	349F3 RELAYS DAMAGED 350F3 AMP METERS 〃
351F3	OIL CIRCUIT BREAKER	3,500 V 1,000 A	1.	
352F3	METER BOARD	2.6 MW x 2.5 MH	1.	METER MISSING
353F3	〃 〃	2. MW x 2.2 MH	1.	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
354F3	METER BOARD	2.5 MW × 2.1 MH	1.	METER UNCOMPLATED
355F3 ~ 357F3	SWITCH BOARD	3.300 V 125 HP	3.	
358F3 ~ 362F3	〃 〃	3.300 V 60 HP	5	358F3 AMMETER DAMAGE
363F3	EXCITER	110 V 30 KW 1750 R.P.M.	1.	
364F3	MOTOR (FOR 363F3)	50 HP 1750 R.P.M.	1.	
365F3 367F3 369F3	EXCITER	110 V 13 KW 1450 R.P.M	3.	
366F3 368F3 370F3	MOTOR (FOR 365. 367. 369F3)	21 HP 1450 R.P.M.	3.	
371F3 373F3 375F3	EXCITER	110 V 16 KW 1450 R.P.M.	3.	
372F3 374F3 376F3	MOTOR (FOR 371. 373. 375F3)	25 HP 1450 R.P.M.	3.	
NONE NUMBER	VALVE	GLOVE SIZE 150 MM FACE TO FACE 300 MM	1	
〃	〃	SLUICE 〃 350 〃 〃 400 〃	1	
〃	〃	〃 〃 400 〃 〃 450 〃	1.	
〃	〃 (3 PCS)	550 〃 400 〃	1.	
〃	〃 (3 PCS)	〃 〃 600 〃 〃 500 〃	1.	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
NONE NUMBER	VALVE (4 PCS)	SLUICE SIZE 900 MM FACE TO FACE 600 MM	1.	
		〃 〃 400 〃 〃 450 〃	1.	
△ 377F3	〃	〃 〃 400 〃 〃 400 〃	1.	
△ 378F3	〃	〃 〃 400 〃 〃 450 〃	1	
△ 379F3	〃	〃 〃 400 〃 〃 400 〃	7.	
△ 380F3 ~ 386F3	〃	〃 〃 150 〃 〃 350 〃	2.	
△ 387F3 388F3	〃	GLOVE 〃 150 〃 〃 350 〃	1.	
△ 389F3	〃	SLUICE 〃 350 〃 〃 400 〃	1.	
△ 390F3	〃	〃 〃 250 〃 〃 400 〃	8	
△ 391F3 ~ 398F3	〃	GLOVE 〃 250 〃 〃 720 〃	2.	
△ 399F3 400F3	〃	〃 〃 150 〃 〃 520 〃	1.	
△ 401F3	〃	SLUICE 〃 150 〃 〃 340 〃	2.	
△ 402F3 403F3	〃	GLOVE 〃 250 〃 〃 720 〃	2	
△ 404F3 405F3	〃	〃 〃 150 〃 〃 520 〃	1.	
△ 406F3	〃			

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DECLASSIFIED E.O. 12065 SECTION 3 402/NNDS NO.

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
△ 407F3 408F3	VALVE	SLUICE SIZE 150 MM FACE TO FACE 340 MM	2.	
△ 409F3 410F3	〃	CHECK 〃 250 〃 〃 600 〃	2.	
△ 411F3	〃	SLUICE 〃 175 〃 〃 270 〃	1.	
△ 412F3	〃	〃 〃 200 〃 〃 320 〃	1.	
△ 413F3	〃	〃 〃 175 〃 〃 270 〃	1.	
△ 414F3 415F3	〃	CHECK 〃 175 〃 〃 380 〃	2.	
△ 416F3	〃	SLUICE 〃 175 〃 〃 270 〃	1.	
△ 417F3	〃	CHECK 〃 175 〃 〃 275 〃	1.	
△ 418F3	〃	SLUICE 〃 175 〃 〃 370 〃	1.	
△ 419F3	〃	CHECK 〃 175 〃 〃 380 〃	1.	
△ 420F3 421F3	〃	SLUICE 〃 200 〃 〃 320 〃	2.	
△ 422F3	〃	〃 〃 175 〃 〃 270 〃	1.	
△ 423F3	〃	CHECK 〃 175 〃 〃 380 〃	1.	
△ 424F3	〃	SLUICE 〃 200 〃 〃 320 〃	1.	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
△ 425F3	VALVE	SLUICE SIZE 175 MM FACE TO FACE 270 MM	1.	
△ 426F3	〃	CHECK 〃 175 〃 〃 380 〃	1.	
△ 427F3	〃	SLUICE 〃 200 〃 〃 320 〃	1.	
△ 428F3	〃	〃 〃 175 〃 〃 270 〃	1.	
△ 429F3	〃	CHECK 〃 175 〃 〃 380 〃	1.	
△ 430F3	〃	SLUICE 〃 200 〃 〃 320 〃	1.	
△ 431F3	〃	〃 〃 175 〃 〃 270 〃	1.	
△ 432F3	〃	CHECK 〃 175 〃 〃 380 〃	1.	
△ 433F3~436F3	〃	SLUICE 〃 200 〃 〃 300 〃	4.	
△ 434F3	〃	〃 〃 150 〃 〃 270 〃	1	
△ 438F3	〃	〃 〃 200 〃 〃 300 〃	1.	
△ 439F3~442F3	〃	GLOVE 〃 200 〃 〃 600 〃	4.	
△ 443F3~445F3	〃	SLUICE 〃 150 〃 〃 350 〃	3.	
△ 446F3 447F3	〃	〃 〃 150 〃 〃 300 〃	2.	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
△ 448F3	VALVE	SLUICE SIZE 150 MM FACE TO FACE 500 〃	1.	
△ 449F3 ~ 451F3	〃	GLOVE 〃 150 〃 〃 300 〃	3	
△ 452F3	〃	SLUICE 〃 200 〃 〃 300 〃	1.	
△ 453F3 454F3	〃	〃 〃 250 〃 〃 300 〃	2	
△ 455F3	〃	〃 〃 150 〃 〃 270 〃	1.	
△ 456F3	〃	GLOVE 〃 150 〃 〃 500 〃	1.	
△ 457F3 ~ 459F3	〃	SLUICE 〃 150 〃 〃 250 〃	3	
△ 460F3 ~ 462F3	〃	GLOVE 〃 200 〃 〃 550 〃	3	
△ 463F3 464F3	〃	〃 〃 150 〃 〃 500 〃	2	
△ 465F3	〃	SLUICE 〃 200 〃 〃 400 〃	1.	
△ NONE NUMBER	〃 (9 PCS)	GLOVE 16 MM D	1.	
△ 〃	〃 (13 PCS)	GLOVE 16 MM D	1.	
△ 〃	〃 (3 PCS)	SLUICE 〃	1.	
△ 〃	〃 (33 PCS)	GLOVE 21 MM D	1.	

DECLASSIFIED E.O. 12065 SECTION 3 4(b)(3)

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
NONE NUMBER	VALVE (49 PCS)	GLOVE 21 MMD	1.	
"	" (4 PCS)	" "	1.	
"	" (5 PCS)	SLUICE "	1.	
"	" (47 PCS)	GLOVE 25 "	1	
"	" (37 PCS)	" "	1.	
"	" (15 PCS)	STOP "	1.	
"	" (5 PCS)	GLOVE 38 MMD	1.	
"	" (20 PCS)	" "	1.	2 SPINDLES DAMAGE
"	" (3 PCS)	" "	1.	
"	" (44 PCS)	STOP "	1.	HANDLES MISSING
"	" (4 PCS)	SLUICE "	1.	
"	" (17 PCS)	GLOVE 50 MMD	1.	2 HANDLES DAMAGE
"	" (68 PCS)	" "	1.	2 SPINDLES DAMAGE
"	" (7 PCS)	" "	1	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
NONE NUMBER	VALVE (31 PCS)	STOP 50 MMD	1.	
"	" (16 PCS)	SLUICE "	1.	
"	" (10 PCS)	" 65 "	1.	
"	" (24 PCS)	GLOVE 75 "	1	3 HANDLES & 2 SPINDLES DAMAGE
"	" (13 PCS)	" "	1.	
"	" (8 PCS)	SLUICE "	1.	
"	" (3 PCS)	GLOVE 110 MMD	1.	2 HANDLES DAMAGE
"	" (26 PCS)	" "	1.	HANDLES DAMAGE
"	" (10 PCS)	" "	1.	
"	" (111 PCS)	SLUICE "	1.	3. SPINDLES & 12 HANDLES DAMAGE
"	" (8 PCS)	" "	1.	
"	" (3 PCS)	REGLATION 25 MMD	1.	
"	" (3 PCS)	" 50 MMD	1.	
"	" (2 PCS)	" 75 MMD	1.	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
NONE NUMBER	VALVE (3 PCS)	REGLATION 100 MMD	1.	
〃	PIPE	GAS PIPE 21 MMΦ × 700 ML	1.	
〃	〃	〃 28" × 700"	1.	50M DAMAGE
〃	〃	〃 34" × 355"	1.	
〃	〃	DRAWN PIPE 40" × 300"	1.	
〃	〃	GAS PIPE 48" × 100"	1.	
〃	〃	DRAWN PIPE 50" × 90"	1	
〃	〃	〃 65" × 430"	1.	
〃	〃	GAS PIPE 60" × 1.400"	1.	355M DAMAGE
〃	〃	〃 60" × 550"	1.	
〃	〃	〃 65" × 625"	1.	
〃	〃	DRAWN PIPE 65" × 355"	1	
〃	〃	〃 65" × 285"	1.	
〃	〃	〃 75" × 315"	1.	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
NONE NUMBER	PIPE	DRAWN PIPE 75 MMD x 130 ML	1	
"	"	GAS PIPE 76 " x 125 "	1.	
"	"	" 89 " x 560 "	1.	215 M BOMB DAMAGE
"	"	DRAWN PIPE 90 " x 445 "	1.	
"	"	GAS PIPE 114 " x 3,560 "	1.	650 M BOMB DAMAGE
"	"	" 114 " x 300 "	1.	
"	"	DRAWN PIPE 115 " x 500 "	1.	
"	"	" 115 " x 290 "	1.	
"	"	GAS PIPE 165 " x 250 "	1.	35 M BOMB DAMAGE
"	"	" 165 " x 120 "	1.	
"	"	DRAWN PIPE 140 " x 225 "	1.	
"	"	" 170 " x 230 "	1.	
"	"	GAS PIPE 216 " x 200 "	1.	
"	"	" 216 " x 350 "	1.	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
NONE NUMBER	PIPE	GAS PIPE 267 MMD x 295 ML	1.	
"	"	DRAWN PIPE 270" x 280"	1.	
"	"	GAS PIPE 318" x 25"	1.	
"	"	WELDED PIPE 350" x 900"	1.	220 M BOMB DAMAGE
"	"	" 400" x 145"	1.	15 M BOMB DAMAGE
"	"	" 600" x 40"	1	
"	"	" 700" x 200"	1.	45 M BOMB DAMAGE
"	STEAM TRAP	FLOAT TYPE 19 MM	1.	
"	STEAM TRAPS (2 PCS)	" 25 MM	1.	
TOTL			529	

HYDROGEN PURIFICATION PLANT

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
668F5 681F5	COMPRESSOR (FOR N_2 GAS)	SINGLE ACTING CAP. 1.860 M^3/H DEL. PRESS 200 Kg/cm^2	2	
669F5 682F5	MOTOR (FOR 668. 681F5)	SYNCHRONOUS 730 HP 120 R.P.M. 3,300 V	2	
670F5 683F5	COOLER (FOR 668. 681F5)	VERTICAL 1.65 MΦ x 2.4 MH	2	
671F5 684F5	〃 〃	VERTICAL 0.77 MΦ x 3.4 MH	2	
672F5 685F5	〃 〃	VERTICAL 0.66 MΦ x 3.4 MH	2	
673F5 686F5	DRAIN SEPARATOR	VERTICAL 2.4 MΦ x 1.45 MH	2	
674F5 687F5	〃 〃	VERTICAL 2.2 MΦ x 1.43 MH	2	
675F5 688F5	〃 〃	VERTICAL 0.5 MΦ x 2 MH	2	
676F5 689F5	〃 〃	VERTICAL 0.37 MΦ x 1.7 MH	2	
677F5 690F5	〃 〃	VERTICAL 0.3 MΦ x 1.7 MH	2	
678F5 691F5	VALVE	SLUICE SIZE 150 MM FACE TO FACE 500 MM	2	
679F5 692F5	SWITCH BOX	STAND TYPE 5 ~ 150 A	2	692F5 METER DAMAGE 80 %
680F5 693F5	GAUGE (5 PCS)	FOR N_2 GAS, PRESSURE GAUGE	2	693F5 GAUGE DAMAGE 60 %

TOTAL			26	

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SUBSTATION & DISTRIBUTION PLANT

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
47(80)	TRANSFORMER	20 KVA 3.300 V / 210-105 V	1.	
47(81)	〃 〃	75 〃 〃 〃	1.	
47(101) 47(102)	〃 〃	350 〃 44.000 V / 3.450 V	2.	
47(103)	〃 〃	75 〃 3.300 V / 210-105 V	1.	
47(6)	PANEL	500 × 2,300 × 75 MM	1.	METER & POWER-FACTOR MISSING
47(7)	〃	〃 〃 〃	1	〃 〃
47(8)~47(12)	CONTROL PANEL	〃 〃 〃	5	WATTHOUR METER MISSING
47(13)	〃 〃	〃 〃 〃	1.	O.C.B. MISSING
47(14)~47(17)	〃 〃	〃 〃 〃	4	WATTHOUR METER MISSING
47(25)	〃 〃	〃 〃 〃	1	VOLT METER BROKEN
47(28)	〃 〃	〃 〃 〃	1.	
47(61)~47(64)	〃 〃	400 × 2.300 × 75 MM	4	RELAY AMMETER WATTMETER BROKEN
47(74) 47(75)	〃 〃	400 × 800 × 40 MM	2	METER & LEVER SWITCH MISSING

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
47(90)	CONTROL PANEL	400 × 800 × 40 MM	1	VOLT METER AMMETER MISSING
47(91)	〃 〃	〃 〃 〃	1.	VOLT METER LEVER SWITCH MISSING
47(96)	〃 〃	〃 〃 〃	1.	
47(97)~47(100)	〃 〃	600 × 2,300 × 40 MM	4.	GLASS OF OVER CURRENTRELAY } BROKEN
47(34) 47(35)	MERCURY ARCRECTIFIER	AC. 220 V DC. 100 V	2.	AMMETER GLASS VALVE MISSING
47(65)	STATIC CONDENSER	3 φ 25 KVA 3.300 V	1.	
47(104)	〃 〃 (2)	〃 〃 〃	1.	
1136	〃 〃 (12)	〃 〃 〃	1.	
47(68)~47(70)	CURRET LIMITING REACTOR	18 KVA 1 φ 3.300 V	3.	
47(71) 47(73)	POLE OIL SWITCH (4)	3 φ 3.300 V 100 A	2.	
47(78) 47(95)	〃 〃	〃 〃 〃	2.	47(78) 2 PCS
1138 - 1	〃 〃	〃 〃 80 A	1.	
1138 - 2	〃 〃	〃 〃 100 A	1	
47(85)	〃 〃 (3)	〃 〃 200 A	1.	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
47(85)	POLE OIL SWITCH	3 φ 3,300 V 60 A	1.	
47(37)	AUTO-TRANSFORMER	125 KVA 3 φ 3,300 V/220 V	1.	
47(39) 47(40)	TRANSFORMER	3 " " "	2	
47(76)	" "	50 " 1 φ "	1.	
47(77)(87)(92)	" "	25 " " "	3.	
47(94) 1139	" "	20 " " "	2.	
47(55)	INDUCTION VOLTAGE REGULATOR	100 KVA 3,300 V 1,650 V	1.	MOTOR MISSING
47(72)	" "	" " "	1.	
47(167)	" "	30 KVA 3,300 V / 300±300	1.	MOTOR MISSING
44(180)	TRANSFORMER	350 KVA 1 φ 44,000 V / 3,300 V	1.	
44(181)	" "	200 " " "	1.	CORE & COIL MISSING
44(182)	" "	" " "	1.	
47(180)	" "	20 KVA 1 φ 3,300 V / 210-105 V	1	
47(43)~47(46)	CONTROL PANEL	400 × 2,300 × 75 MM	4	GLASS OF OVER CURRENT RELAY BROKEN

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
140	REACTOR CURRENT LIMITING (6)		1.	
47(54)	POLE OIL SWITCH (4)	3 ϕ 3.300 V 100 A	1.	
47(58)	" " (4)	" " "	1.	
47(82)	" "	" " "	1.	
47(83)	" " (3)	" " "	1.	
47(84)	" " (2)	" " "	1.	
1137 1141	" "	" " "	2	
NONE NUMBER	BUS BAR	6 MM x 100 MM 500 ML	1.	
TOTAL			77	

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WATER FEEDING PUMP PLANT

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
7F15 11F15	PUMP	8.35 M3/MIN HEAD 75 M BORE 300 MM	2	
8F15	MOTOR (FOR 7F15)	3,300 V 220 HP 1,755 R.P.M	1.	
9F15	CONTROLLER (FOR 8F15)	3 Φ 2ND 1,000 V	1.	
10F15	PUMP	DECIPRO SIZE 250 x 200 x 250 MM	1.	
12F15	SPEED REDUCER	1:47 250 HP	1.	
13F15	DIESEL ENGINE	4 CYLINDERS 130 MMD STROKE 155 MM 375 R.P.M.	1.	
14F15	AIR COMPRESSOR	VERTICAL 1 HP CAP. UNKNOWN	1.	
15F15	GASOLINE ENGINE	CAP. R.P.M. UNKNOWN	1.	FOR 14F15
16F15	PUMP	BELT DRIVEN HEAD 15 M	1.	
17F15	TANK	0.9 MΦ x 1.2 MH 9 KL	1.	
TOTAL			11.	

