

INTER-OFFICE MEMO **TENNECO CHEMICALS, INC.**

TO E. Schwartz AT Piscataway DATE October 1, 1974
FROM W.C. Champion AT Burlington COPY TO F.W. Kanzler
SUBJECT Data Aquisition System R.A. Lojewski
for VCM Monitoring J.W. Poarch
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✓ File

Based upon the anticipated OSHA requirements for monitoring and reporting VCM exposure data, the following items should be considered necessary (or desirable) in the computation system:

1. Continuous direct aquisition and storage of the GC output signals (analog) from all instruments. This would require either two computers (Flemington and Burlington) or a leased telephone line.
2. The capability to interrupt data input at any time from any GC for calibration checking or service without a requirement to reprogram. Input from all other GC's should continue without interruption.
3. Ability to retrieve, in a report format, data for all monitoring points: mean, range and standard deviation. This should be available for a set period (such as once-per-shift) or on a demand basis for other periods.
4. Ability to report data for any single monitoring point on demand for a selected period.
5. Computation, using the mean for each data point, of time-weighted personal exposure averages on a per-shift basis. This should be available as a formatted report.
6. Ability to print out all incidences of excursions over a pre-selected (and changeable) upper limit on a daily basis.
7. All reporting available on a weekly and/or monthly basis.
8. Program documentation, software and technical assistance available to Tenneco personnel.

Long-term data storage facilities are not necessary, since we will have the periodic reports and the GC charts available. The system should be sized, however, to allow for one month's storage and computation (14 instruments x 10 points x 3 cycles/hour x 24 hours/day x 30 days/month = 302,400 data points).


W.C. Champion

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