

CHEMICALS



R.L. Holliday
W.C. Oglesby who

INTEROFFICE / LAKE CHARLES

Comment's

RJC

Letter good to us

DDH/13

TO See Distribution

DATE May 25, 1983

FROM J. E. Wyche

SUBJECT Water Balance of Lake
Charles Plant

In June of 1981, the BAT distributed a set of sketches depicting the quantity of incoming and outgoing water utilized by the Complex. In the process of updating our NPDES permit application this spring, an updated version of this "water balance" has been prepared and is attached for your information and use. If you are now aware or become aware in the course of future project work of better information than that shown, I would appreciate your bringing it to my attention.

/fk
Attachment

Distribution:

W. G. Wallace
R. J. Whitaker
J. G. Peck
D. V. Mumm
T. C. Jeffery
R. J. Samelson
File #317.1.01

*R.L. Holliday,
Why don't you
file this*

SL 078088

PPG Industries, Inc.
Lake Charles, La.

WATER BALANCE SUMMARY

Incoming Water

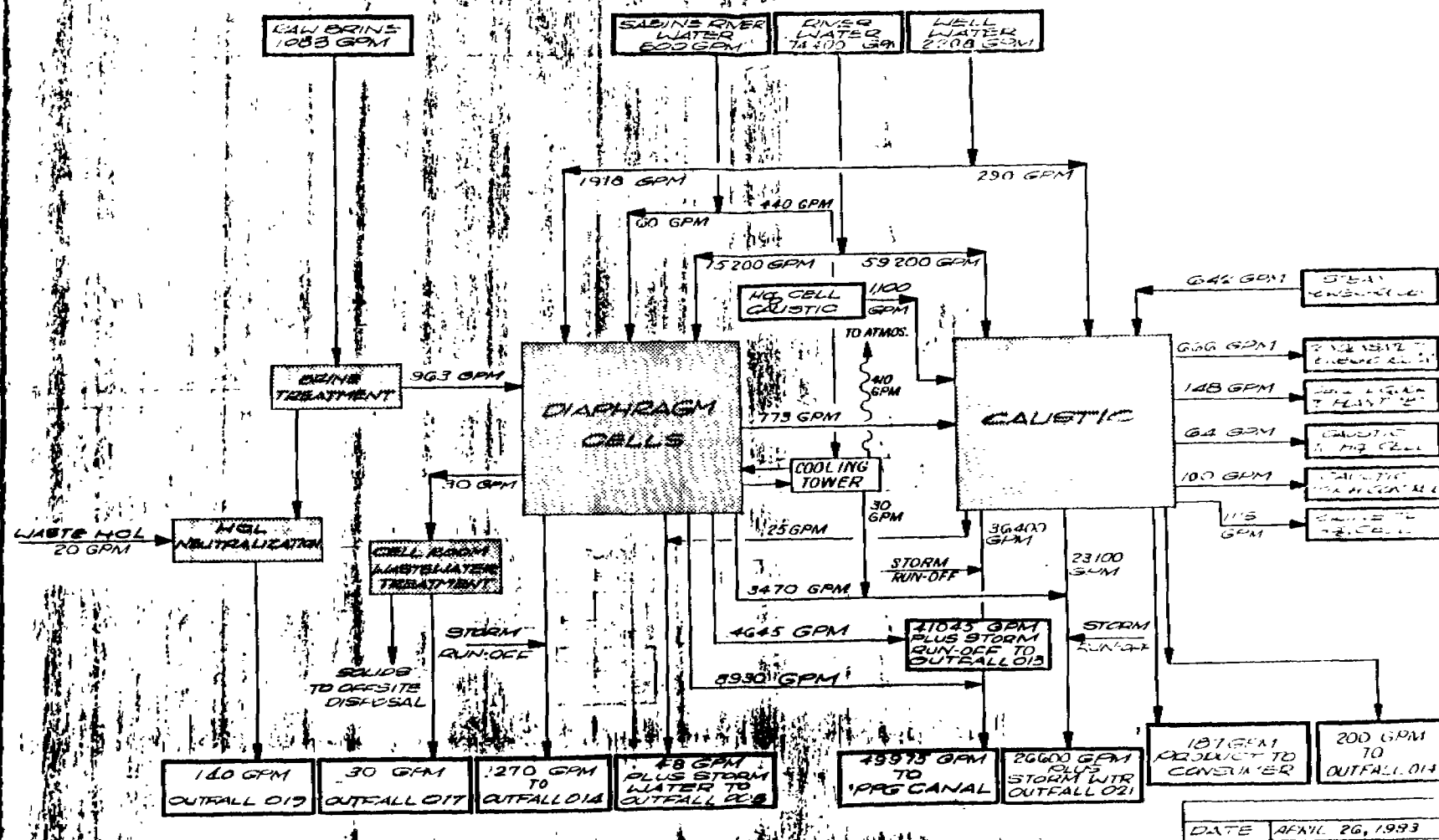
<u>Sources</u>	<u>Gallons Per Minute</u>
Calcasieu River	201,655
Sabine River	6,907
Well Water	5,331
Kaw Brine	3,267
Generated in process	87
Neighboring industries	600
Total	217,847

Effluent Water

<u>Discharges</u>	<u>Gallons Per Minute</u>
Bayou D'Inde	186,400
Bayou Verdine (Olin Ditch)	27,000
Atmosphere	3,695
Product	740
Field Lines (i.e., septic tank systems)	12
Total	217,847

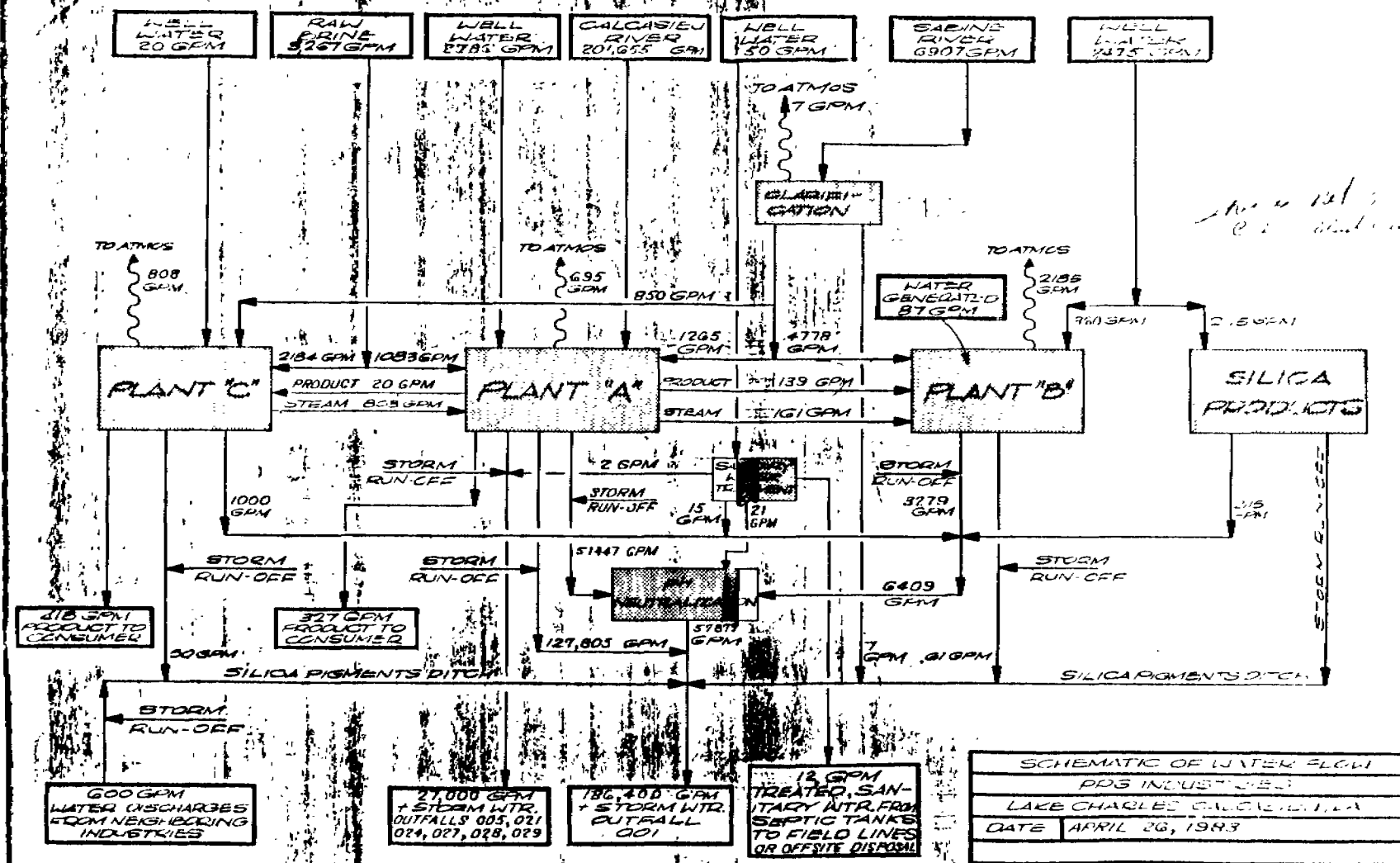
DETAIL SCHEMATIC PLANT A DIAPHRAGM CELLS