ELECTRIC POWER STATION

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
1F21	BELT CONVEYER	CAP. 100T/H, MOTOR 440V 15KW. TRAVELLING DISTANCE 118M	1	BELT 150M MISSING FRAME 5M BROKEN
2F21~7F21	COAL FEEDER	TABLE TYPE, CAP. 7T/H MOTOR 2HP	6	MOTOR MISSING
8F21~11F21	AUTOMATIC BALANCE FEEDER	HOPPER TYPE, CAP. 10T/H	4	MANY PART MISSING
12F21~17F21	PULVERIZER	BONNET TUBE MILL, TYPE 160HP CAP. 7T/H, 200MESH 80~85% 900RPM	6	MOTOR MISSING
18F21~23F21	EXHAUST FAN	INVOLUTE TYPE, 75HP CAP. 360M3/MIN, PRESS. 400MM/HG	6	18F21, 19F21 MOTOR MISSING
24F21	OIL PUMP FOR BURNER	ROTARY TYPE CAP. 28M3/H FEED 28M3/H	1	MOTOR MISSING
25F21~32F21	BURNER	VERTICAL TYPE, NOZZLE 2 FEED PIPE 254MMΦ	8	
33F21, 34F21	STEAM BOILER	SECTIONAL HEADER TYPE CAP. 65T/H PRESS. 35KG/CM2	2	
35F21, 36F21	SUPER HEATER	HORIZONTAL LOOP TYPE HEATING SURFACE 300M2	2	
37F21, 38F21	ECONOMIZER	HEATING TUBE TYPE HEATING SURFACE 455M2	2	
39F21, 40F21	AIR HEATER	PLATE TYPE HEATING SURFACE 2,000M2	2	
41F21~44F21	FORCE DRAUGHT FAN	MULTI VANE TYPE 90HP CAP. 900M3/MIN, PRESS. 200MM/HG	4	
45F21~50F21	INDUCED DRAUGHT FAN	MULTI VANE TYPE 175HP CAP. 1650M3/MIN, PRESS. 200MM/HG	6	49F21 COIL DAMAGE

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
51F21 . 52F21	CHIMNEY AND FLUE DUCT	STEEL PLATE 3.5$^{M}\phi$ x 17.5^{MH}, 6.3^{MW} x 1.5^{MH}	2	
53F21. 54F21	SOFTENING DEVICE OF FEED WATER	2.7$^{M}\phi$ x 2.4^{MH}	2	MEDICAL LIQUID SOLN TANK MISSING
55F21. 56F21	RAW WATER PUMP	ROTARY TYPE 10 HP CAP. 120$^{M^3/H}$ HEAD 12^{M}	2	MOTOR MISSING
57F21. 58F21	SEA WATER PUMP	ROTARY TYPE 7.5 HP CAP. 85$^{M^3/H}$ HEAD 12M	2	MOTOR MISSING
59F21. 60F21	STEAM REDUCER AND DISUPER HEATING DEVICE	CAP. 55 T/H, MOTOR 15 HP	2	MOTOR MISSING
61F21	BOILER FEED WATER TANK	SPHERICAL TYPE CAP. 30$^{M^3}$. 3$^{M}\phi$ x 5^{MH}	1	
62F21. 63F21	BOILER FEED WATER PUMP	6 STAGES TURBINE, STEAM TURBINE DRIVEN. CAP. 165 T/H, PRESS 33 $^{kg/cm^2}$	2	
64F21. 65F21	SPECIAL GAUGE AND BOARD OF BOILER	STEAM FLOW METER ETC	2	ALL METER BROKEN
66F21	SPECIAL GAUGE FOR TURBINE ROOM	GAUGE BOARD ETC	1	〃
67F21	SPECIAL GAUGE FOR STEAM CONVERTER AND EVAPORATOR	GAUGE BOAD ETC	1	〃
44(45)	PIPING FOR BOILER ROOM	MAIN STEAM PIPE ETC	1	
68F21. 69F21	JET PUMP	ROTARY TYPE CAP. 5$^{M^3/MIN}$. HEAD 20^{M}	2	MOTOR MISSING
70F21. 71F21	ASH HANDLING MECHANISM	CAP. 15 T/H 15 HP CHANE 430^{MMW} x 8.5^{ML}	2	〃
44(99) 44(196)	PIPING AND SCREEN FOR ASH HANDLING EQUIPMENT	CAST IRON 200$^{mm}\phi$ x 105 ML VALVE, SCREEN ETC	2	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
72F21. 73F21	STEAM TURBINE	EXTRACTION TYPE. 3.600 RPM CAP. 4000 KW PRESS. 33 kg/cm^2	2	GOVERNER, MOTOR MISSING
74F21. 75F21	TURBO GENERATOR	T.A.E TYPE. CAP. 5,000 KVA 3.300 V 3.600 RPM.	2	DIAL, THERMOMETER BROKEN
76F21. 77F21	EXCITER	S.T.E 207 D.C 30 KW 3,600 RPM. 110 V	2	CARBON BRUSH MISSING
78F21. 79F21	AIR COOLER	COOLING AREA 280 M^2	2	
80F21	TEMPERATURE INDICATOR PANEL	MARBLE INDICATOR 0~120°C	1	INDICATOR BROKEN
81F21. 82F21	CONDENSER	HORIZONTAL SURFACE CONDENSER COOLING AREA 400 M^2	2	7.5 HP MOTOR MISSING
83F21~86F21	CONDENSATE PUMP	CAP. 25 M^3/MIN SUC. 120 mm DEL. 75 mm	4	〃
87F21. 88F21	AIR EJECTOR	2 STAGE STEAM EJECTOR TYPE STEAM PRESS. 33 kg/cm^2	2	
89F21~91F21	STEAM CONVERTOR	1.6 Mϕ x 10 ML HEATING SURFACE 315 M^2	3	
92F21	1 ST FEED WATER PREHEATER	750 mmϕ x 2.9 ML HEATING SURFACE 30 M^2	1	
93F21	2 ND FEED WATER PREHEATER	1 Mϕ x 3.9 ML HEATING SURFACE 50 M^2	1	
94F21. 95F21	CONDENSATE WATER PUMP FOR STEAM CONVERTOR	VOLUTE PUMP TYPE CAP. 75 M^3/MIN 1.800 RPM	2	10 HP MOTOR MISSING
96F21. 97F21	MAIN EVAPORATOR UTILIZING EXHAUST GAS	KARANDRIA CAP. 20 T/H HEATING AREA 160 m^2	2	
98F21	1 ST FEED WATER PREHEATER FOR EVAPORATOR	HORIZONTAL HEATING AREA 40 M^2	1	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
99F21~101F21	MAIN EVAPORATOR	KARANDRIA 1.8MΦ × 4MH CAP. 22T/H, HEATING AREA 75M²	3	
102F21	EVAPORATOR FOR CONDENSER	COOLING AREA 320M² 1.5MΦ × 4ML	1	
103F21	COOLER FOR EXTRACTION PUMP	STEAM EJECTER TYPE 500mmΦ × 1.5ML	1	
104F21	2ND FEED WATER PREHEATER FOR EVAPORATOR	HORIZONTAL SURFACE HEATING TYPE, VERTICAL AREA 5M²	1	
105F21, 106F21	FEED PUMP FOR EVAPORATOR VACUUM PUMP	CAP. 50M³/H, DIA. 100mm	2	20 HP MOTOR MISSING
107F21	CONDENSATE PUMP FOR EVAPORATOR CONDENSER	VOLUTE PUMP, CAP. 30M³/H DIA. SUC = 130mm DEL = 75mm	1	10 HP MOTOR MISSING
108F21, 109F21	BRINE PUMP	VOLUTE PUMP, CAP. 30M³/H DIA. SUC = 50mm DEL = 38mm	2	2 HP MOTOR MISSING
110F21, 111F21	CONDENSATE PUMP	VOLUTE PUMP, CAP. 30M³/H DIA SUC = 130mm DEL = 75mm	2	5 HP MOTOR MISSING
112F21	AIR SEPARATER	HORIZONTAL CYLINDRICAL CAP. 130M³/H 1.8MΦ × 4ML	1	
113F21	VENT CONDENSER	HORIZONTAL CYLINDRICAL COOLING AREA 15M² 0.5MΦ × 1.5ML	1	
114F21	OIL PURIFIRE	CAP. 200GAL/H 1HP	1	MOTOR MISSING
115F21	ATMOSPHERIC RELIEF VALVE	ACTION STEAM PRESS 11Kg/cm² CAP. 50T/H	1	
116F21	〃	ACTION STEAM PRESS 6Kg/cm² CAP. 50T/H	1	
44(46)	PIPING FOR TURBINE ROOM	STEAM PIPE AND WATER PIPE ETC	1	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
117F21. 119F21 121F21.	COOLING WATER PUMP	CAP. 200 M^3/MIN . HEAD 20 M BORE 500 MM 870 RPM	3	
118F21 120F21 122F21	INDUCTION MOTOR	230 HP 870 R.P.M	3	
NONE NUMBER	3 PCS VALVE	GATE SIZE 500 MM FACE TO FACE 500 MM	1	
〃	3 〃 〃	〃 〃 482 MM 〃 〃 500 MM	1	
〃	PIPE	WELDING PIPE 452 MM OD x 45 ML	1	
〃	〃	〃 (UNDER GROUND) 760 MM OD x 480 ML	1	
123F21. 124F21	AUTOMATIC VOLTAGE REGULATOR PANEL	STEEL PLATE D.C 110 V	2	RELAY BROKEN
125F21. 126F21	FIELD SWITCH PANEL AND GENERATOR FIELD RHEOSTAT	D.C 110 V MOTOR OPERATED	2	CONTROL MOTOR FUSE SIGNAL MISSING AMP LAMP SHUNT
127F21. 128F21	MAIN SWITCH BOARD (GENERATOR)	SHEET IRON PANEL 0.6 M x 2.3 M x 75 MM	2	CONTROL MOTOR FUSE SIGNAL MISSING METER4 RELAY BROKEN
129F21	MAIN SWITCH BOARD (TIE LINE)	〃 〃 0.5 M x 2.3 M x 75 MM	1	WATT HOUR METER MISSING
130F21~132F21	MAIN SWITCH BOARD (MAIN STATION SERVICE)	〃 〃 0.4 M x 2.35 M x 75 MM	3	METER AND RELAY BROKEN
133F21	MAIN SWITCH BOARD (STATION TRANSFORMER)	〃 〃 〃 〃 〃	1	RELAY, METER AND LAMP BROKEN
134F21	MAIN SWITCH BOARD (COAL HANDLING PLANT TRANSFORMER)	〃 〃 0.4 M x 2.55 M x 75 MM	1	A.C METER . WATT HOUR METER MISSING
187F21~189F21	REACTOR	TYPE RT-2 1 PHASE 3300 V 60 CYCLE 100 KVA	3	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS
190F21	2 STATIC CONDENSER	25 KVA 3φ 3300V	1	
191F21	PANEL	4 MARBLE PANEL 0.6M x 3M x 40mm	1	METER MISSING
135F21 . 136F21	LAMP SIGNAL DEVEICES	D.C 110V	2	SIGNAL LAMP MISSING SWITCH BROKEN
137F21 . 138F21	SWITCH CUBICLE	SHEET IRON SWITCH CUBICLE WITH O.C.B. 30A A.C. METER ETC	2	〃 〃
139F21 . 140F21	〃	〃 〃 75A 〃	2	139F21 SIGNAL LAMP MISSING
141F21 . 142F21	〃	〃 〃 30A 〃	2	GLASS OF RELAY BROKEN
143F21 . 144F21	〃	〃 〃 75A 〃	2	〃
145F21 : 146F21	〃	〃 〃 30A 〃	2	〃
147F21 . 148F21	〃	〃 〃 75A 〃	2	
149F21 . 150F21	〃	〃 〃 30A 〃	2	
151F21 . 152F21	〃	〃 〃 75A 〃	2	
153F21	〃	〃 〃 100A 〃	1	
154F21	〃	〃 〃 150A 〃	1	
155F21 . 156F21	〃	〃 〃 100A 〃	2	

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INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
157F21. 158F21	SWITCH CUBICLE	SHEET IRON SWITCH CUBICLE WITH O.C.B 30A A.C METER ETC	2	158F21 RELAY BROKEN
159F21. 160F21	〃	〃 〃 75A 〃	2	
161F21. 162F21	〃	〃 〃 30A 〃	2	RELAY BROKEN
163F21. 164F21	〃	〃 〃 75A 〃	2	164F21 4-RELAY BROKEN
165F21~172F21	CONTROL DESK BOARD	SHEET IRON DESK BOARD WITH 3 CONTROL SWITCH ETC	8	SIGNAL LAMP BROKEN
173F21. 174F21	〃	〃 〃 34 〃	2	〃
175F21. 176F21	MOTOR GENERATOR	511.25 KW 1,732 RPM	2	A.C MOTOR AND D.C EXCITER MISSING
177F21. 178F21	PANEL	1- MARBLE PANEL WITH VOLT. AMP METER ETC	2	RECTIFIER MISSING
179F21	MERCURY ARC RECTIFIER	TYPE M35-12-20	1	
198F21	PANEL	3 SECTION MARBLE BOARD WITH METER AND SWITCH ETC	1	
180F21	BUSBAR	COPPER 6 mm × 100 mm × 120 ML	1	
181F21	MAIN CABLE	SINGLE CONDUCTOR 400 M2 × 120 ML	.1	
182F21	OVER HEAD TRAVELLING CRANE	CAP. 20 T WITH 20. 15. 10. 5 KW MOTOR	1	WIRE ROPE MISSING
183F21	TRAMSFORMER	TYPE H.C.R. 200 KVA 1φ 3300 V/210.105	1	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUAN-TITY	REMARKS.
192F21. 193F21 194F21	TRANSFORMER	TYPE H.C.R 200 KVA 1φ 3300V/210.105	3	
185F21	〃	50 KVA 1φ 3300V/210.105	1	
186F21	〃	5 KVA 1φ 3300V/210.105	1	
TOTAL			202 ~~145~~	

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DECLASSIFIED E.O. 12065 SECTION 3 402/NNDS NO.

BUTHANOL DEHYDRO-POLYMERIZATION PLANT

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
74F9 ~ 82F9	BUTHYLENE TANK	52 KL 2.5 MΦ x 10.5 ML	9.	
189F9 ~ 214F9	〃 〃	〃 〃 〃	16.	
TOTAL			25	

TRANSPORT PLANT

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
613	TRAM WAY	8 Kg 3.120 ML	1.	
TOTAL			1.	

METHAN CRACKING PLANT

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
143F5 145F5	THYSENS WASHER	CENTRIFUGAL CAP. 333 M3/MIN PRESS 50 MM/W.G 125 HP	2	
144F5 146F5	MOTOR (FOR 143F5 145F5)	INDUCTION 125 HP 900 R.P.M	2	
149F5 151F5	AIR BLOWER	TURBOFAN CAP. 667 M3/MIN PRESS 400 MM/W.G 125 HP	2	
150F5 152F5	MOTOR (FOR 149F5 151F5)	INDUCTION 125 HP 1.800 R.P.M	2	
155F5 157F5	WASTE GAS BLOWER	TURBOFAN CAP. 400 M3/MIN 250°C PRESS 120 MM/W.G 20 HP	2	
156F5 158F5	MOTOR (FOR 155F5 157F5)	INDUCTION 20 HP 1.200 R.P.M	2	
159F5	PUMP (FOR WATER FEED BOILER)	TURBINE CAP. 125 L/MIN PRESS 30 M/W.G 3 HP 5 STAGE	1.	MOTOR MISSING
160F5	HOT WATER PUMP	TURBINE CAP. 5 M3/MIN PRESS 20 M/W.G 60 HP	1.	
161F5	MOTOR (FOR 160F5)	INDUCTION 60 HP 1.800 R.P.M	1.	
162F5 164F5	COLD WATER PUMP	TURBINE CAP. 5 M3/MIN PRESS 45 M/W.G 100 HP	2.	
163F5 165F5	MOTOR (FOR 162F5 164F5)	INDUCTION 3.300 V 100 HP 1.800 R.P.M.	2	
166F5 168F5	WASTE WATER PUMP	TURBINE CAP. 1.65 M3/MIN PRESS 11.2 M/W.G 7.5 HP	2	
167F5 169F5	MOTOR (FOR 166F5 168F5)	INDUCTION 7.5 HP 1.800 R.P.M	2	

INV. NO.	NAME OF MACHINERY	BRIEF SPECIFICATIONS	QUANTITY	REMARKS
172F5 173F5	AIR COMPRESSOR	DECIPROCATING 40 HP CAP. 6.31 M^3/MIN PRESS 7 KG/CM^2	2	MOTOR MISSING
174F5	AIR ACCUMULATOR	VERTICAL CAP. 12 M^3 PRESS 6 KG/CM^2	1.	
175F5	AUTOMATIC PRESSURE REGULATOR	ASCANIA TYPE	1.	
199F5	FUEL GAS HOLDER	VERTICAL CAP. 5,000 M^3 PRESS 200 MM/W.G 20.1 MD	1.	BODY 30% DAMAGED BY BOMBING
200F5	CO_2 GAS HOLDER	VERTICAL CAP. 2.000 M^3 PRESS 200 MM/W.G 16 MD	1.	BODY 10% DAMAGED BY BOMBING
201F5	RAW GAS HOLDER	VERTICAL CAP. 5.000 M^3 PRESS 200 MM/W.G 20.1 MD	1.	BODY 10% DAMAGED BY BOMBING
TOTAL			30	
SUM TOTAL			1543 ~~1536~~	

DECLASSIFIED E.O. 12065 SECTION 3 NSC MEMO

3. LAND

AREA NO.	AREA (TSUBO)	REMARKS
I	2,235	SOME PART
II	3,513	
III	5,193	
V	7,028	
IX	6,763	
XII	1,513	SOME PART
XVII	7,895	
XVIII	7,364	
XX	7,077	
XXII	2,917	SOME PART
ROAD	5375	
TOTAL	56,873 (46,457 ACRES)	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDS

2. BUILDING

AREA NO.	BUILDING NO.	NAME OF BUILDING	TOTAL AREA (TSUBO)	CONSTRUCTION	REMARKS
1	1	WATER FEEDING PUMP HOUSE	78	WOODEN, ONE STORIED.	
〃	3	SUBSTATION	218	FIRST STORIED, REIFOCED CONCRETE.	
2	4	CENTRAL LABORATORY	472	REIFOCED CONCRETE, FIRST STORIED.	
〃	6	DRUG STOCK-ROOM	20	REIFOCED CONCRETE, ONE STORIED.	
〃	7	C.F.R ENGINE ROOM	112	〃	
〃	10	POWER DISTRIBUTION HOUSE	18	STEEL, ONE STORIED.	
3	11	POWER STATION	680	STEEL AND REIFOCED CONCRETE, ONE STORIED.	
〃	13	ASH HANDLING PLANT	9	STEEL, ONE STORIED.	
5	19	POWER DISTRIBUTION HOUSE	20	〃	
〃	20	WATER GAS GENERATION PLANT	160	〃	
〃	23	CO GAS CONVERSION PLANT	240	〃	
〃	24	PUMP HOUSE	25	〃	
9	50	〃	43	〃	

AREA NO.	BUILDING NO.	NAME OF BUILDING	TOTAL AREA (TSUBO)	CONSTRUCTION	REMARKS
9	51	HYDRO CRACKING PLANT	1142	STEEL, FIRST STORIED.	
〃	52	Cu - LYE REGENERATION PLANT	26	REINFOCED CONCRETE, ONE STORIED.	
13	65	CONSUMER'S ASSOCIATION	205	WOODEN, ONE STORIED.	
〃	66	KITCHEN	290	〃	
18	77	BUTHANOL DEHYDRO POLYMERIZATION PLANT	417	STEEL, ONE STORIED.	
〃	78	〃	391	〃	
〃	79	RUBBER DESTRUCTION, DISTILLATION PLANT	218	〃	
〃	80	RUBBER STORE-ROOM	308	WOODEN, ONE STORIED	
〃	83	CATALYST FACTORY	234	REITFOCED CONCRETE, ONE STORIED.	
〃	86	CATALYST STOCK-ROOM	234	WOODEN, ONE STORIED.	
23	96	SOLVENT EXTRACTION WORKSHOP (EDELEANU)	431	STEEL, ONE STORIED	
10	82	PRODUCER GAS GENERATION PLANT	57	〃	
		TOTAL	6048		
			(4.9 ACRES)		

DECLASSIFIED E.O. 12065 SECTION 3-402/NWS

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. [illegible]

The allocation of salt for the soda industry is decided every quarter period. At present 10,000 metric tons and 30,000 metric tons are allocated to the electrolytic and ammonia soda processes respectively, while in the prewar 1937 1,376,092 metric tons were consumed.

Now that the import of the near-water product can not be expected, a large influx from distant waters is the prerequisite for future development of the soda industry.

To promote the procurement of materials by import, the management of the soda industry is carried out in the form of process manufacture by which some quantities of products are to be exported as collateral for imported salt and coal.

Such type of management is quite unavoidable under the present circumstances in which it is expected the shortage of materials will have to be coped with for some time to come. Accordingly the soda industry must be developed in the form of process business, and it is hoped that foreign demands for caustic soda and soda ash, as well as the import of salt and coal, will be greatly increased in future.

Five Year Plan

The soda industry is included in the Five Year Plan for Japanese Economic Recovery made public by the Economic Stabilization Board in May 1948. Now let us compare this plan with the Stike report in the following table.

(Unit : 1,000 metric tons)

	Goal Year	Soda Ash	Caustic Soda: Ammonia Process	Caustic Soda: Electrolytic Process	Total	Equivalent to all ash of ammonia process
ESB Plan	1952	158	---	---	238	---
Strike Report ...	1953	412	170	221	391	722
Private Plan (Manufacturers' Plan)						
	A 1952	205	164	146	310	435,
	B 1953	281	277	156	434	669

Note: 1. The figures in A are worked out from the estimated scale in 1952 of those industries for which soda is demanded.

2. The figures in B are assumed from the estimated increase in the population in 1953 with 1938 as base.

As shown in the above table the rehabilitation goal of the soda industry set by the ESB plan is far lower than that of the Strike Report. This is because the goal is set in different years. If this industry is restored to the 1952 level of the ESB plan, it is estimated that the recovery in 1953 will nearly reach the figures in the Strike Report, because the reconstruction of mining and other industries is expected to increase by approximately 15 per cent in 1952 over 1951.

Further, a revised plan is now projected by the ESB which is classed between A and B plans of the manufacturers. Therefore the rehabilitation of this industry will come much closer to the level of the Strike Report.

The contents of A plan are as follows :

Electrolytic Process	Caustic Soda 146,000 MT	Chlorine 132,000 MT
	Hydrochloric Acid	106,000 MT
	Bleaching Powder	116,000 "
	Liquid Chlorine	21,500 "
	Other Chlorine Compounds	
Ammonia Process	Caustic Soda 164,000 MT	Soda Ash 205,000 MT
		Total (interms of soda ash) 434,600 MT
		Calculation : 205,000-164,000x1.4=434,600

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDS NO.

