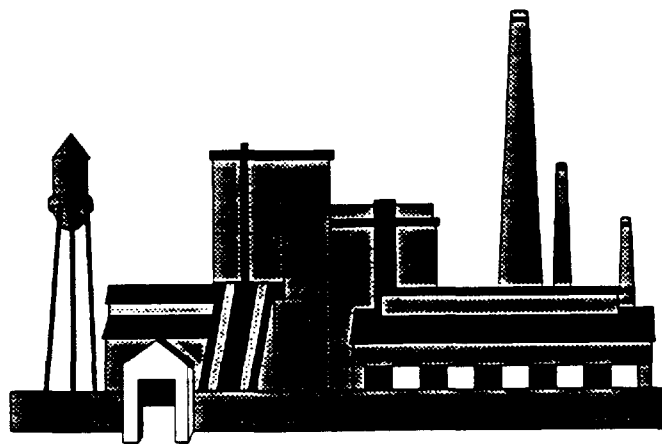
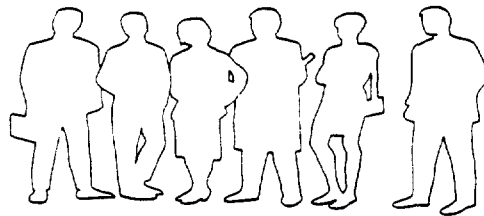


ROCKDALE OPERATIONS EMPLOYEE ASBESTOS HANDBOOK



ARD 004440

HANDBOOK

CONTENTS

PURPOSE	1
GENERAL POLICY	2
HEALTH EFFECTS	3
RESPONSIBILITIES:	
EMPLOYEE DO'S	4
EMPLOYEE DONT'S	5
ASBESTOS MATERIALS	6
LABEL AND MARKING	7 - 10
TRAINING	11
ALCOA CORPORATE POLICY	12
REGULATIONS	13

PURPOSE

The purpose of this handbook is to provide information necessary for the EMPLOYEE to protect themselves, others and their work place from asbestos exposure.

This Rockdale Operations Employees Asbestos Handbook is designed to meet or exceed the requirements of OSHA, MSHA, EPA, and the Alcoa Corporate Engineering Standards. This handbook is a part of the continuing effort of Alcoa-Rockdale Operations to reach its goal ^{os} a leader in safety and quality.

GENERAL POLICY

Asbestos has been widely used in a variety of products, many of which are or have been used at Rockdale Operations. Asbestos creates a significant health hazard potential to employees who inhale airborne fibers. Due to the potential, it is the responsibility of every employee at Rockdale Operations to know and understand the implications of asbestos in the work place. It is the responsibility of every employee to avoid personal exposure or exposure of others to asbestos.

The inspection, collection, sampling, or abatement of asbestos must be performed by trained, qualified, and authorized personnel only.

HEALTH EFFECTS OF ASBESTOS

Asbestos ^{is} ~~has been~~ known to cause cancer in humans. It is officially listed as a carcinogen by OSHA.

INHALATION -

Excessive exposure to asbestos ^{FIBERS} ~~dust~~ causes chronic inflammations of lung tissue, as well as cancers, in both ~~man~~ ^{Humans} and animals.

SP → Prolonged exposure to asbestos ^{FIBERS} ~~dust~~ has been found to cause pulmonary fibrosis (asbestoses), which may be disabling and even fatal.

HEALTH EFFECTS OF ASBESTOS

Regulated If asbestos is not handled in the ~~recommended~~ manner the following ~~other~~ potential adverse effects are possible.

EYE - Mechanical injury only.

INGESTION - Amounts ingested incidental due to industrial exposure ~~are not likely~~ *MAY* to cause injury.

SKIN - Mechanical injury only. Skin adsorption is unlikely.

MUTAGENICITY - Some forms of asbestos *ARE* reported to induce chromosomal changes in tissue culture.

RESPONSIBILITIES

EMPLOYEE DO'S

- * Get positive identification of any materials in question. If there is a possibility that asbestos may be present, notify your supervisor.
- * Be aware of ^{MULTIPLE LAYERS OF} ~~sub-layered~~ materials. Some vessels, equipment, etc. may contain more than one type of insulation. Asbestos material may be covered by refractory, siding, or insulation.
- * Know where asbestos is present in your work area. Avoid disturbing these areas.
- * Inform others in the general area where asbestos work is in progress.

RESPONSIBILITIES

EMPLOYEE DONT'S

Dont

- * Use materials containing asbestos.
- * Sandblast, waterblast, or blowoff materials containing asbestos.
- * Use compressed air to remove or disturb asbestos materials.
- * ^{Do not enter} ~~Eat, drink, or smoke in~~ regulated areas or decontamination areas.
- * Use asbestos labled bags for disposal of general trash or for any other uses.
- * ~~Enter abatement areas.~~

ASBESTOS MATERIALS

**TERMAL BLANKETS,BATS,BLOCKS
TEXTILE CLOTH,FELTS,SHEETS,CORD
GASKET MATERIALS
PACKING MATERIALS
TRANSITE PIPE
ROOF TILES,SHINGLES,TILES
SIDING CLAPBOARD,SHINGLES
FLOOR TILES
WALL COVERING
BRAKE PADS,LININGS
CAULKING PUTTY
JOINT COMPOUND
MASTICS
STUCCO
ARC CHUTES
BRAIDED CABLES
INSULATING FIBER BOARD
ROOF PAINT**

ASBESTOS

LABEL AND MARKING

The following labels and tags may be found on installations which contain asbestos.

LABELS AND TAGS (EXAMPLES)

Kevin
Call Contractors
& get one example of
every kind of label
the contractor has!

ASBESTOS LABEL AND MARKING

The following labels and tags may be found on installations which contain asbestos.

LABELS AND TAGS (EXAMPLES)

ASBESTOS LABEL AND MARKING

**Asbestos containing insulation systems
are sometimes identified by color coded
lagging or lagging bands.**

RED LAGGING - Asbestos

RED LAGGING BANDS - Asbestos

GREEN LAGGING - Asbestos free

GREEN LAGGING BANDS - Asbestos free

OTHER COLORS - Unknown

ASBESTOS LABEL AND MARKING

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TRAINING REQUIREMENTS

The Rockdale Operations Abbestos Program is designed to provide employees the knowledge and skills necessary to safely deal with asbestos hazards on the job. The following represents the minimum training requirements required to meet federal, state and Corporate guidelines.

GENERAL PLANT POPULATION -

- * Asbestos Awareness Handbook**
- * Yearly asbestos safety meeting**

EMPLOYEES WORKING WITH ASBESTOS -

- * Asbestos Awareness Training**
- * Initial 16 hr. Training**
- * Annual 8 hr. Refresher Training**

CORPORATE POLICY

ASBESTOS REGULATIONS

*** ALCOA ENGINEERING STANDARD 18.18**

*** ALCOA ASBESTOS MANAGEMENT POLICY**

*** OSHA 29 CFR 1910.1001
WORKPLACE EXPOSURE FOR ASBESTOS**

*** OSHA 29 CFR 1926.58
ASBESTOS STANDARD FOR CONSTRUCTION**

*** EPA 40 CFR PART 61
NATIONAL EMISSIONS STANDARDS
HAZARDOUS AIR POLLUTANTS**