FIGURE 3

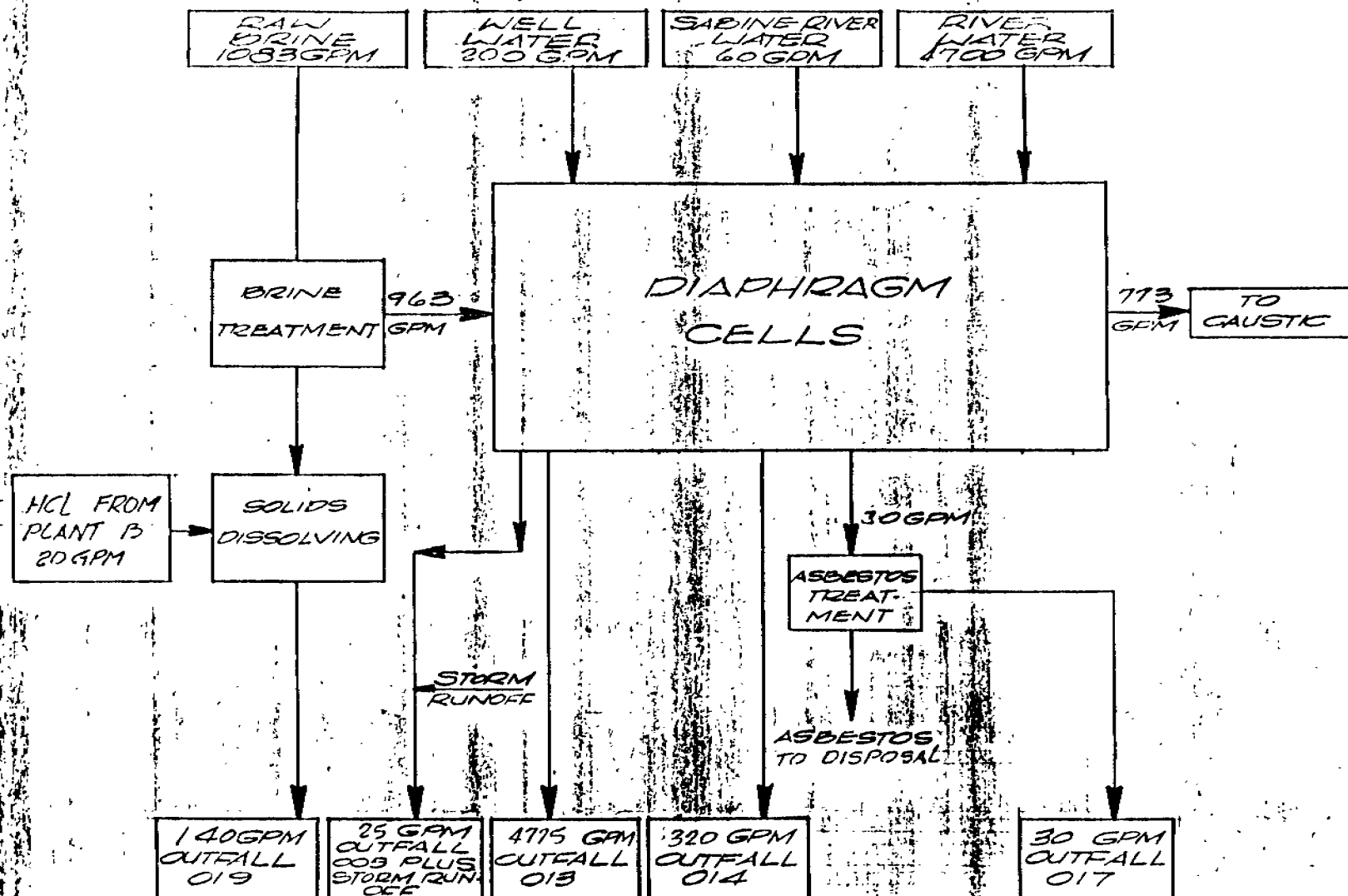


SL 078090

FIGURE 2

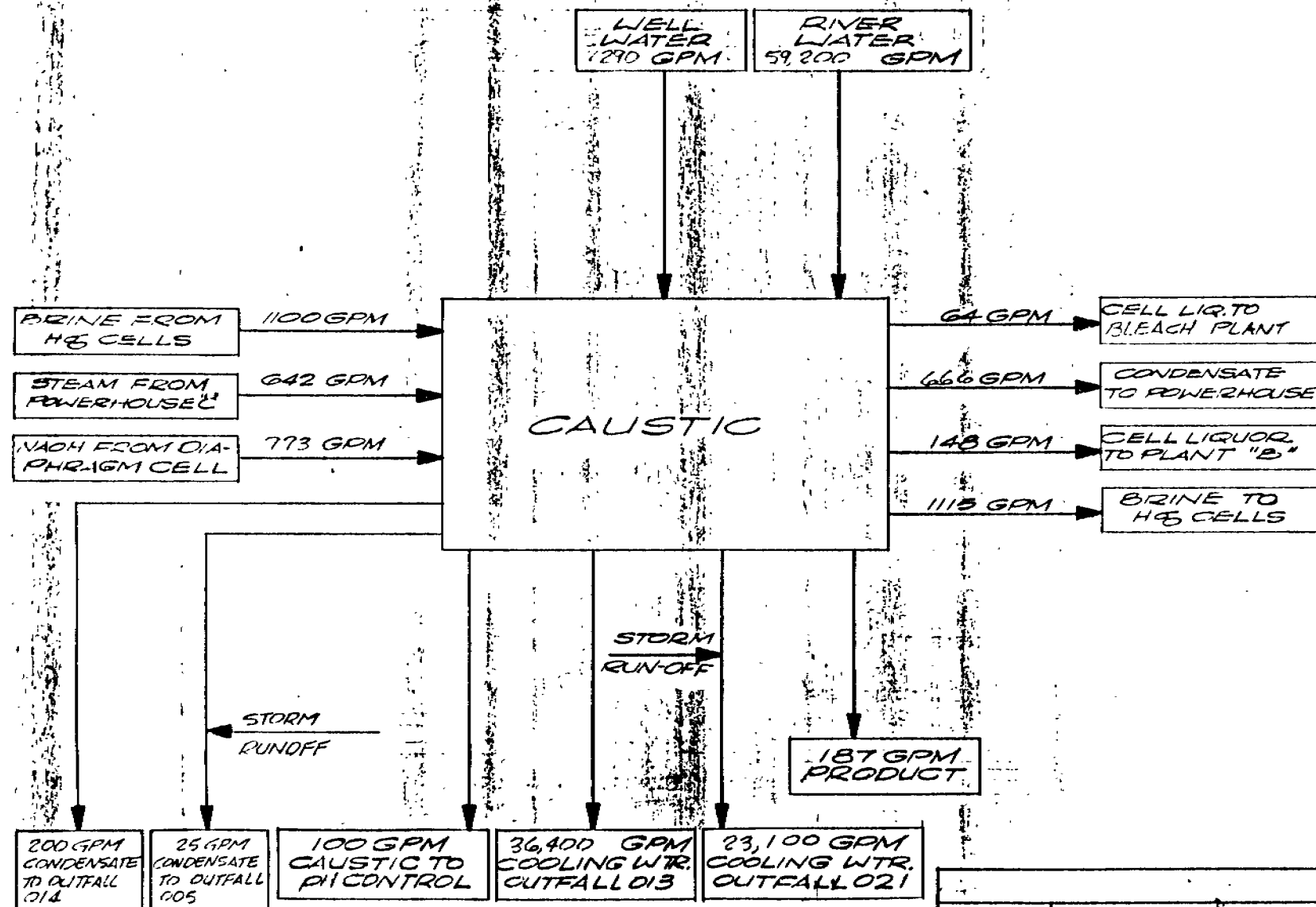


DETAIL SCHEMATIC - PLANT "A" DIAPHRAGM CELLS (SHEET 2 OF 4)



DATE | MAY 19 1982

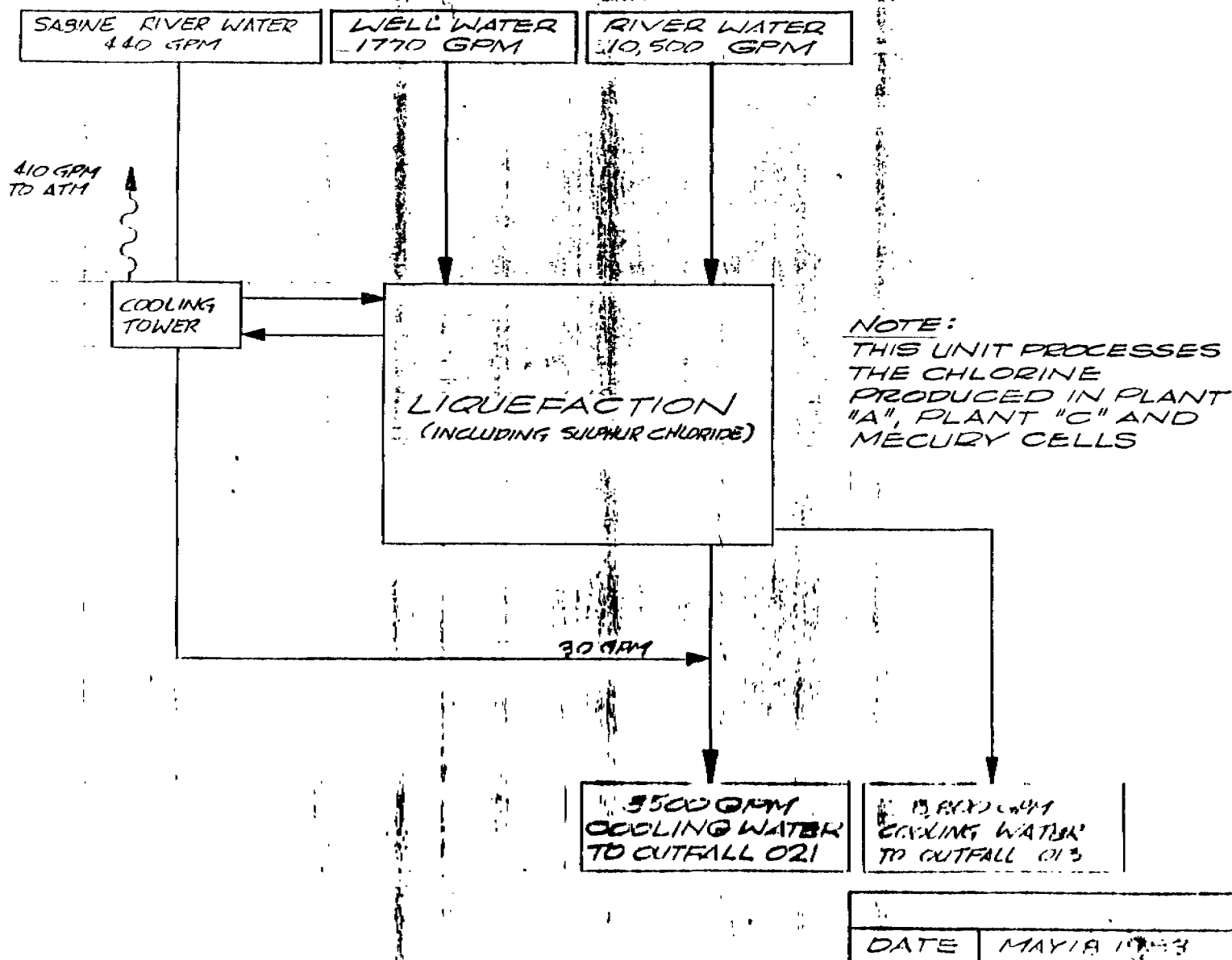
DETAIL SCHEMATIC - PLANT "A" DIAPHRAGM CELLS (SHEET 3 OF 4)



DATE | MAY 18, 1933

DETAIL SCHEMATIC-CHLORINE LIQUEFACTION UNIT

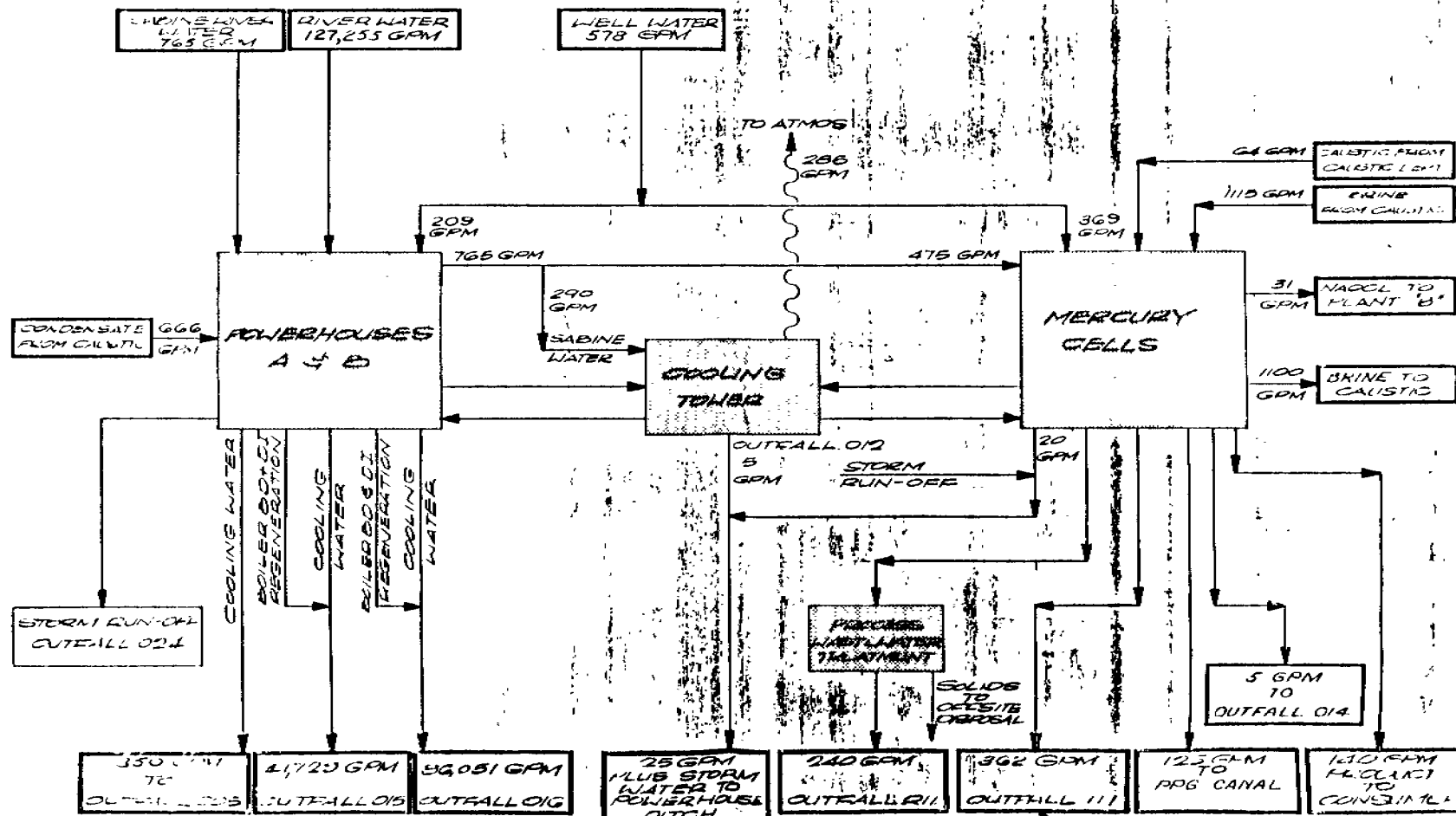
(SHEET 4 OF 4)



