RWF JUL 20 1981 DURING THE DEMOLITION OF

PROCEDURE FOR THE SAFE HANDLING OF ASBESTOS FURNACE LININGS

~~DURING DEMOLITION OF FURNACE LININGS~~

I. PLANNING

A. NOTIFY THE PLANT INDUSTRIAL HYGIENIST AS TO THE EXPECTED STARTING DATE OF THE PROJECT

B. SUPPLY THE FOLLOWING INFORMATION

1. HOW MANY INDIVIDUALS WILL BE INVOLVED
2. HAS THE NECESSARY TRAINING BEEN COMPLETED
3. LOCATION OF JOB
4. IS THERE ANY ADDITIONAL PROTECTIVE EQUIPMENT NEEDED
5. CAN THE OPERATION BE WETTED DOWN

C. HAVE ALL THE NECESSARY PERSONAL PROTECTIVE EQUIPMENT AVAILABLE BEFORE BEGINNING THE PROJECT

D. KEEP RECORDS AS TO WHICH FURNACE LININGS HAVE BEEN REPLACED

II. PERSONAL PROTECTIVE EQUIPMENT

A. CLOTHING

1. ALL INDIVIDUALS WORKING ON THE PROJECT WITH POTENTIAL FOR THE CONTAMINATION OF THEIR CLOTHING WITH ASBESTOS DUST MUST BE ISSUED DISPOSABLE TYPE COVERALLS AND SHOE COVERINGS

PLAINTIFF'S EXHIBIT AL-775

2. INDIVIDUALS REQUIRED TO WORK INSIDE THE FURNACE SHOULD BE COVERED FROM HEAD TO TOE (TYVEK HOODED COVERALL WITH FACE SHIELD AND AIR LINE CONNECTION)
3. THE TYPE 14 TYVEK DISPOSABLE COVERALL IS RECOMMENDED FOR THOSE WORKING OUTSIDE THE FURNACE
   a. SHOULD BE DISPOSED OF AFTER THE END OF EACH SHIFT JUST AS ALL OTHER ASBESTOS MATERIALS ARE DISPOSED.

b. INEXPENSIVE DISPOSABLE CLOTHING SEEMS TO BE THE BEST ANSWER. IF WE USE ANY OTHER TYPE OF PROTECTIVE CLOTHING, THEN WE WOULD HAVE TO LAUNDER THE MATERIAL OURSELVES.

B. GLOVES

1. ALL INDIVIDUALS HANDLING THE MATERIAL OR CLEANING UP THE MATERIAL SHOULD WEAR PROTECTIVE GLOVES

2. ANY TYPE OF GLOVE THAT COMPLETELY COVERS THE HAND CAN BE USED

C. RESPIRATORS

1. INSIDE THE FURNACE

a. INDIVIDUALS WORKING INSIDE THE FURNACE SHOULD BE REQUIRED TO USE A POSITIVE PRESSURE TYPE, A TYPE "C" SUPPLIED AIR, OR A CONTINOUS FLOW TYPE RESPIRATOR WITH FULL FACE MASK

b. ACCEPTABLE RESPIRATORS INCLUDE SCOTT AIR PAKS, AIR LINE RESPIRATORS, OR OTHER POSITIVE PRESSURE RESPIRATORS (COULD USE CYLINDER AIR OR A PORTABLE OIL-FREE COMPRESSOR TO SUPPLY BREATHING AIR)

C. THESE WILL BE REQUIRED UNTIL WE CAN ESTABLISH WHAT THE ACTUAL CONCENTRATIONS ARE INSIDE THE FURNACE DURING DEMOLITION

2. OUTSIDE THE FURNACE

a. INDIVIDUALS WORKING IN THE NEAR VICINITY OF THE FURNACE THAT ARE INVOLVED IN HANDLING THE MATERIAL MUST WEAR THE 3M #9920 DISPOSABLE DUST MASK.

b. ANY OTHER INDIVIDUALS THAT HAVE TO BE IN THE AREA FOR ANY REASON SHOULD ALSO WEAR THE 3M DUST MASK.