山口縣德山市大字德山八三五五番地
德山郵便局私書函第八號

德山曹達株式會社

電話長一三七番
發信略語（ソウ）
振替口座廣島一六二一八番

Tokuyama Soda

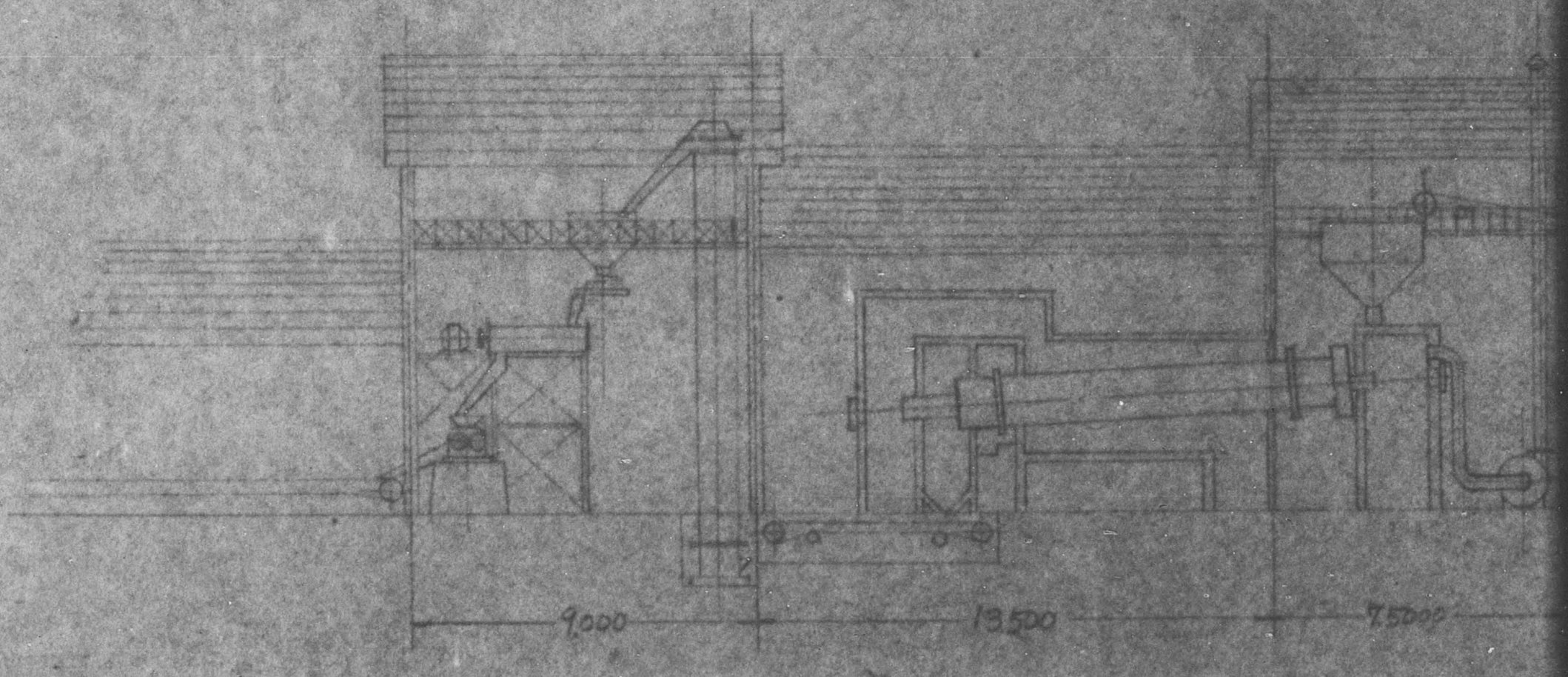
(英文)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDS NO.

DECLASSIFIED E.O. 12065 SECTION 3 102/MSC NO.

VII. B: Ammonium Chloride

24-9-1

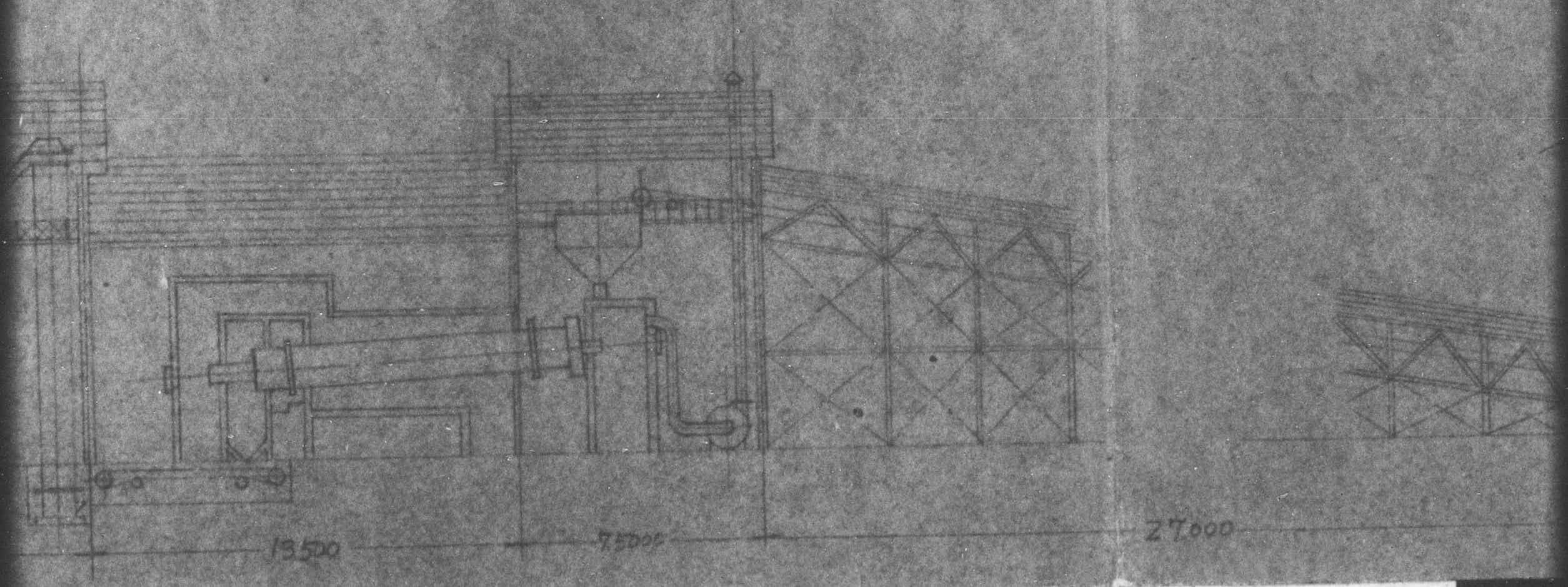


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. [illegible]

nium Chloride Fertilizer Plant.

24-9-1

TOKUYAMA SODA

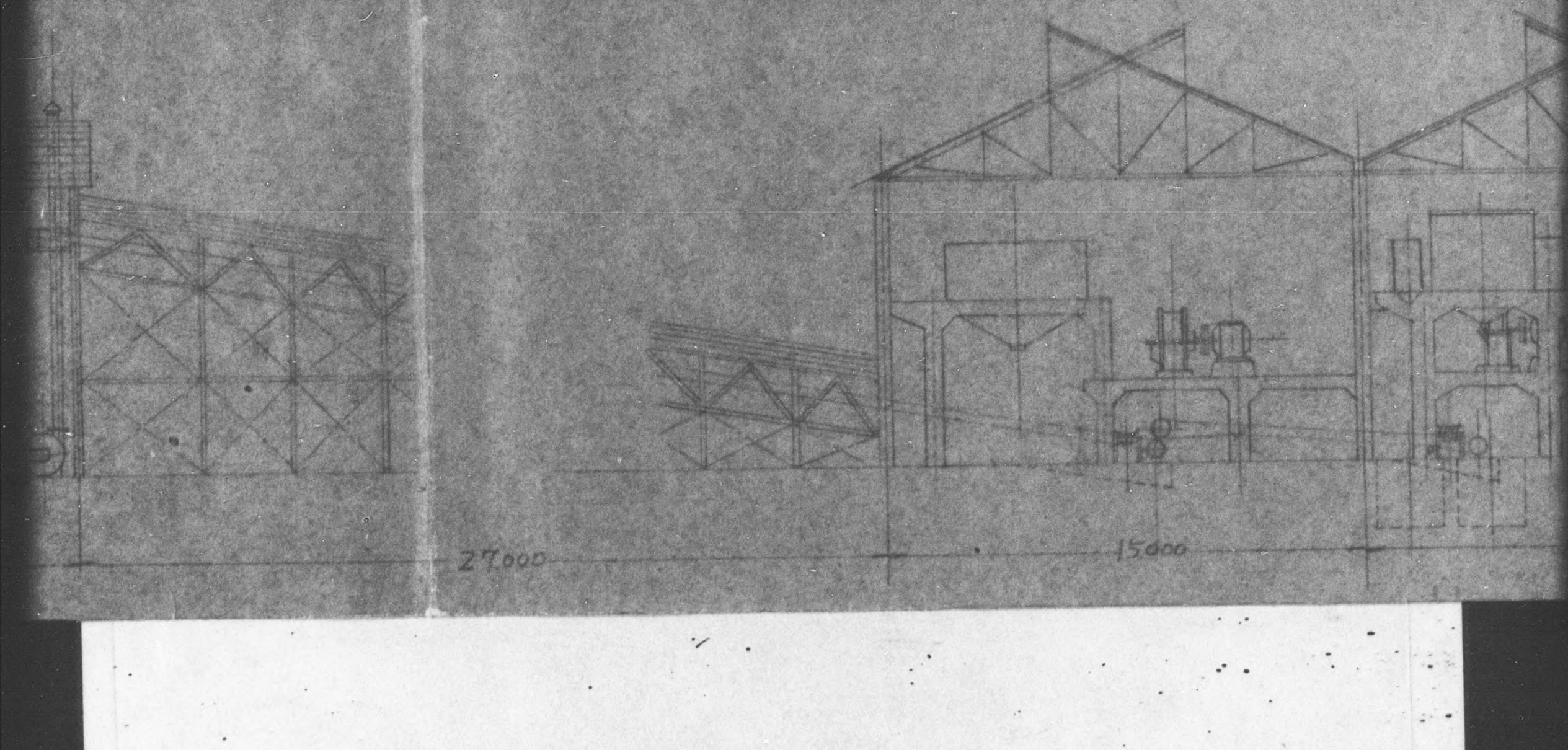


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO.

Fertilizer Plant.

Scale 1/2

TOKUYAMA SODA Co., LTD.



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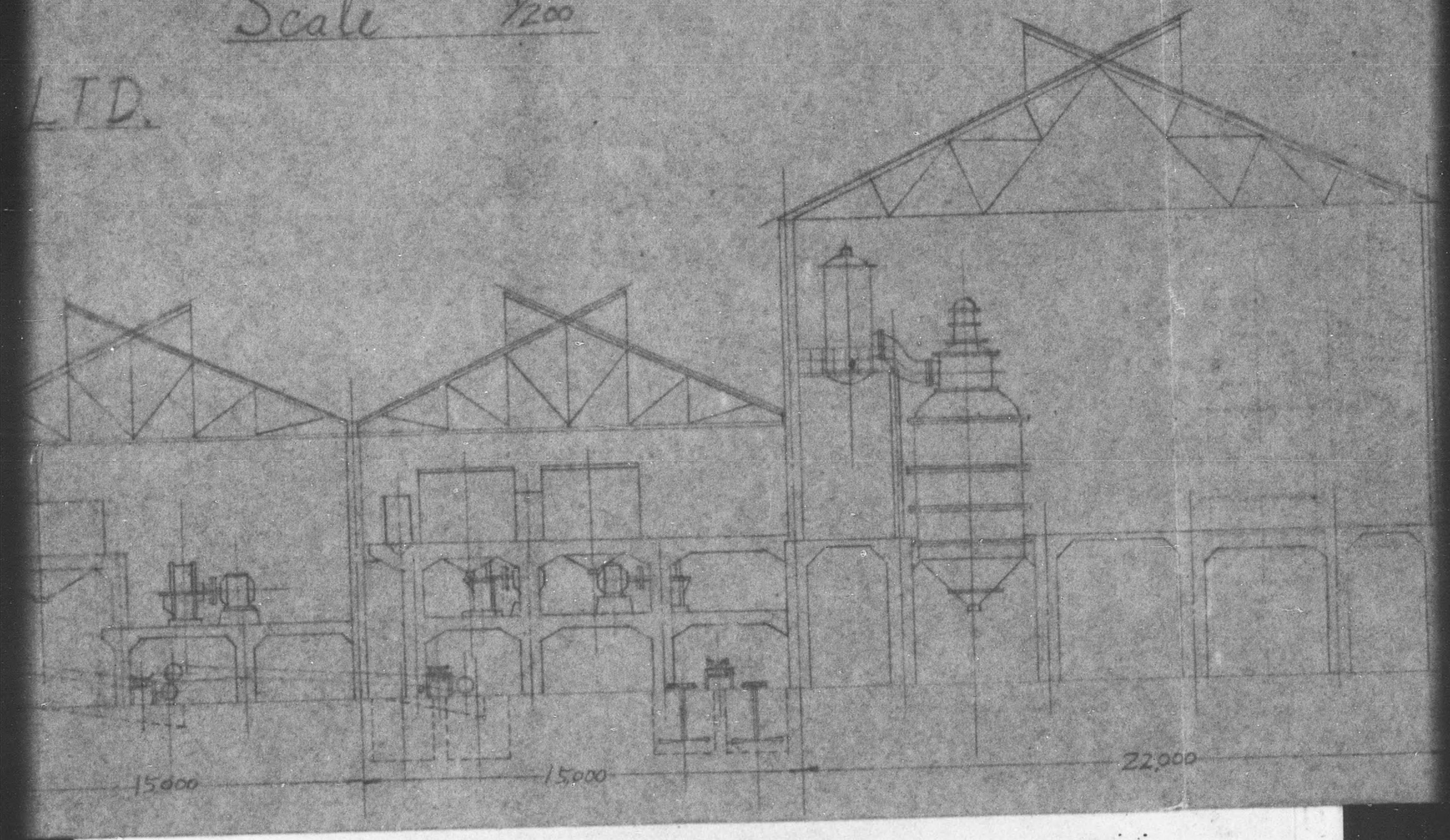
Scale 1/200

LTD.



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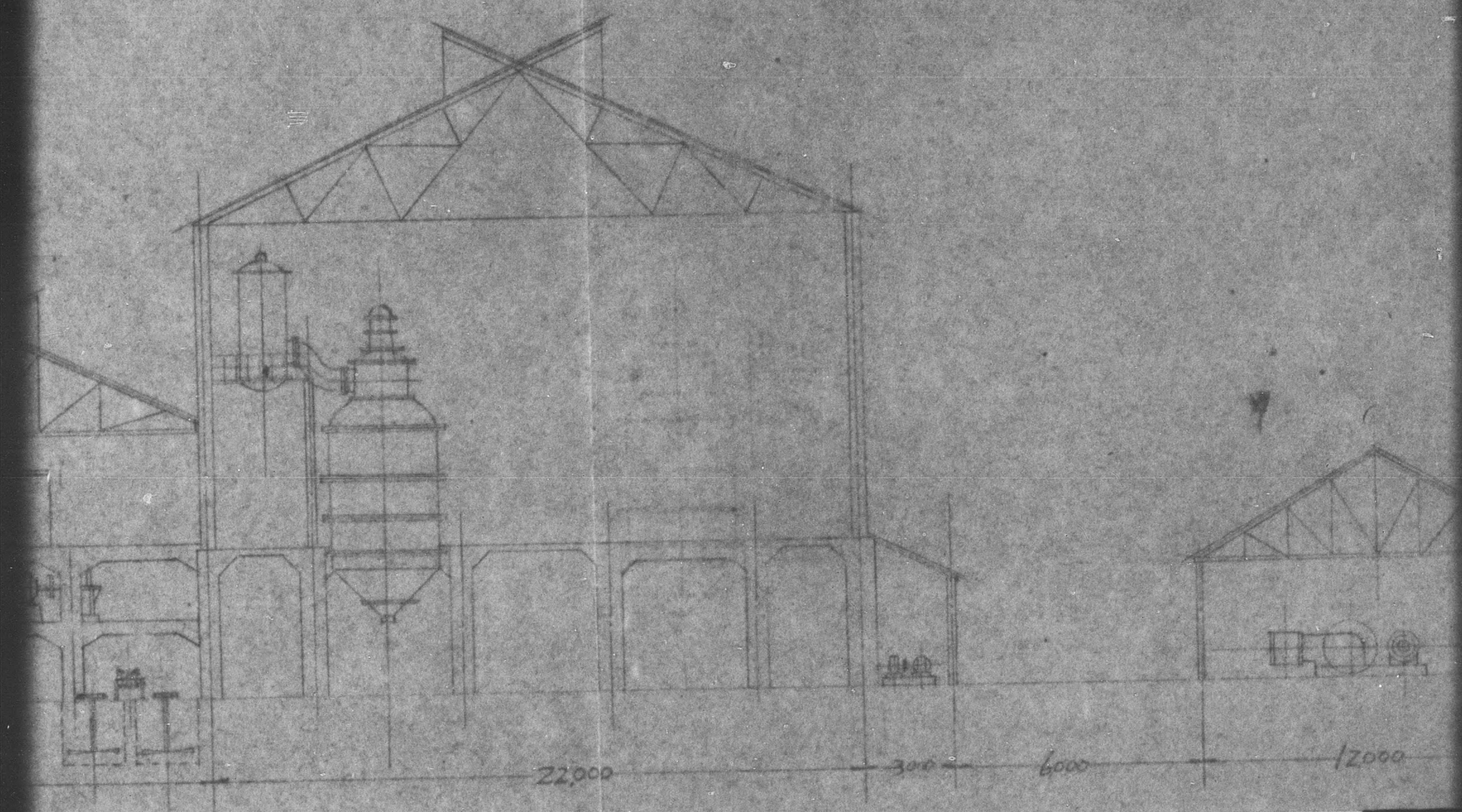

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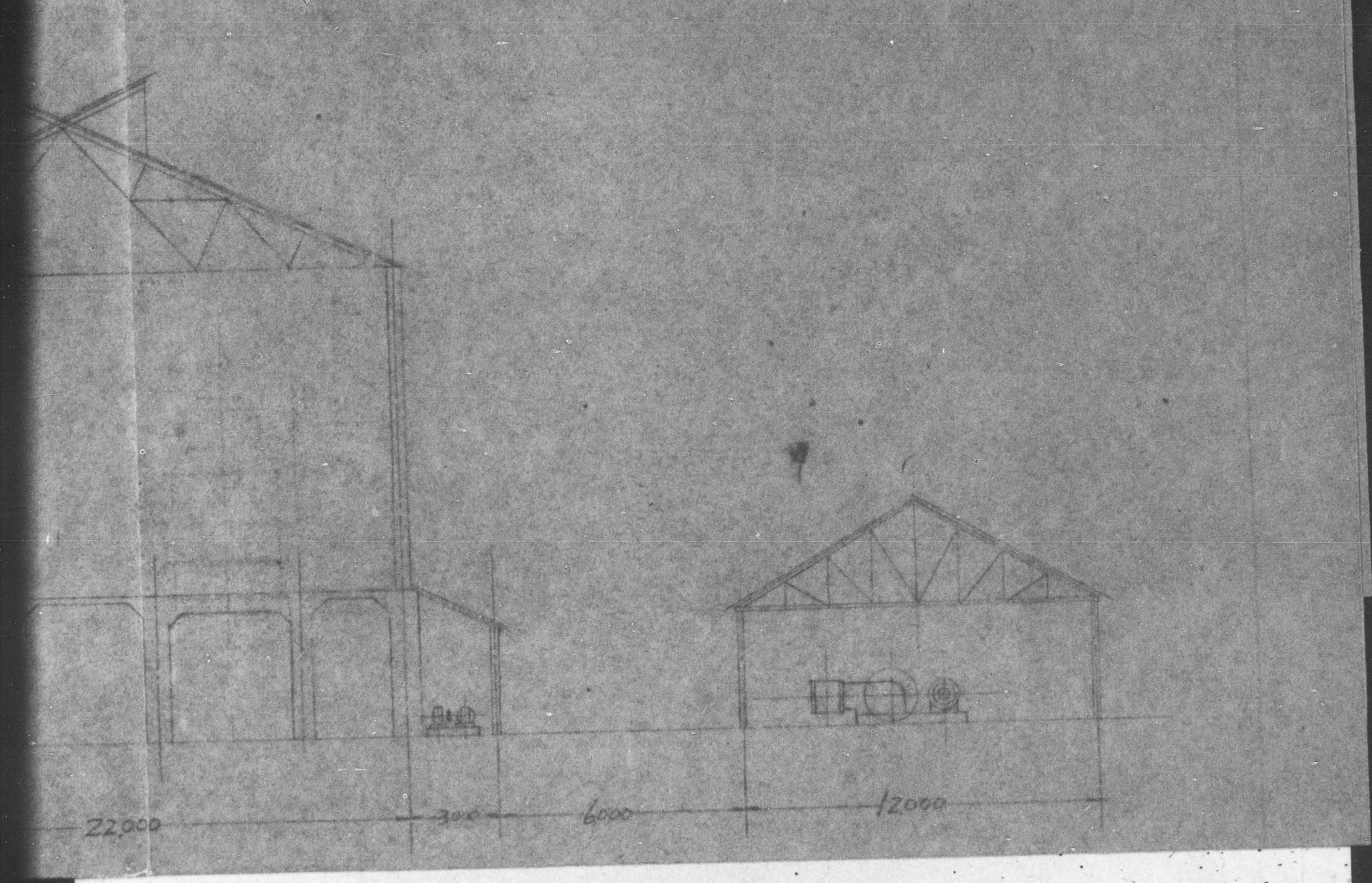

