

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for general housekeeping at the Piñon Ridge Mill.

2.0 APPLICABILITY

This procedure applies to the Ore Truck Dumping Platform, One-Acre Ore Pad, Truck Wash Station, Sedimentation Trap, Ore Handling and Conveying, Pulp Storage and Pre-Leach, Grinding and Leach Building, CCD Thickener Area, Solvent Extraction Building, Precipitation and Packaging Building, Reagent Storage, Reagent Unloading Areas, Tailings Cells, Evaporation Ponds, Stormwater Ponds, Administration Building, Guard House, Truck Scale, Substation, Access Road and Parking Areas, Truck Maintenance Building, Change Room/Lab, Water Wells and Gathering System, and Monitoring Stations. The work to be performed, if non-routine, may also be subject to the Radiation Work Permits Procedure.

3.0 EQUIPMENT

3.1 EQUIPMENT

- 3.1.1 Janitorial equipment such as brooms, dust mops, floor mops and buckets.
- 3.1.2 Hand tools and equipment such as shovels, rakes, wheelbarrows, hoses, nozzles.
- 3.1.3 Heavy equipment such as a skid steer and loader.
- 3.1.4 Personal Protective Equipment (PPE). Standard site PPE includes identity and safety badges, hardhat, safety glasses, gloves and steel-toe boots.

3.2 MATERIALS

- 3.2.1 Plastic bags
- 3.2.2 Paper towels
- 3.2.3 Rags
- 3.2.4 Window cleaner
- 3.2.5 Disinfectants
- 3.2.6 Liquid detergents.

4.0 OTHER DOCUMENTS

4.1 REFERENCES

- 4.1.1 Radiation Work Permits Procedure RH-060.
- 4.1.2 Alpha and Beta-Gamma Contamination Surveys Procedure RH-120.

5.0 RESPONSIBILITY

5.1 The Radiation Safety Officer (RSO) is responsible for:

- 5.1.1 Reviewing any non-routine housekeeping requirements and determining the need for a Confined Space and/or Radiation Work Permit.

APPROVALS	<i>Signature</i>	<i>Date</i>
GMF		
Plant Manager		

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5.1.2 Scheduling area contamination surveys in accordance with the Alpha and Beta-Gamma Contamination Surveys Procedure RH-120.

5.2 The General Mill Foreman is responsible for:

5.2.1 Ensuring that the Mill Foremen, Maintenance Foreman, Chief Lab Chemist, and Plant Metallurgist maintain general housekeeping practices on a shift or daily basis.

5.2.2 Inspecting the Piñon Ridge site and discussing the need for non-routine house cleaning with the appropriate personnel.

5.3 The Mill Foremen are responsible for:

5.3.1 Having all necessary materials and supplies in place for maintaining good housekeeping practices.

5.3.2 Ensuring that the processing areas inside the license boundary and ore truck dumping platform are cleaned prior to end of shift and, if general housekeeping is not completed, alerting the next shift's Mill Foreman that a particular area requires additional attention.

5.3.3 Documenting that the mill personnel completed general housekeeping before end of shift.

5.3.4 Verifying that all equipment and material used for general housekeeping is removed and returned to its proper storage location.

5.4 The Maintenance Foreman is responsible for:

5.4.1 Having all necessary materials and supplies in place for maintaining good housekeeping practices.

5.4.2 Ensuring that the Administration Building, Guard House, Truck Scale, Substation, Access Road and parking areas, Truck Maintenance Building, Change Room/Lab, Water Wells and Gathering system and Monitoring Stations areas are maintained in a clean and orderly manner. Some areas may require shift or daily housekeeping, while other areas may require general housekeeping on a monthly or quarterly schedule.

5.4.3 Documenting that the maintenance/lab personnel completed general housekeeping before end of shift.

5.4.4 Verifying that all equipment and material used for general housekeeping is removed and returned to its proper storage location.

6.0 PREREQUISITE INFORMATION

6.1 SAFETY

6.1.1 See Piñon Ridge Mill Health and Safety Plan.

6.2 FREQUENCY

6.2.1 The General Mill Foreman will inspect various areas of the mill during routine travel in and around the Piñon Ridge Mill. Good housekeeping will be practiced daily within the mill license boundary and select adjoining facilities. Outlying facilities may require housekeeping quarterly or bi-annually depending on seasonal fluctuations.

6.2.2 Area contamination surveys shall be conducted in accordance with Procedure RH-120 on a weekly basis at locations designated by the RSO.

Surveys may be conducted more frequently and in more areas in the early phases on Mill operation to establish baseline conditions and identify areas of concern.

7.0 PROCEDURE

7.1 *NON-ROUTINE HOUSEKEEPING PLANNING PROCEDURES*

- 7.1.1 The General Mill Foreman will plan and schedule non-routine housekeeping requirements.
- 7.1.2 The RSO will determine the applicability of the Radiation Work Permits Procedure RH-060 based on the enhanced requirements of non-routine housekeeping.
- 7.1.3 The Mill Foreman will notify the General Mill Foreman and RSO that the area(s) scheduled for non-routine housekeeping is available.

