



ROCKDALE OPERATIONS

PLAINTIFF'S
EXHIBIT

AL-29

I N D U S T R I A L H Y G I E N E R U L E S

RULE NUMBER:	DATE:	REPLACES RULE NUMBER:	OF DATE(S):
IH-001	1992 January 01	I-000	82-12-28

RE: INDUSTRIAL HYGIENE PROGRAM

Policy Statement

- Maintenance of a healthy workplace in order to protect each employee from potentially harmful agents in the working environment is a basic premise underlying Rockdale Operations. This is achieved by:
- Periodic evaluations of the workplace for early detection of environmental conditions that might prove detrimental to employee health.
- Institution of appropriate controls to minimize employee work exposures to potentially harmful conditions, in accordance with good industrial hygiene practice.
- Training employees to recognize the potential health hazards of their jobs and the means of avoiding undue exposure.
- Assessing and recommending personal protection devices and providing instructions for their use and care.
- Active Industrial Hygiene support of plant Safety and Health Steering Committee and the Departmental Safety and Health Committees.
- Cooperation with local, state, and Federal government agencies charged with employee health protection so as to aid in the development of sound and effective standards and the development of common goals.



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Elements of Rockdale Operations' Industrial Hygiene Program

- Respiratory Protection Program - Rockdale Operations has developed a Respiratory Protection Program designed to protect employees from undue exposure to airborne contaminants. A summary of this program is included in the Industrial Hygiene section of the Rockdale Operations Safety Manual and is identified as Rule I-002. Additional details are contained in Rockdale Operations Respiratory Protection Manual.
- Hearing Conservation Program - Rockdale Operations has developed a comprehensive Hearing Conservation Program to protect employees from hearing loss due to exposure to occupational noise. The details of this program are included in Rule I-004 in the Industrial Hygiene section of the Rockdale Operations Safety Manual.
- Hazardous Materials Control - A procedure has been developed for early identification of hazardous materials at Rockdale Operations in order to ensure the safe use of these materials. Details of this procedure are given in Rule I-006 in the Industrial Hygiene section of the Rockdale Operations Safety Manual. Additionally, Rule I-003 describes the procedures to be used in disposing of wastes containing asbestos and Rule I-005 deals with disposal of empty containers.

~~Rockdale Operations Industrial Hygiene Survey contains a listing of materials used at the plant, the departments which use them, and a brief discussion of any associated hazards.~~

- Urinary Fluoride Survey - Rockdale Operations conducts urinary fluoride surveys in order to monitor employee exposures to fluoride generated in the potroom work area. The surveys are done in accordance with the procedures given in Alcoa's Urinary Fluoride Survey Manual.

~~Sample collection and analysis is done by the Industrial Hygiene Department. Feedback to and counseling of participants is done by the Medical Department and Industrial Hygiene.~~

- Ionizing Radiation Control - Rockdale Operations has a program designed to protect employees from overexposure to ionizing radiation. The program includes:
 - A. Maintaining an up-to-date of all ionizing radiation devices on the plant site and ensuring that all such devices are properly licensed by the Texas Department of Health.

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- B. Ensuring that all ionizing radiation devices are properly labeled and that appropriate warning signs are displayed in the areas where the devices are used.
- C. Ensuring that all ionizing radiation devices are inspected at prescribed intervals and that records of such inspections are maintained.
- D. A film badge program to monitor the exposure of employees working with ionization radiation devices.

Items A, B, and C are the responsibility of the Senior Safety Engineer - Power.
Item D is administered by the Medical Department.

Schedules for Testing and Training

Schedules for Testing are available from the Senior Industrial Hygiene Technician.

Schedules of Training are available through the Training Management System which also provides a record of such training.

The following pages are outlines of training programs which are available.

HEARING CONSERVATION

- I. Objective: To ensure that employees at Rockdale Operations do not suffer hearing loss due to exposure to occupational noise.
- II. Training Program Outline
 - A. How the ear works
 - B. Identification of Noise Hazards
 - 1. Noise level surveys
 - 2. Personal exposure sampling
 - C. Control of noise exposure
 - 1. Engineering controls
 - 2. Administrative controls
 - 3. Personal protective equipment -- show styles available at Rockdale
 - D. Audiometric Testing
 - E. Education
 - F. OSHA/MSHA Standards
 - G. Audio-Visual Presentation
- III. Questions and Answers

PCB SAFETY TRAINING

- I. Objective: To ensure that employees are properly trained and equipped to handle PCB's found at Rockdale.
- II. Training Program Outline
 - A. What are PCB's -- Where do they come from?
 - B. Health effects of PCB exposure
 - C. Routes of PCB entry into the body
 - D. Personal protective equipment
 - E. Regulations governing the use, storage and disposal of PCB's
- III. Questions and Answers

RADIATION SAFETY TRAINING

- I. Objective: To ensure that employees are not exposed to harmful levels of ionizing radiation.
- II. Training Program Outline
 - A. Types of radiation and characteristics of each
 - B. Types of radiation devices found at Rockdale
 - C. Personal monitoring program - review results with participating employees
 - D. Discussion of Regulations
 - 1. Allowable dose
 - 2. Requirements for posting warnings and notices
 - 3. Licensing and registration requirements
 - E. Handout describing sources of annual radiation dose
- III. Questions and Answers

RESPIRATORY PROTECTION

A. Statement of Policy

1. Plant objective
2. OSHA/MSHA requirements

B. Fundamental Respiratory Anatomy and Physiology

1. Entry
2. Mode of Travel
3. Basic Working Unit of the Lung

C. Measurements of Toxic and Nuisance Atmospheres

1. Particulates
2. Gases

D. Particulate Atmospheres

1. Types
2. Physiological Reactions

E. Gaseous Atmospheres

1. Types
2. Physiological Reactions

F. Types of Available Respirators

1. Disposable
 - (a) 8706
 - (b) 8710
 - (c) 9910
 - (d) 9920
2. Rubber Face Piece Respirators
 - (a) AD 50 and 60 Series
3. Self-contained breathing apparatus (SCBA) (if applicable)

G. Fit-testing (if applicable)