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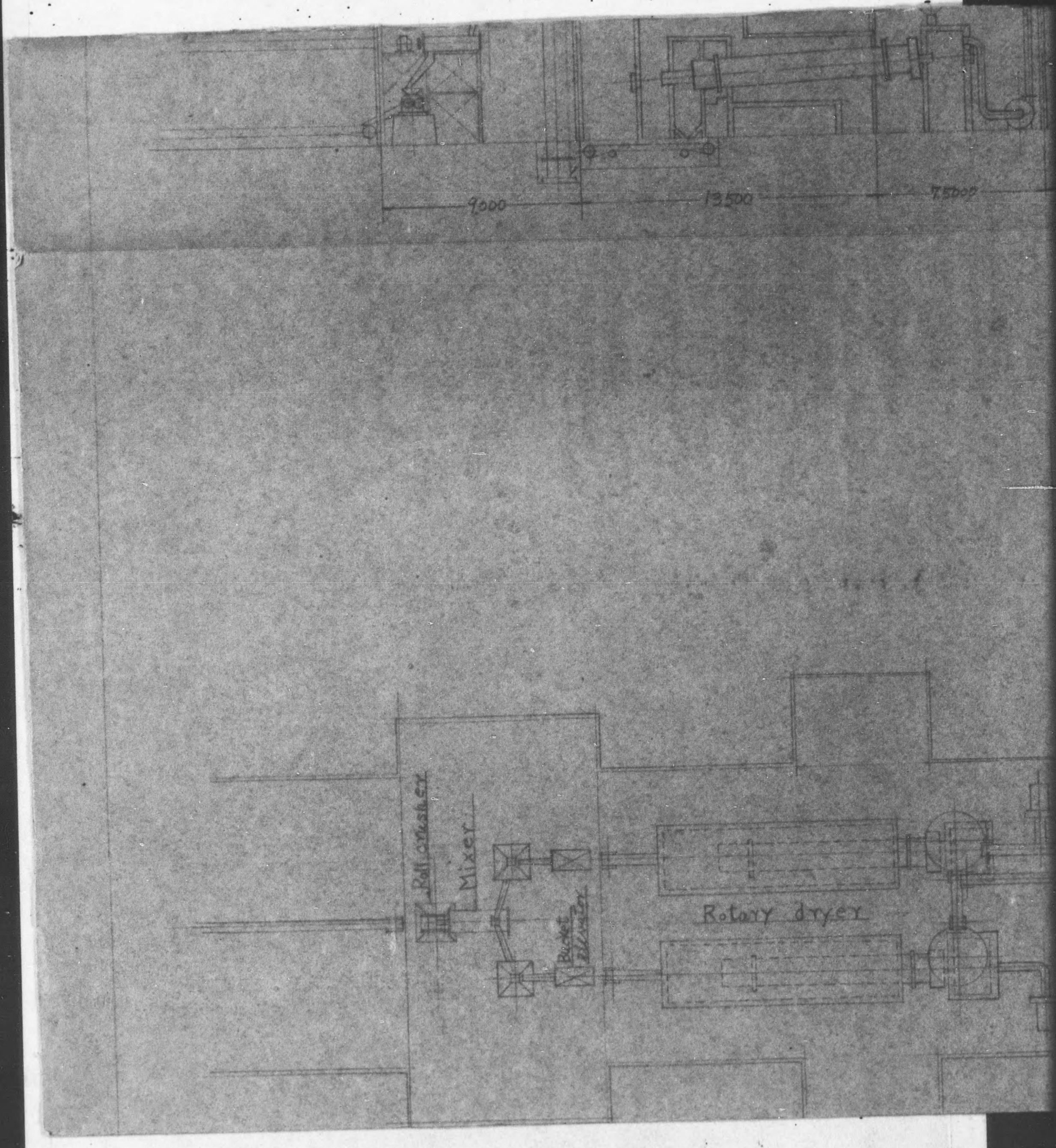

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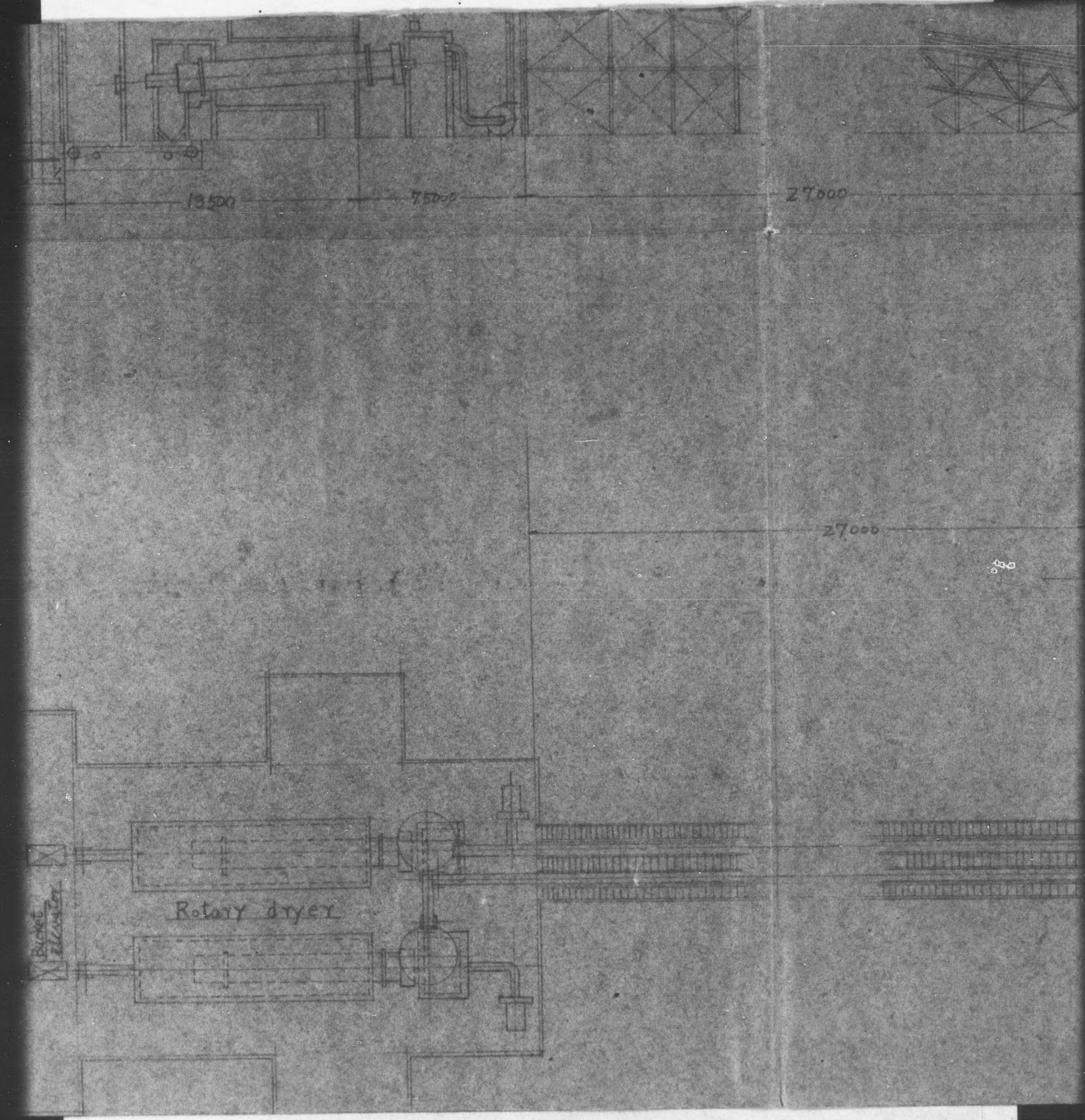

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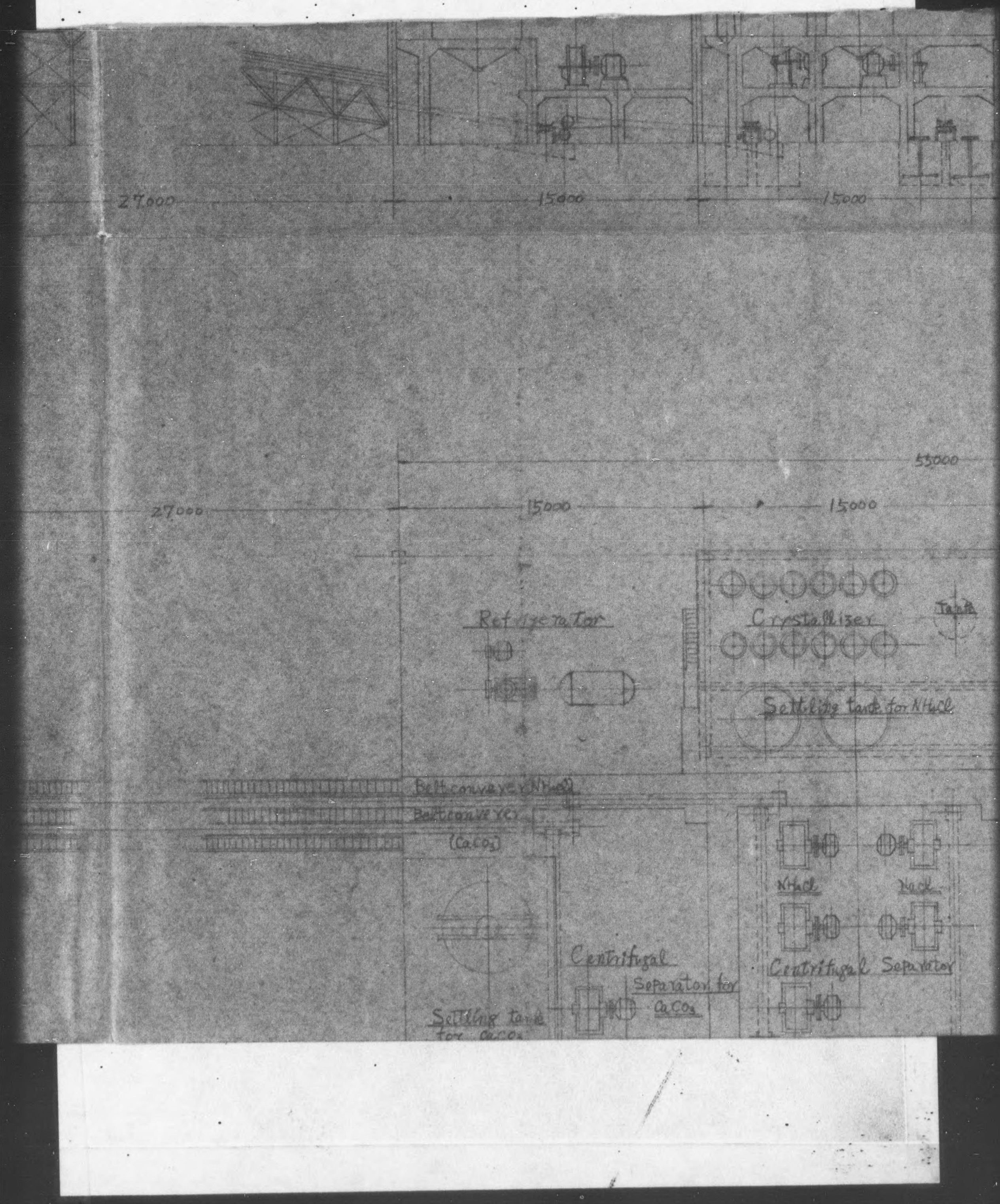

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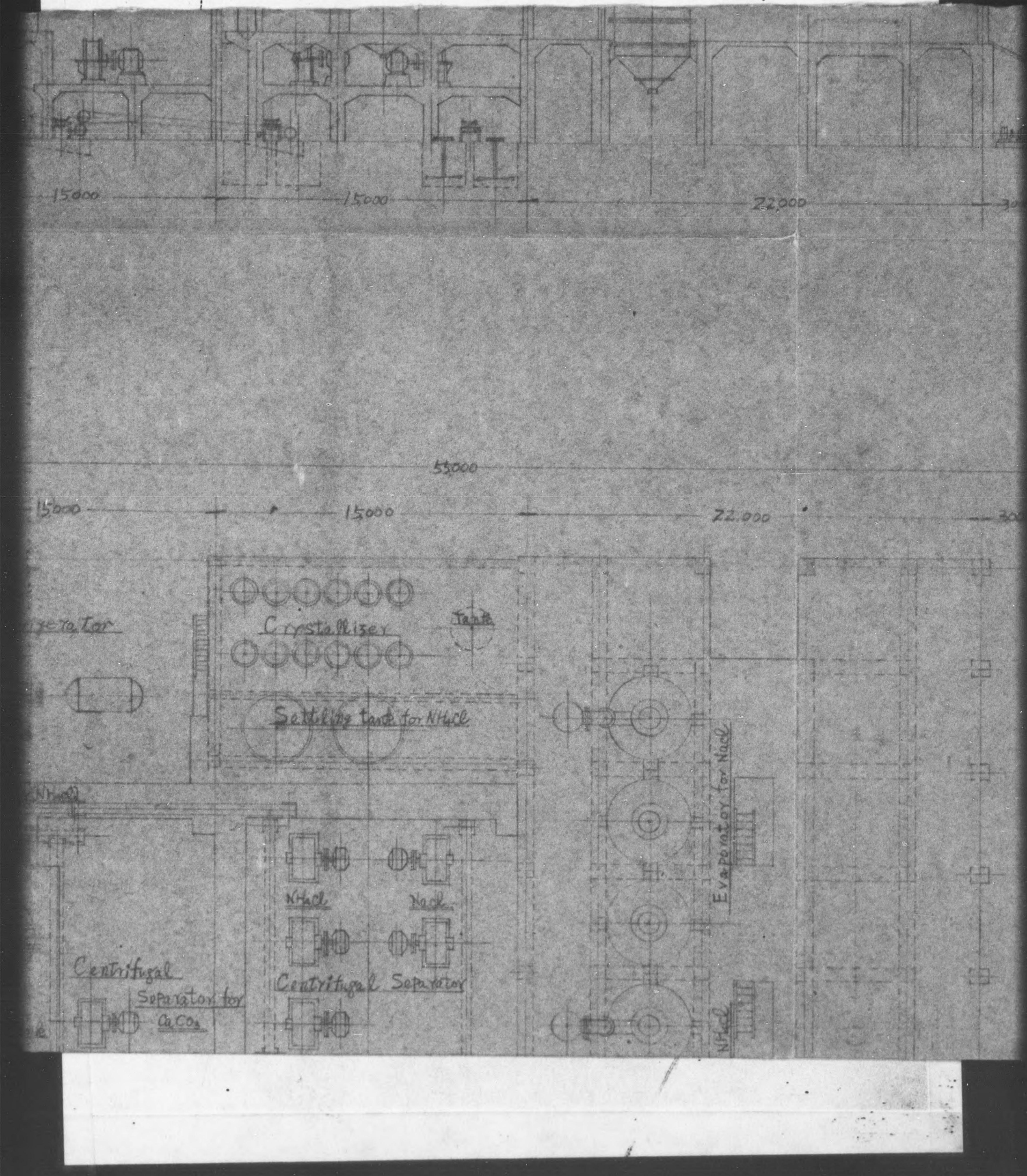

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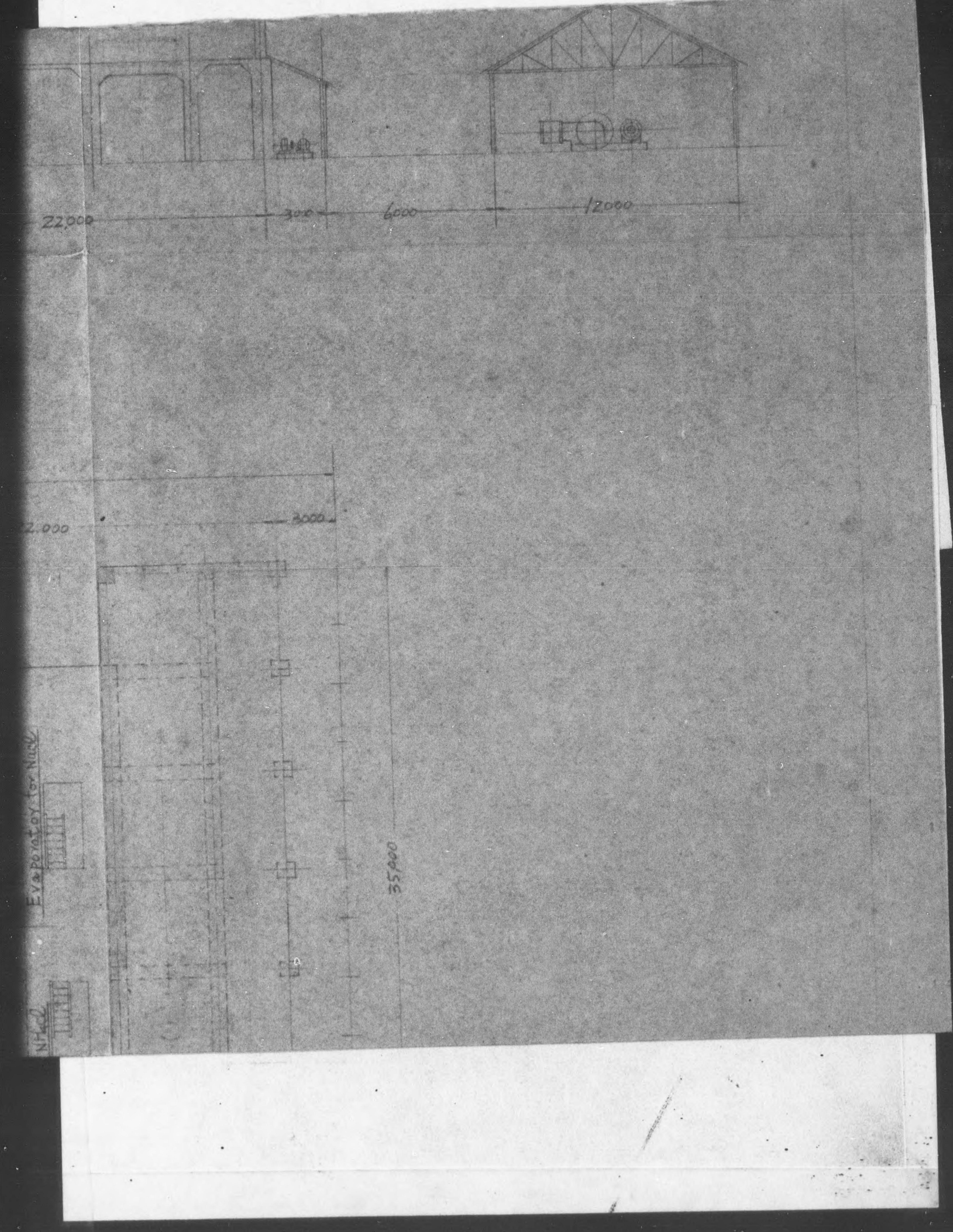