SL 078094

DETAIL SCHEMATIC - PLANT "A" POWERHOUSES/MERCURY CELLS

EXHIBIT 4

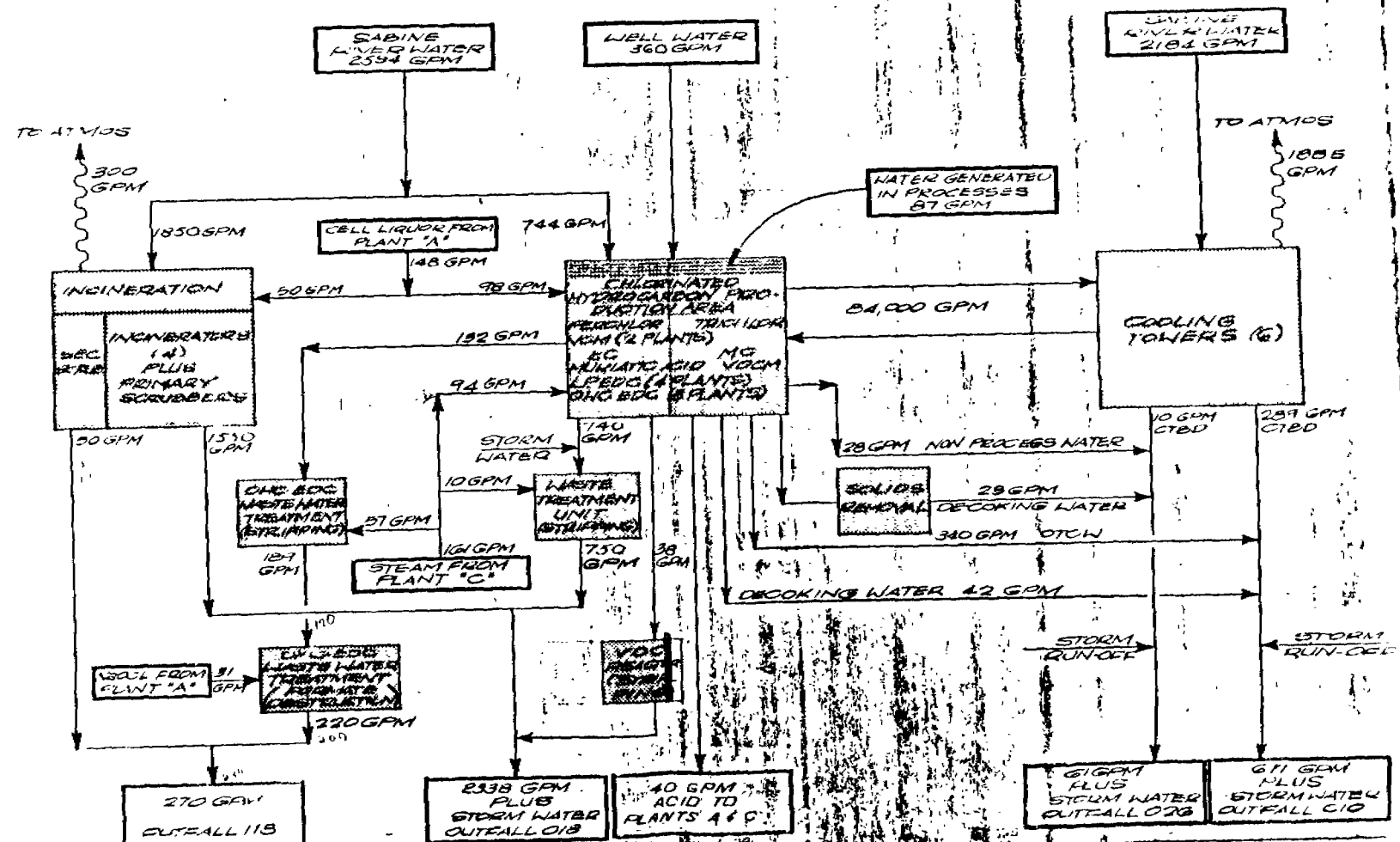


DATE APRIL 26, 1989

SL 078095

DETAIL SCHEMATIC - PLANT "B"

