

FROM R. T. Cheng

TO Mr. H. E. Runion
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(412) 362-1600 Ext. 2628

SUBJECT CGPC ENVIRONMENTAL PROBLEMS

IN REPLY
REFER TO RTC 77:17

DATE January 28, 1977

AIR POLLUTION

- I. Vinyl Chloride:
- A. CGPC does not have any emission control devices for air pollution prevention
 - B. Previous survey showed 0.5 ppm and 1.0 ppm VC concentration at Fabrication Plant due to air pollution (VC drifted from Monomer and Polymer Plant)
 - C. Recent ambient air study showed 0.12 ppm VC at fenceline downwind from emission sources (see memo: RTC 77:12) More ambient air surveys are recommended to assess the extent of air pollution problem
 - D. The U. S. Vinyl Chloride Emission Standard requires:
 - 1. Exhaust gas from each reactor not to exceed 10 ppm VC
 - 2. Reactor opening loss not to exceed 0.02 gm/Kg of PVC product
 - 3. No vent discharges except under emergency
 - 4. Exhaust gas from each stripper not to exceed 10 ppm VC
 - 5. Exhaust gas from Monomer recovery system not to exceed 10 ppm
- II. DOP Fumes:
- A. CGPC has been cited for DOP fume air pollution by local regulatory agency
 - B. Suggested a high energy Venturi scrubber for AP control
 - C. CGPC is going to install a self-designed wet spray system for AP control. CGPC estimated costs: \$7,500 X 2. I do not know whether their system will work.
- III. Chlorine Gas:
- A. Chlorine emissions from tail gas absorbing tower cause community AP complaints
 - B. Suggested caustic scrubber for AP control
 - C. CGPC will install a scrubber system for \$25,000. I think it will solve the problem.

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WATER POLLUTION

- A. CGPC's wastewaters only receive primary treatment (settling in a pond to remove suspended solids) prior to discharge to a river leading to sea
- B. There have been complaints of fish kills. (I can't remember clearly, but there may have been agriculture crop damage caused by CGPC's wastewater discharge)
- C. CGPC's wastewaters contain: vinyl chloride, mercury, DOP, salts, caustic soda, solvents, plating room wastes (cyanides, chromiums, etc.)
- D. CGPC needs a complete wastewater treatment plant
- E. However, Taiwan's regulation is not that tough yet. CGPC may delay wastewater treatment plant for another year or two.

NOISE POLLUTION : No problem

SOLID WASTES: I don't know the details, but appears to be no problem.

Bob

R. T. Cheng

RTC/lde
Attachment
cc: H. E. Runion c/o R. L. Gibson, M.D.
H. T. Miller
R. L. Gibson, M.D.

CUSAROSS 00004