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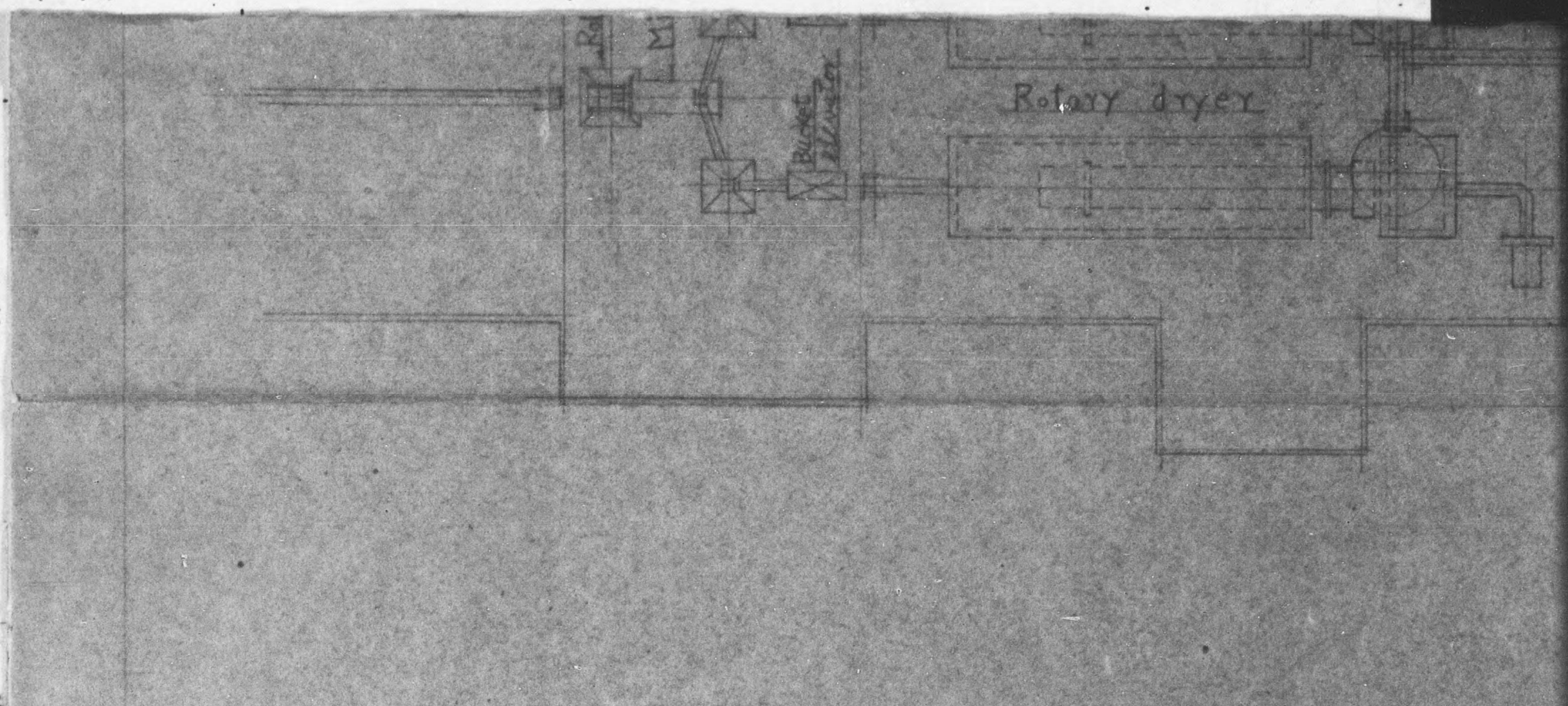

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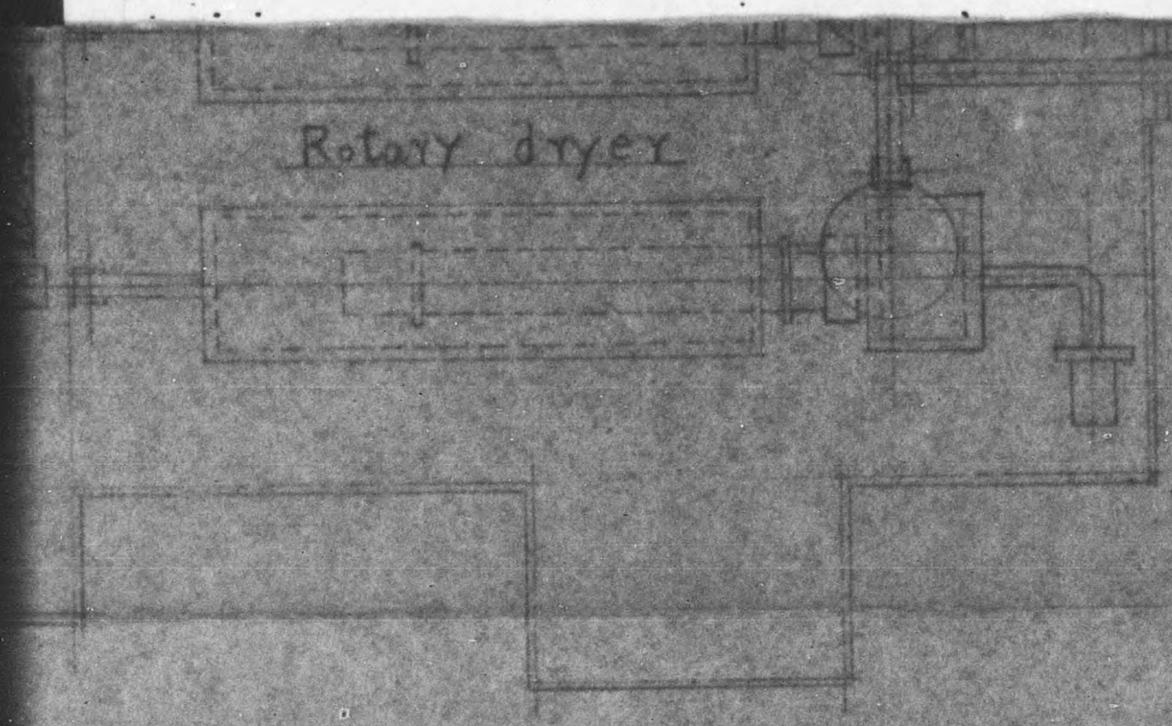

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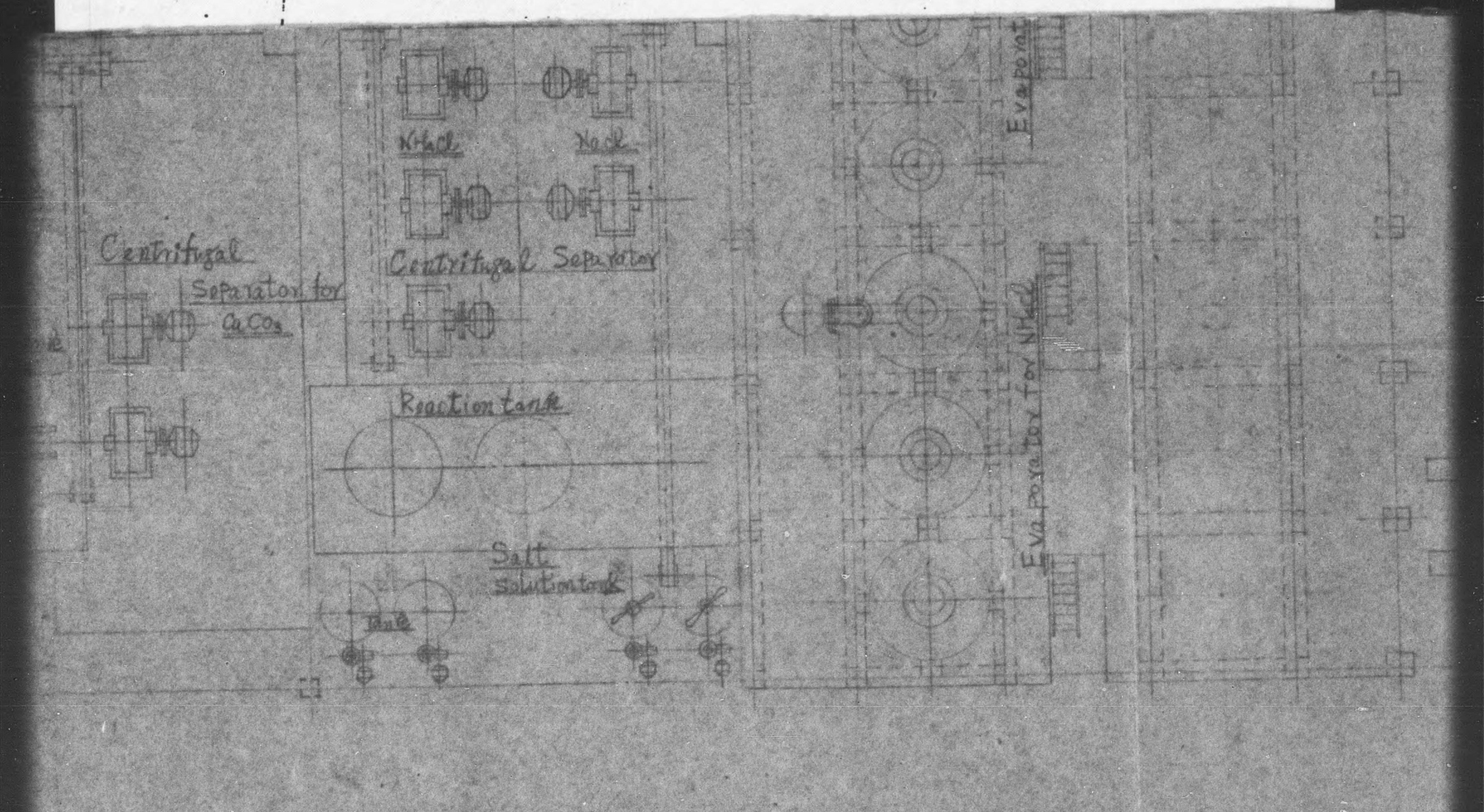

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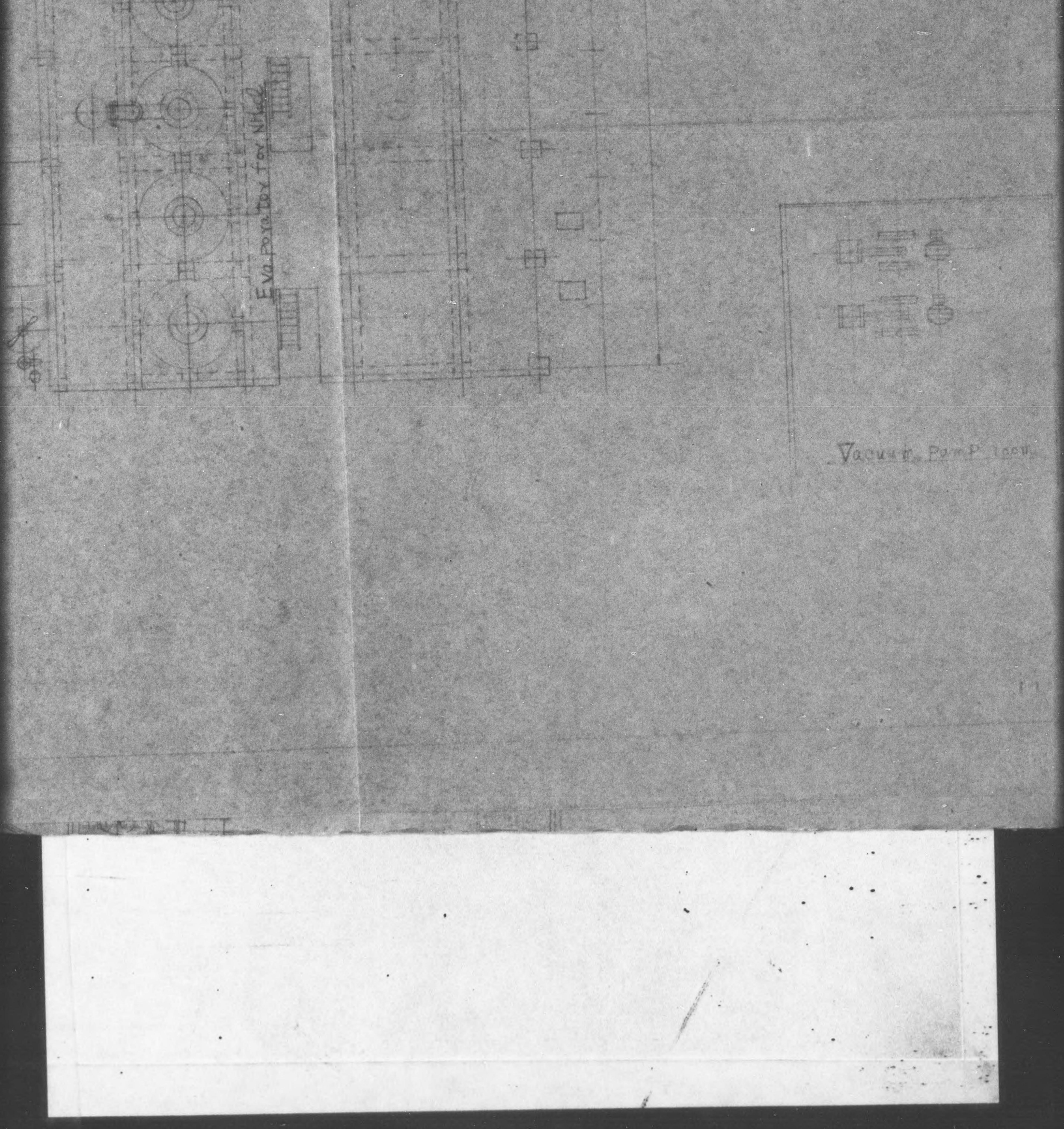

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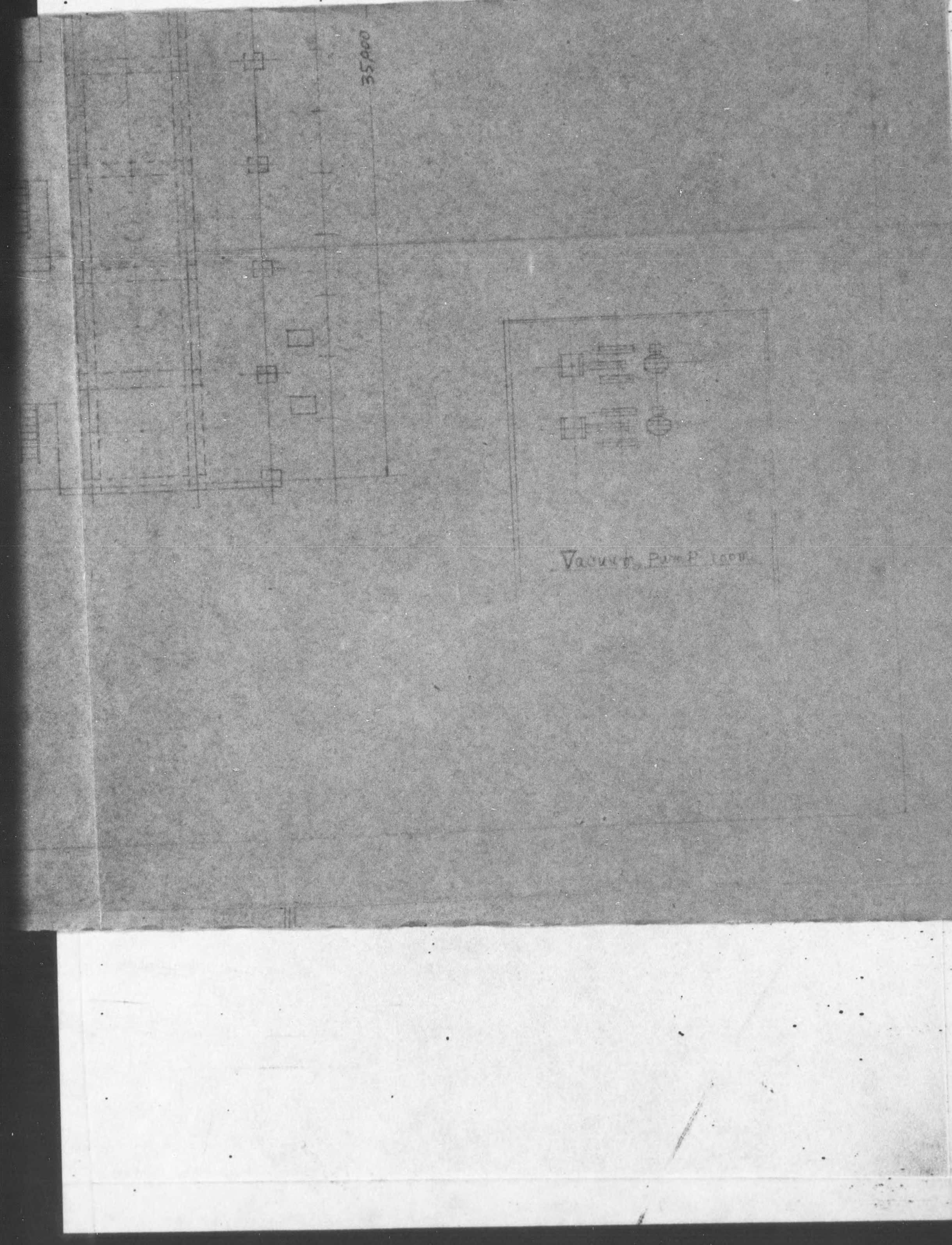
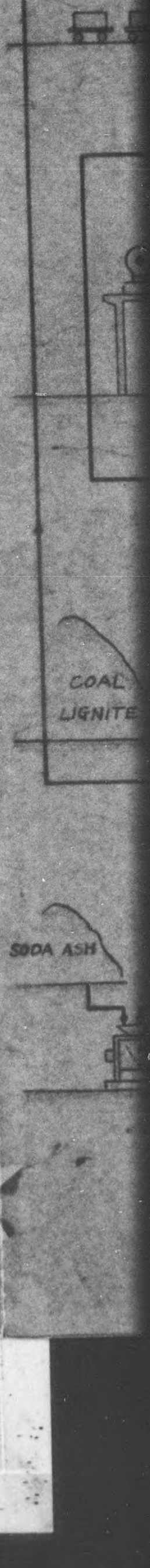


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDS No.

no.1-b

FLOW SHEETS OF OUR PRODUCTIONS



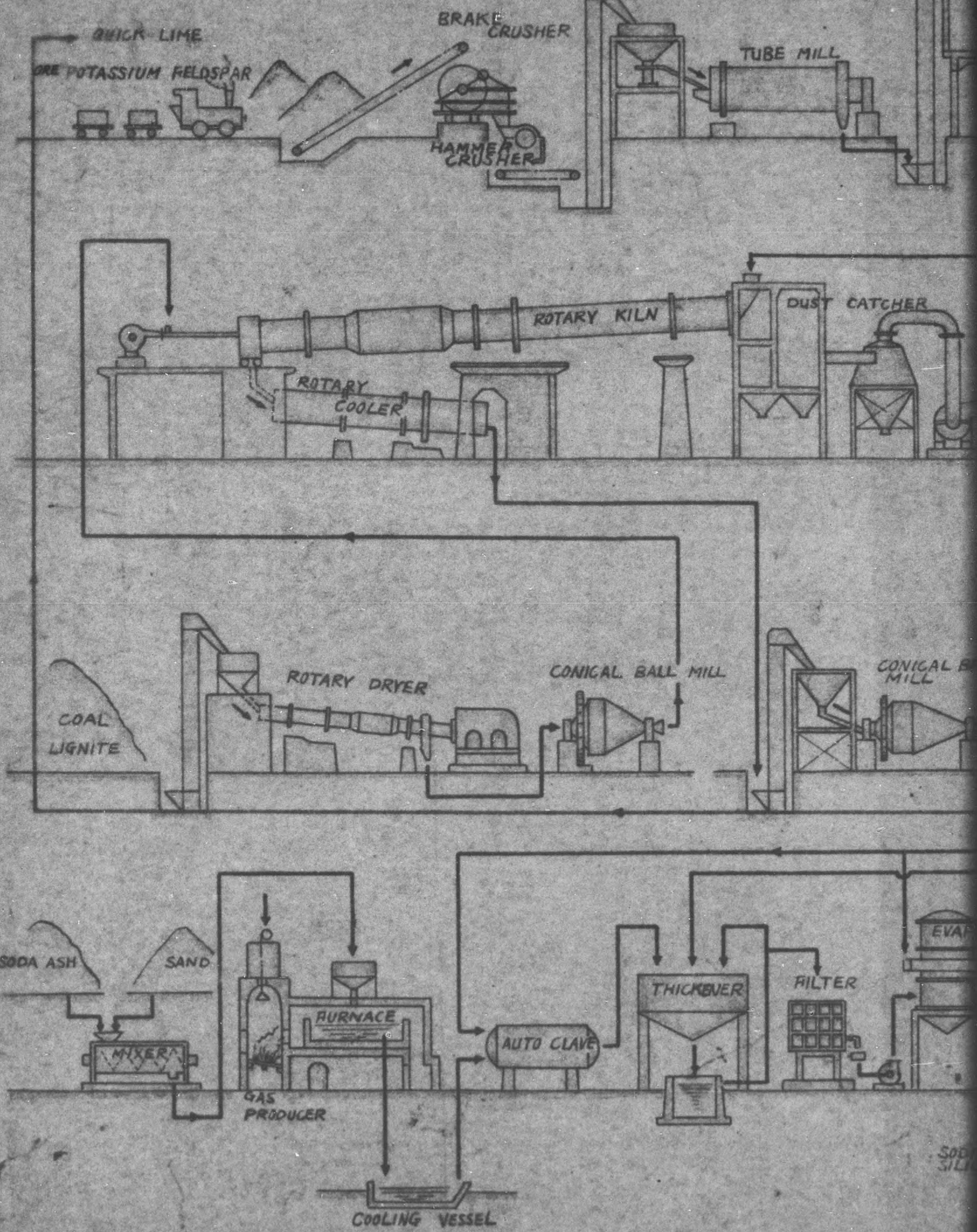
TOKUYAMA SODA Co., Ltd.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO.

