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Date 5 March 1974To SEE DISTRIBUTION Subject VCM STATUS - WEEK ENDING MARCH 2From R. W. McGinnis

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SUMMARY

1. VCM levels for this week continued at about the same average level as observed and reported last week.
2. Personnel sampling shows that our actual VCM exposure is substantially less than 50 ppm TWA. An average of 17 ppm VCM and a maximum of 37 ppm was observed in nine samples.
3. An approximate correlation is observed between average VCM ppm in the air and the TWA determined by a personnel monitor.
4. The three output ventilation fans on the third floor north wall were activated Saturday afternoon (2 March 1974). The influence of these fans will be reported next week after a sufficient evaluation period is present.

DISCUSSION

The most significant news of this week is the low levels associated with our personnel monitors. We are presently meeting the State of Kentucky's 50 ppm TWA requirement for VCM. Nine samples gathered over slightly more than one week show that an average of 17 ppm TWA was present with a maximum of 37 ppm (Table I).

VCM in the reactor building stayed about the same level this week as observed last week, reflecting an interim period between completion of abatement projects. The influence of the new ventilation fans mounted on the north wall of the third floor will be reported in next week's report.

The personnel monitor samples are taken with Bendix C115 monitors. Our QC laboratory collects and analyzes the samples, using the Dow procedure as confirmed by Mr. M. H. Stermon's chemists. The reproducibility appears to be good, within $\pm 1\%$ in the initial testing of the procedure.

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Variations in VCM are illustrated in Figures 1 and 2. Figure 1 compares VCM levels at the operator's desk for the third floor with the measured TWA of the third floor operator. Likewise, Figure 2 shows how VCM levels at the stripper operator's desk compare with the measured TWA. A rough correlation is obtained between the TWA's measured and the level of VCM in the operator's general work area (Figure 3).

Table II lists the individual levels of VCM of the past week.

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R. W. McGinnis

RWM/scs

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