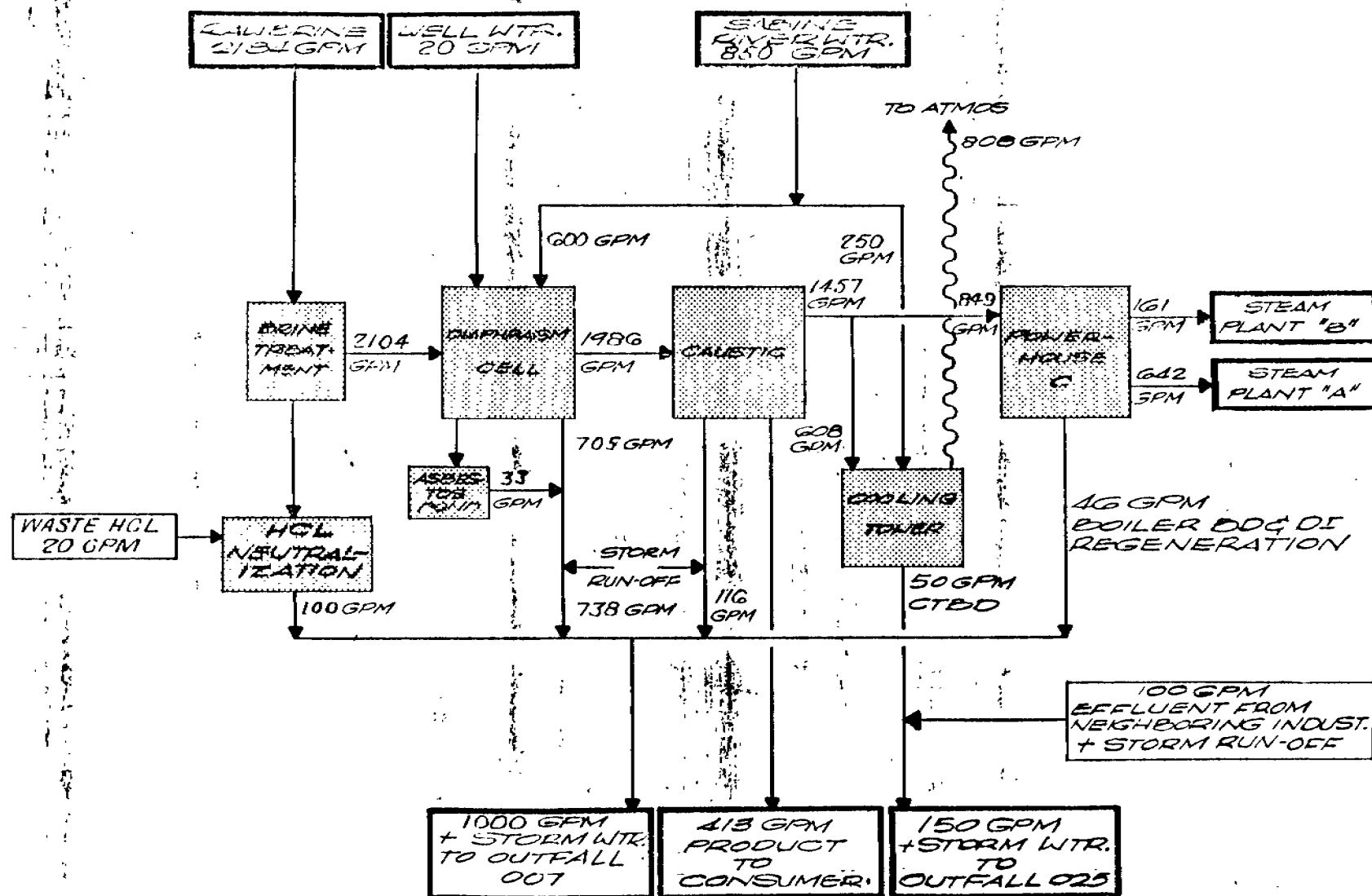
FIGURE 5



DATE APRIL 26, 1983

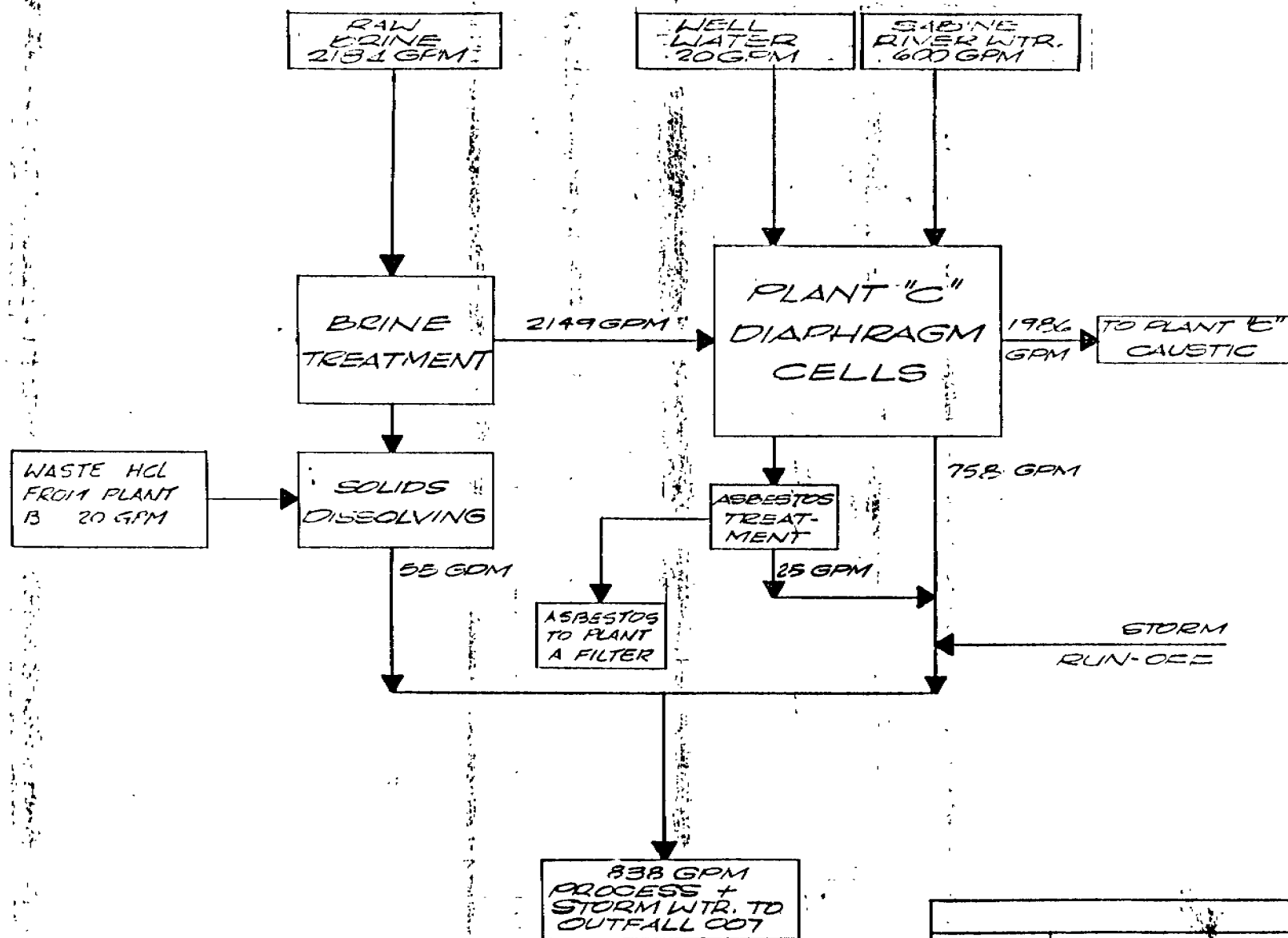
DETAIL SCHEMATIC-PLANT "C" DIAPHRAGM CELL AND POWERHOUSE

FIGURE G



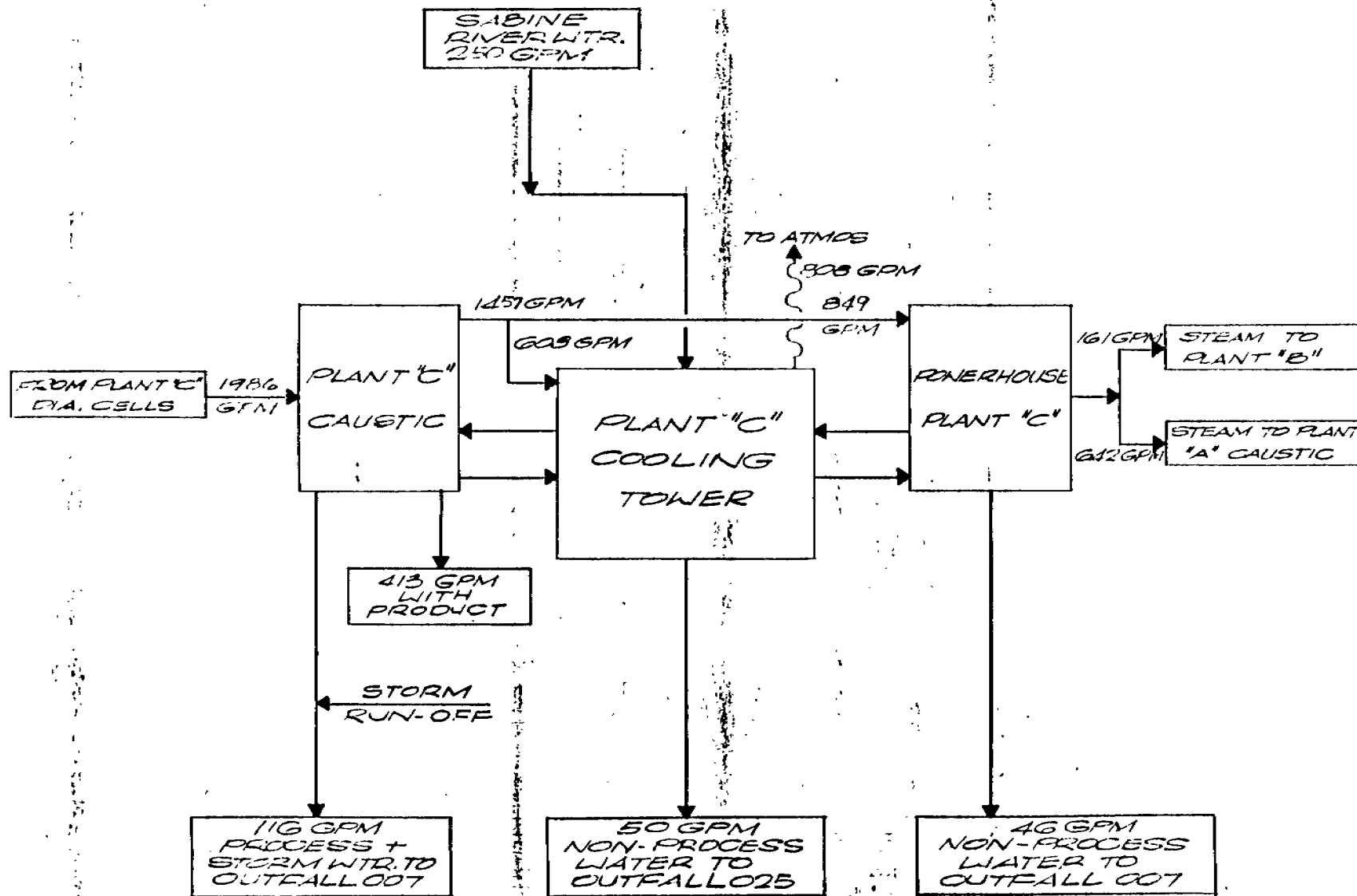
DETAIL SCHEMATIC-PLANT "C"

(SHEET 2 OF 3)



DETAIL SCHEMATIC-PLANT "C"

(SHEET 3 OF 3)



DETAIL SCHEMATIC-SILICA PRODUCTS

FIGURE 7

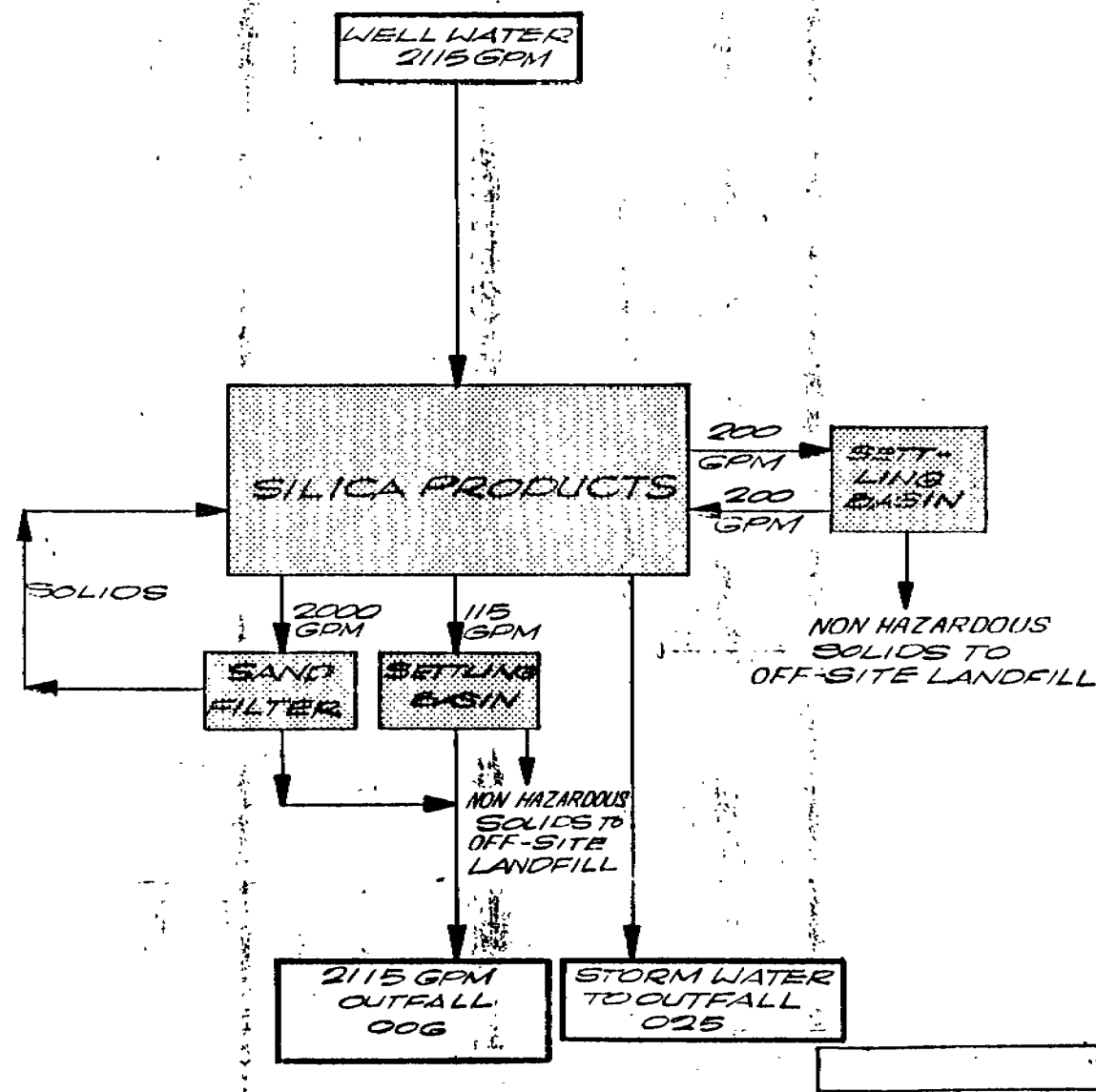
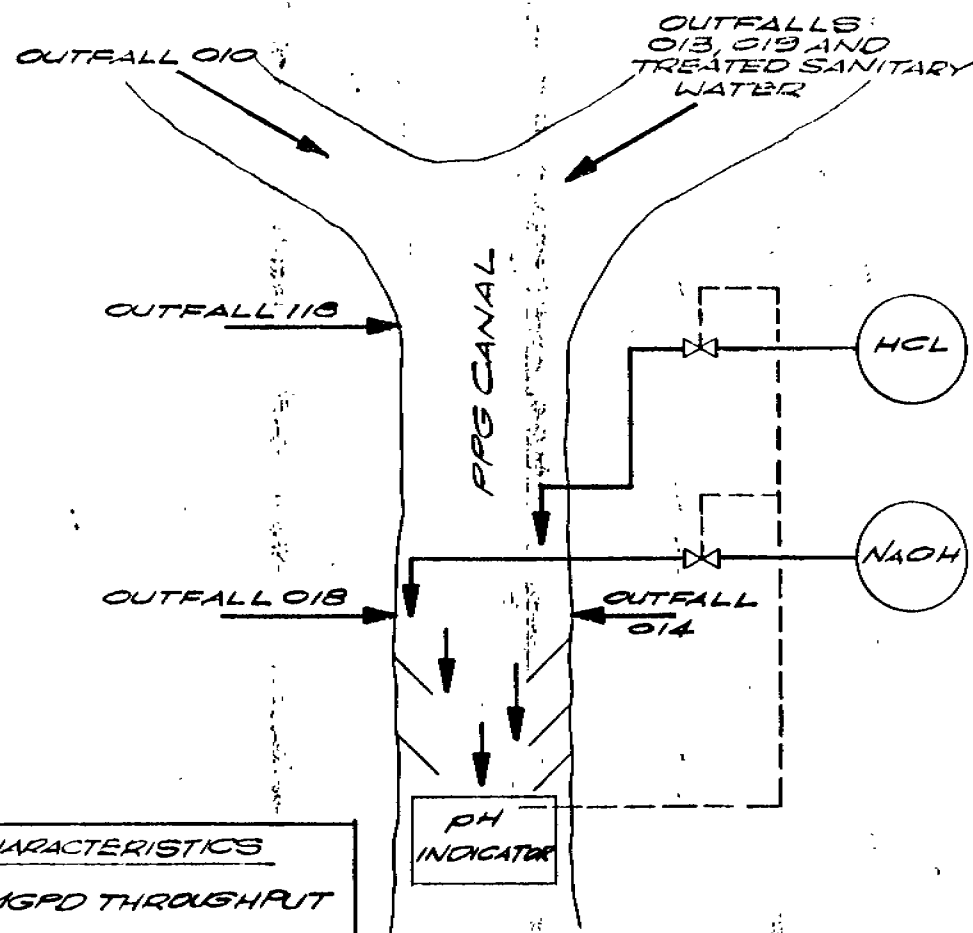
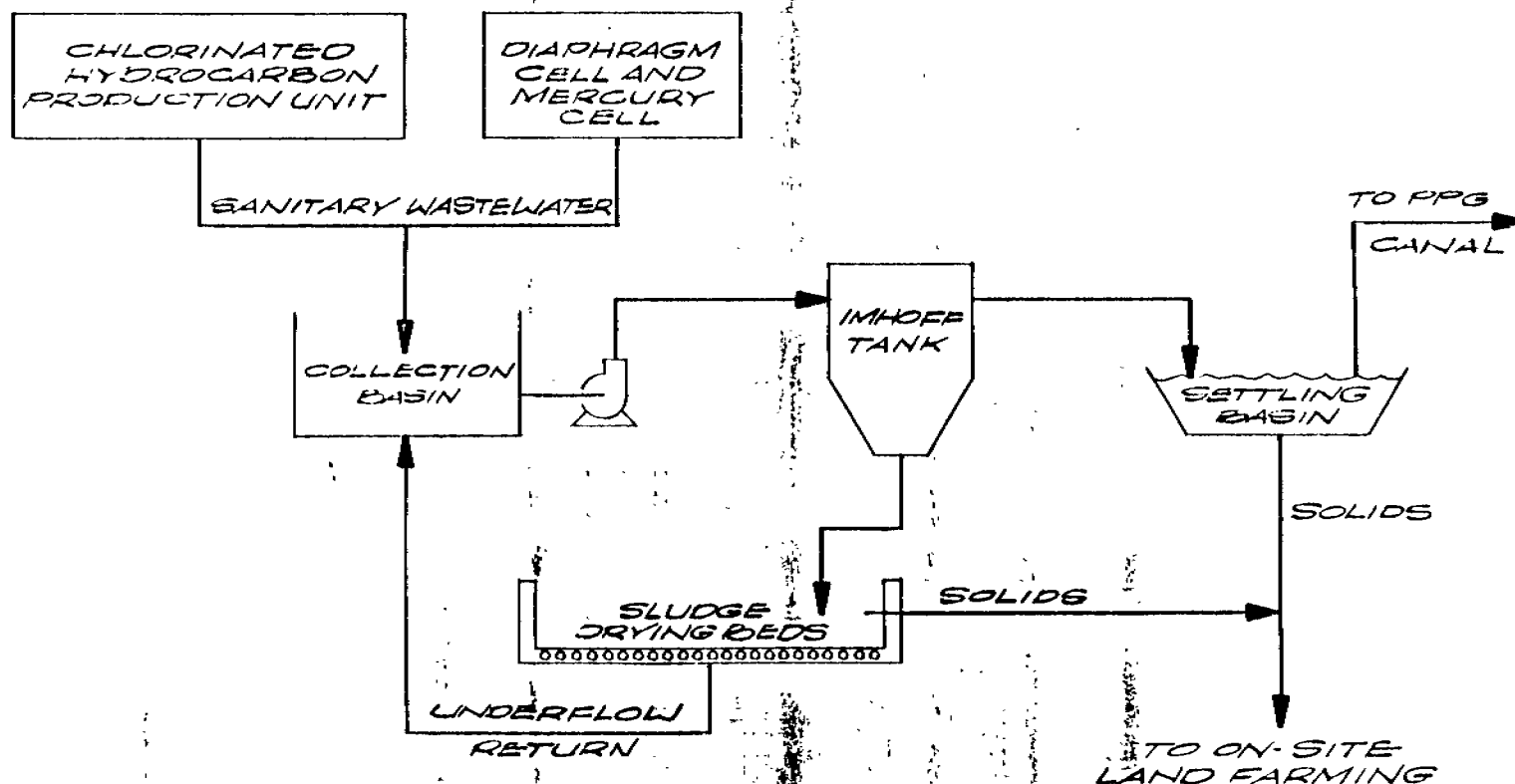


