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IMPROVEMENTS IN PROCESSING UNITS AND FACILITIES TO REDUCE DUST CONDITIONS

1930 No. 3-4 Cyclones installed #3 and #4 Systems.

No. 3 Cyclone exhausts closed.

1931 New design No. 1 Cyclones installed. Estimated to discharge 20% less dust than previous design.

Started to discharge No. 2 System exhaust into dust collecting tunnel and Glory Holes. Exhauster installed.

1932 Installed dust tower at No. 11 Mill. Dust collected by water sprays and washed down the drain.

Enlarged No. 4 Glory Hole from 10 feet to 20 feet diameter in order to increase collecting capacity.

1933 Built No. 3 Glory Hole and connected it in parallel with No. 4 Glory Hole to increase dust settling capacity.

1934 Built and put into service a portable vacuum cleaner for cleaning walls and floors in mills, bagrooms and warehouses.

1935 Measurements made Sept. 5-15, 1936 with No. 3 & 4 Systems operating with (1) No. 1 and part of No. 2 Cyclone exhausts from No. 4 System and (2) No. 1 Cyclone exhaust from No. 3 System, discharged to one dust tunnel and to #4 and #3 Glory Holes, (in parallel) showed 94% dust collection in Glory Holes.

Precooperators installed on No. 4 System. No. 2 Cyclone exhaust closed. Humidity of No. 1 Cyclone exhaust increased to decrease dust loss.

Installed wool stockings in No. 3 and No. 11 natural bagrooms.

1936 Installed dust tight body in small dump truck, in order to reduce dust hazards in the disposal of waste material from the Mills.

1937 Separate exhaustors were installed for 3 and 4 systems in June 1937. It is estimated that this permitted operating with 15% less dust loss from these systems, due to higher humidity maintained in these exhaust gases.

Installed precooperators - Closed No. 2 Cyclone exhaust to dust tunnel - No. 2 System.

Improved seal rings on both ends of No. 3 and 4 Kilns.

Installed air exhaust at pusher spout at C-3 Mill.

Screw conveyor. Dust tight bin installed to handle #3 and #4 Systems dumper waste.

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1938 Installed new #4 Packer and spillage system, with air ventilation.

Started using lift truck and pallets for handling powder products.

Installed monitors in #1&2 Warehouse.

Installed line to return waste from #4 System recuperator to #3 blower intake.

1939 Exhaust system installed at Mortar Plant.

Installed new type gravity packer on #4 System with complete spillage handling equipment. Also hydraulic pallet hoist.

Installed line to return waste from #5 System recuperator to #3 blower intake.

1940 New type St. Regis Packer installed on No. 4 System. Alterations to firing end of No. 5 Kiln completed. - (Vent over No. 5 Kiln Road.)

Additional baghouse space installed on No. 3 System.

New type packers installed at No. 3 System and No. 11 Mill.

Additional baghouse hopper installed in connection with the recuperators for No. 3 System.

Estimate 30% of powder production being packed in paper bags.

All Powder Mill production handled on pallets.

Improved type valve bags used to reduce leakage.

Raise sides and enclose tops of #5 System crude bins to eliminate dust spillage.

1941 Raised Super Cal Baghouse Building, with raised roof sections for ventilation, and increased capacity of No. 3 and 4 System Baghouses.

Raised No. 11 Mill Baghouse Building with roof monitors and increased capacity of all Natural Baghouses.

Installed Snow Floss Plant.

Installed additional Wool Stockings in Natural baghouse.

Installed new direct air type sack cleaner new sack cleaning and mending room.

Installed hydraulic hoist and bag press for #5 System.

1942 System worked principally on new No. 5 System and No. 11 Recuperator installations.

Installed Ventilating blower and ducts in bending room in Sack Room

AL1 0336 0566

Installed concrete floors around Fowler Mills for better housekeeping.

1943

Installed new type baghouse at No. 11 Mill, with mining hoppers.

Installed Central Exhaust System on #5, #11, #4 and #8 Systems, power locations.

Installed Super Floss mining hoppers on #4 Dry Baghouse.

Installed Additional Baghouse for Mining Machines.

Installed additional concrete floors around Fowler Mills for better housekeeping.

Installed new refeeder at #11 Mill.

1944

Installed Stocking Shakers on #4 Dry Baghouse.

Usage of paper bags increased to about 60%.

Installed additional concrete floors around Fowler Mills for better housekeeping.

Installed hydraulic hoist and bag press for Snow Floss Plant.

In 1938 experimental work was started on methods for collecting the dust which escaped from #4 and #8 dust glory holes. At the present time an experimental unit of a cottrell precipitator is being installed in an attempt to find a better means for collecting the dust from the exhaust gases from the #1 Cyclones in #5, #4 and #8 Systems and #11 Mill.

In addition to the items listed above much work of a minor nature has been and is being done to prevent the escape of dust and to collect it efficiently when escape is unavoidable.

Employees are required to wear respirators where the need is indicated. Improved respirators approved by the bureau of mines have been tried out as they have appeared on the market and we have continued to purchase those giving the most comfort and satisfaction to the employees. Included in the list of those which we have tried out and used are the following:

#8 Wilson
#800 Wilson
#200 Wilson
Mines Safety Appliance Co. "Comfo"
R. F. McDonald Co. "Restfor"
American Optical Co. #8-81000
American Optical Co. #8-8100-T

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