C. INDIVIDUALS INVOLVED IN THE DISPOSAL OR CLEANUP SHOULD WEAR THE 3M DUST MASK

III. REMOVAL OF LINING

A. THE AREA SURROUNDING THE FURNACE SHOULD BE ROPED OFF USING THE BLACK AND YELLOW SAFETY TAPE

B. ONLY INDIVIDUALS ACTUALLY INVOLVED ON THE PROJECT AND PROPERLY PROTECTED SHOULD BE ALLOWED INSIDE THE ROPED OFF AREA

C. SIGNS SHOULD BE POSTED TO CAUTION OTHER EMPLOYEES AS TO THE POSSIBLE ASBESTOS HAZARD (THESE MUST BE TH OSHA APPROVED SIGNS

D. NO EATING, DRINKING, OR SMOKING ALLOWED IN THE AREA

E. WETTING DOWN THE PROCESS

1. DURING THE PROCESS OF TARING OUT THE LINING THE MATERIAL SHOULD BE SPRAYED WITH A FINE MIST OF WATER TO REDUCE THE FORMATION OF DUST

2. THE MATERIAL REMOVED SHOULD BE SPRAYED WITH WATER BEFORE BEING PLACED IN AN IMPERMEABLE CARDBOARD DRUMS FOR DISPOSAL (SEE LARRY FOX)

3. THESE DRUMS SHOULD BE PROPERLY LABLED AS TO THE CONTENTS AND SEALED (LABELS ARE AVAILABLE - LARRY FOX JACK NORRIS)

E. CLEAN-UP OF AREA

1. DUST SHOULD BE SWEPT UP USING AN INDUSTRIAL VACUUM CLEANER WITH AN ALCOA FLEX-KLEEN FELTED BAG (STOCK NO. 270-746 000 or 00
2. CARE SHOULD BE TAKEN TO AVOID STIRRING UP THE DUST
3. THE COLLECTED DUST SHOULD BE DISPOSED OF AS ALL OTHER ASBESTOS MATERIALS ARE
4. INDIVIDUALS INVOLVED IN THIS CLEAN UP SHOULD WEAR PROTECTIVE CLOTHING, GLOVES AND 3M DUST MASK

IV. PERSONAL MONITORING

A. AIR MONITORING – INDUSTRIAL HYGIENIST WILL ORGANIZE THIS ACTIVITY

1. TESTS SHOULD BE TAKEN TO DETERMINE WHAT LEVELS OF ASBESTOS ARE GENERATED DURING THIS TYPE OF OPERATION

2. EVERY INDIVIDUAL INVOLVED IN THE OPERATION SHOULD BE MONITORED TO DETERMINE THEIR PERSONAL EXPOSURE LEVEL

3. EACH INDIVIDUAL MUST WEAR THE NECESSARY AIR SAMPLING EQUIPMENT DURING THE ENTIRE SHIFT.

4. EACH INDIVIDUAL MUST BE MONITORED EVERY DAY AS LONG AS THE PROJECT LASTS

B. MEDICAL MONITORING

1. EVERY INDIVIDUAL INVOLVED IN THIS TYPE OF WORK MUST BE EXAMINED ANNUALLY TO INCLUDE THE FOLLOWING:

a. CHEST X-RAY

b. PULMONARY FUNCTION TESTS

2. A HISTORY OF THE INDIVIDUALS SMOKING HABITS SHOULD ALSO BE KEPT IN THEIR MEDICAL FILES

V. TRAINING – TO BE DONE BY THE INDUSTRIAL HYGIENIST

A. EVERY INDIVIDUAL INVOLVED IN THESE PROJECTS SHOULD BE GIVEN TRAINING TO COVER ALL OF THE ABOVE GUIDELINES TO FAMILIARIZE THEM WITH THE PROPER SAFE HANDLING PROCEDURES

B. TRAINING SHOULD BE GIVEN ON THE USE OF RESPIRATORY EQUIPMENT

C. TRAINING SHOULD ALSO INCLUDE A SECTION ON THE POSSIBLE HAZARDS INVOLVED WITH EXPOSURE TO ASBESTOS – REVIEW OF MATERIAL SAFETY DATA SHEET