OF
ONS

., Ltd.

POTASSIUM FERTILIZER AND SODIUM SILICATE



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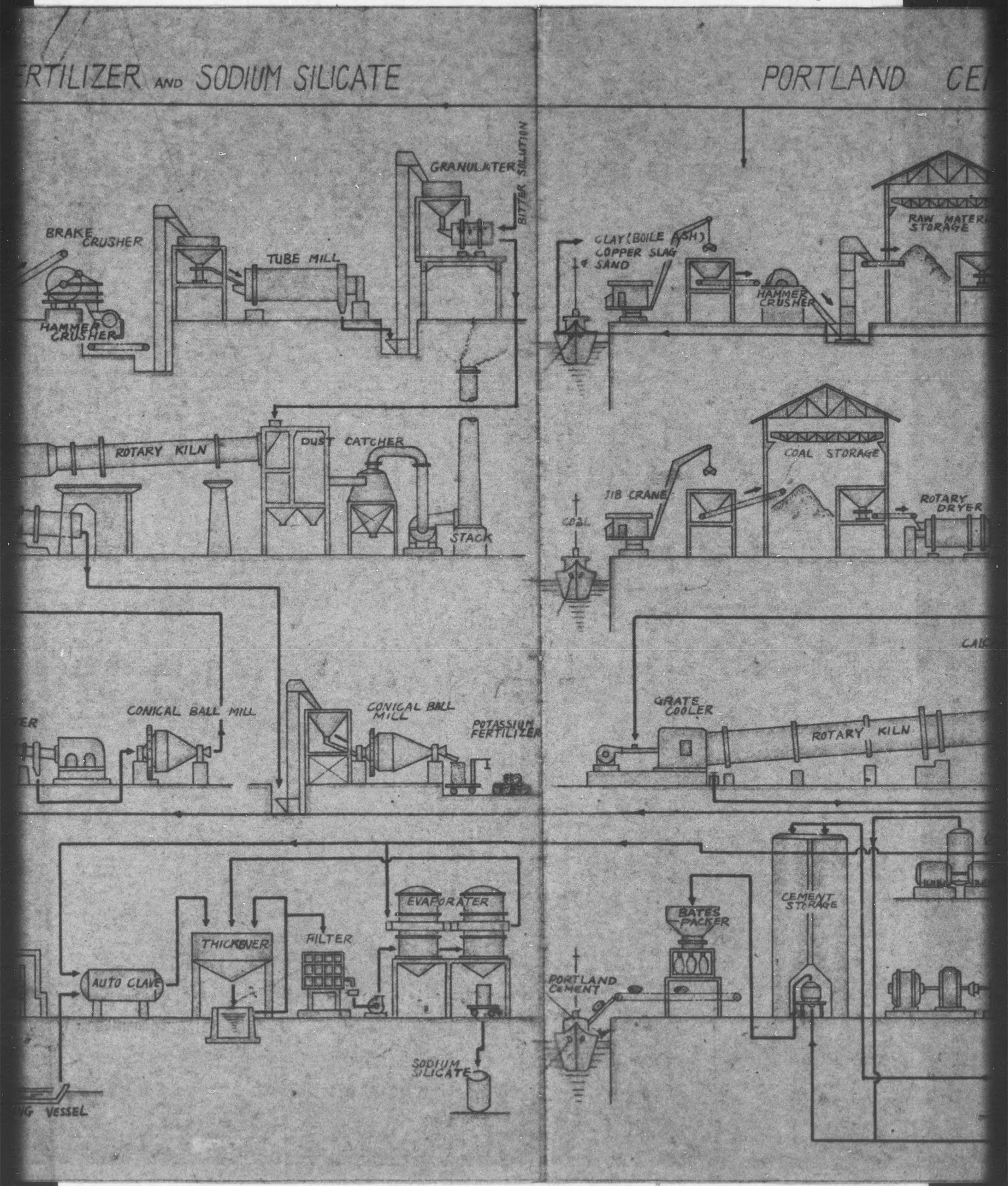

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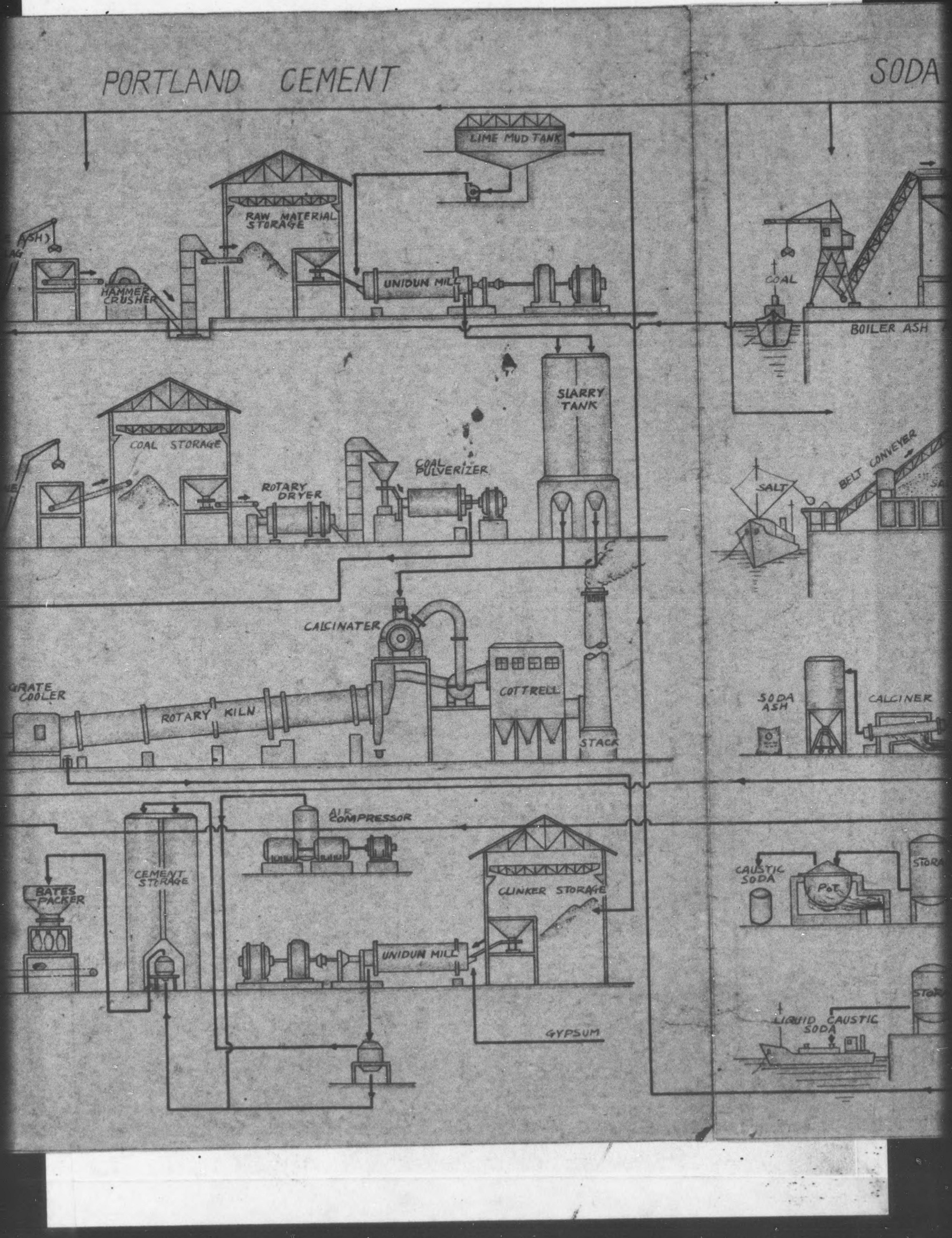
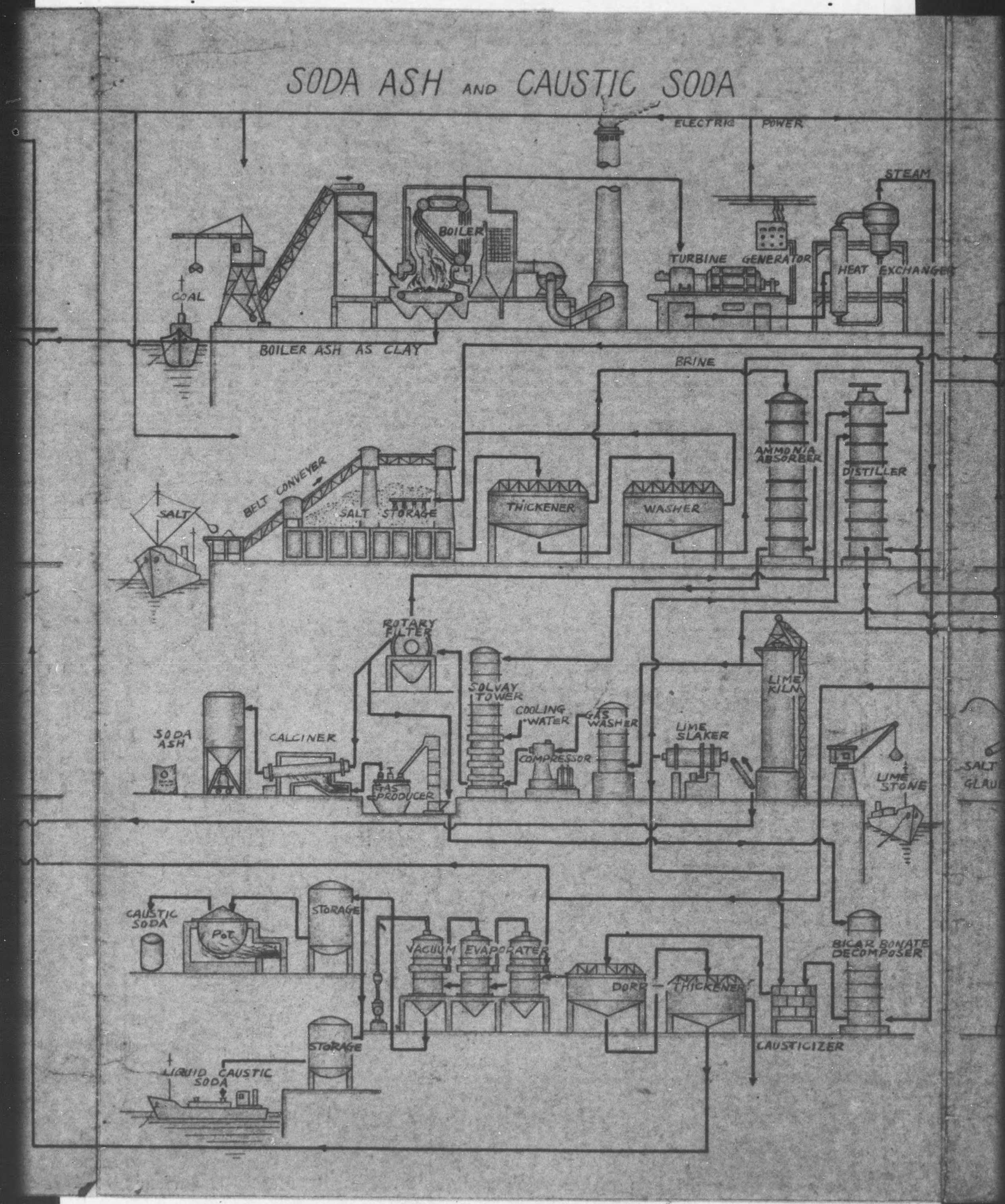


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO.

SODA ASH AND CAUSTIC SODA



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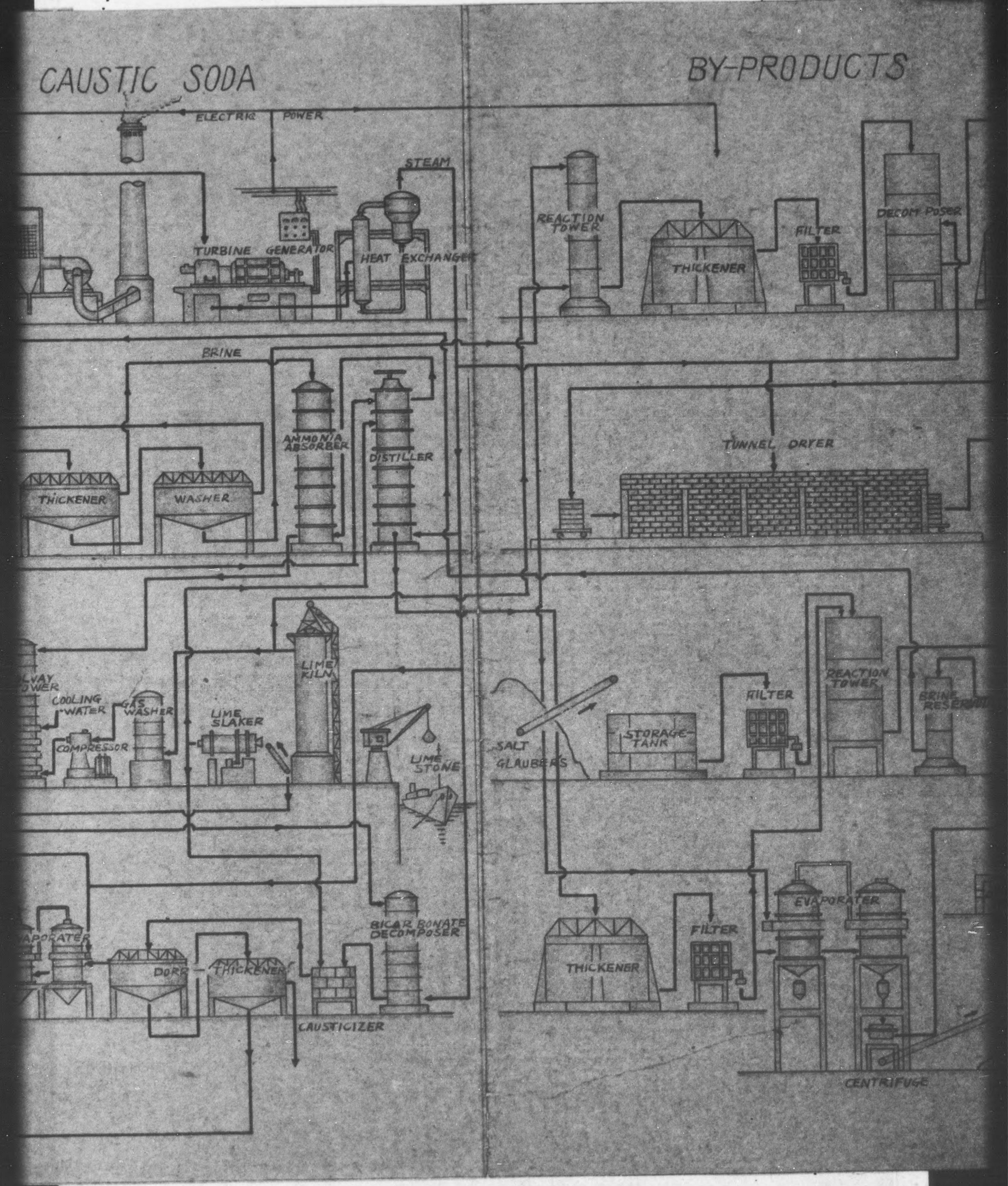

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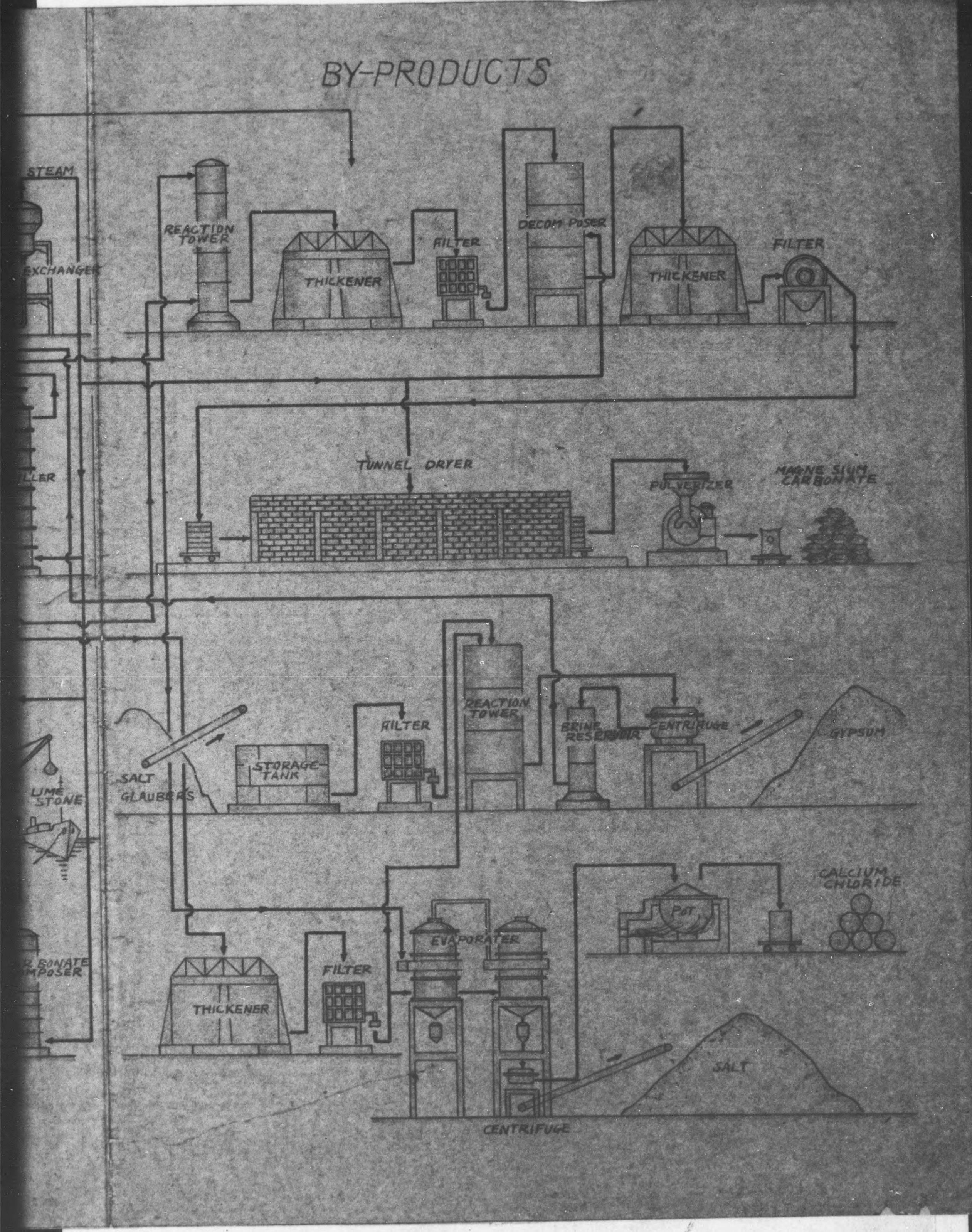
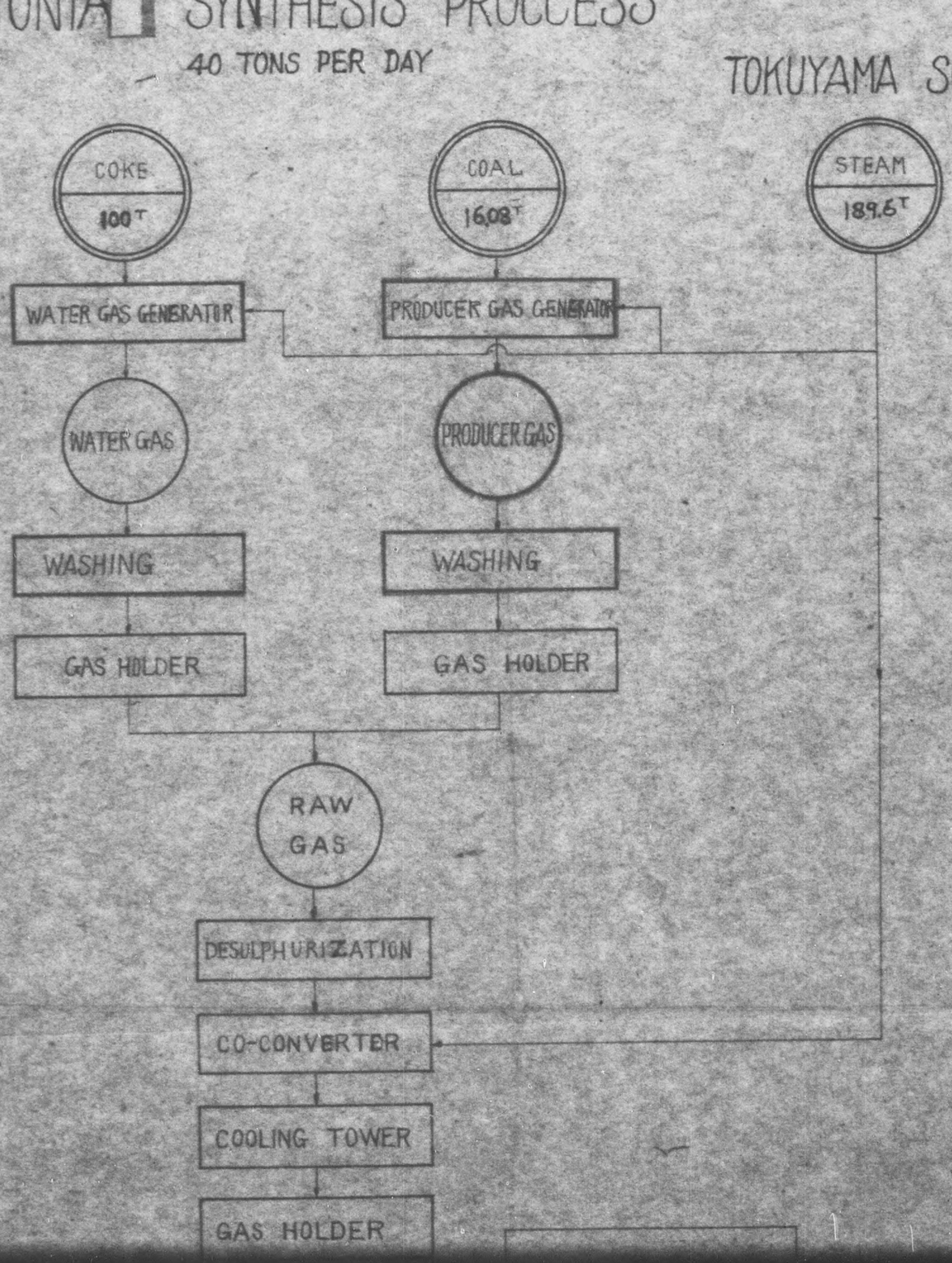


