

FEBRUARY 13, 1989

FROM: W.E. WOOD JR.

TO: ALL MAINTENANCE ELECTRICIANS AND ELECTRICAL S.E.T.'S

SUBJECT:

Recommended Guidelines For Removal Of Asbestos Gaskets
From Holophane Light Fixtures A945551 Unit no.02454.

See Complex Procedure S 1.02 Minor Task

The below list of material will be needed to do this job

GLOVE BAG (JVA23A)	contact A.C.T. Member
DUCT-TAPE	folio 90777
REPLACEMENT GASKET	
SPRAY ENCAPSULANT	APS or contact A.A.T. Member
DAMP PAPER HANDTOWELS	
APPROVED RESPIRATOR	
PUTTY-KNIFE 1-1/4 IN.	folio 4340-000088
PLASTIC ASBESTOS CONTAINING MATERIAL BAG	folio 90680

We recommend the following steps be taken to assure the proper engineering controls needed for these asbestos gaskets located in these light fixtures:

1. obtain work permit.
2. secure power to light fixture.
3. install glove bag containing putty knife, encapsulant and damp handtowels, over fixture.
4. remove globe and light bulb and wipe inside of globe.
5. remove rivets holding gasket in place.
6. clean and spray gasket surface.
7. reinstall globe
8. remove glove bag and tape bag closed.
9. remove globe and install new gasket and bulb.
10. install globe, and place asbestos free sticker on or as close to fixture as possible.

The above recommendation is for gasket replacement and was reviewed by the ASBESTOS CONTROL TEAM.

The other option would be disposal of the entire fixture intact.

W.E. WOOD JR.
ELECTRICAL S.E.T. COMPLEX
2766 5-141

ABS-060720

LAM 031296

Asbestos gaskets
replacement in light
fixtures

**SAFETY ANALYSIS
WORKSHEET**

PLANT Shell WRMC

TITLE OF JOB OPERATION _____

DEPARTMENT/UNIT Complex wide

DATE February 21, 1989

**REQUIRED AND/OR RECOMMENDED
PERSONAL PROTECTIVE EQUIPMENT**

Approved respirator with HEPA filter. Complex Procedure S1.02,
"Minor Task"

SEQUENCE OF BASIC JOB STEPS	POTENTIAL ACCIDENTS OR HAZARDS	RECOMMENDED SAFE JOB PROCEDURE
Break the job down into basic steps that tell what is done first, what is done next, and so on. You can do this by (1) observing the job, (2) discussing it with the operator, (3) drawing on your knowledge of the job, or (4) a combination of all three. Record the job steps in their normal order of occurrence. Describe what is done, not the details of how it is done. Usually three or four words are sufficient to describe each job step. For example: The job of "replacing a light bulb" breaks down into basic steps as follows: 1. Bring and set-up ladder 2. Ascend ladder 3. Remove light globe 4. Replace light bulb 5. Replace light globe 6. Descend ladder 7. Remove and store ladder Make the job steps neither too fine or too broad. They should sound natural.	Ask yourself for each job step what accidents could occur to the man doing the job step. Get your answers by either (1) observing the job, (2) discussing it with others, (3) recalling past accidents, or (4) a combination of all three. Ask: Can he be struck by or contacted by anything? Can he strike against or contact anything? Can he be caught in, on, or between anything? Can he fall? Can he strain or overexert himself? Can he be exposed to gas, fumes, radiation, etc.? Record potential accidents by combining one of the accident type abbreviations below with the agent of contact. For example, "struck by a cranehook" is recorded "SB-crane hook". Number each potential accident. SB - Struck by CO - Caught on CB - Contacted by CB - Caught between SA - Struck against F - Fall CW - Contact with SO - Strain - overexertion CI - Caught in E - Exposure If you prefer, explain hazards and potential accidents more fully. Draw a line to indicate where the entries for one job step end and the next begin.	For each potential accident, ask yourself what exactly should the man do or not do to avoid the accident. Get your answers by either (1) observing the job for leads, (2) discussing the job with others who are experienced therein, (3) drawing on your own experience, or (4) a combination of all three. Describe specific precautions in concrete detail. Give each recommended precaution the same number as was given the potential accident (center column) to which it applies. Avoid generalities like "Be alert", "Be careful", and "Take caution". Use simple do or don't statements, e.g. "Lock out main power switch", "Stand clear of lift before signalling", or "Check wrench grip before exerting full force". If necessary, explain how as well as what to do. Amount of detail is a matter of judgement. Also, question the basic job method. Is there an entirely different way to do the job that is better and safer? If a repair or service job, can anything be done to increase the life of the job.
1. Review job with operator	Identify light fixtures	Review Complex Procedure S1.02,
when obtaining permit.	containing asbestos gaskets.	"Minor Task" and what type of
		engineering controls you will
		be using.
2. Turn off lights to be	Hot lamps may melt plastic	
worked on.	glove bag.	
3. Install glove bag con-	Falling off ladder.	Use correct size ladder and
taining putty knife, damp		position correctly.
hand towels, and		
Encapsulant, over light		
with fixture and secure		
with duct tape.		
4. Remove globe and lamp.		
5. Remove rivets holding		
gasket.		

ABS-060721

(Continue on Reverse Side)

LAM 031297

[illegible]

ABS-060722

LAM 031298

SHELL WOOD RIVER MANUFACTURING COMPLEX

HANDLING AND DISPOSAL OF
ASBESTOS INSULATION

COMPLEX PROCEDURE
BOOK I, S 1.02

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- B. Large-scale, long-duration jobs will require the use of an approved respirator, disposable Tyvek coveralls, head covering, gloves, and protective footwear. Also provided will be any clothing worn beneath the Tyvek suits including socks, underwear and coveralls. Non-disposable clothing will be placed in a properly labeled bag and sent to Purchasing for laundering.
- C. Personnel and area monitoring is required daily until it has been established that levels are below the action level.

VI. MINOR TASKS

- A. Minor tasks will include those jobs where control procedures are used to maintain exposures consistently below the action level of 0.1f/cc. Minor tasks will not require the use of disposable protective clothing, banner tape or sign posting. However, minor tasks will mandate the use of an approved respirator (Section III, H) unless engineering controls are provided which reduce the asbestos fiber concentration below the action level.

Some examples of minor tasks are:

- 1. Brake shoe replacement.
 - 2. Clutch replacement.
 - 3. Picking up and bagging pieces of transite.
 - 4. Removing asbestos-containing gaskets and valve packing.
 - 5. Cutting of asbestos-containing gasket material.
 - 6. Taking samples of insulation (Section III, B).
 - ~~7.~~ Removal of non-friable "firetard" may be considered minor tasks after a review by a competent person and the Health and Safety Department.
- B. Also, where practical, minor tasks will require cleanup of the area using a HEPA vacuum.

VII. EPA NOTIFICATION REQUIREMENTS

- A. IEPA notification is required for each job as follows:
 - 1. More than 160 square feet of asbestos-containing insulation removal from a vessel, or;
 - 2. More than 260 linear feet of asbestos-containing insulation removal from piping.