FIGURE 9
COMBINED WASTEWATER NEUTRALIZATION SYSTEM
OUTFALL 001



<u>TREATMENT CHARACTERISTICS</u>	
SIZE:	8.5 MMGPD THROUGHPUT
FLOWRATE:	0.02 GPD
RETENTION TIME:	NONE

FIGURE 10
IMHOFF SANITARY WASTEWATER TREATMENT



TREATMENT CHARACTERISTICS
 SIZE : 1100 POPULATION
 FLOWRATE : 0.03 MMGPD
 RETENTION TIME : 24 HOURS

FIGURE 1.1
SABINE RIVER WATER CLARIFICATION SYSTEM

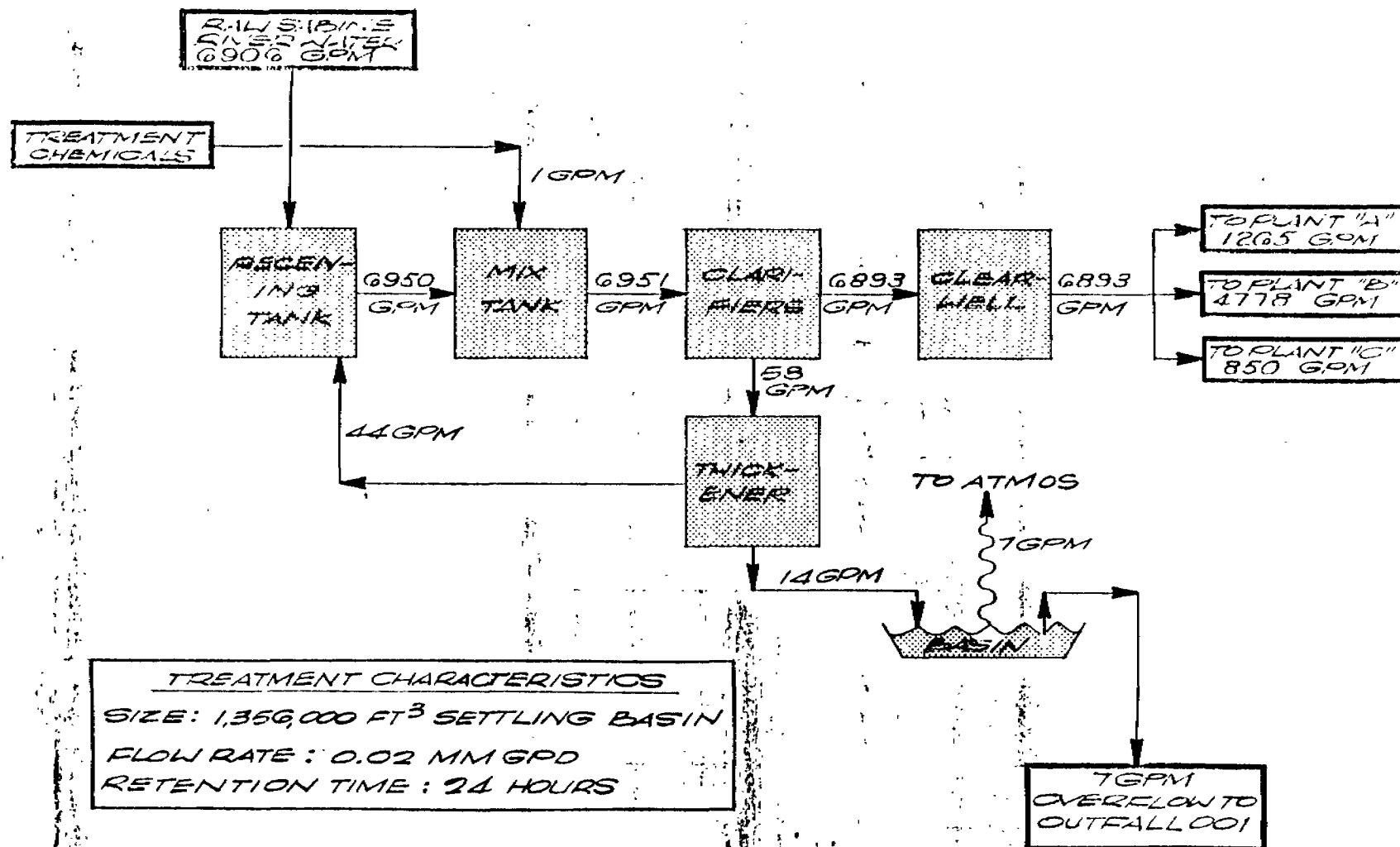
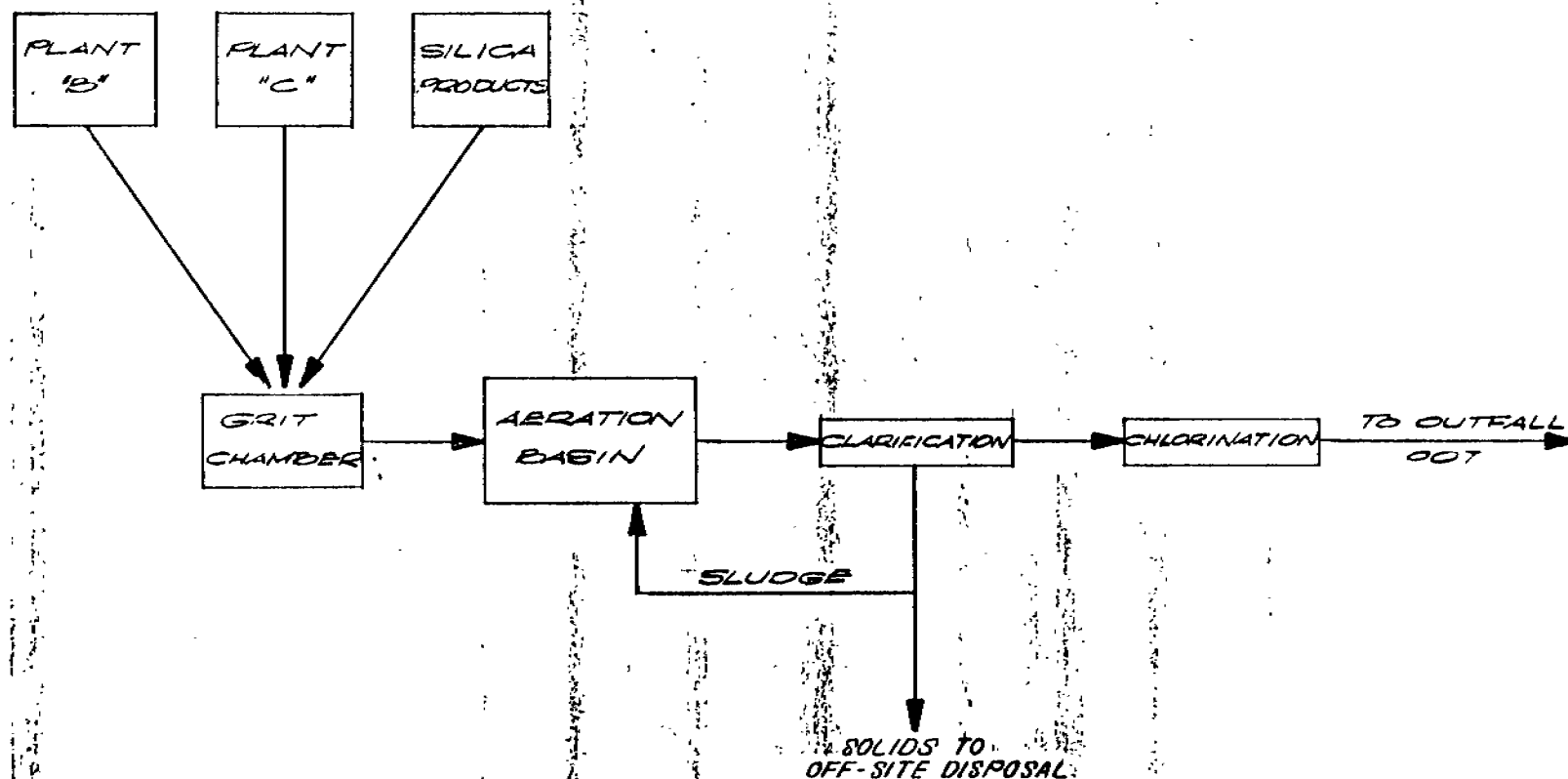


FIGURE 12

AEROBIC SANITARY TREATMENT SYSTEM



TREATMENT CHARACTERISTICS

SIZE: 800 POPULATION
FLOWRATE: 0.02 MMGPD
RETENTION TIME: 24 HOURS

FIGURE 13
MERCURY TREATMENT SYSTEM
PLANT "A"

