

MAP CODE
EQUIP

EQUIPMENT SELECTION

USE Dust
Noise
Emergency
Spill Response

What

- Selecting equipment based on its energy consumption, noise output, exhaust configuration, compatibility with other equipment on site, and compatibility with approved mine plan.

Purpose

- To reduce energy consumption, noise and dust emissions, and the costs of replacement parts for each piece of equipment purchased.



OR



Where

YES: All fixed and mobile plants.

Materials Equipment & Costs

- ✂ N/A
- ✂ N/A
- \$ Varies. Equipment with noise and dust control options may increase costs.

Plans & Spec's

- Consider drive-by noise.
- Consider upswept exhaust. Exhaust directed to the ground can create dust.
- Can the direction of the exhaust be rotated so that during peak outputs, such as power lifting from a stockpile, the noise of the exhaust is directed away from a neighbour?
- Is the equipment designed for ease of capture and proper disposal of used fluids and waste materials such as oils, coolants, filters, batteries and tires?
- Select equipment that produces low levels of emissions. Some advanced engines are able to produce greater torque at lower revolutions per minute (RPMs) than conventional engines, while creating fewer emissions.
- Where applicable, use biodegradable hydraulic fluids. These products are comparable to conventional oils in price, use the same seals and filters, are non-toxic, and can mix with mineral oil to allow for changes in the field.
- Does the equipment come with its own spill kit?
- Does the loader capacity match truck capacity?
- Does the loader (crusher, wash plant, etc.) have the necessary capacity to meet production goals within the hours of operation allowed by the local government?

- Does the wash plant recover all saleable material in order to reduce sediment going to the settling pond?
- Does an excavator provide greater reach to permit higher benches?
- Would larger trucks result in fewer trips to reduce traffic impacts?
- Would smaller trucks result in less noise, dust and vibration generation?

Maintenance

- Establish a regular maintenance schedule according to manufacturer's guidelines.