



Mill Processing Operator

MINERAL PARK, INC.
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General, Applies to all Mill Processing Operators

Mill Processing Operators are responsible for maintaining a safe and clean work environment for operators and equipment in their area of responsibility. A safe and clean work environment has no immediate hazards to the well being of other employees performing their normal duties.

Mill Processing Operators must also ensure the well being of mechanical equipment in their area. This includes cleaning the equipment so that it operates properly. The operator must observe the equipment's operation and notify their supervisor if the equipment is damaged or operating in a sub standard way. Perform minor maintenance repairs

Successful candidates must have directly related experience in one or more stationary circuits. Priority will be given to Flotation Operators.

Crushing/Conveying

Operator

The crushing operator operates the primary crushing equipment including:

- Control Room Work Station
- Rock Breaker
- Apron Feeder
- Vibrating Grizzly
- Jaw Crusher
- Conveyor
- Tramp Metal Magnet
- Dust Collector
- Dust Suppression Spray System

The operator must crush enough rock to keep the mill fed continuously.

The operator may perform tests with empty cans to determine the setting of the Jaw Crusher.

This area of responsibility extends from the dump pocket to the head pulley of the stacker.

Grinding

Control Room Operator

The control room operator will control most plant operations through the DCS (Distributed Control System).

The operator must be familiar with the entire plant operation because the plant cannot be controlled by a person who does not understand it. The control room operator must monitor several process areas simultaneously and inform the Process Foreman of problems and plant status via radio.

The control room operator is the centralized contact person for all emergency communications in the process areas.

The Control Room Operator must mill enough feed to maintain production goals.

Operator, Grinding Floor

The Grinding Floor Operator operates the grinding equipment including:

- Reclaim Feeders
- SAG Feed Conveyors
- SAG Mills
- SAG Discharge Screen
- Ball Mills
- Cyclone Clusters
- Slurry Pumps
- Crane

The operator will be required to monitor the ore on the reclaim feeders to determine the amenability of each feeder to SAG mill throughput. The operator will provide feedback to the Control Room Operator regarding acceptable feeder speeds.

The operator will be required to monitor the SAG mill to provide feedback to the Control Room Operator regarding acceptable sound levels at the impact zone on the SAG belly.

The operator will be responsible for charging the mill after getting guidance from the Mill Foreman.

The operator will perform tests to determine if the milled ore is at the proper density (water content) and grind size.

The Grinding Floor Operator must help to mill enough feed to maintain production goals.

This area of responsibility extends from the reclaim feeders to the cyclone overflow launders.

Flotation

Cu Mo Flotation Operator

The Cu Mo Flotation Operator operates the copper/moly rougher and cleaner equipment including:

- Copper/Moly Rougher Flotation Cells
- Slurry Pumps
- Vertimill
- Cyclone Cluster
- Copper/Moly Cleaner Flotation Cells
- Crane

The operator will be required to monitor the flotation process and determine flotation performance. The operator will provide feedback to the Control Room Operator regarding acceptable pulp levels and reagent dosages.

The operator will perform tests to determine if the Vertimill product ore is at the proper density (water content) and grind size.

This area of responsibility extends from the Copper Moly Roughers through the Copper Moly Cleaners.

Mo Flotation / Reagent Operator

The Mo Flotation Operator operates the moly rougher and cleaner equipment including:

- Moly Rougher Flotation Cells
- Slurry Pumps
- Regrind mill
- Cyclone Cluster
- Slurry Pumps
- Moly Cleaner / Recleaner / Scavenger Flotation Cells
- Mo Concentrate Filter
- Crane
- Reagent Levels and pumps

The operator will be required to monitor the moly flotation process and determine flotation performance. The operator will provide feedback to the Control Room Operator regarding acceptable pulp levels and reagent dosages.

The operator will perform tests to determine if the Moly Regrind mill product ore is at the proper density (water content) and grind size.

The operator or helper will be responsible for charging the Regrind and Lime mills after getting guidance from the Mill Foreman.

The Mo Flotation/Reagent Operator will be required to assist and supervise drivers with reagent deliveries.

Concentrate Thickening and Filtration Operator

The Concentrate Thickening and Filtration Operator operates the concentrate thickening and filtration equipment including:

- Moly Middlings Thickener
- Moly Thickener
- Copper Thickener
- Slurry Pumps
- Water Pumps
- Moly Concentrate Storage Tank
- Copper Concentrate Storage Tank
- Moly Conditioning Tanks
- Moly Concentrate Filter
- Copper Concentrate Filter

The operator will be required to monitor the thickeners and determine performance. The operator will provide feedback to the Control Room Operator regarding acceptable bed levels and underflow densities.

The operator will be required to monitor the filters and determine performance. The monitoring will include cake appearance, cake moisture, cake release, filter cloth integrity (holes) and filter cloth quality (blinding).

The operator may need to alter the filter cycle to enhance filter performance. This may include adjusting filter fill or blow down time.

When required, the operator will need to trouble shoot problems that prevent filter operation. Alarm information will be available to assist in this.

The operator will be required to replace damaged filter cloths.

This area of responsibility extends from the Concentrate Thickeners through the Concentrate Filters.

Tails

Tailings Operator

The Tailings Operator will be required to monitor the tailings thickener, flow to the tails dam and the Reclaim Water circuit.

The Tailings Operator operates:

- Skid Steer Loader
- Forklift
- Loaders and Track dozers
- Hand Tools including Shovels, Wheel Barrows and Brooms
- Wash Down Hoses
- Crane
- Reagents
- Flocculent mixing and addition to the Tails Thickener
- Thickener Underflow Pumps

The Tailings Operator will be required to monitor the thickeners and determine performance. The operator will provide feedback to the Control Room Operator regarding acceptable bed levels and underflow densities.

The Tailings Operator will need to observe tailings spigots to ensure that the Dam is operating properly. Included in this is the need to move clarified water towards the reclaim pumps, prevent tails slurry short circuiting and evenly fill the dam with settled solids.

The operator will need to communicate observations to the Control Room Operator.

The Tailings Operator's area of responsibility includes the Tailings Thickeners and the Tails Dam.