AMMONIA SYNTHESIS PROCCESS

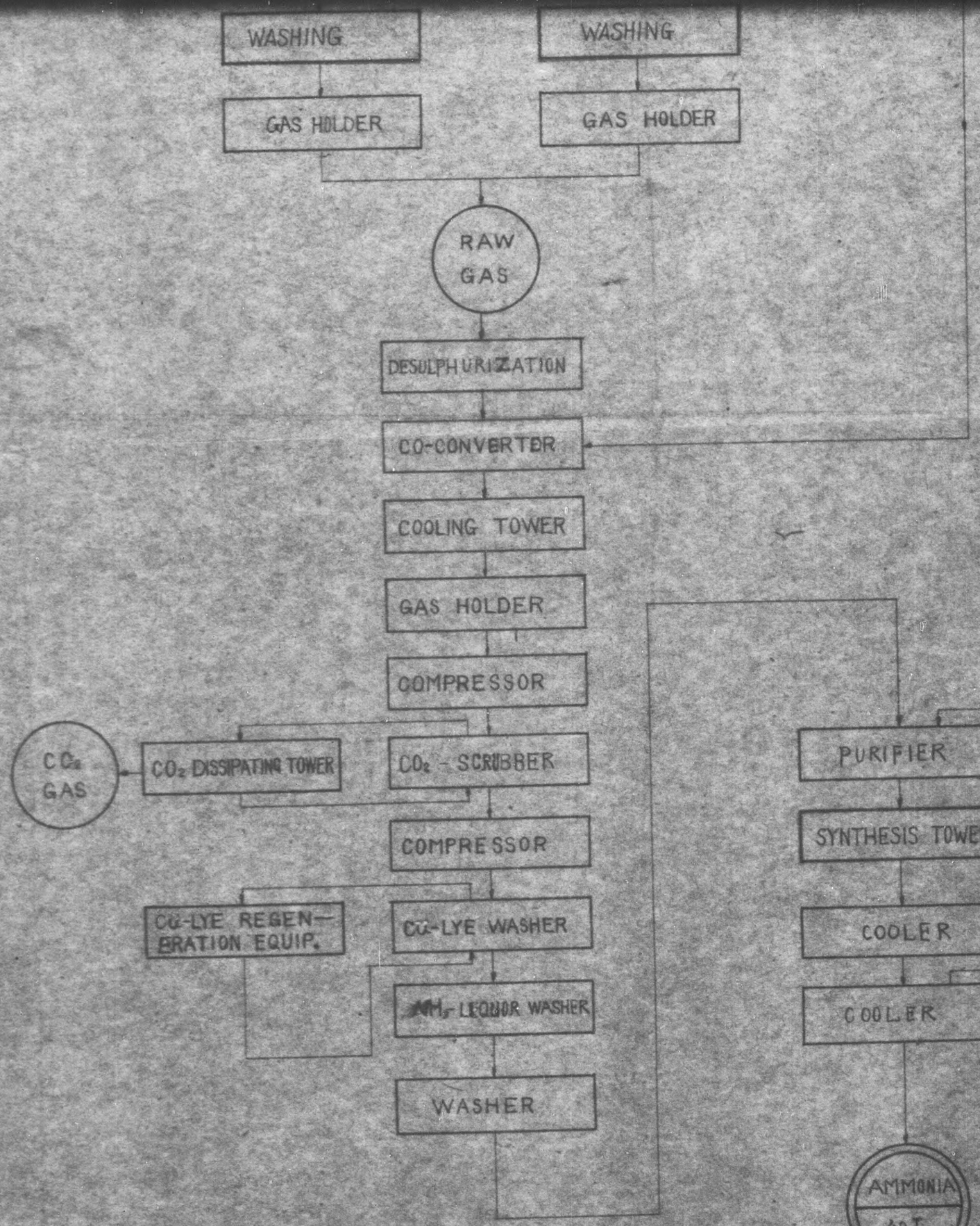
40 TONS PER DAY

TOKUYAMA SODA CO., LTD.

AUG., 1949



DECLASSIFIED E.O. 12065 SECTION 3 NND



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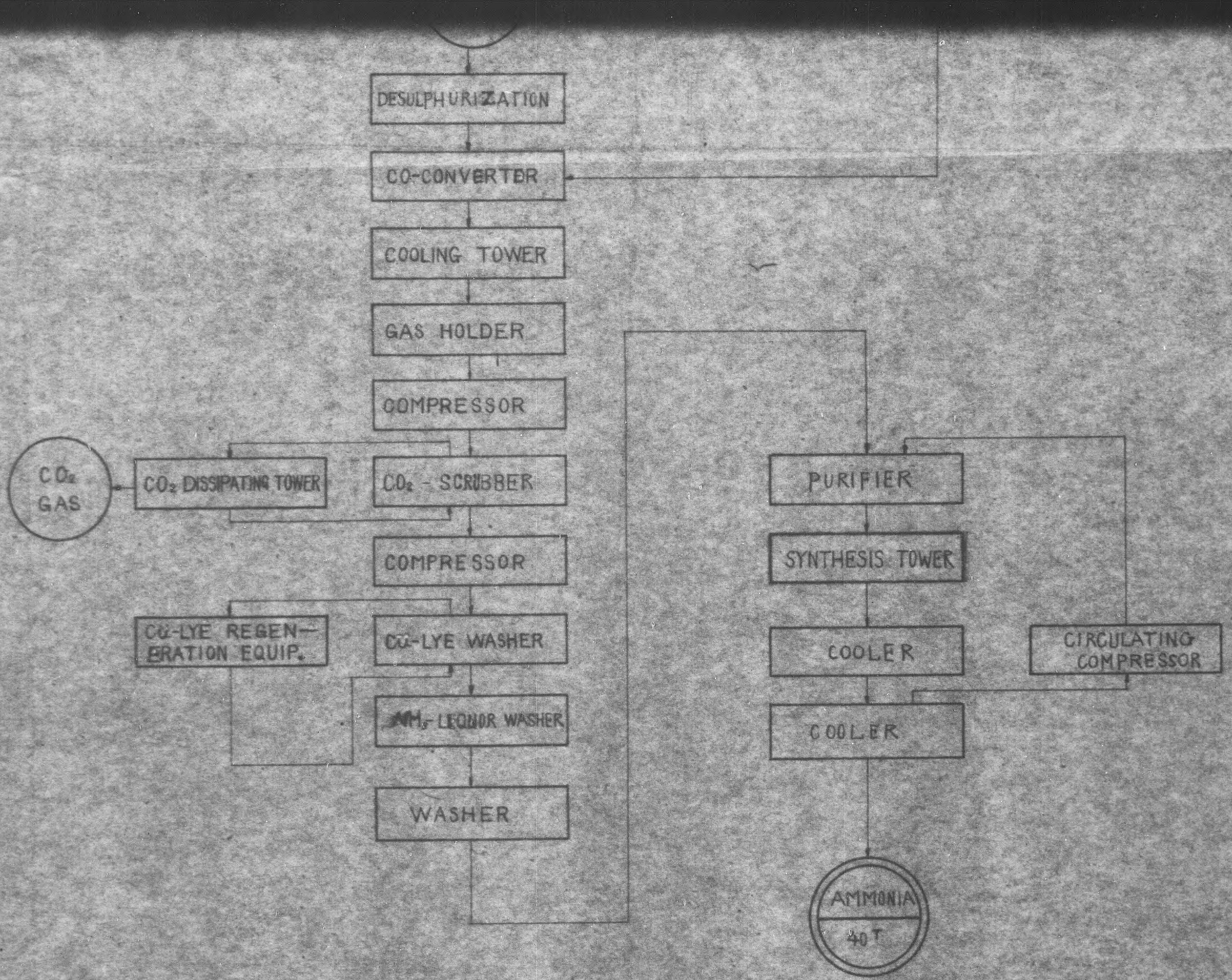
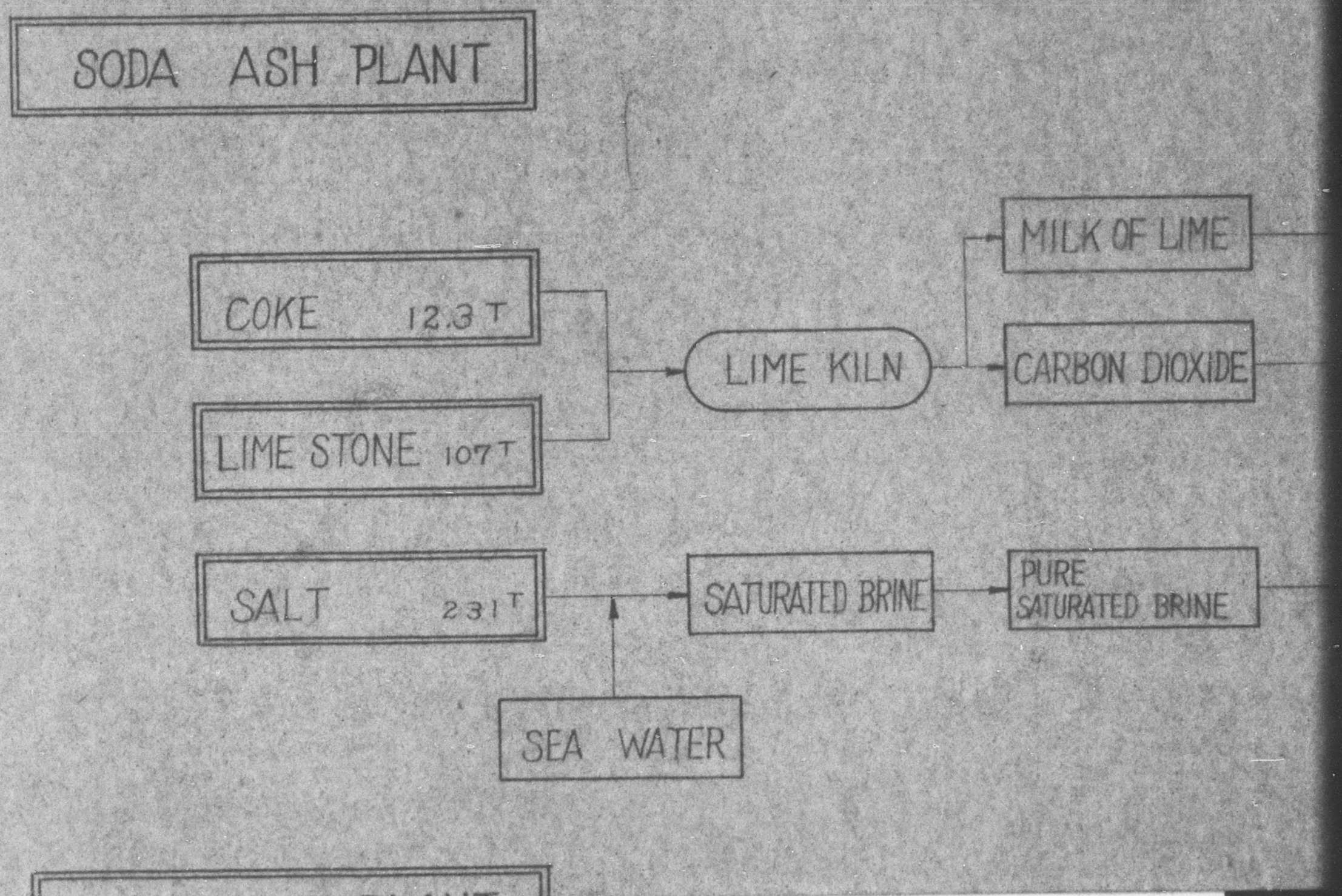


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO.

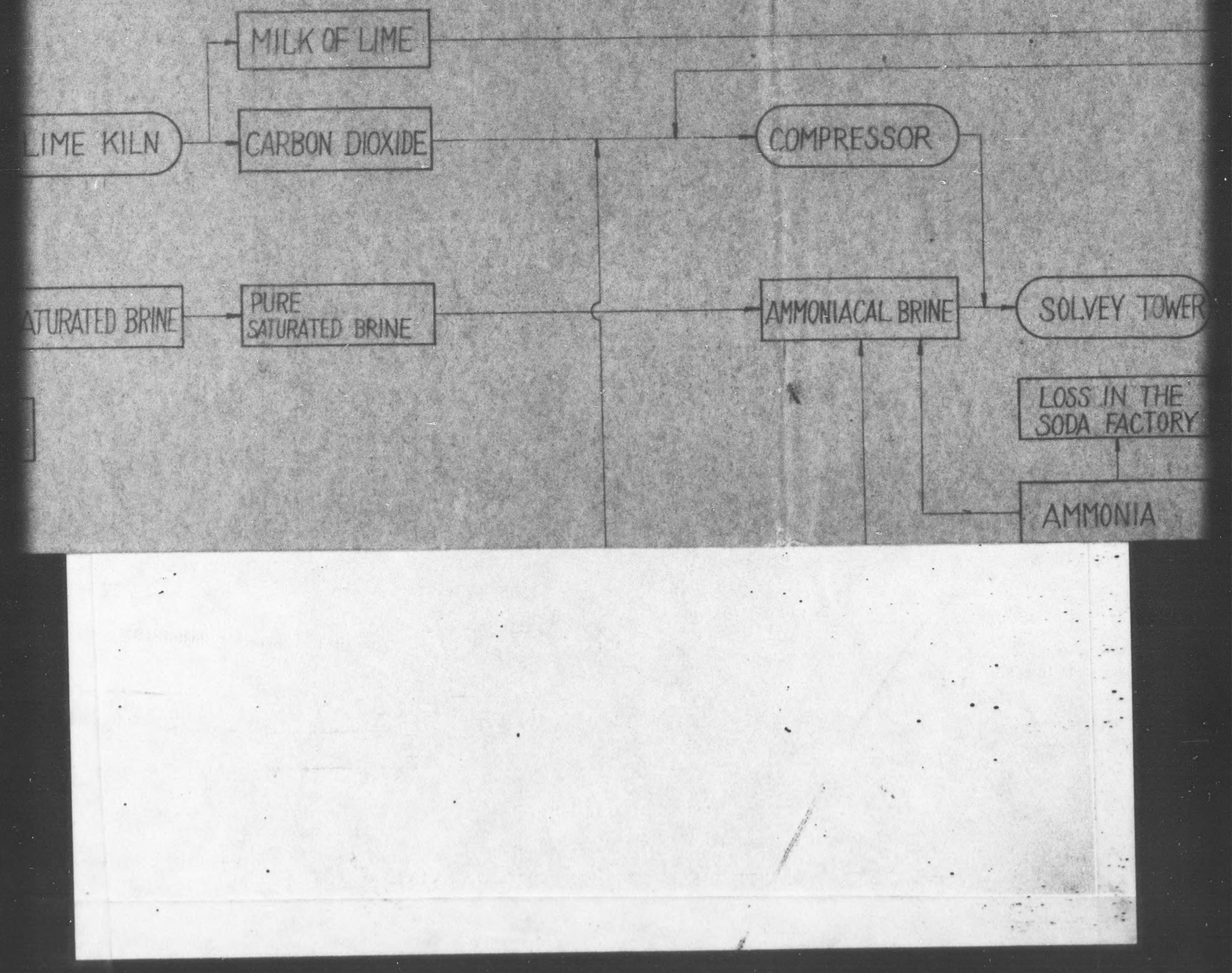
VIII.B: FLOW S



DECLASSIFIED E.O. 12065 SECTION 3-402/NNBS NO:

VIII.B: # FLOW SHEET OF AMMONIUM CHLOR

(150 TONS PER DAY)

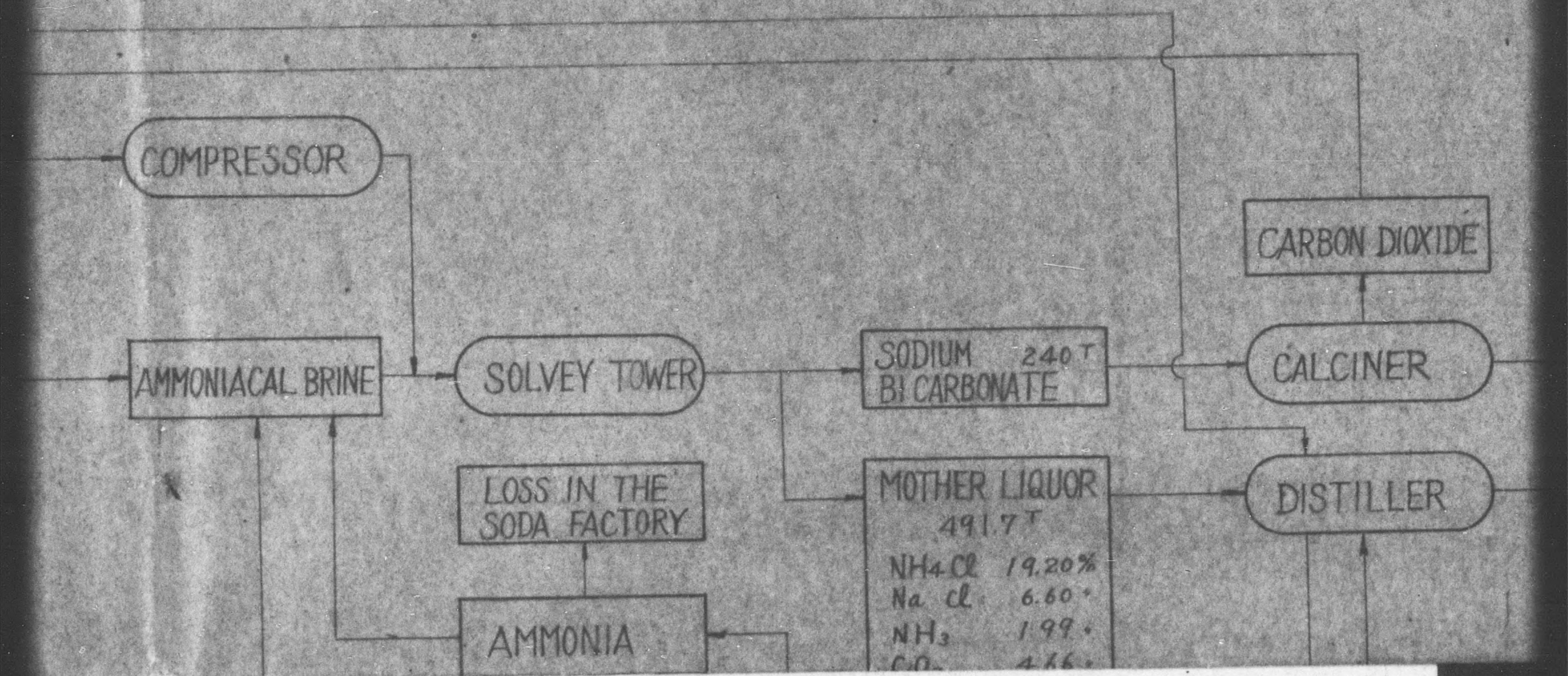


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDS NO.

