PLAINTIFF'S EXHIBIT FD-284

File A-14

Inter Office

Personnel and Organization Staff

September 7, 1978

Mr. W. M. Quarles
Division Safety Engineer
General Services

cc: J. A. Keller
G. B. LaBo
R. D. Peterson, M. D.
Tim Zimcosky

Subject: Asbestos Use and Required Employe Medical Monitoring

On August 31, 1978, non-production asbestos usage in the Research and Engineering Center was reviewed with Mr. Tim Zimcosky, Safety Engineer. Areas included in this review were Scientific Research Laboratories (brake lining labs), [illegible]. This review was made to determine the need for employe monitoring.

Operations which need to be monitored to determine if employe exposures to airborne asbestos fibers exists are as follows:

1. Mechanics performing brake lining work: (Transportation Services, Transportation Garage, Service Research Center, Truck Garage, Michigan and Arizona Proving Grounds, and other fleet garages such as WHQ and NAAO).

2. Present and cold control engineers performing brake lining grinding: (Experimental Vehicles).

3. Brake lining scientists and technicians: (Scientific Research Laboratories).

Since these operations are jobs which occur on a random basis, this department will need to be notified when they will be performed. Please inform the appropriate department heads of this request, and that notification be at least one week prior to performance of these jobs so that preparation can be made for sampling.

David S. Carruthers
Industrial Hygienist
Industrial Hygiene & Toxicology Dept.

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BRAKE LINING DUST REMOVAL SURVEY

Contact	Comments
Mel Buggins Performance Test Unit Supervisor	Really don't clean that much, but we do some air blow-off.
Lou Knight Senior Test Engineer	No more air blow-off at VEG. We purchased a special vacuum arrangement for attachment to vacuum plate. Disc brakes do not develop dust.
Bob Harmount Test Engineer	Use vacuum type removal so we don't blow asbestos dust in air. Not good to blow out dust. We sometime brush out.
John Dobbyn Maintenance Supervisor at MPG	We sometimes tap it (the dust) out - then use low air blow-off. But we generally brush it out because the dust is bad. We could easily live without air blow-off if we had vacuum means.
Don Melow Supervisor Heavy Truck - VEG	We use vacuum cleaner almost all the time. We sometimes wipe or brush off dust. We use very little blow-off. We could do without it easily.
John Milke Supervisor - VEG	Not too much maintenance on brakes. Because vacuum. Very little blow-off. We could do without blow-off altogether.
Amrico Ray Supervisor - VEG	We vacuum out when we do it.
John Finnerty Supervisor - VEG	We vacuum out when we do it.
John Bockadam Supervisor - VEG	Usually use vacuum, but sometimes use air blow-off. No problem doing without blow-off.
Ken Schep Administration Garage	We usually blow it out with air gun. Don't have too much brake work in this regard. We can easily live without blow-off. We can brush, wipe, vacuum.
Ray Nev Brake Test Engineer	We do not do that type work, but it would be best to vacuum.

GENERAL CONCLUSIONS

1. Vacuuming is the superior and proven method that is the safest.
2. None of those contacted felt that air blow-off is a necessity. All realized there is some degree of health ramifications involved. All agreed they could perform necessary brake maintenance without air blow-off method.

R. M. Quarles