7.2 *GENERAL HOUSEKEEPING PROCEDURES*

7.2.1 Area 100- Ore Handling, Grinding, Pulp Storage and Pre-Leach

7.2.1.1 Ore Truck Dumping Platform

Clean the ore truck dumping platform of any spillage after the last ore truck has delivered and dumped its load of ore at the end of the day and/or if a major spill should occur during the dumping cycle. Wet any spilled ore material using a hose and then push or load the ore in the skid steer bucket and deliver to the Five-Acre Ore Pad through the openings in the truck dumping wall. Hand shovels may also be used for this task if spillage is minimal. Utilizing a high-pressure water hose, wash debris off the ore truck dump concrete apron onto the ore pad through the truck dumping wall openings on weekly basis, or more often if tracking occurs.

7.2.1.2 One-Acre Ore Pad

Remove stockpiles of ore with the front-end loader from the portion of the One-Acre Ore Pad that is to be cleaned. "Sweep" the One-Acre Ore Pad with the skid steer and place the material on the Five-Acre Ore Pad. If the pad is to be inspected for cracking, utilize high-pressure hoses to wash off the One-Acre Ore Pad while directing the wash water to the Five-Acre Ore Pad.

7.2.1.3 Coarse Ore Feed

Utilize high-pressure hoses to wet large spills in the coarse ore feed reclaim area. Shovel the spillage onto the conveyor belt feeding the SAG Mill vibrating feeder. Utilize high-pressure hoses to wash the coarse ore feed reclaim area and tunnel from the high point to the low point including conveyor steel, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.

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7.2.1.4 Grinding

Utilize hoses to wet large spills that may have dried out in the grinding area. Shovel the spillage into the skid steer bucket and transfer the contents to the One-Acre Ore Pad for blending with Run of Mine ore feed and re-entry into the SAG Mill circuit. Utilize high-pressure hoses to wash the SAG Mill grinding bay from the high point to the low point including process equipment and process equipment supports, piping, conveyor steel, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.

7.2.1.5 Pre-Leach

Utilize high-pressure hoses to wash the Pre-Leach area from the high point to the low point including process equipment and process equipment supports, piping, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.

7.2.2 Area 200- Leaching

7.2.2.1 Leach Tanks

Utilize high-pressure hoses to wash the Leach Tank area from the high point to the low point including process equipment and process equipment supports, piping, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.

7.2.3 Area 300- Counter Current Decantation (CCD) and Tailings Pumps

7.2.3.1 Counter Current Decantation Thickeners/Tanks

Utilize high-pressure hoses to wash the CCD Thickener area from the high point to the low point including process equipment and process equipment supports, piping, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.

7.2.3.2 Tailings Pumps

Utilize high-pressure hoses to wash the Tailings Pumps area from the high point to the low point including process equipment and process equipment supports, piping, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.

- 7.2.4 Area 400, 600- Uranium and Vanadium Solvent Extraction
- 7.2.4.1 Uranium Extractors, Strippers, Filters and Tanks
Utilize high-pressure hoses to wash the Uranium Solvent Extraction area from the high point to the low point including process equipment and process equipment supports, piping, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.
- 7.2.4.2 Vanadium Extractors, Strippers, Filters and Tanks
Utilize high-pressure hoses to wash the Vanadium Solvent Extraction area from the high point to the low point including process equipment and process equipment supports, piping, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.
- 7.2.5 Area 500, 700- Uranium and Vanadium Precipitation and Packaging
- 7.2.5.1 Uranium Precipitation, Thickening, Drying and Packaging
Utilize high-pressure hoses to wash the Uranium Precipitation, Thickening, Filtering, Drying and Packaging area from the high point to the low point including process equipment and process equipment supports, piping, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.
- 7.2.5.2 Vanadium Precipitation, Filtering, Converting and Packaging
Utilize high-pressure hoses to wash the Vanadium Solvent Extraction area from the high point to the low point including process equipment and process equipment supports, piping, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.
- 7.2.6 Area 800- Reagents
- 7.2.6.1 Dry and Wet Storage/Mix Tanks, Pumps and Piping
Utilize high-pressure hoses to wash any reagent areas after delivery or preparation of reagents from the high point to the low point including process equipment and process equipment supports, piping, platforms, ladders, stair stingers, structural supports and floor. Flush the floor sump and pump with additional water and maintain a water level in the floor sump adequate to fully cover any solid materials.

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7.2.7 Area 900- Utilities and Buildings

7.2.7.1 Substation, Water Wells and Gathering System, Administration Building, Guard House, Truck Maintenance Building and Change Room/Lab

Pick up any man made trash or natural debris at the Substation, Water Wells or Water Wells gathering tanks, pumps and pipe lines and dispose of off site. Grade the Water Wells utility roads after storm events or change of season from winter to spring. Utilize steam cleaning equipment to periodically clean the showering facilities in the Change Room. Clean the restrooms and wet mop the Administration Building, Change Room and Lab floors. Maintain the Change Room/Lab man door aprons in a clean fashion to prevent the tracking of dirt and mud into the Change Room/Lab.

7.2.8 Area 1000- General Plant

7.2.8.1 Truck Scale, Access Road and Parking Areas, Fencing, and Monitoring Stations

Pick up any man made trash or natural debris along the access road, parking areas, truck scale, monitoring stations and fence line and dispose of off site. Grade the access road and/or parking areas after major storm events or change of season from winter to spring. Treat the access road and parking areas with magnesium chloride or equivalent dust suppressant as needed.