

ASBESTOS HAZARD WARNING LABELS

TIMINGACTION ITEM

- Effective Immediately
1. Hazard warning statements must appear on containers of all raw materials, mixtures, products and scrap/debris/waste containing asbestos. Hazard warning statements must use the following specific language:

Danger Contains Asbestos Fibers Avoid Creating Dust Cancer and Lung Disease Hazard (Warning Statement per OSHA Requirement 29 CFR 1910.1001)

Labels or indelible stamps with the hazard warning statement may be used.

Examples of containers which must carry the asbestos hazard warning statement include: exterior of product shipping boxes, exterior of brake kit boxes, asbestos and asbestos mixture bags, bins, hoppers, etc., pelletizers and dust collectors, and containers of asbestos-containing waste materials.

D3EPTR.01/1/1

HWBUI0011722

DESIGNATION OF REGULATED AREAS

DEFINITIONS:

An Asbestos-involved area is defined as any department, or where more appropriate, any geographically distinct area within a facility where asbestos or asbestos-containing products are handled or produced. A Regulated Area is that portion of an asbestos-involved area where airborne asbestos levels equal or exceed the OSHA permissible limit of 0.2 f/cc.

TIMING	ACTION ITEM
Effective Immediately <i>John Code</i> <i>John Code</i>	1. Where <u>existing</u> air sampling data indicates that asbestos levels equal or exceed the permissible limit of 0.2 f/cc, associated operations must be designated as regulated areas. As new air sampling is performed (see "Asbestos Monitoring" section), the list of plant regulated areas must be reviewed and revised after approval of Automotive Sector HS & ES Staff. Based on existing asbestos monitoring data, the following locations have regulated areas: FMD-Troy, FMD-Cleveland, BCBOD-St. Joseph.
Effective Immediately	2. Each asbestos-involved area and regulated area must be clearly demarcated by one of the following methods: floor stripes, rope/chain/barricade, partitions or other suitable method.
Effective Immediately	3. Eating, smoking, drinking, chewing gun or tobacco and application of cosmetics must be prohibited in all regulated areas and in all other asbestos-involved areas.
Effective Immediately	4. Entrances to regulated areas must be posted with the following hazard warning sign:
	Danger Asbestos Cancer and Lung Disease Hazard Authorized Personnel Only Respirators and Protective Clothing Are Required in This Area (Warning Statement per OSHA Requirement 29 CFR 1910.1001)
Effective Immediately	5. Access to regulated areas and other asbestos-involved areas must be strictly limited to authorized personnel only. <u>All</u> individuals entering regulated areas must comply with respirator and protective clothing requirements.

D3EPT.01/i/2

RESPIRATORS

TIMING	ACTION ITEM
Effective Immediately	1. Disposable dust respirators (e.g., 3M Model 8710, 9910 or equivalent) or respirators equipped with high efficiency filters must be used by all personnel entering regulated areas.
By November 17, 1986	2. Only respirators equipped with high efficiency filters may be used in regulated areas. (By definition, this excludes disposable respirators).
By November 17, 1986	3. A written Respiratory Protection Program must be developed and implemented which addresses selection, use, employee training considerations, storage and maintenance of high efficiency filter respirators. A Model Respiratory Protection Program for asbestos-involved operations appears as Attachment A. A plant specific program must be developed from this model which addresses respirators (types and model numbers) actually used within each regulated area.
By November 17, 1986 or Upon Respirator Issue	4. Prior to the issuance of respirators, a written medical approval from a qualified physician must be obtained for each user. Purpose of this program is to ensure that the use of a respirator will not place undue stress on the individual's cardiovascular/respiratory systems or complicate any existing medical conditions. This approval may be based on annual medical screening tests (e.g., pulmonary function tests and chest x-rays) and other exams as determined by the local physician or the Sector Physician.

D3EPT-01/1/3

PROTECTIVE CLOTHING/CHANGE ROOMS

TIMING

ACTION ITEM

- | | |
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| Effective Immediately | <p>1. The following protective work clothing will be required for all personnel entering regulated areas:</p> <p>2250000 - full body coveralls (disposable or launderable)</p> <p>- disposable head covers</p> <p>- disposable foot covers</p> |
| Effective Immediately | <p>2. As a minimum, a change room must be provided and equipped with double lockers for street clothes and protective clothing. (Double change rooms separated by a shower facility may be required as early as July 20, 1987. In the interim, a temporary single change room is adequate.) Temporary change rooms may include any of the following: existing locker room/rest room, other designated room within the plant, mobile trailer adjacent to plant, or similar method. Temporary change rooms should also be located in the vicinity of washing facilities, wherever feasible.</p> |
| Effective Immediately | <p>3. Before entering a regulated area, personnel must follow the following protocol:</p> <ul style="list-style-type: none"> o Enter change room o Remove street clothes and place in locker #1 o Put on protective coveralls, head cover and foot covers from locker #2 o Enter regulated area |
| Effective Immediately | <p>4. When leaving the regulated area at the end of the shift or for lunch/rest breaks, personnel must first return to the change room and exchange protective equipment for street clothes, making certain to place protective equipment in the appropriate locker.</p> |
| Effective Immediately | <p>5. Clean protective clothing must be provided at least weekly.</p> |

D3EPT.01/1/4

PROTECTIVE CLOTHING/CHANGE ROOMS
(Continued)

TIMING	ACTION ITEM
Effective Immediately	6. Contaminated protective clothing for disposal or laundering will be deposited in impervious, closed containers having appropriate asbestos warning labels (see "Asbestos Hazard Warning Labels" section). These containers will be placed within the change room area.
Effective Immediately	7. Should launderable protective equipment be utilized, the outside laundry will be advised in writing as to the potential presence of asbestos fibers on the used protective clothing.