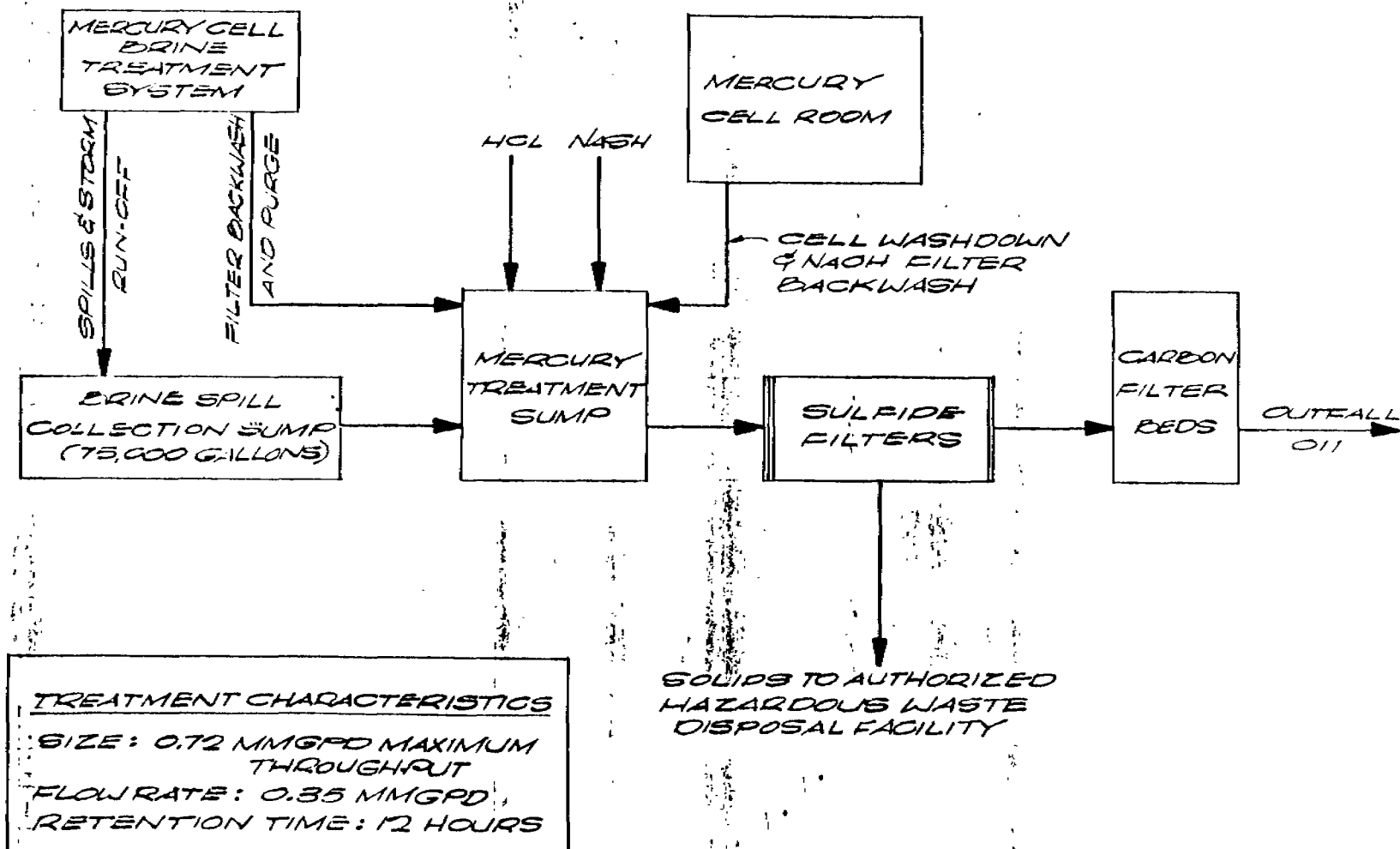
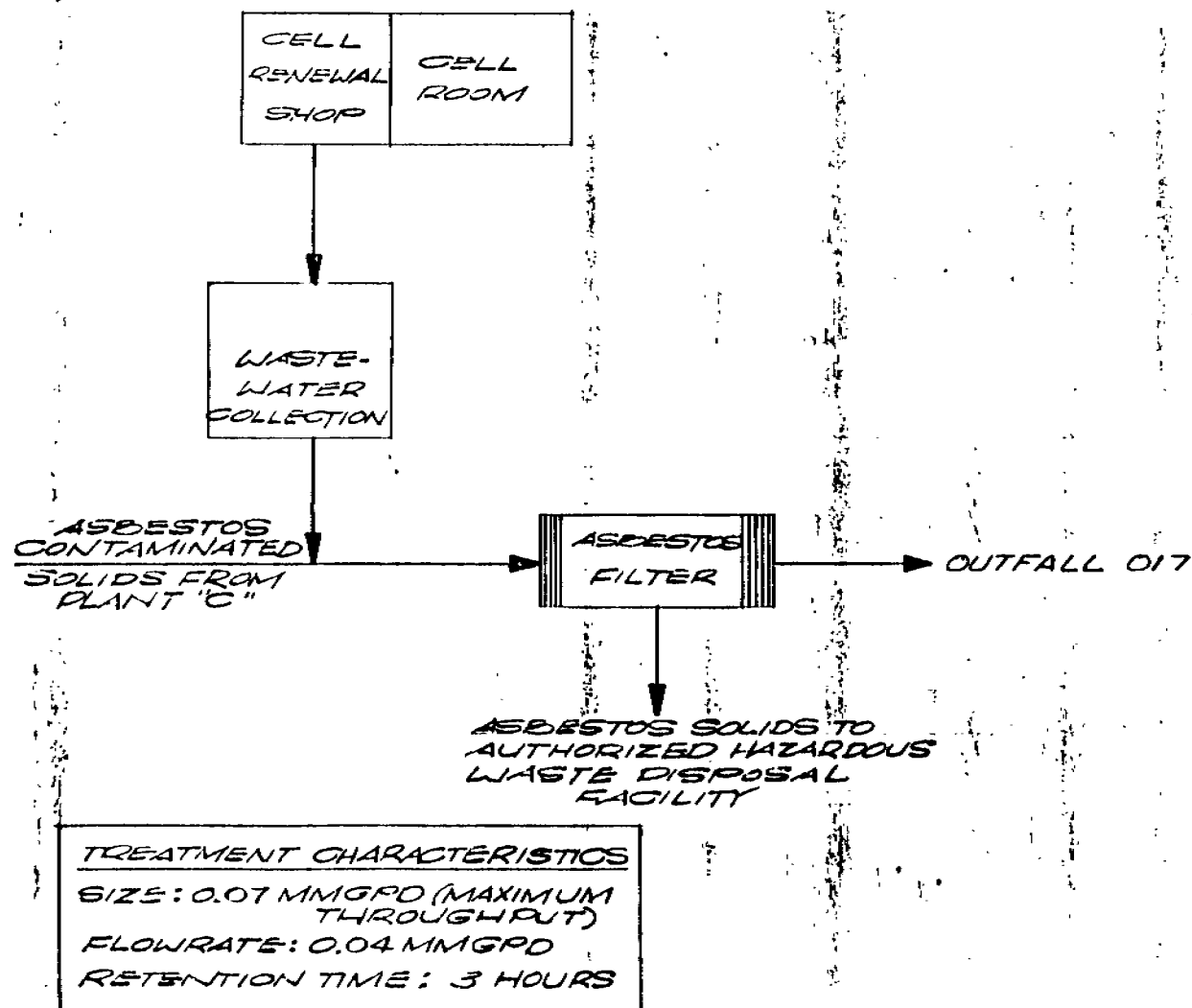
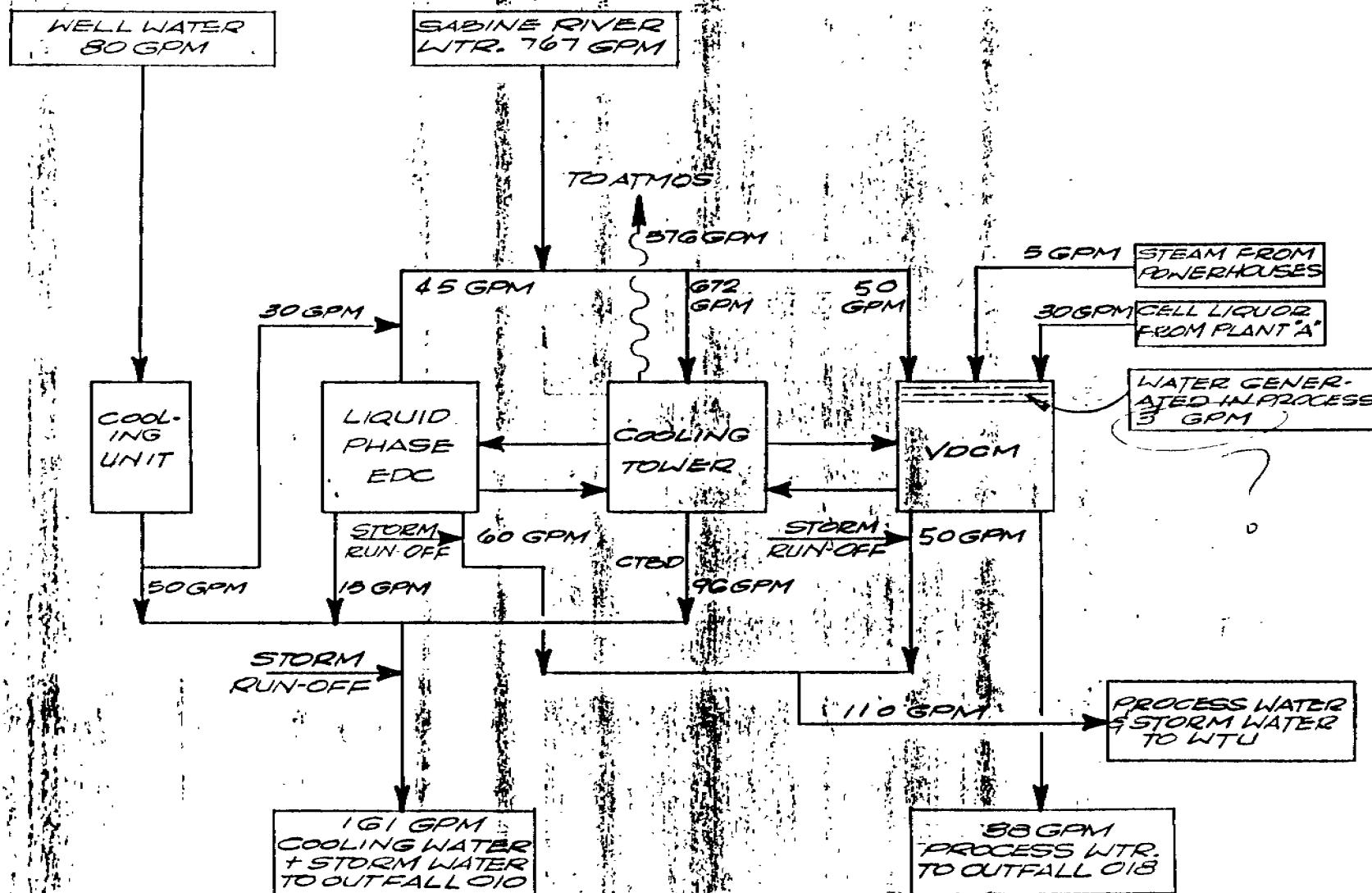


FIGURE 14
ASBESTOS TREATMENT SYSTEM
PLANT "A"



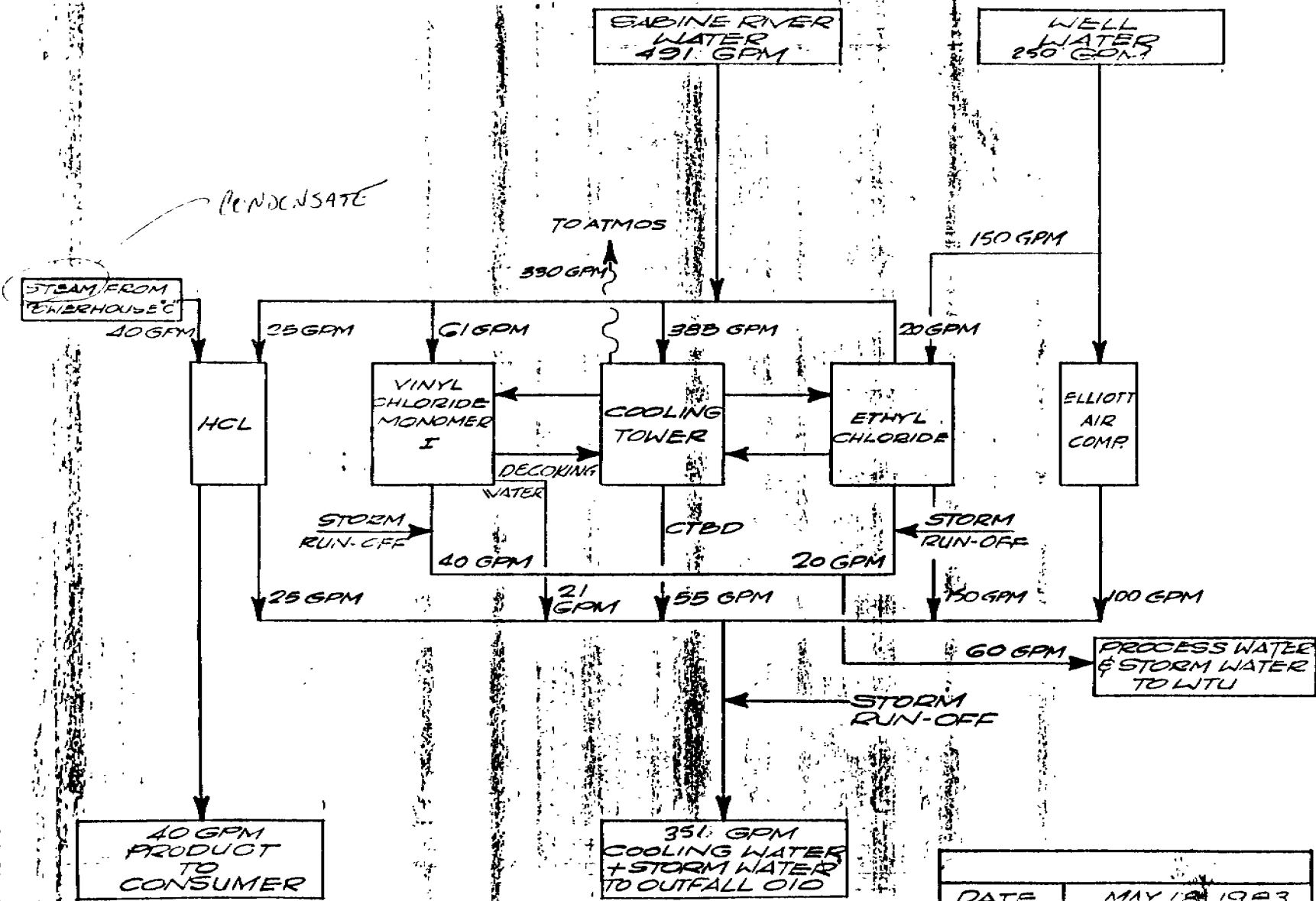
DETAIL SCHEMATIC-L.P. EDC/VDCM (SHEET 2 OF 8)