OF AMMONIUM CHLORIDE FERTILIZER

) TONS PER DAY)

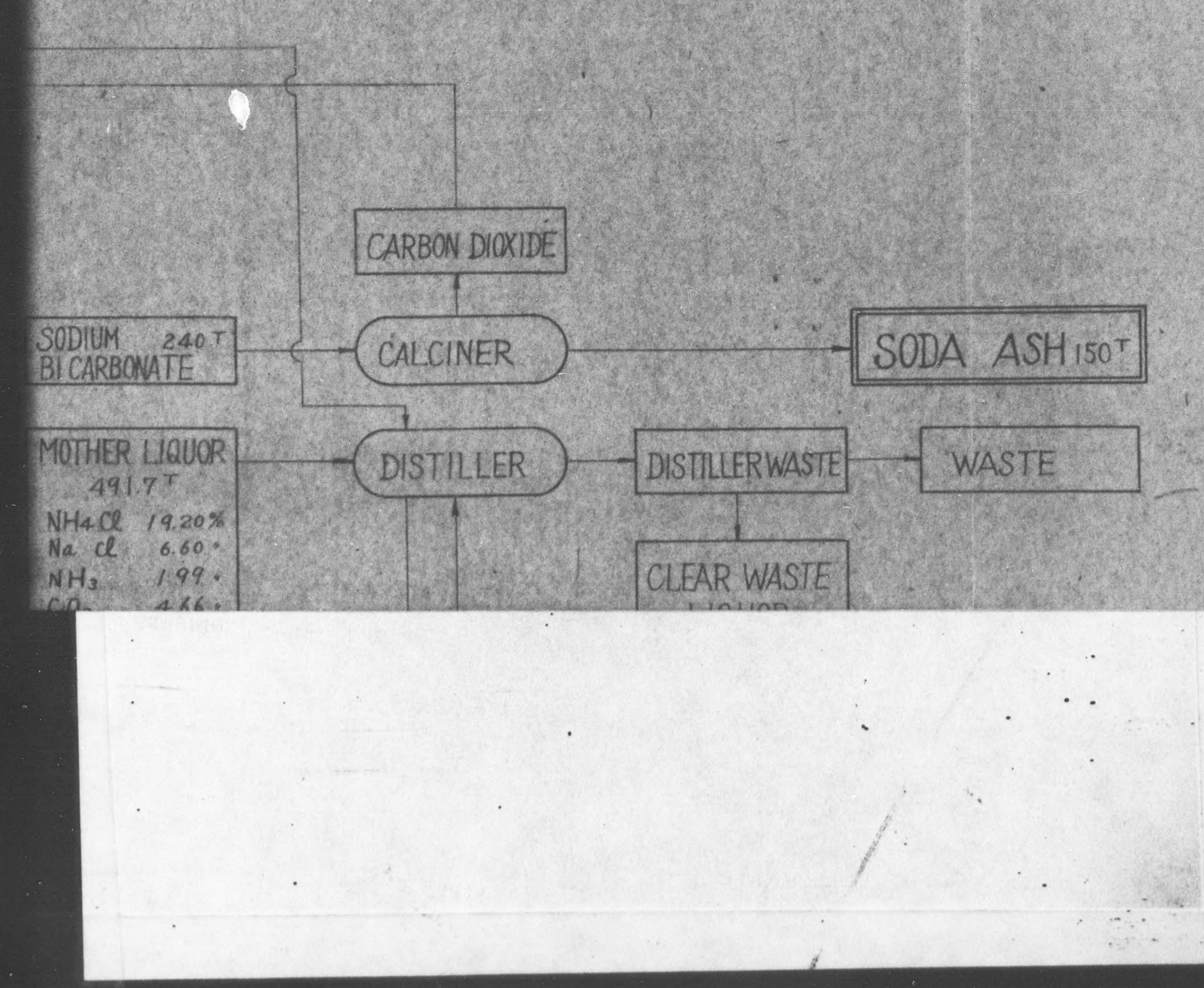
TOKUYAMA SO



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO:

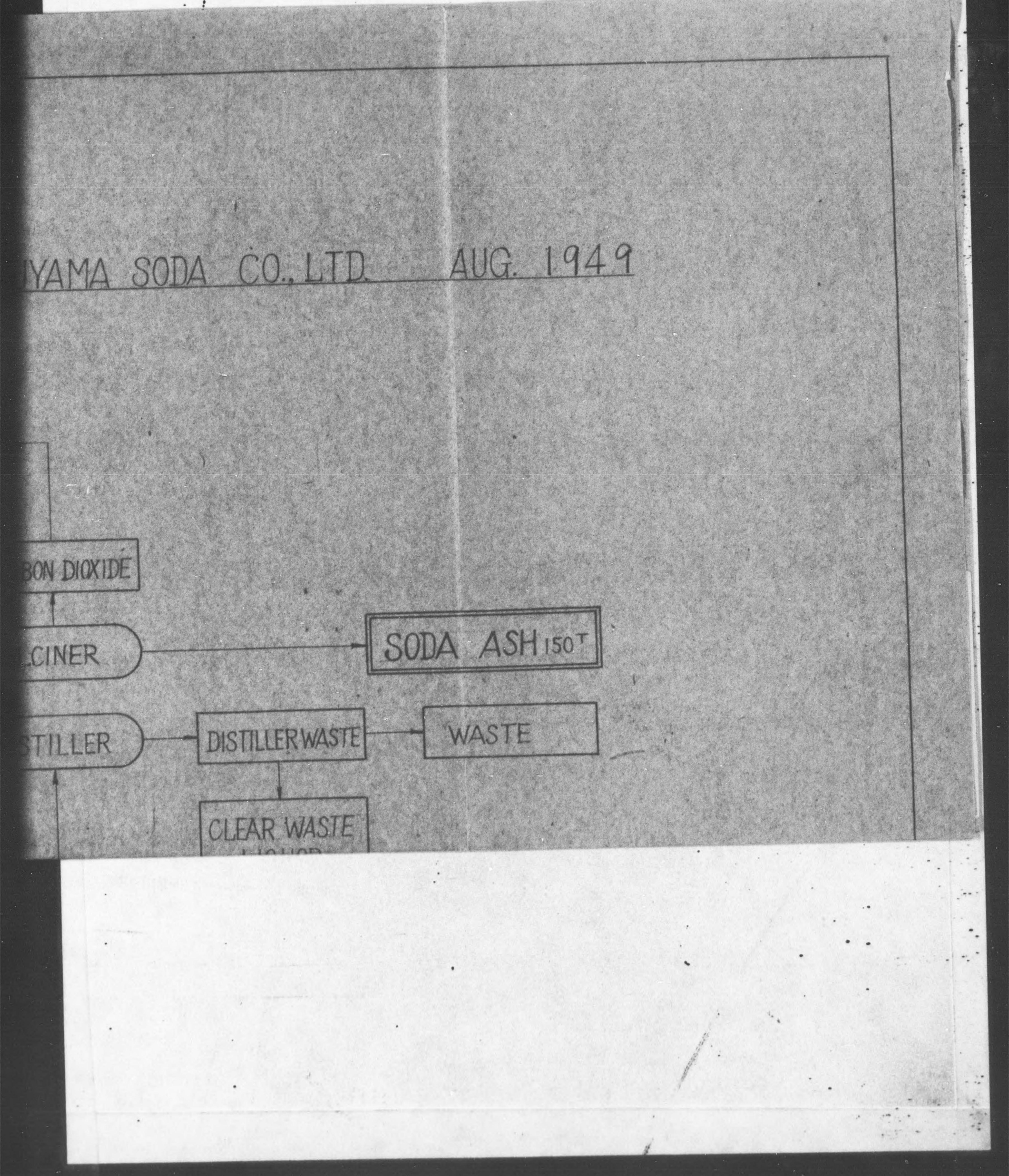
FERTILIZER

TOKUYAMA SODA CO., LTD. AUG. 1949



DECLASSIFIED E.O. 12065 SECTION 3 402/NNDS NO.

IYAMA SODA CO., LTD. AUG. 1949



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SATURATED BRINE

SEA WATER

AMMONIA PLANT

STEAM

COKE

COAL

WATER GAS

PRODUCER GAS

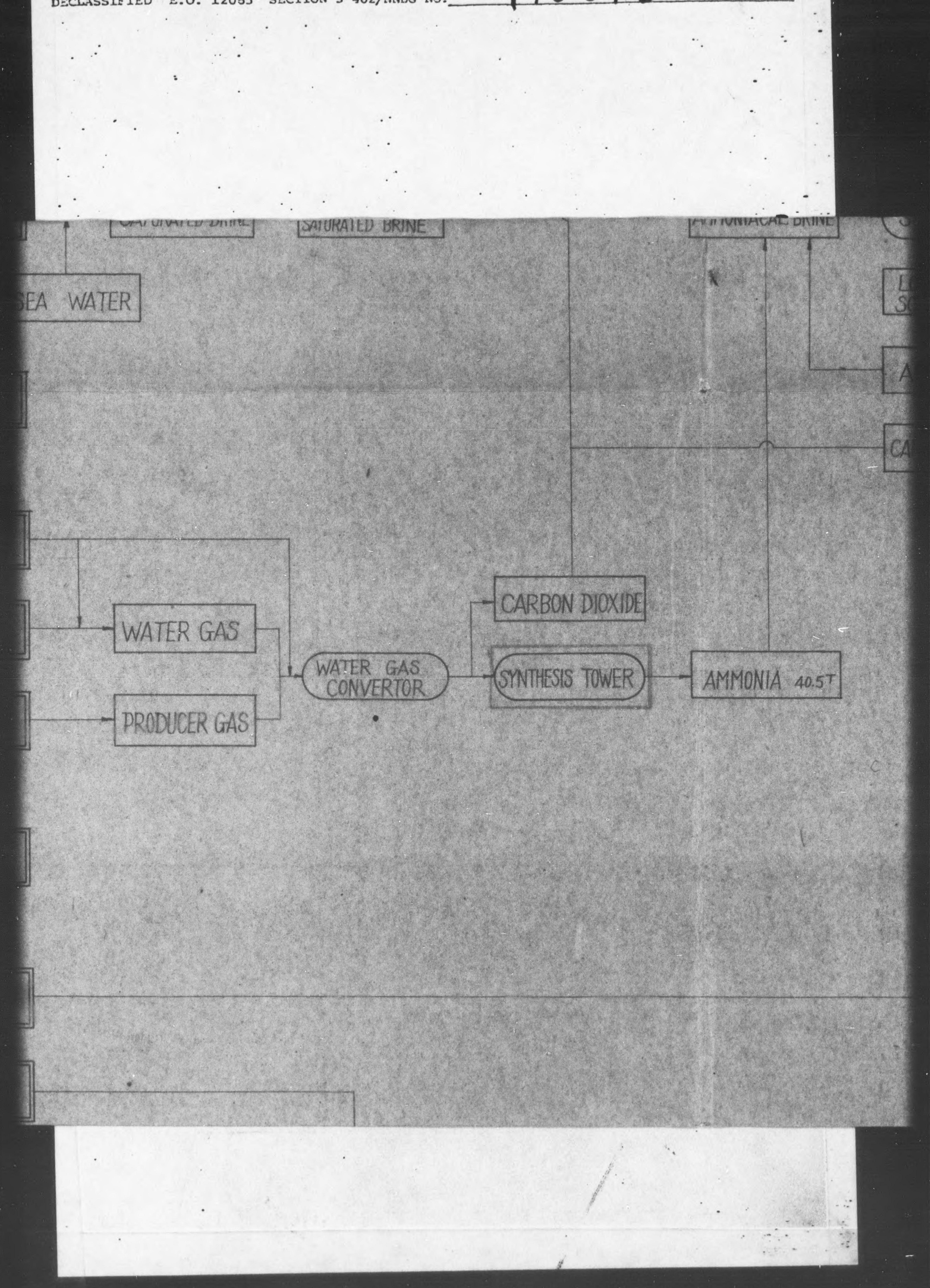
WATER GAS CONVERTOR

FERTILIZER PLANT

STEAM 488 T

COAL 25 T

DECLASSIFIED E.O. 12065 SECTION 3 402/NNBS NO.



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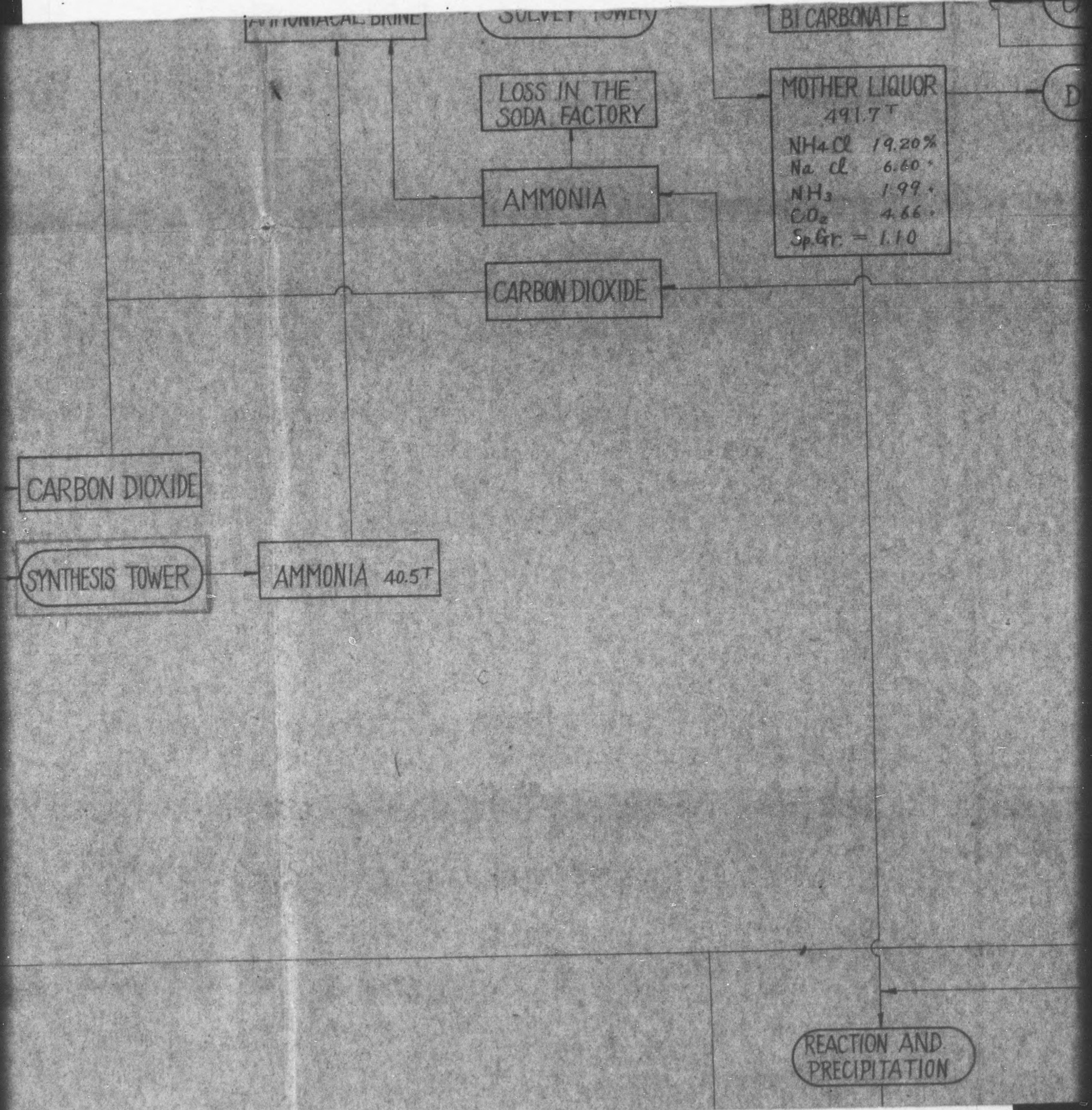
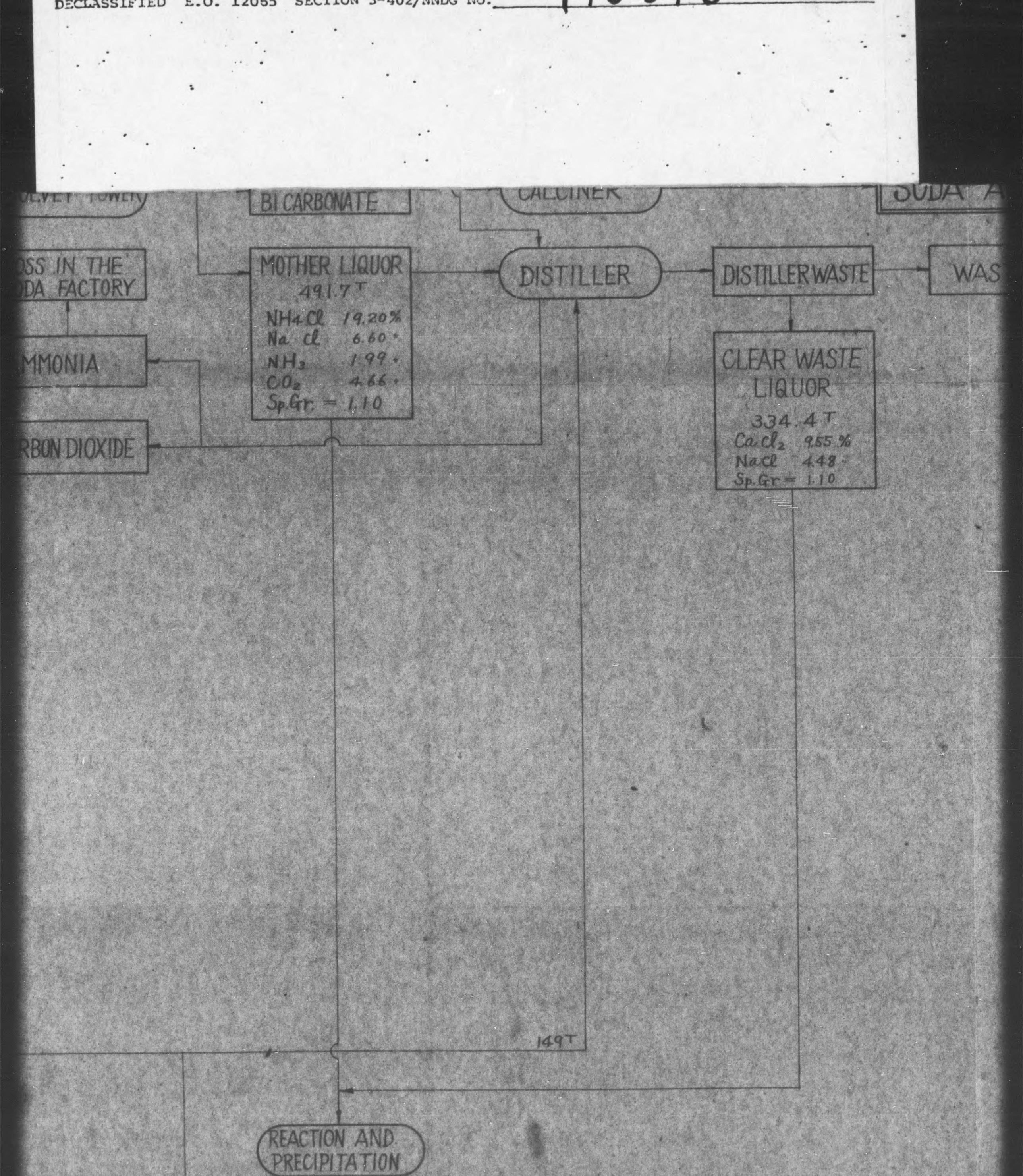
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