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Johns-Manville Sales Corporation

Health, Safety & Environment
Central Area Laboratory

Waukegan Plant
Waukegan, Illinois 60085

February 2, 1981

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Subject: 1980 SAFETY AND HOUSEKEEPING INSPECTION
WAUKEGAN BUILDING MATERIALS DIVISION
NOVEMBER 4 - DECEMBER 16, 1980

A Safety and Housekeeping Inspection was performed in conjunction with the annual Industrial Hygiene Survey of November 4 - December 16, 1980. The attached pages contain the observed conditions of this inspection listed in outline form. Conditions found which need immediate attention are discussed below.

One of the major problem areas was with the electrical system. Violations included exposed wire ends, unmarked electrical boxes, non-conduited permanent wiring and improper grounding. In addition, the lock-out procedure needs to be reviewed with the electricians, as there were instances of unsigned and undated tags being used.

Another major concern is the improper guarding of machinery and equipment. Many guards were missing or were improperly secured.

Several work practices regarding the handling of asbestos need immediate correction. The beater operators were observed using push brooms and shovels to clean up spilled asbestos fibre. These operators also cut open the bags of asbestos and then carried them to the beater. When these operators were not using their respirators, they left them laying on top of open bags of asbestos.

The Nilfisk vacuum which is to be used by the Paints & Putties Moody Fluffer operator was locked up, pending the installation of conduit for its wiring. As a result, the operator was using an unregulated air hose for personal blowdown. This creates unnecessary airborne asbestos fibre. The conduit should be installed immediately so that the Nilfisk vacuum can be put back into operation.

The location of the Paint Crib adjacent to a welding area in the North Maintenance Shop is questioned. There were open cans of paint and other flammables in the crib. It is suggested that either the paint crib or welding area be moved.

These conditions along with other violations are listed on the following pages.

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Please respond within thirty days and indicate what steps have been taken to alleviate these conditions and what has been planned to keep them from reoccuring.

F. J. Angelos

F. J. ANGELOS, SUPERVISOR
WAUKEGAN IND. HYGIENE LAB.

Encl.

FJA/mm

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I. GENERAL CONDITIONS

A. The overall housekeeping was very good. The following conditions do need attention:
   1. Outside asphalt pump station - poor housekeeping (Photo 1, 19)
   2. South side of Line #1 raceway East of chopper - scrap and debris
   3. Silo deck - cluttered with hoses and tools
      (This condition was rectified later in the week)
   4. HEAF Units - much oil on floor
   5. Several instances of broken pipe insulation were observed which could possibly contain asbestos
      a. Still Room (Photo 20,21 & 22)
      b. Along Line No. 1 (Photo 23)

II. ELECTRICAL

A. Several instances of exposed wire ends were found.
   1. No. 1 Roofing line, 2nd level before take-off - tagged as being hot 3/80 (Photo 4)
   2. Work area above the Silos
   3. No. 3 Roofing Line at Coater Control

B. Unmarked electrical boxes were observed.
   1. Four unmarked electrical boxes around No. 9 Roofing Line
   2. One unmarked box in Woodlands Shingle
   3. One unmarked box in Still Room - overhead South West area

C. Permanent Electrical wiring was seen that was not properly encased in conduit.
   1. 2nd level No. 6 Roofing Line above Slate release
   2. Above No. 3 Roofing Line winder
   3. South Side No. 1 Roofing Line near chopper (Photos 5-7)
   4. Fan mounted above Still No. 53
   5. No. 2 Paper Mill machine above creel operators
   6. Milfisk vacuum for Moody Fiber Fluffer - Conduit so it is operational

D. GROUNDING clips were missing on various pieces of equipment.
   1. Floor fan at Shingle Tab Filler
   2. Fan mounted above Still #53
   3. Hand Grinder - Paper Mill

E. The lockout procedure needs to be reviewed with the electricians, as there were several unsigned and undated tags observed.

