



INTER-OFFICE CORRESPONDENCE

To: J. A. Clapperton

Date: September 23, 1972
From: Zeb G. Bell, Jr.
Location: 19-East
Subject: Hazards in the
Chlor-Alkali Indus

This is the outline suggested to Dr. Key during my visit to NIOSH.

We need to help NIOSH and tell them where to get flow diagrams for the various processes. Also, Dr. Key did not have a list of member companies of the Chlorine Institute. Can we get this to Dr. Key?

Zeb G. Bell, Jr.

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Enc.

Cc : R. E. Widing

BB 0013941

HAZARDS IN THE CHLOR-ALKALI INDUSTRY

PREFACE

INTRODUCTION

HISTORY

PRIMARY MANUFACTURING PROCESSES

Diaphragm Cells: Description of operation, flow diagram, materials encountered.

Mercury Cells: Description of operation, flow diagram, materials encountered.

AUXILIARY OPERATIONS

Environmental Control Units - Their purpose and hazards

Maintenance

Materials Handling

Loading, Transfer and Transportation Facilities

POTENTIAL CHEMICAL HAZARDS

Chlorine, NaOH, KOH, HCl, H₂SO₄, Mercury, NaSA, Asbestos, Lead, H₂, Chlorinated Organics

POTENTIAL PHYSICAL HAZARDS

Electrical, Thermal, Noise

GENERAL SAFETY HAZARDS

Fire and Explosions - H₂, NCl₃

Sanitation

Housekeeping

RECOMMENDED SAFETY & HEALTH PROGRAM

EVALUATION OF HAZARDS

Air Sampling

Medical Monitoring

Inspections - Checklist

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APPLICABLE METHODS TO MINIMIZE:

1. CHEMICAL HAZARDS

Engineering Modifications

Administrative - Responsibility Assignments, Reassignment

Personal Protective Equipment

Chemical

Respiratory

Skin

Eyes

2. SAFETY HAZARDS

Floors, Electrical

Head, Body, Footwear

DEFINITION OF TERMS

APPENDIX

- I. Assistance Register - Where to get help - State, Federal
- II. Evaluation Checklist
- III. Selected References