Monsanto

FROM (NAME & LOCATION) E. E. Stewart, WGK

DATE : September 16, 1971

SUBJECT : JOB NO. 4329
MONTARS FOR INCINERATION
STATUS REVIEW

REFERENCE :

TO : Messrs. W. C. Engman
W. A. Krull
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cc: G. A. Hippe
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The addressees met 9/16/71 to review status of activities related to evaluation of alternates to handle Montars for incineration.

Alternates being evaluated:

1. Add a defoamer.

   Organic and plant research do not believe there is much chance of success. PR & D experiments with defoamers are in progress. Expect to complete evaluation by 9/17.

2. Settle waste Aroclor in storage, load tank truck and dry in old phenol molecular sieve located in BBT.

   Although calculations indicate this is technically feasible we will not consider further because regeneration would result in atmospheric pollution of about 17 # PCB per regeneration cycle. Would occur about once a week.

3. Use excess water in trailer so that boiling will not occur. Carbon treat water to remove PCB's before sewering.

   PR & D laboratory tests to be made. Expect to complete by 9/22. If lab tests indicate no foaming problems we must then determine how we could do in department. Visualize Montar transfer and mixing problems at the trailer.

4. Reduce boildown of Montars so that Montar can be cooled to a temperature which, when mixed with the waste Aroclor, will not cause boiling.

   Dilution of Montars with good Aroclor to lower thickening temperature cannot be justified. Would cost $1,000 per dilution. Annual cost of $25,000-$50,000. However, can design system to dilute Montars in pipe line blender using a waste Aroclor circulation system with heat exchanger. Cost $5,000-$10,000. Will have to do if other techniques cannot be developed.

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5. Use a pressurized trailer which will contain the foam.

   This is possible. Existing trailer is not satisfactory. An anhydrous ammonia trailer is available if needed. Must develop a technique to do and perhaps demonstrate in PR & D lab. Should know by 9/22.

6. Use dry fuel oil in place of waste Aroclor for quenching and transporting the Montars.

   Will not consider further because resulting mixture would be above flash point of fuel oil. Existing electrical classification in Aroclor precludes this method. Cannot justify corrective measures required.

Should complete evaluation and recommendation by 9/24/71.

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