



## PROCESS DESCRIPTION



### 13. SLUDGE AND REJECT HANDLING

#### 13.1 Application

Reduced land fill capacities and higher costs call for reduction of discharged material of the waste paper preparation.

Dewatering of rejects helps close the water current while reducing the amount of discharged material. Sludge is dewatered with a Double Wire Press.

Sand and heavies from the HD-Cleaner and the forward cleaners are separated from water in the rake classifier by gravity.

#### 13.2 Operation

Sludge from both Purgomats, foam of flotation cell No. 1 and the secondary cell and the tertiary fine screen rejects are mixed in the sludge chest. Sludge is pumped by a Variable Speed Pump to the sludge press headbox.

Level of the chest is controlled by the pump speed which controls the speed of the Double Wire Press. Flocculent is mixed to the sludge by an inline Venturi Mixer.

To control the amount of flocculents either the feed density and flow have to be measured or it has to be done by operators visible control of the water line on the gravity zone. Wire is cleaned with medium pressure shower water.

The rake classifier discharges settled heavies and sand with a rotating rake. There are no controls with the machine.



## PROCESS DESCRIPTION



### 13.3 Starting Sequence of the Group

Sludge conveyor drives ready to start

Sludge press drive ready to start

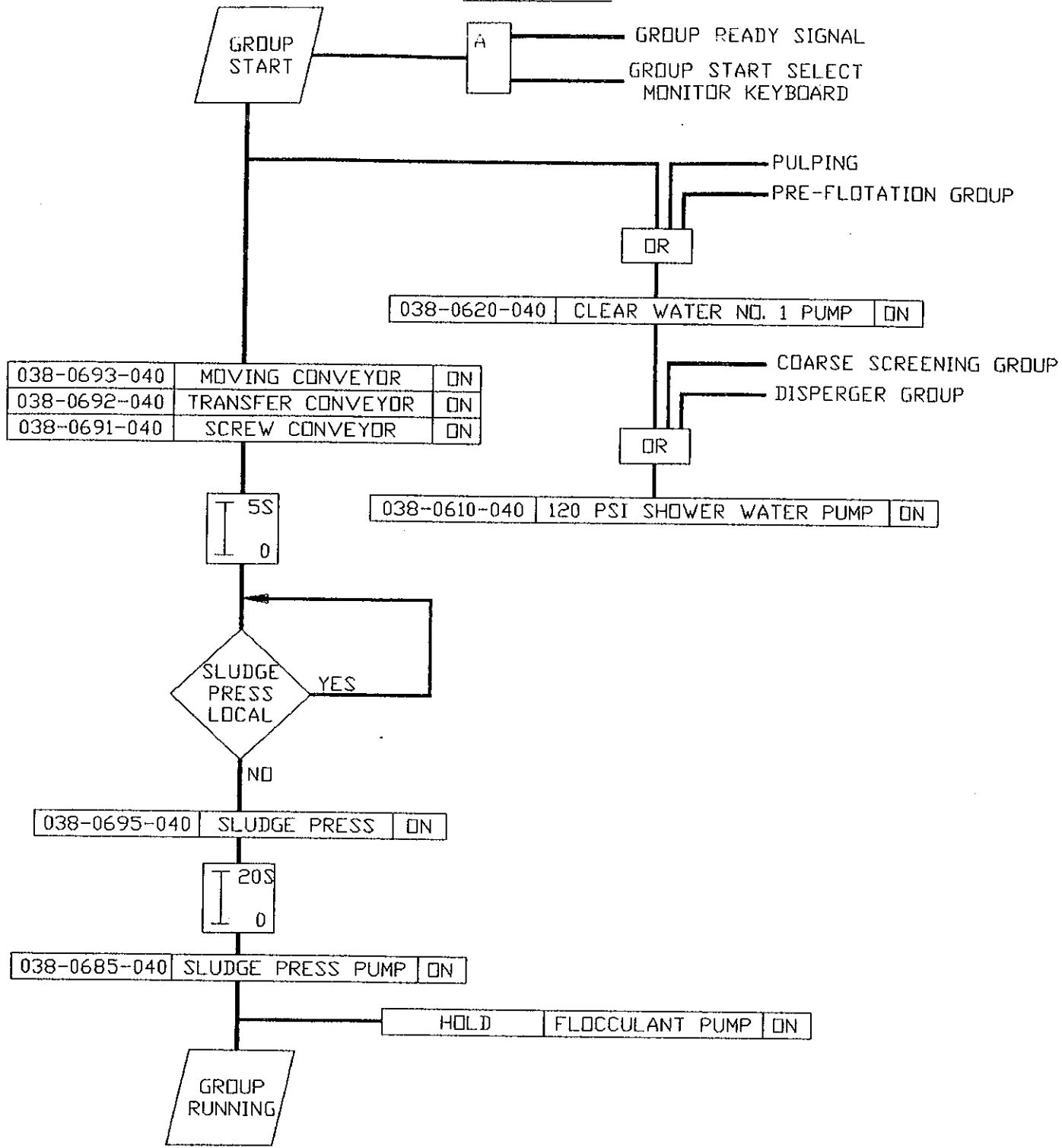
120 PSI shower water pump ready to start


