

FROM E. BROOKS PARKER
ROCKDALE WORKS

TO MEMORANDUM

1983 January 12

RE: INDUSTRIAL HYGIENE AUDIT - 1983 JANUARY 18-20

I recently distributed some information on Industrial Hygiene concerns and control equipment to most of you for your use in preparing for the upcoming Industrial Hygiene audit. It is intended to serve as a reminder of known major problem areas in the various departments and thereby help you in fielding any questions the auditors might have along these lines.

The auditors will probably want to know something about how you indoctrinate new employees and retrain older employees in these areas. Frequency of required training is shown as an attachment to Industrial Hygiene Rule 000 in your Safety Manual. Jim Richter and I are available to help you in this effort and you will be receiving quarterly reminders of progress in meeting these requirements. In addition, you should consider using safety contacts as a supplement to the formal training.

Indoctrination of new employees, whether fresh off the street or transferred in from other areas of the plant, needs to be addressed also. Specific instruction concerning health hazards needs to be included in the orientation which these people receive when they report for work. Such information should also be included in JSA's where appropriate.

Knowledge of how these things are accomplished in your department will be needed in answering the audit team's anticipated questions.

Give me a call if you need help.

E. BROOKS PARKER

EBP/mz

Attachment

cc:
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Bill Eckert

ARD 003638



CARBON PLANT

Concerns

- Coal Tar Pitch Volatiles
 - Mixer floor
 - Press Room
 - Cleaning mixers, conveyors, screws
- Noise
 - Ball Mill area
 - Hammer screens
- Silica
 - Gunniting flue walls

Control Equipment

- Green mill dust collection system
- Mixer ventilation system
- Sound booth - ball mill area

RODDING ROOM

Concerns

- Noise
 - General area - 85 dBA - hearing protection recommended
 - Hanging Station - 90 dBA - hearing protection required
 - Friction joining
- Trichloroethane - stub dipping

Control Equipment

- Ceiling baffles for noise control
- Wall covering on southwest wall for noise control
- Noise enclosure around impactor
- Noise enclosure around stripping press hydraulic equipment
- Dampers on trolley bells
- Bumpers on trolleys
- Ventilation system at stub dipping station

POTROOMS

Concerns

- Fluorides
- Dust
 - General area - ore bucket filling
 - ore bin filling
 - pattern bucket filling
 - Bath crusher - CY 19 front end loader - respiratory protection required
- Noise
 - Siphon rowelling - 115 dBA - hearing protection required
 - TCC crews - cleaning butts, crust breaking - 85 dBA - hearing protection recommended
 - Bath crusher - belt attendant - 85 dBA - hearing protection recommended
 - Walden Front End Loaders - CY 19 charging hopper - 90 dBA, hearing protection required
 - Butt bath pick-up - 85 dBA, hearing protection recommended
- Heat Stress

Control Equipment

- Potroom fume collection system
- Gatorade dispensers
- Catco crane cab ventilation systems

POTLINING

Concerns

- Coal Tar Pitch Volatiles/methyl naphthalene
 - Seam mix mixing
 - Seam mix installation - respiratory protection required
 - Mixing C38 cement - respiratory protection required
- Silica
 - Installing pot insulation, respiratory protection required
 - Dumping potshells in Bldg. 27
- Asbestos
 - Removing potshells and cleaning pot stalls, respiratory protection required when shell is underlain with asbestos millboard strips
 - Cleaning pot bottoms when shell was underlain with asbestos millboard, respiratory protection required
- Metal fume
 - Cutting collector strap bolts, respiratory protection required
- Fluorides
- Dust
- Noise
 - Potdigging, hearing protection required
 - Seam tamping with rammer
- Caustic
 - Cleaning potshells prior to pot repair

Control Equipment

- Ventilation system in mixer building

ENVIRONMENTAL CONTROL

Concerns

- Fluorides and Dust
Bag changing - respiratory protection required during
blowdown and bag removal
- Noise
Bag changing - noise from operating units
A398 and A446 operators - if spending extended time
under reactors
- Coal Tar Pitch Volatiles
Changing bags in A446 units - respiratory protection
required during blowdown and bag removal
- Pitch burns
A446 bag changing

Control Equipment

UTILITY/CONTROL/LABOR POOL

Concerns

- Dust
 - Ore shed, respiratory protection required when working in basement
 - Cleaning ore bridge
- Noise
 - Ore shed when opening car hopper slide gates
 - Repairing siphons, using air wrench
- Asbestos
 - When replacing transite duct sections
- Confined space entry
 - Inventorying tanks - follow confined space entry rules
- Fluorides
 - Pot sampling
 - Taking pot temperatures

ATOMIZER

Concerns

- Noise
 - Bldg. 401 - during atomizing, hearing protection required except in soundproof room
 - Bldg. 402 - compressor house - hearing protection required when assigned to work in building
- Dust
 - Cleaning rotex screens
- Inert gas
 - Confined areas of the plant
- Ionizing radiation
 - Portaspec unit in Bldg. 401, film badges required

Control Equipment

- Soundproof room in Bldg. 401

INGOT/PROPERZI

Concerns

- Noise
Properzi operator - 90 dBA, hearing protection required
All other production areas - 85 dBA, hearing protection recommended
- Chlorine
DC casting areas primarily but leak could affect entire area
- Si Cl₄, Freon
No. 3 D Casting area

Control Equipment

MAINTENANCE

Concerns

Bldg. 44 - Machine Shop

- Noise
Chambersburg hammer
- Welding fumes

Bldg. 144 - Garage

- Welding fumes
- Engine exhaust
- Battery fumes
- Solvent
- Asbestos (brake linings)

Bldg. 48 Yard Service

- Paint fumes and solvents
- Herbicides

Bldg. 51 - Electric Shop

- Solvents
- Asbestos (brake linings)

Bldg. 66 Boiler House

- Noise - 90 dBA, hearing protection required (except in soundproof room) when assigned to work in area
- Asbestos - when working with old insulation. Rules for removal of asbestos must be followed (respirators, wet down, place in bags)

Bldg. 34 Ingot

- Noise - 85 dBA in all production areas. Hearing protection recommended.
- Chlorine - when working on chlorine system, respiratory protection required
- when repairing chlorine leaks, self-supplied breathing equipment is required
- Si Cl₄/Freon - when working on Si Cl₄ system leaks, appropriate respiratory protection is required.

Bldg. 27 Pot repair

- Welding fumes
- Noise
Shell repair
Melting buttons from anode buss
- Caustic - residue on inside of potshells
- Solvents

Brickmasons

- Noise - Hearing protection required when operating brick saws.

Maintenance - continued

Field areas

- Welding fumes
- Confined spaces
- Chlorine - water and sewage treatment
- Various Nalco water treatment chemicals
- Lime - Bldg. 70
- Noise

Control Equipment

Bldg. 44

- Welding fume exhaust systems
- Noise enclosures for electric welders

Bldg. 144

- Vehicle exhaust ventilation system

Bldg. 66

- Noise proof room

Bldg. 27

- Welding fume exhaust systems