



To K. L. SCHEEL
From F. W. SNOWDEN
Subject FIELD TRIP REPORT - HOUSTON, TX, COLUMBIA, MO,
CHICAGO, IL
Date AUGUST 25, 1981

3M

I. PURPOSE

1. Introduce the 3520 Monitor with Back-up Section to major oil companies in Gulf-South.
2. Establish field test on VCM at Conoco VCM plant in Lake Charles, LA.
3. Give presentation on Gas/Vapor Respirators and Monitors to National Association of Scientific Materials Manager's Convention.
4. Introduce #3520 to major corporate accounts in the Chicago area.

II. CONCLUSIONS

1. The introduction of the #3520 Monitor with Back-Up went well. Most of the oil companies would use them for complex mixtures and in some instances simply because of its high capacity.
2. Conoco will test 50 of the #3520's at their Vinyl Chloride Plant in Lake Charles.
3. Presentation to the National Association of Scientific Materials Manager's resulted in a request to write an article based on the presentation for their "Newsline" Publication.

3M 009420

4. The #3520 was well received by all accounts called on in the Chicago area.
5. The characteristics found to be most important were:
 - a) Foolproof manner in which the primary and secondary sections can be discerned without mixing,
 - b) The ability to separate the two sections immediately after sampling,
 - c) The ability to handle complex mixtures, in which displacement may occur and,
 - d) The increased capacity.

Conoco Chemicals, Lake Charles, LA
Tom Grumbles, Corp. I.H.
Steve Ashby, Plant Safety Engineer
Paul Fetzer, Chief Chemist

Paul Fetzer was impressed with the construction of the #3520 and with the ability to separate the sections immediately following the sampling period. He was also impressed with our breakthrough curves for the primary section of the 3520. He had run the same type experiment, i.e., spike, flush with air, then analyze - for the 3500. Our curves matched his closely enough to be quite believable. He is impressed by the work we have done, especially since it answers some questions that his work raised.

Paul has done comparisons of the 3500, Dupont ProTec, Gas Badge and the Real Monitor for vinyl chloride and ethylene dichloride mixtures. The results demonstrated that the #3500 and the ProTec gave nearly comparable results, Gas Badge was erratic (low or high) and the Real Monitor was generally high. He decided to use the #3500 because it was easier to use than the ProTec. However, Paul now believes that the results from the Real badge were more accurate than all the others principally due to capacity.

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Actual field testing of the 3520 may not be accomplished for one month, since the plant will be going through turnaround approximately July 21 into August. He may do some testing during the turnaround since high levels are expected.

Conoco has a VCM plant, a refinery, a chemical plant and an ethylene oxide plant (Calcasieu) all located in Lake Charles. For VCM they do 350-400 samples per month.

Tuesday, July 14, 1981
Shell Oil Company, West Hallow Research Facility
Howard Joki

I discussed the #3520 with Howard and one of his assistants. They were quite impressed, both from the standpoint of simplicity in sampling ((1) foolproof manner in which primary and secondary sections cannot be mixed, (2) ability to separate the two sections immediately after sampling), and analysis (like analyzing two 3500's). Both liked the increased capacity. We also discussed field validation of diffusional monitors. I mentioned to him that we were also interested in that area. Howard stated that he would talk with Todd Moorman on his return, he also asked that I talk to Corporate.

Shell Oil - Corporate Offices
Jerry Ransdell - Corporate Senior Industrial Hygienist
Lee Haring - Hygienist

Jerry liked the 3520 and wanted the Laboratory (Todd Moorman's Group) to evaluate as soon as possible. He expressed some displeasure that evaluations of the 3500 for each individual compound of interest to Shell was taking as long as it was.

Again, simplicity in sampling and analysis were the features important to both as well as increased capacity to handle complex mixtures. Seems that better communication is needed between the Corporate and the West Hallow Research groups. I will communicate to both that the other wants to move ahead.

