



## PROCESS DESCRIPTION



### 9. POSTFLOTATION

#### 9.1 Application

The purpose of the Postflotation is to remove ink freed from the fibers during dispersing. The ink particles bind to the bubbles of air created in the inlet stream by the step diffusers. The bubbles with the ink float to the surface, creating a foam. This foam flows over a weir in the center of the cell and combines with the foam from the preflotation cells for further treatment.

#### 9.2 Operation

Thick stock is diluted at the bottom of the bleach tower in an agitated "dilution zone". This dilutes the stock from the bleach consistency of about 18% to a pumpable consistency of about 5%. The stock is pumped from the bleach tower and further diluted to a controlled consistency of 4.5%. The flow rate is controlled and adjusted by the production control system.

The stock flows to the pump suction of the No. 5 flotation cell pump. This pump is a fan type arrangement with the suction hooked to the No. 2 Clear Water Chest. An on/off valve in the suction pipe closes when the pump shuts off to prevent stock from getting into the clear water chest. Dilution water is drawn from the chest and is mixed with the thick stock flow to reduce the consistency to about 1.2%.

The diluted stock is pumped from the Flotation Cell No. 5 pump to the Flotation Cell No. 5 inlet. The flow is measured and the rate is adjusted to the optimum flow for the cell by adjusting the speed of the pump. The inlet pressure is also monitored.



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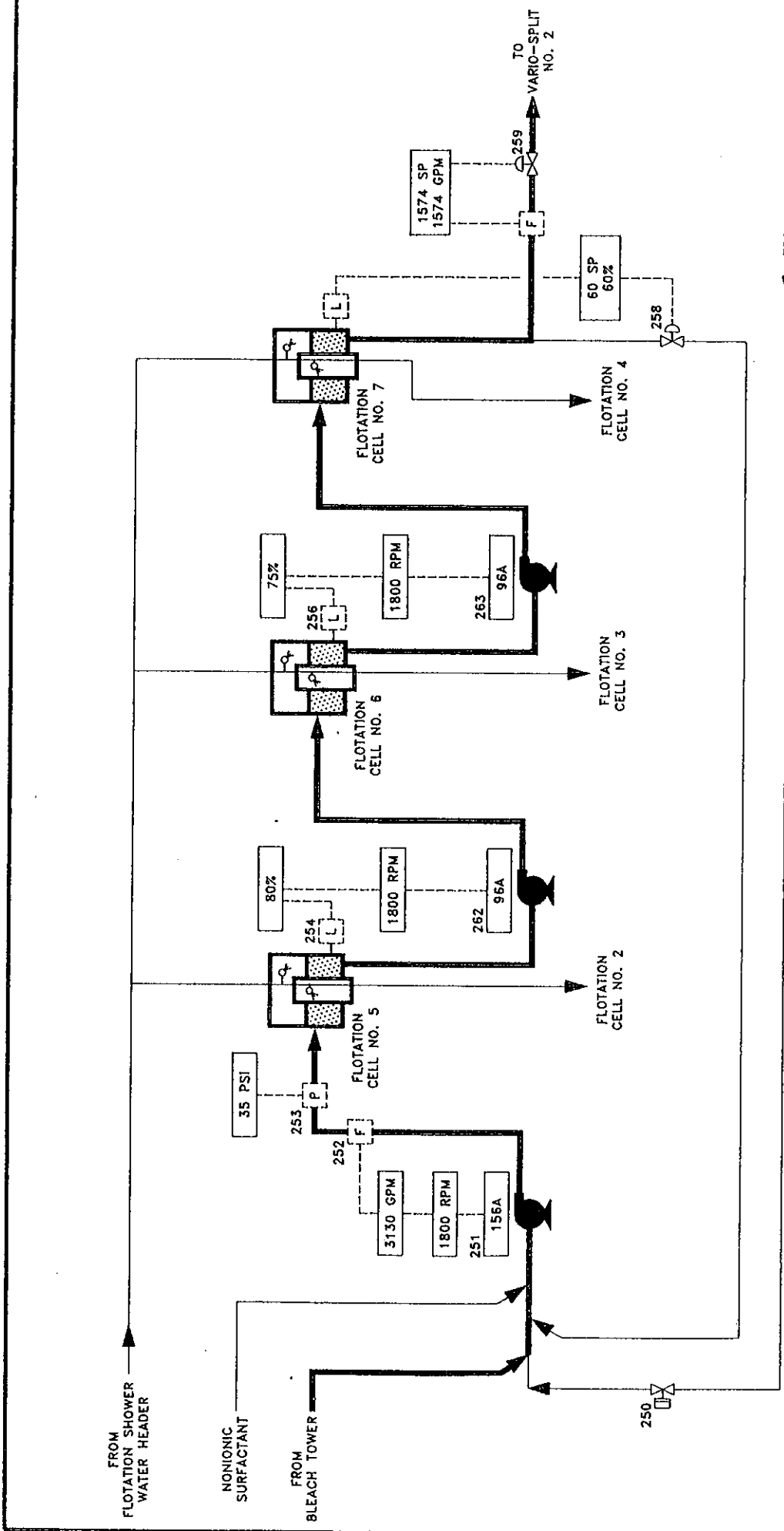


The accepted, de-inked stock from Flotation Cell No. 5 flows to the suction of the Flotation Cell No. 6 pump suction. The level in Cell No. 5 is controlled by adjusting the speed of Cell No. 6 pump. The accepts from Cell No. 6 flow to the No. 7 pump. The level in Cell No. 6 is controlled by adjusting the speed of No. 7 pump. The accepts from Flotation Cell No. 7 is split into a main stream and a recirculation stream. The main stream flow is measured and controlled by the production setpoint. This stock flows to the suction of the Vario No. 2 Feed Pump. The recirculation stream is controlled to maintain the level in Flotation Cell No. 7. The recirculation stream flows back to the Flotation Cell No. 5 pump suction.

The rejects foam from the postflotation cells (Nos. 5-7) is combined with the preflotation rejects and is further treated in the secondary flotation cell. *See Section 5.2.*

### 9.3 Starting Sequence of the Group

This group must be started in sequence with 2nd Washer (Vario No. 2) group. *See instructions at end of Chapter 10.*



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REV. NO.	VP13-917-00130	SHEET NO.	500-512	REV. A
<b>POSTFLOTATION SYSTEM</b> <b>DCS SCREEN LAYOUT</b>				
SCALE	NONE	FILE	PROJECT	SHEET NO.
REV.	BY	DATE	ACTION	BT
A				
NONE				
REFERENCES				
NONE				
ISO FILE: 347001LUMC				
REV.	BT	CHKO	DATE	TIME