Clean water No. 1 pump ready to start

Sludge press pumps ready to start

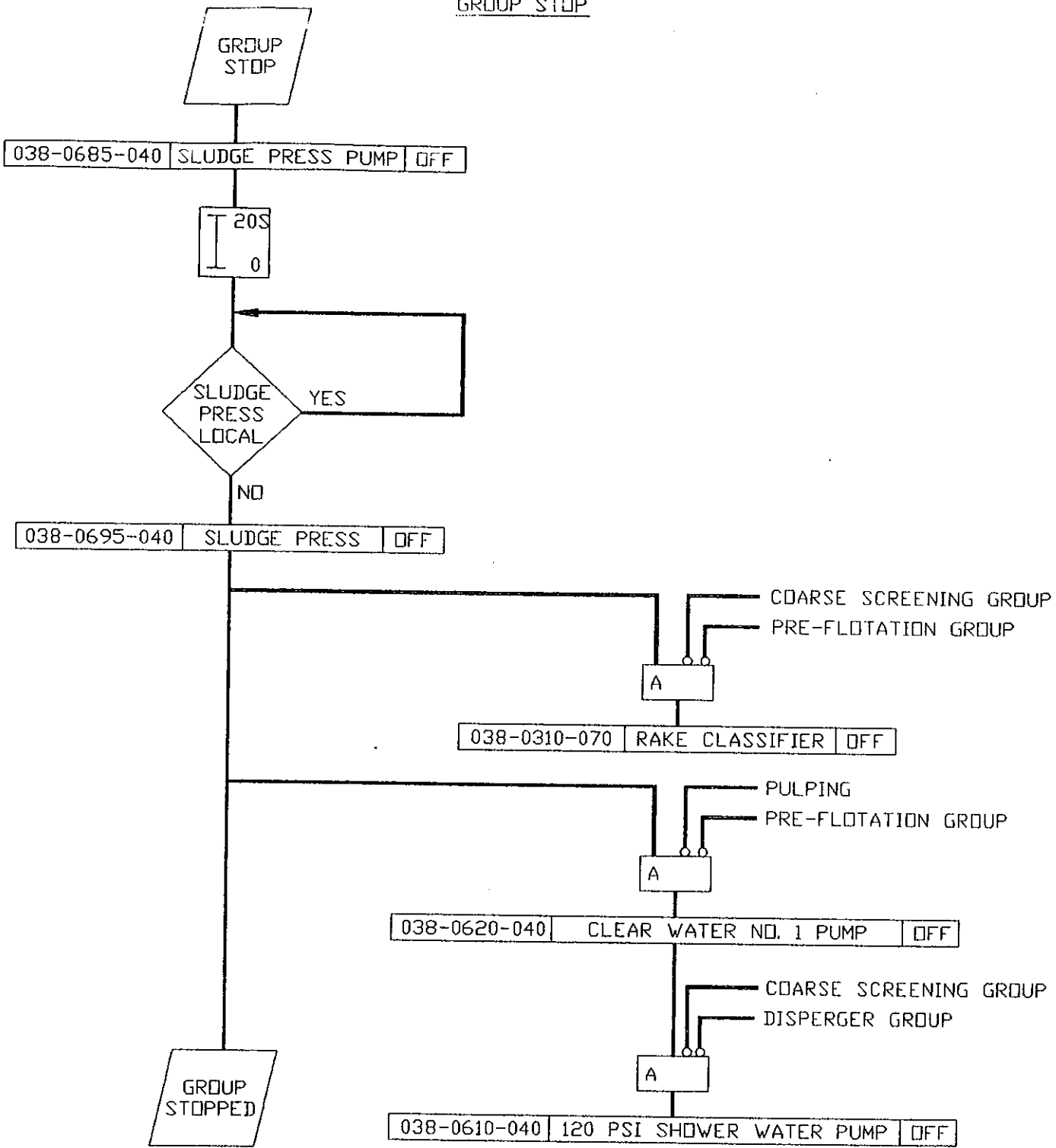
Find attached start/stop diagrams.


