



Interoffice Communication

To J. A. DeBernardi
From P. L. Fetzer
Date February 5, 1981
Subject Deregulation of Regulated Area #4

The fixed point monitor data for Regulated Area #4 were examined for November and December. The summarized data is shown below.

Regulate Area #4 VCM Loading Pumps
Point #2 Off Site Monitor

	<u>Aug.</u>	<u>Sept.</u>	<u>Nov.</u>	<u>Dec.</u>
ppm VCM Monthly Avg. all Valid Values	.68	1.04	1.34	1.11
No. Days Over 1 ppm	3	10	10	10
Avg. of Daily Values Over 1 ppm	2.68	1.88	2.15	1.78
No. of Hourly Avg. Over 1 ppm	83	171	154	183
% Time Hourly Avg. Over 1 ppm	11.2	25.4	31.3	30.2
No. of Hourly Samples Over 5 ppm	14	26	12	28
% Time Hourly Avg. Over 5 ppm	1.88	3.87	1.98	5.69

The data for August and September were taken from my earlier letter dated November 19, 1980. The data indicates the monthly average exceeded one ppm for three of the four months. If it is assumed the hourly average also represents the 15 minute average, the data shows an individual would be exposed to over 5 ppm VCM between 1.9 and 5.7 percent of the time.

Since the pumper-loaders spend less than ten minutes within the regulated area taking a large sphere sample, it may be possible to deregulate this area even though this area has a high percentage of hourly averages over 1 ppm.

Twenty-two personnel dosimeter testings were conducted for the pumper loaders during these four months, only one exceeded one ppm VCM. This strongly supports the conclusion that the pumper-loaders spend very little time in the regulated area.

Based on the low personnel exposure record and the low percentage of exposure over 5 ppm VCM, it is recommended that Regulated Area #4 be deregulated.

P. L. Fetzer
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