HSM-94002
[HSM no. assigned after original issuance of letter]

1020 N Street, Room 200
Sacramento, California 95814-5624

December 27, 1994

Dane Starling
Anheuser-Busch, Inc.
1485 Response Road, Suite 108
Sacramento, CA 95815

Dear Mr. Starling:

In response to your recent telephone call, I am forwarding the results of the methyl bromide monitoring conducted by Department of Pesticide Regulation (DPR) staff at the Anheuser-Busch Brewery in Fairfield. The monitoring was designed to gather data on potential worker exposure associated with the methyl bromide space-type fumigation at the Fairfield site on November 26, 1992, and during the aeration on the following day.

At the time of this monitoring project, the Department was searching for data to characterize worker exposure and offsite levels associated with various types of methyl bromide commodity fumigation treatments. The space-type fumigation at your site was unique and gave us a rare opportunity to observe and quantify then current workpractices. Our observations and the monitoring results obtained during the monitoring activities at your site were useful in developing recommendations for additional mitigation measures for this type of fumigation. These measures are included in the new commodity permit conditions for methyl bromide due to be implemented by the County Agricultural Commissioners during 1995.

The results of the monitoring are tabulated in the two tables on the enclosed page. The first table contains the data obtained from the monitoring during the application phase of the fumigation. During the application phase, two fumigation workers wearing respiratory equipment (SCBA) made repeated entry into the grain storage and processing area to open pre-placed small methyl bromide canisters and large cylinders. The canisters were used to treat the inside of numerous enclosed pipes and other equipment used for transferring the grain. The large cylinders were used to treat the enclosed air spaces surrounding the equipment. After the fumigant was introduced, the fumigated area was left undisturbed for twenty-four hours. The second table contains the data obtained from the monitoring during the aeration activities on the second day. During this phase, two

fumigation workers wearing SCBA made two entries into the space to initiate the aeration. Each table lists the activity monitored, the time the monitoring samplers operated, the concentration of methyl bromide during the time period monitored, and comments pertinent to the activity being monitored.

Please contact me if I can be of further assistance.

Sincerely,

[original signed by Dennis B. Gibbons]

Dennis B. Gibbons, CIH
Senior Industrial Hygienist
(916) 445-4270

cc: John Donahue
Randy Segawa

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Department of Pesticide Regulation
Monitoring of Methyl Bromide Space Fumigation
Anheuser-Busch Brewery

Application - November 26, 1992

Activity (worker/area)	Monitored Time (minutes)	Methyl Bromide Concentration (ppm)	Comments
Applicator 1, Sample 1	14	298	Entry with SCBA into space to begin application - opening 1.5 lb. canisters - top floor area - exit to truck area.
Applicator 1, Sample 2	36	3,624	Reentry with SCBA to continue application - opening 1.5 lb. canisters - middle floors - exit to truck area.
Applicator 1, Sample 3	11	3,871	Reentry with SCBA to continue application - opening 1.5 lb. canisters - remaining floors - exit to truck area.
Applicator 1, Sample 4	5	6,117	Reentry with SCBA to finish application - opening 8 large cylinders, top floor to bottom floor - exit to truck area.
Area Sample	1530	635	Door to buffer zone - overnight sample.

Aeration - November 26, 1992

Activity (worker/area)	Monitored Time (minutes)	Methyl Bromide Concentration (ppm)	Comments
Aerator 1, Sample 1	24	7,016	Start of Aeration - entry with SCBA into space to open various vents/turn on ventilation equipment.
Aerator 2, Sample 1	19	9,546	Entry with SCBA into space to assist Aerator 1
Aerator 1, Sample 2	20	169	Reentry with SCBA to complete aeration - replace lids on grain bins
Aerator 2, Sample 2	6	11.4	Reentry with SCBA to assist Aerator 1
Area Sample	70	0.26	Just to left of entrance door
Area Sample	55	0.15	On Applicator’s truck

Please note all worker measurements were obtained while the workers wore Self-Contained Breathing Apparatus (SCBA). Consequently, the concentrations listed above only show potential exposure and not actual exposure.