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Exxon
Robert Diakun, Director Industrial Hygiene
Gerry Lautner, Industrial Hygienist

Bob and Gerry were very positive about the 3520, since many of the samples they collect are complex mixtures from the refining process or occur during the transporting of refined petroleum.

They wanted to obtain from us the sampling rates for gasoline, VM&P Naphtha and turpentine. They felt that results could be given in mg/m^3 and referred to heptane as the average. I mentioned the method we used for Stoddard solvent. I will send the paper and see if it meets their needs.

Dow Chemical, Freeport
Rich Doemer

I talked to Rich by telephone and described the 3520 to him, he liked the unit and very much wanted to see it. Paul Rogerson will show it to him as soon as possible.

A good field test possibility is the Dow plant in Plaquemine, LA.

Wednesday, July 15, 1981
The meeting of the National Association of Scientific Materials Managers, University of Missouri, Columbia, MO

This was the Seventh Annual Meeting of the Organization which is composed of stockroom managers, supervisors and purchasing agents from Universities and manufacturing companies throughout the country.

The presentation I gave concerned "Respirators, When and What", including respiratory protection and the use of diffusional monitors to determine protection needs. The talk was well received. I was asked to prepare an article based on the talk for their publication, Newsline which is edited by Gordon Hale of the University of Utah. I agreed that I would do so pending 3M approval.

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Thursday, July 16, 1981
Chicago, IL
NATLSCO
Joan Wronski

I was unable to see Joan but did talk with her by telephone. She has been recently using the ProTek with Back-Up because of its increased capacity. On other grounds she prefers the 3500. I described the 3520 to her and she was impressed, particularly by being able to separate the two sections immediately after sampling and being able to use the same analysis procedure for both front and back sections. NATLSCO buys monitors to send back to customers whatever they receive for analysis, consequently, her influence goes beyond purchase. She wanted to have the information since as soon as we sell it her customers would like to know about it. Jim Tumpane will follow up with a call next week.

Nalco Chemical
Brian Evert - Industrial Hygienist

Brian was more interested in the #3750 Formaldehyde Monitor than in the #3520. They have processes in which the levels of formaldehyde may be relatively high and want an easier means (than the impinger) of keeping track. Brian is interested in testing the 3750.

Vacudyne Altair
Russell Skocypec, General Manager & Manager of Technical Svc.
Richard Matthews, Sales Manager
D.Pat Adams, Production Supervisor

The call was made with Jim Rogers, 3M Sales Representative.

Vacudyne manufactures about 50 large sterilizer units per year, ranging from 1 to 20 pallet size. They sell to pharmaceutical and other manufacturing companies but not to hospitals. They also do contract sterilization in Atlanta and Memphis in 1500 ft³ units. Pat Adams from their Memphis facility (Sterilization Services of Tennessee, Inc.) happened to be present.

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They are very interested in the 3550 and were willing to discuss several plans of use and/or sale. If we decide to field test the 3550 again this would provide a good opportunity.

Friday, July 17
Standard Oil of Indiana
Jerry Sidlecky, Head Industrial Hygiene Services
Ken Dalling, Manager Industrial Hygiene Services

The call was made with Jim Tumpane 3M Sales Representative.

The 3520 was presented to the Industrial Hygiene staff. They see its use as extending that of the 3500 (which they now use). They feel development of a sulfur dioxide monitor would be of help to them.

Borg-Warner Corp.
Bill Stiens, Manager Loss Control

The call was made with Jim Tumpane, 3M Sales Representative.

Bill was enthused about the 3520 and felt it would rid the loss control agents of calibration, he also liked the increased capacity for unknown concentrations of vapors. He purchased a box for a trial. He was also interested in the CO Monitor and the 3500.

Frauh

FWS/spb

dc: All Managers, Supervisors and Specialists
R. Haggerty
M. Merino

3M 009425



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3M 010883

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