DATE MAY 12 1993

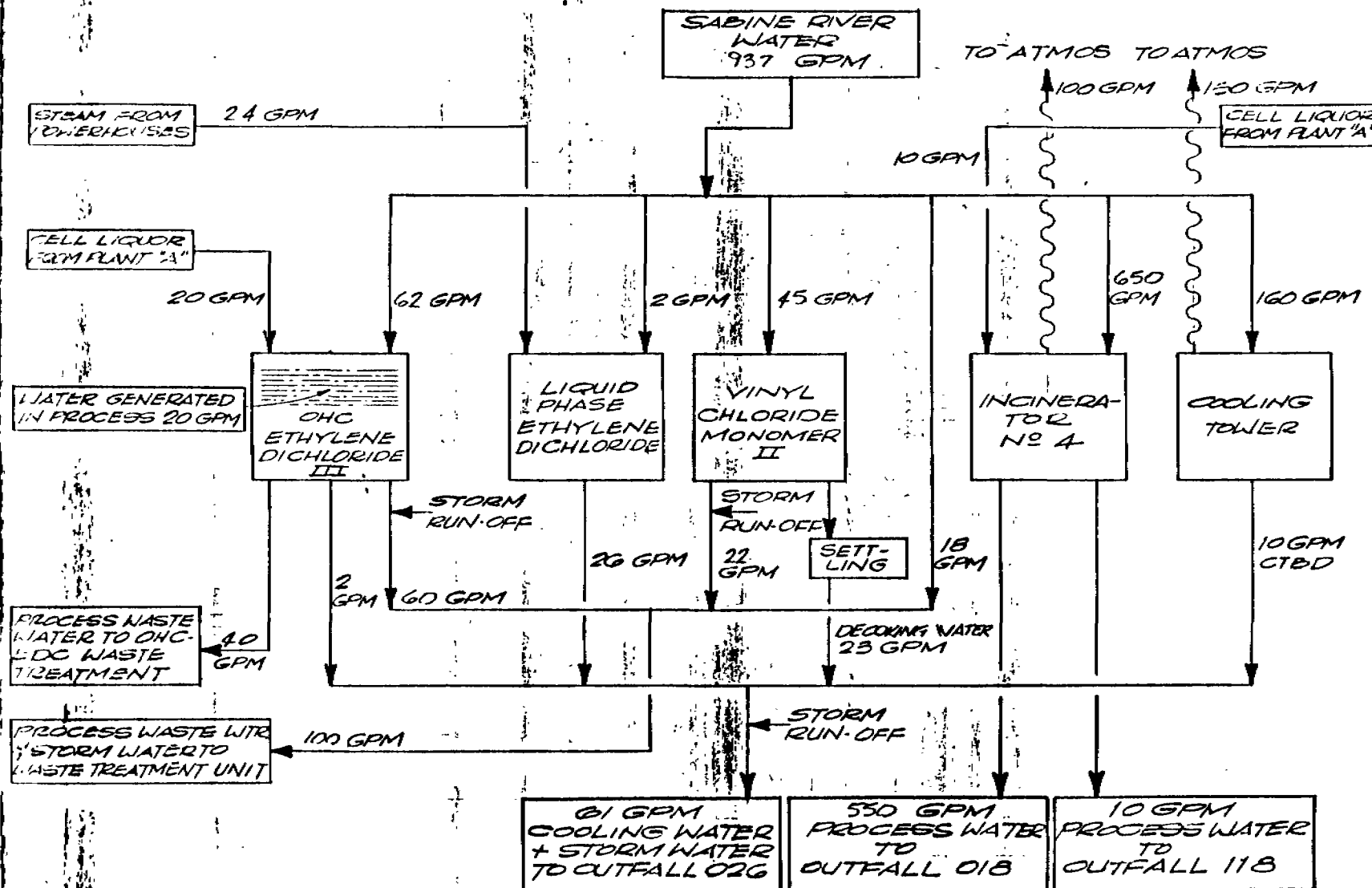
DETAIL SCHEMATIC - VCM/EC/HCL

(SHEET 3 OF 8)



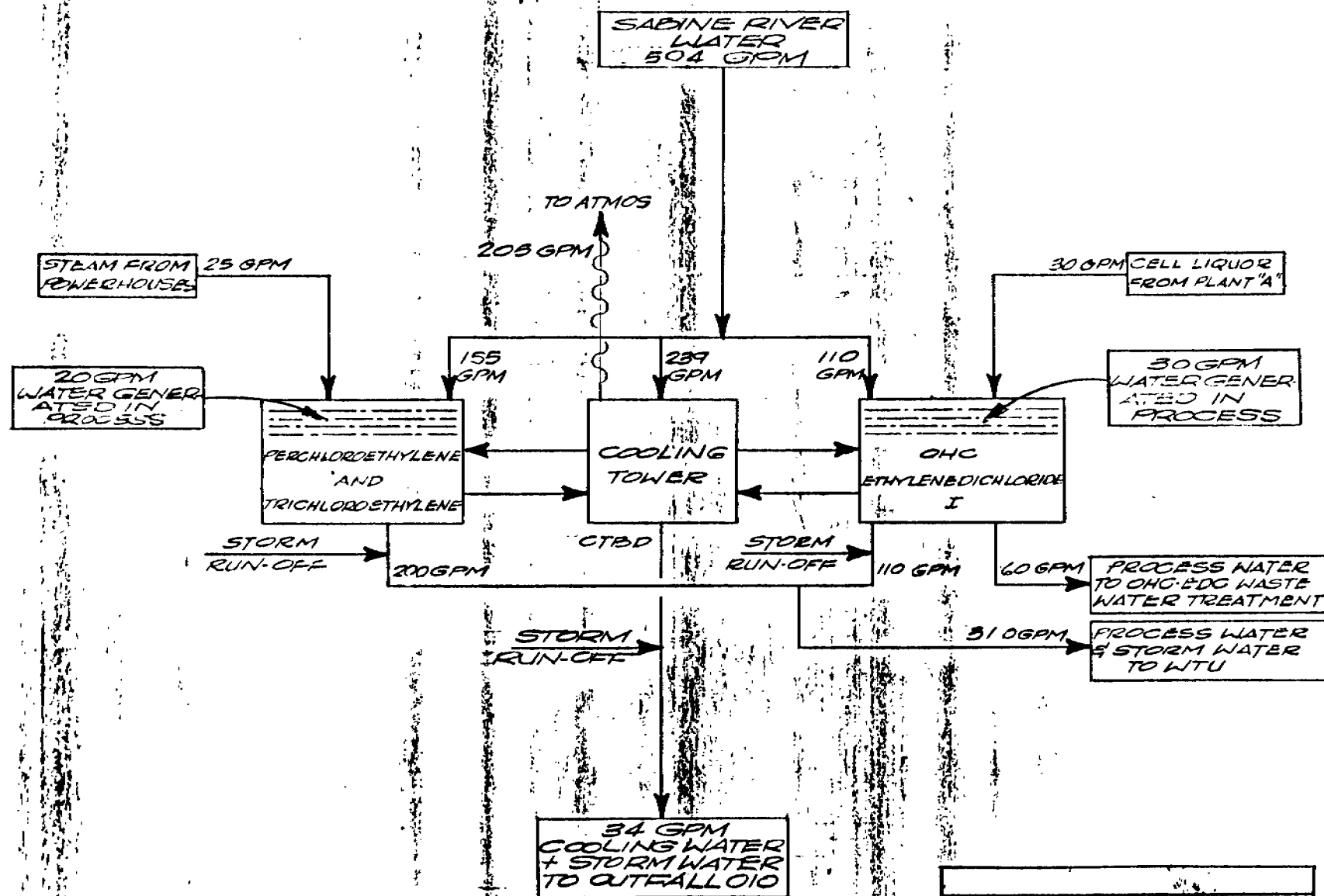
DATE	MAY 12 1983
------	-------------

(SHEET 4 OF 8)



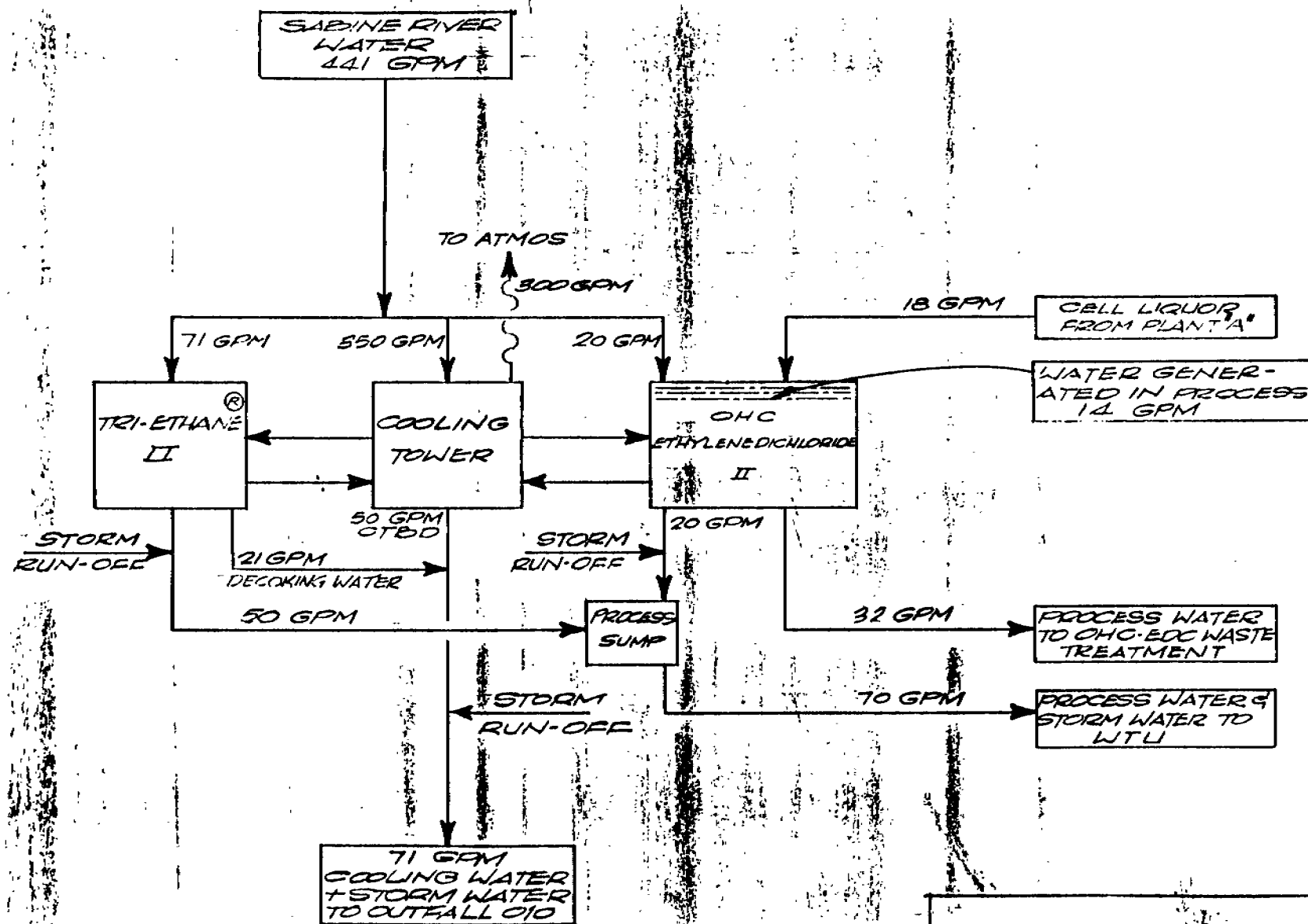
DETAIL SCHEMATIC-PER-TRI/OHC-EDC I

(SHEET 5 OF 8)



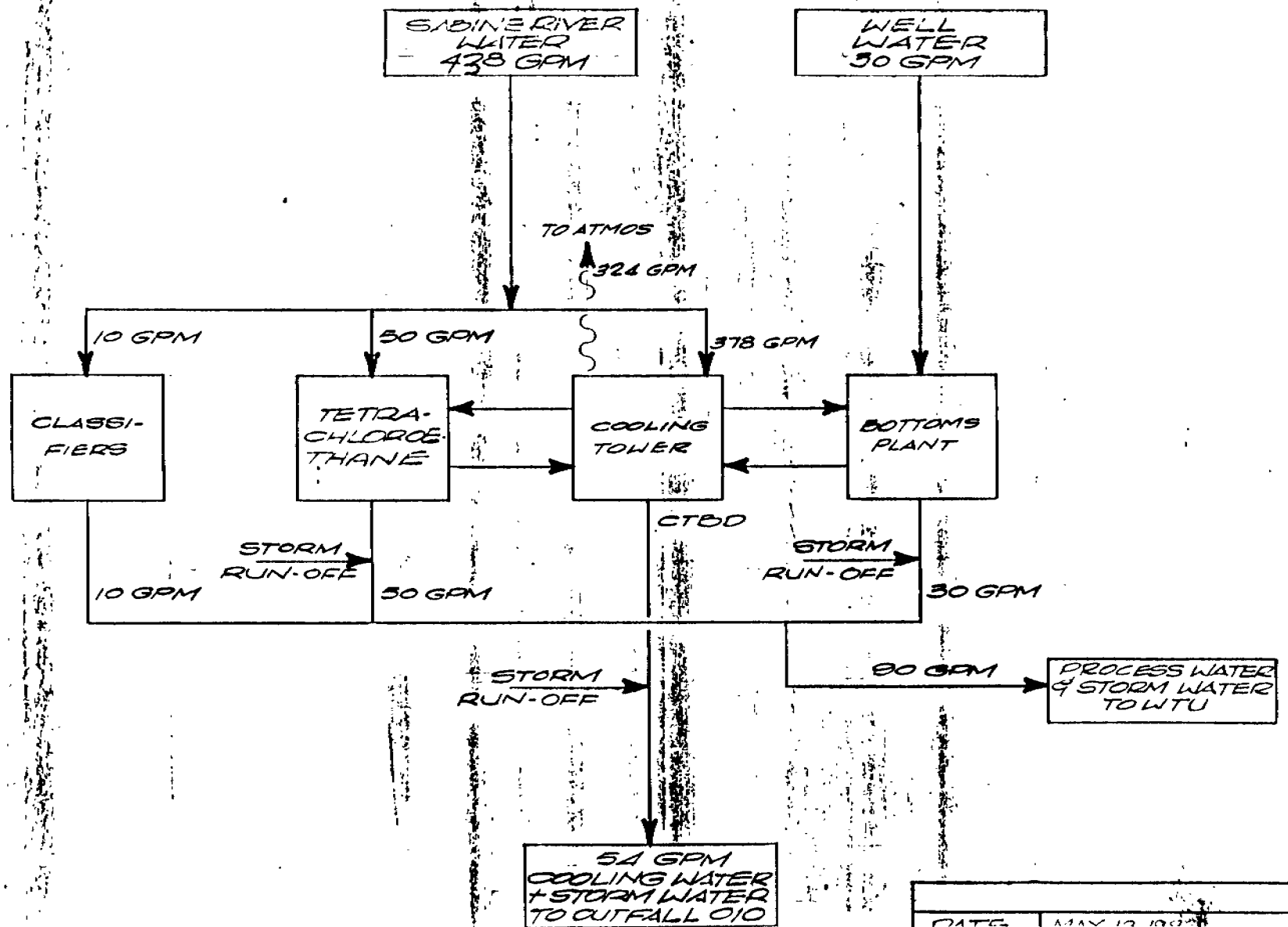
DATE	MAY 18, 1990
------	--------------

DETAIL SCHEMATIC-TRIETHANE II/OHC-EDC II (SHEET 6 OF 8)



