

GUIDANCE FOR EMPLOYERS ON CONTROLLING **EXPOSURE TO RCS IN THE WORKPLACE**

GOOD PRACTICES FOR SCREENING

This activity covers the dry screening of products containing crystalline silica.



ACCESS

Restrict access to the work area to authorised personnel only.



A DESIGN AND EQUIPMENT

- Ensure the dry screening equipment is fit for purpose and that it is well maintained.
- Screens should be enclosed as far as possible.
- Screen enclosures should be connected to a suitable dust extraction system (e.g. bag filter/cyclone/scrubber).
- Flexible hoses should be used to connect screen enclosures to the extraction system. These hoses must be durable (due to the constant motion of the screen) and must be properly sealed onto the screen enclosure. Any gaps will reduce performance of the extraction system and result in dust emissions into the workplace air.
- Transfer points, between screens and conveyors, should be sealed as far as possible and served with dust extraction systems.
- Ensure that screening equipment is designed and installed so as to be easily accessible for maintenance work.
- Control cabins should have their own clean air supply. Where necessary, they should be fitted with forced air filtration and maintained under positive pressure to prevent the ingress of dusty air.
- Screens should be equipped with lifting aids for use when lifting and positioning new screens.

< MAINTENANCE

- Ensure equipment used in the task is maintained as advised by the supplier/installer in efficient working order and in good repair.
- Replace consumables (filters etc.) in accordance with the manufacturer's recommendations.



EXAMINATION AND TESTING

- Visually check the equipment at least once per week for signs of damage or, if it is in constant use, check it more frequently. If used infrequently, then check it before each use.
- Obtain information on the design performance of the dust suppression and/or extraction equipment from the supplier. Keep this information to compare with future test results.
- Keep records of inspections for a suitable period of time which complies with national laws (minimum five years).
- Check on a regular basis that extraction ducting and flexible hoses are not obstructed.
- Put in place measures to control the risk of bacterial growth within water sources used across site, focusing most on systems where water droplets will be generated.



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CLEANING AND HOUSEKEEPING

- Clean your workplace on a regular basis.
- DO NOT clean up with a dry brush or using compressed air.
- Use vacuum or wet cleaning methods.

TRAINING

- Give your employees information on the health effects associated with respirable crystalline silica dust.
- Provide employees with training on: dust exposure prevention; checking controls are working and using them; when and how to use any respiratory protective equipment provided and what to do if something goes wrong. Refer to task guidance sheet
 2.3.4 and part 1 of the Good Practice Guide.

SUPERVISION

- Have a system to check that control measures are in place and that they are being followed. Refer to task quidance sheet 2.3.3.
- Employers should make sure that employees have all the means to perform the checklist given below.

PERSONAL PROTECTIVE EQUIPMENT

- Refer to task guidance sheet 2.1.15 dedicated to Personal Protective Equipment.
- Risk assessment must be carried out to determine whether existing controls are adequate. If necessary, respiratory protective equipment (with the appropriate protection factor) should be provided and worn.
- Provide storage facilities to keep personal protective equipment clean when not in use.
- Replace respiratory protective equipment at intervals recommended by its suppliers.

EMPLOYEE CHECKLIST

Make sure the screening equipment is working properly. Make sure the dust extraction system is switched on and is working correctly. Check that screen enclosures are securely connected to the extraction system and that the flexible hoses are in good condition.	Look for signs of damage, wear or poor operation of any equipment used. If you find any problems, tell your supervisor. If you think there is a problem with your dust control equipment, ensure additional control measures are taken to reduce exposure to respirable crystalline silica while the problem persists.	Use handling aids when available. Clear up spills straight away. Use vacuum or wet cleaning methods. Clean up control rooms using vacuum or wet cleaning methods.	Use, maintain and store any respiratory protective equipment provided in accordance with instructions. Check and implement the measures of controlling the risk of bacterial growth within water sources used across site, focusing most on system where water droplets with be generated.

This guidance sheet is aimed at employers to help them comply with the requirements of workplace health and safety legislation, by controlling exposure to respirable crystalline silica. Specifically, this sheet provides advice on dust control for dry screening operations.

Following the key points of this task guidance sheet will help reduce exposure.

Depending on the specific circumstances of each case, it may not be necessary to apply all of the control measures identified in this sheet in order to minimise exposure

to respirable crystalline silica. i.e. to apply appropriate protection and prevention measures. This document should also be made available to persons who may be exposed to respirable crystalline silica in the workplace, in order that they may make the best use of the control measures which are implemented.

This sheet forms part of the Good Practices Guide on silica dust prevention, which is aimed specifically at the control of personal exposure to respirable crystalline silica dust in the workplace.