F. There were two damaged electrical boxes.
   1. Column across from Q.C. Lab in Woodlands Shingle
   2. Broken conduit No. 5 Roofing Line wrapper - floor level

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III. GUARDING

A. There were many unguarded drive belts and chains.
   1. No. 1 Roofing Line West end of accumulator
   2. No. 3 Roofing Line South side of saturator
   3. Paints and Putties Shingle Tab Filler
   4. Exterior Building between Roofing and Paper Mill East of Bridge (Photo 8)
   5. Guards not secured properly Paper Mill fiberizers, (Photos 9, 10 & 11)

B. Many pieces of maintenance equipment were not properly guarded.
   1. Machine #0352 Grinder North Shop
   2. Paper Mill Band Saw (Photo 12)
   3. Fan in North Maintenance Shop - openings too large
   4. Window fan No. 1 Roofing Line - openings too large
   5. Fan on Silo deck - no guard

C. Several unguarded light bulbs were observed.
   1. Drop cord lights in Still Room - cardboard being used
   2. Silo Deck above No. 1 Roofing Line
   3. North steps No. 6 Roofing Line
   4. Retractable drop cord lights - Lines Nos. 1 and 3

D. The overhead walkway running parallel to the overhead screw conveyor in the Paper Mill Wood Chip storage area is not guarded properly on the conveyor side. (Photo 13)

E. The ladder on the outside of the building near Paints & Putties needs to be caged. It is over 20 feet high. (Photo 14)

D. There was a hole in the floor of the Wood Chip unloading area in the Paper Mill which was unguarded. (Photo 16)

IV. PERSONAL PROTECTIVE EQUIPMENT

A. Three eye wash stations were found that had very low water pressure.
   1. Paints and Putties - North wall
   2. Still Room - South End
   3. No. 1 Paper Machine in Paper Mill - North Side by surfactant mix

V. FIRE PROTECTION

A. Two broken fire hose reels were seen.
   1. No. 9 Roofing Line - top bracket broken
   2. Still Room - mounting for reel broken

B. The Fire hydrant by the asphalt receiving area was covered with asphalt. (Photo 1)

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VI. UNSAFE WORK PRACTICES

A. The Beater Operators in the Paper Mill were using brooms and shovels to clean up spilled asbestos fibre. A vacuum system should be installed to minimize the additonal airborne fibre created during cleanup. (Photo 17).

B. The Beater Operators in the Paper Mill were cutting open the bags of asbestos on the pallet, and then carrying them to the dumpsite. These bags should not be opened until they are ready to be dumped. (Photo 15).

C. Respirators were left laying on asbestos fibre bags by the Beater Operators. (Photo 15).

D. Unregulated air hoses were being used for personal blow downs plant wide. The Moody Fiber Fluffer operator was using an unregulated air hose to remove asbestos fibre from his clothing. The Nilfisk vacuum which he normally uses was locked up, pending installation of conduit for the electrical wiring. This conduit should be installed immediately so that the vacuum can be used for personal cleanup.

E. During the cleanout of the No. 9 Roofing Line Saturator, the heating coils were steam cleaned in the middle of the room. No ventilation was provided and operators did not wear respirators.

F. Operators were welding adjacent to the Paint Crib at the North Maintenance Shop. There were open cans of paint and other solvents in the crib.

G. Above the No. 6 Roofing Line there was a 2" x 6" plank, wired on one end to the top of a guard rail, with the other end resting on the ductwork. This appeared to be being used as an access to the ductwork.

H. Pressurized regulators were found on stored welding rigs plant wide.

I. Load Limits were not clearly marked on hoists in the electricians crib.

J. In the Paper Mill the maintenance people had removed the manhole covers to work on the water system. They did not barricade the openings properly. They also left the area for extended periods, during which time the openings were left entirely unguarded. (Photos 2 & 3).

K. There was an open pit on the West side of the elevator, just inside the door at the Wood Chip railcar unloading dock in the Paper Mill. (Photo 16).

L. The Paper Mill roll mover was consistently left with the spike three to four feet off the floor. (Photo 18).

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