

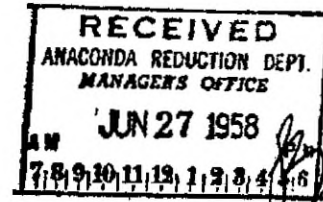
THE ANACONDA COMPANY

ANACONDA, MONTANA

Anaconda Reduction Department



June 27, 1958



MEMORANDUM

TO: Mr. W. A. Emanuel, Manager
FROM: F. A. Salomonson
SUBJECT: Hygiene

ROASTER NO. 2

1. Location: Zinc Dumping Pit.

The recognized hazards in this area are dust and noise. The concentration of zinc in the air is noted as well below maximum allowable concentration, but the lead is high during the dumping period. The actual dumping period should be not over 3 hours of shaking and blowing out the cars during each 8 hour shift. A switch has been installed on the upper platform to permit shutting down the shake out and thus running at shorter intervals of time.

Operators are required to wear goggles or shield and respirators.

Because of the high noise level some men have worn gauze ear plugs and are encouraged to try ear plugs furnished by the Safety Department.

An adequate dust collecting system would cost approximately \$15,000 to \$20,000.

2. Location: Tripper Floor.

The south end of the tripper floor has the highest dust concentration due to the dust handling equipment and the dust furnaces in this area. The dust elevator is worn out and is to be replaced with a new chain in the near future at which time the discharge housing will be totally enclosed. Men working on the tripper floors on the copper and zinc sides are provided with dust and gas respirators which they are to wear when on the job.

Gas on the tripper floor is due primarily to improper adjustment of stack dampers on the copper side and whenever this occurs it is soon corrected.

3. Location: Dust Bin on the Charge Floor.

To clear the atmosphere in this area a separate dust collecting system would be required. Respirators are used by the operators.

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4. Location: Screening Plant on East Side of Building.

A twin Buell Cyclone has been installed and has improved the dust condition and the dust recovery. Calcine loaders are required to wear respirators.

ZINC LEACHING PLANT

1. Location: Calcine Dumping Shed.

No satisfactory dust collecting or dust prevention system has been tried. The shed is large covering 2 tracks and is open at the ends. Except when cleaning out cars the dumper can get on the windward side and escape the dust. The dumpers are to use respirators and goggles.

Cross members in the walls of this shed carry a full load of caked and fine calcine which contributes to dusting. The real solution in prevention of dust losses and air contamination in tramming and dumping cars, is a conveyor system.

2. Location: Drag Chain and Wet Screen.

The dust atmosphere of this area is recognized and when operations warrant a hood of stainless steel will be installed over the screens and discharge of the drag chain.

A door will be changed and 2 doors hung to prevent wind blown dust in the atmosphere.

3. Location: Neutral and Acid Leach.

Tests showed only a trace of arsine in this area. A conical shaped hood has been in use for over a year on one of the acid pachucas. It does a much better job of eliminating the steam than do the flat top covers. Such hoods would give added assurance of a complete elimination of arsine at all times and would greatly improve working condition in winter months.

4. Location: Purification Collecting Tank.

Tests showed arsine to be slightly above the maximum allowable concentration. This condition could be corrected with a conical hood, open on the launder side, vented with a stack through the roof. This job should cost approximately \$1,000.

ELECTROLYZING

Location: Lead Pots and Casting Wheel.

A fan was purchased for ventilating this area. A hood is required, and a platform for the fan on the on the roof. tied into the present stack.

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This working area has been kept clean, but apparently we cannot be too carefull with the dross or dust. The floor can be washed with a hose and cleaning the moulds with compressed air will be discontinued.

The men working on the outside lead furnace will be required to use suitable respirators.


F. A. SALOMONSON
Supt. Zinc Plant

FAS:eml

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