Monsanto

FROM (NAME & LOCATION) F. D. Ramsey - Anniston Plant

DATE : September 4, 1970

CC: J. T. Bell
V. R. Haupt
J. C. Landwehr

SUBJECT : AROCLOR LOSSES TO THE ATMOSPHERE AT THE HCl SCRUBBER JET

REFERENCE :

TO : E. G. Wright

Operations show that HCl gas not converted to Muriatic Acid is by-passed to the scrubbing jets and sewered. Based on acid produced, sold, and by-passed for the months of April, May, and June, an average day resulted in 4500 #/hr. of HCl off-gas. Calculations based on vapor pressures, the temperatures that the HCl comes in contact with, and the ppm of Aroclor in acid - yields the following results:

0.6 lb./hr. or 14.4 lb./day of PCB in vapor form reaches the jets
2.1 lb./hr. or 50.5 lb./day of PCB in acid produced

Total = 64.9 lb./day of PCB passes the HCl knockout tank

Assuming 100% contact at the jets, 0.47 lb./hr. or 11.8#/day of PCB is sewered with the remaining 0.11 lb./hr. or 2.6 lb./day being lost to the atmosphere. Poor efficiency at the jets increases the loss of PCB to the atmosphere considerably.

Ricky

F. D. Ramsey

:kd
Attachment

DSW 376550

STLCOPCB4099074