DETAIL SCHEMATIC - TETRA/BOTTOMS

(SHEET 7 OF 8)

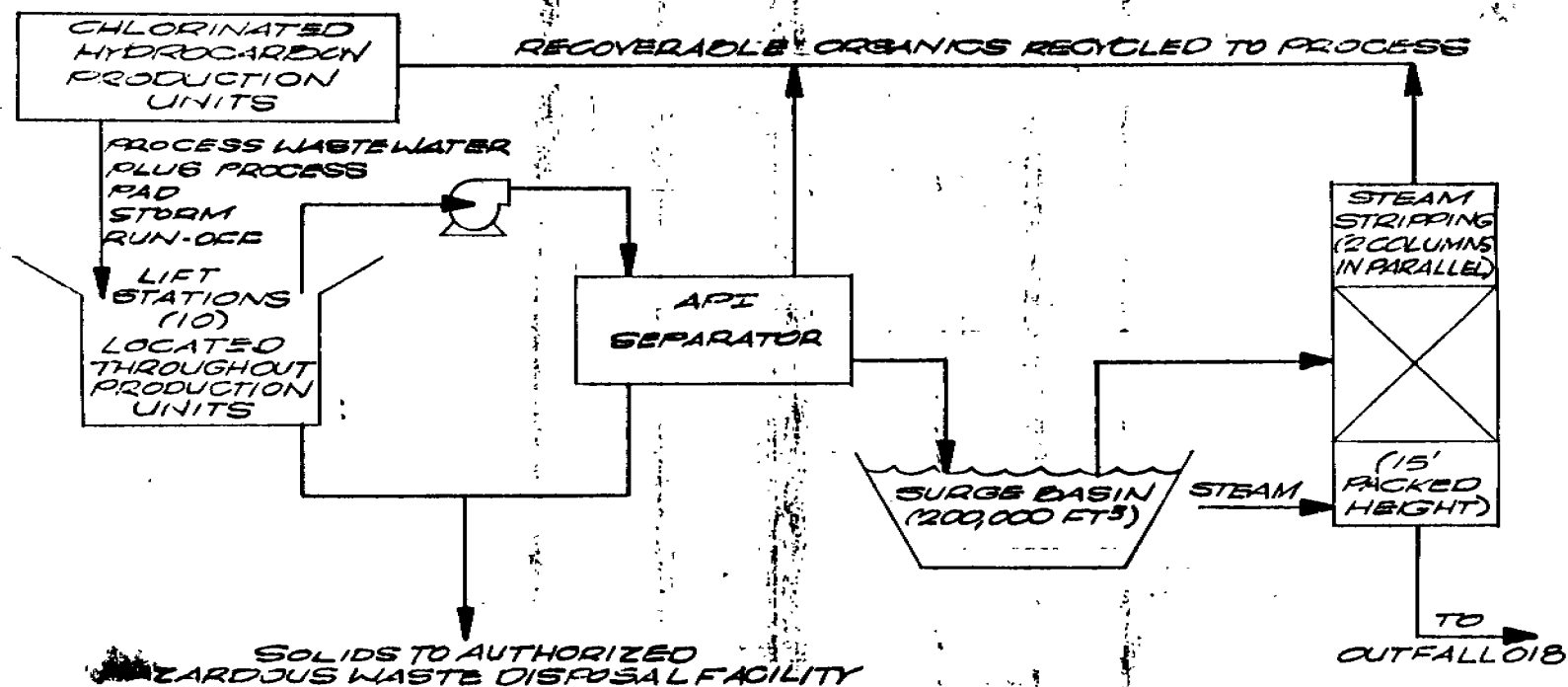


DATE MAY 12 1988

[illegible]

SL 078113

FIGURE 15
CHLORINATED HYDROCARBON WASTEWATER
COLLECTION AND TREATMENT SYSTEM
PLANT "B"



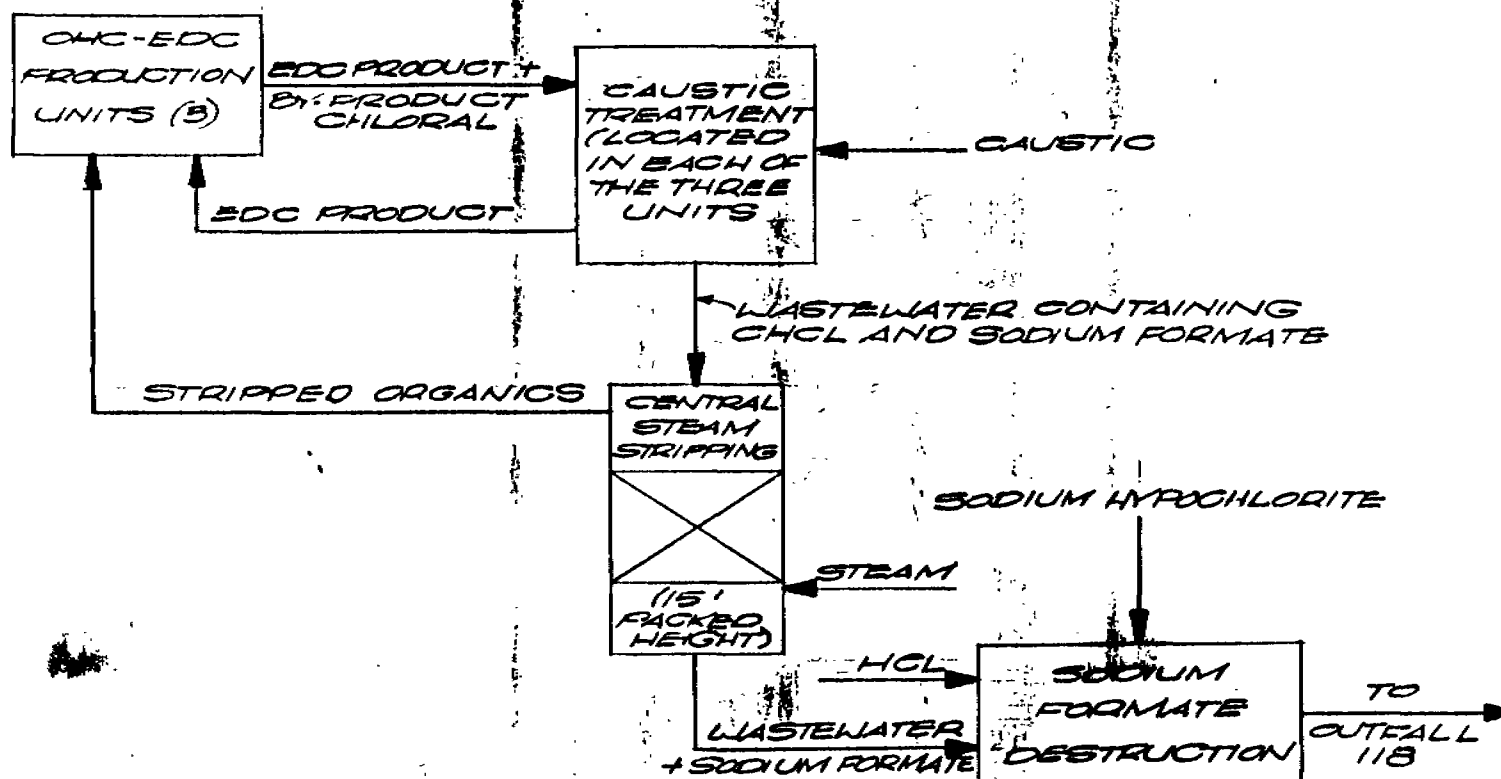
TREATMENT CHARACTERISTICS

SIZE: 1.6 MMGPD (MAXIMUM CAPACITY)

FLOWRATE: 1.0 MMGPD

RETENTION TIME: 24 HOURS

FIGURE 16
OMC-EDC WASTEWATER TREATMENT SYSTEM
PLANT "D"



TREATMENT CHARACTERISTICS

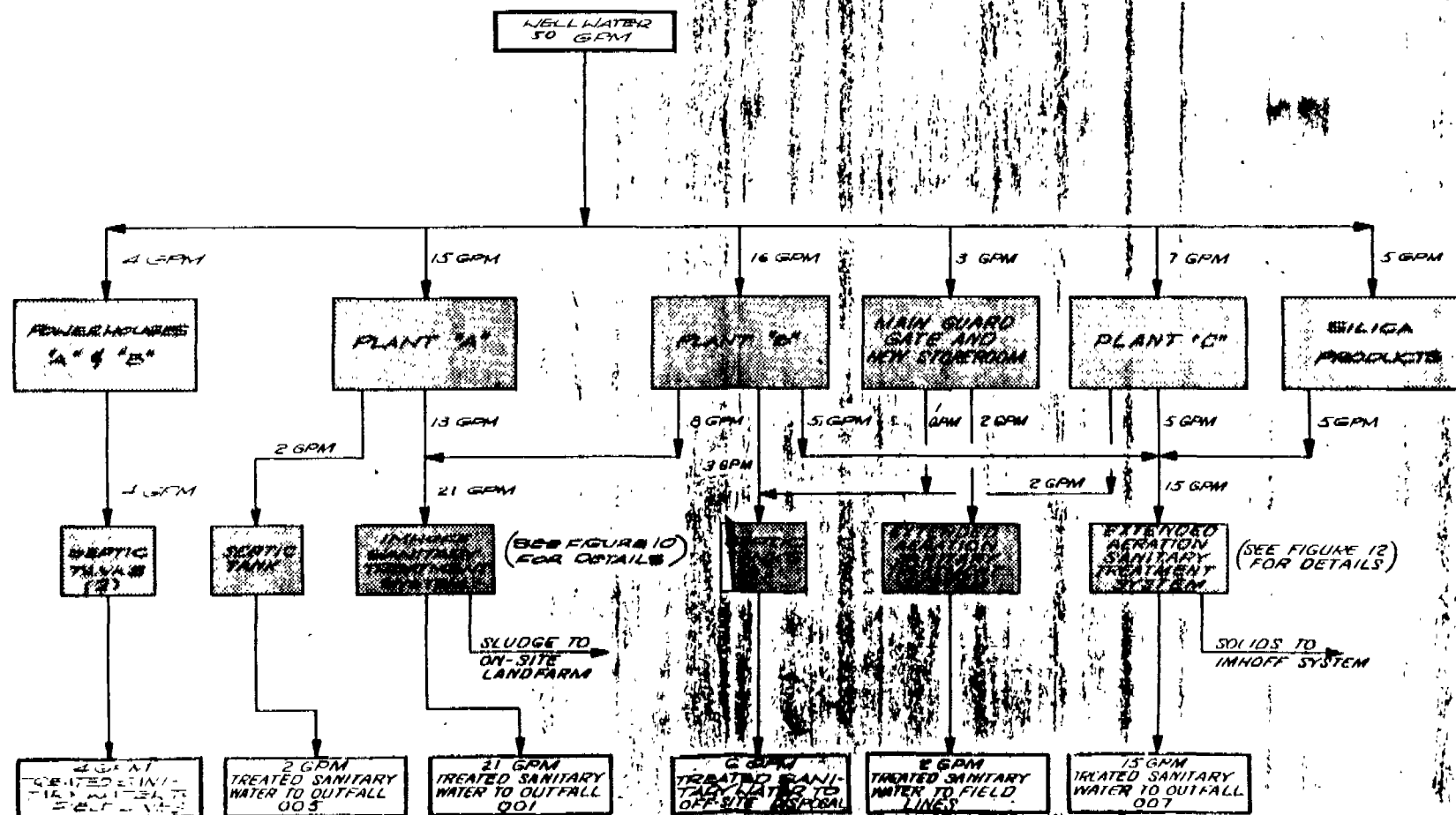
SIZE : 0.30 MMGPD (MAXIMUM THROUGHPUT)

FLOWRATE : 0.20 MMGPD

RETENTION TIME : 4 HOURS

DETAIL SCHEMATIC - SANITARY WASTEWATER

FIGURE 8



DATE APRIL 26, 1983