**REJECTS & SLUDGE SYSTEM  
GROUP START**

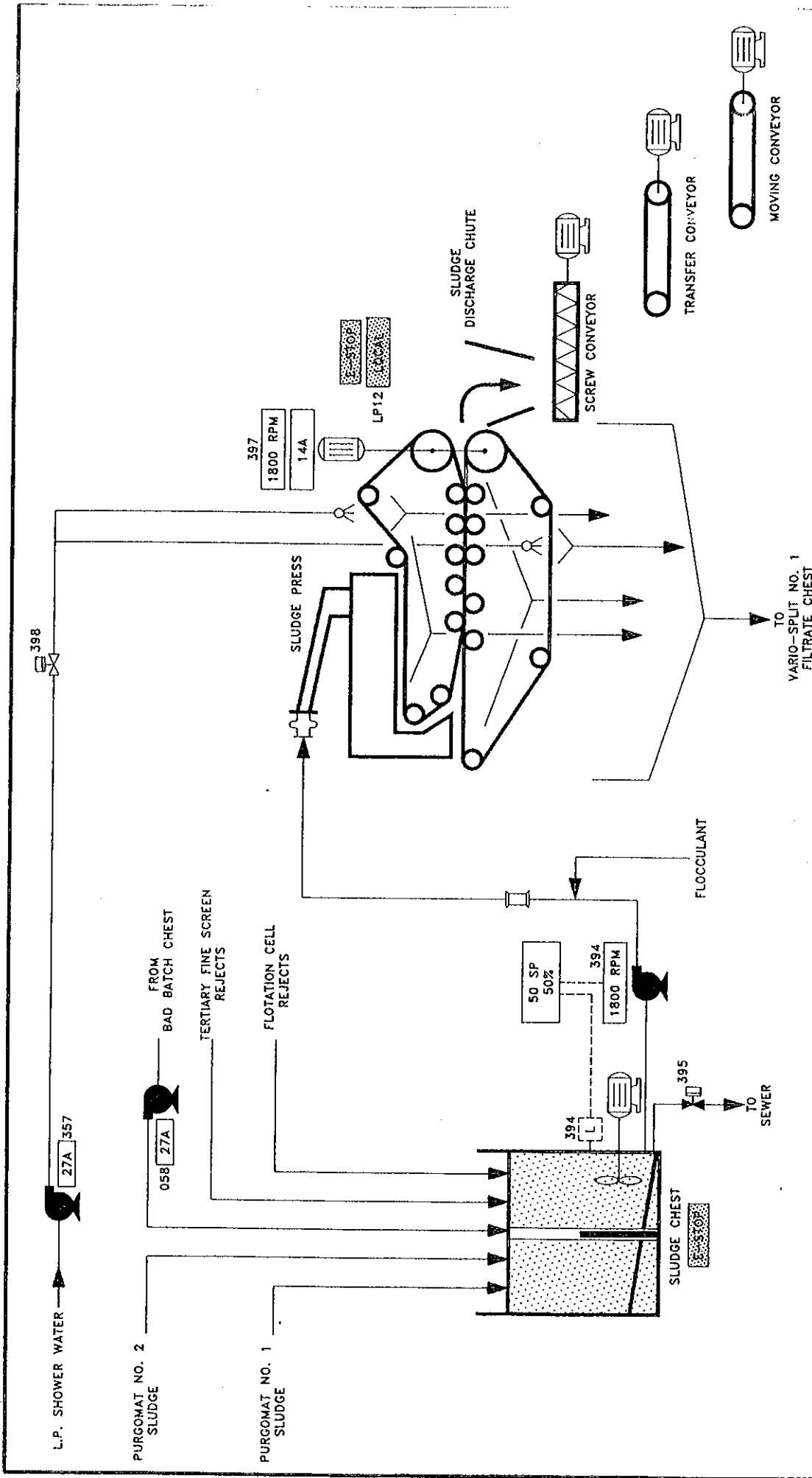


2/24/93	CERTIFIED	AC	1	 BURROWS PAPER CORPORATION LITTLE FALLS, NEW YORK
1/29/93	CERTIFIED	AC	0	
12/21/92	PRELIMINARY	AC	A	
DATE	REVISION	NAME	REV	CLIENT DWG NO. 500-463
SCALE : NONE	TITLE: REJECTS & SLUDGE SYSTEM START/STOP DIAGRAM			BEW DWG NO. TPI1-917-00550
SHEET 1 OF 1				BIRD ESCHER WYSS INC. MANSFIELD, MA
DRAWN BY AC	CHECKED KC	DATE	12/17/92	- CAD DRAWING -

REJECTS & SLUDGE SYSTEM  
GROUP STOP



1/29/93	CERTIFIED	AC	0	 BURROWS PAPER CORPORATION LITTLE FALLS, NEW YORK
12/21/92	PRELIMINARY	AC	A	
DATE	REVISION	NAME	REV	
SCALE : NONE				CLIENT DWG NO. 500-462
SHEET 1 OF 1				BEW DWG NO. TPI1-917-00540
DRAWN BY AC				BIRD ESCHER WYSS INC. MANSFIELD, MA - CAD DRAWING -
CHECKED KC		DATE 12/17/92		
TITLE: REJECTS & SLUDGE SYSTEM START/STOP DIAGRAM				



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**BURROWS PAPER CORPORATION**  
LITTLE FALLS, NEW YORK

REF. Dwg. NO. VP13-917-00190  
CLIENT DWG. NO. 500-51e

PROJECT SHEET NO. NONE

SCALE NONE

DESIGN DATE 1/15/92

DESIGNER AC

CHECKED AC

APPROVED AC

DATE 1/15/92

BY DATE ACTION

REV. A

RELEASED FOR

TO SEWER

TO VARIO-SPLIT NO. 1  
FILTRATE CHEST

SCREW CONVEYOR

TRANSFER CONVEYOR

MOVING CONVEYOR

SLUDGE PRESS

FLOCCULANT

DISCHARGE CHUTE

SLUDGE CHEST

FROM BATCH CHEST

TERTIARY FINE SCREEN REJECTS

FLOTATION CELL REJECTS

PURGOMAT NO. 2 SLUDGE

PURGOMAT NO. 1 SLUDGE

L.P. SHOWER WATER

398

357

27A

058

394

394

50 SP 50%

1800 RPM

394

397

1800 RPM

14A

LP12

395