D3EPT.01/1/5

HOUSEKEEPING

TIMING	ACTION ITEM
Effective Immediately	1. Per OSHA regulation, <u>all</u> surfaces must be maintained as free as practicable of accumulations of asbestos-containing dusts. Housekeeping program requirements for asbestos-involved operations include the following: A. Periodically during and at the end of <u>each work shift</u>, each asbestos-involved work station must be cleaned with wet methods or a vacuum equipped with a high efficiency particulate (HEPA) filter (e.g., Nilfisk HEPA vacuum or equivalent). All work station surfaces must be cleaned including the floor, ventilation hood openings/slots, work tables, conveyors, machine surfaces and associated equipment. B. To reduce dispersion of asbestos-containing dusts into other work areas, friction material products must be hand vacuumed or cleaned by wet methods immediately following those operations where dust accumulates on the product surfaces. Example operations include but are not limited to dry grinding, slitting, riveting, drilling, sawing, etc. C. On a <u>weekly</u> basis, all readily accessible surfaces (below 6 feet in height) must be damp wiped or vacuumed with a high efficiency filter vacuum. These surfaces include desks, cabinets, walls, ventilation ducts, pelletizers, dust collectors, etc. within all asbestos-involved work areas. D. For those locations having asbestos levels above the permissible limit of 0.2 f/cc, all surfaces throughout the facility over 6 feet in height must be high efficiency vacuumed and/or wet wiped. Surfaces include ceilings, duct work, pipes, machines, equipment, walls, dust collectors, etc. The frequency of this cleaning will be as follows:

D3EPTR.01/1/6

HOUSEKEEPING
(Continued)

TIMING	ACTION ITEM						
Effective Immediately	D. (continued) <table border="1" data-bbox="404 388 602 1293"> <thead> <tr> <th data-bbox="404 1185 437 1293">Area</th><th data-bbox="404 388 437 689">Cleaning Frequency</th></tr> </thead> <tbody> <tr> <td data-bbox="470 905 503 1293">o manufacturing areas</td><td data-bbox="470 539 503 689">quarterly</td></tr> <tr> <td data-bbox="536 474 602 1293">o raw materials, warehouse and shipping</td><td data-bbox="536 474 569 689">semi-annually</td></tr> </tbody> </table> E. Dry sweeping, dry mopping and/or cleaning with compressed air are strictly prohibited in all asbestos-involved areas.	Area	Cleaning Frequency	o manufacturing areas	quarterly	o raw materials, warehouse and shipping	semi-annually
Area	Cleaning Frequency						
o manufacturing areas	quarterly						
o raw materials, warehouse and shipping	semi-annually						

D3EPT01/1/7

ASBESTOS MONITORING

TIMING	ACTION ITEM
Effective Immediately	1. All asbestos air samples must be collected according to the recommended procedure in Attachment B. Significant changes include a reduced sampling flow rate, use of a 25mm collection filter equipped with a 50mm cowl extension and extended sampling interval.
Effective Immediately	2. To comply with quality control requirements, all asbestos samples will be submitted to a central laboratory for analysis: MDS Laboratories 4418 Pottsville Pike Reading, Pennsylvania 19605 (215) 921-9191 Attn: Mr. Fred Usbeck, Laboratory Director
Effective Immediately	MDS Laboratories provides comprehensive occupational health and clinical laboratory services and is fully accredited by the Center for Disease Control and the American Industrial Hygiene Association. Cost per sample is \$17.00. This cost represents a volume discount and includes provision of air sampling filter cassettes, express mail costs for sample shipments, 24-48 hour turnaround time (where required) and results report with statistical confidence limits. A purchase order should be submitted with sample shipments.
Effective Immediately	3. Employees or their designated representatives must be afforded the opportunity to observe asbestos monitoring procedures.
Effective Immediately	4. Asbestos sampling results must be communicated in writing to affected employees within 15 days of receiving results. Where the permissible exposure limit of 0.2 f/cc has been exceeded, a statement concerning corrective action taken or planned must also be communicated.

D3EPT.01/1/8

ASBESTOS MONITORING
(Continued)

TIMING	ACTION ITEM
Effective 3rd Qtr. 1986	5. <u>Each day shift production operation where asbestos-containing materials are handled or encountered on a routine basis must be sampled at least quarterly.</u> Where sampling results consistently indicate that asbestos levels are at or below the action level of 0.1 f/cc, sampling frequency may be reduced to semi-annually. Where the production operation is conducted on other than day shift, sampling will initially be completed each shift to insure that there are no discrepancies in results between shifts.

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