#### "Silica" Social Dialogue Agreement Respirable Crystalline Silica





## **EU Social Dialogue Agreement**

## **Implementing the Good Practices**

Martin Isles Director, Health and Safety, QPA

# Structure of the Agreement

## **Agreement : 15 Articles**

- Annex 1: "Good Practice Guide"
  - Annex 2: Dust Monitoring Protocol
  - Annex 3 : Reporting Format
  - Annex 4 : List of Research Projects
  - Annex 5 : Descriptions of Industries
  - Annex 6 : The Council Secretariat
  - Annex 7: Procedure for the Adaptation of the Good Practices
  - Annex 8 : Health Surveillance Protocol for Silicosis







"Silica" Social Dialogue Agreement

## **Good Practices Guide**



### Part 1: RCS Essentials

- Preamble .... and Note to Users
- Introduction

"Silica"

Social

Dialogue

Agreement

- Silica and the silica industry
- RCS dust and its health effects
- Risk management What do I need to do?

Risk Assessment process - aimed primarily at :employers

### Part 2: Task Manual

- Introduction
- Task Guidance Sheets

Aimed at both :-

employers and the workforce





## Covers entire production and use of crystalline silica and materials/products/raw materials containing crystalline silica

This means :-

- not just what you quarry or process
- but what you 'import' and process, e.g.:
  - > sand
  - > hard stone (granite, gritstone, quartzite, dolerite, etc.)
  - > cement

NB: LIMESTONES can contain chert with up to 12% crystalline silica







#### **2 basic questions:**

*What do you quarry?* What is its percentage of 'free' crystalline silica?

What do you 'import'? Sand? Gritstone? Granite? Quartzite? Dolerite?

You need to take account of all materials produced or processed on your site

You need to consider the whole workforce, not just those directly employed



### What do I need to do?

#### **Question 1**:

How do I determine whether people are exposed to respirable crystalline silica dust in my workplace?





## What do I need to do?

#### **Question 3**:

I have done my exposure assessment, but I'm not sure how to interpret the results. What do I need to do now?





#### "Silica" Social Dialogue Agreement

## Agreement is ▶ bi-partite ◄

### **Employers**

### Employees

- consult
- inform
- instruct
- train
- involve

- co-operate
- participate
- communicate

Where respirable crystalline silica is airborne ......

'Clear' air ≠ 'safe' air

..... the particles are mostly too small to be seen by the human eye



Social Dialogue greement <b>Ty</b>	pical Task Sh		nployee necklist
2.2.28	Quarry mobile plant - excavation & haulage	Maintenance ✓ Maintain the air conditioning system as advised by the suppler, in effective and efficient variang order. ✓ The air conditioning filter should be charged each time it is deemed necessary and at least at intervals advesed by the manufacture. Examination and testing	Employee oheokilistor making the bestuse of the controls Masp the cab doors and windows cored at all turnes when the machine
This guidance sheet is alreed at employers to help them comply with the negativements of workplace health are series legislation, by controling explosure to negativable crystalline allice.	movement of vehicles across the quary floor and on haul     Access     Postrict access to the work area to authorised personnel     only.     Design and equipment	<ul> <li>Machine drivers must check that the air conditioning system is working within accepted parameters.</li> <li>Machine operators should check the condition of the filter (asually located bahine) the driver's seat) as recommended by the manufacturer.</li> <li>Any faults with the air conditioning/filtration system must be reported as soon as possible so that remedial action can be taken.</li> </ul>	<ul> <li>In operation.</li> <li>Monitor the performance of the air conditioning system each time the machine is used.</li> <li>Check the condition of the airfifter once a week.</li> </ul>
Specifically, this sheet provides advice on the design and use of mobile glashi in a quark, Pollowing the key points of this task sheet will prevent personal according to the dust released into the air during quary mobile glast operations, including exclusion and haulage. Departing on the specific cincumstances of each case, it may not be receivery to apply all of the control measures identified in this sheet in order to reduce excepture to	<ul> <li>Little can be done to prevent the generation of airborne date during activities using mobile plant, so control of expense rolles upon enclosure of the machine operator in an enclosed, sealed call.</li> <li>The call should be equipped with air conditioning or fresh air supply, find with na air filter that is designed to withstand a high leading of respirable dust particles.</li> <li>In order for the air conditioning system or fresh air supply to provide the paradet provides protocol to be been at without the call times while the air conditioning in the plant.</li> </ul>	Cleaning and housekeeping     A build up of fine dust on the internet surfaces of the     divers's cash might suggest a problem with the air     conditioning system.     Preference should be given to the use of vacuum or wet     cleaning methods. Avoid using a dy bush when dearing     the internet surfaces of the diver's cals.     Personal Protective Equipment     Refer to task sheat 2.1.12. depaying to Personal Protective     Eguernet.	Keep records of all setting checks on a daily check sheat.     Look for signs of dust build up on the surfaces of the cab. This maybe a sign that the airfilter is in picor condition.     If you think there is a product word ust.
an acceptable level. This document should also be made available to perpenti who may be exposed to neglitable crystalline silica in the workplace, in order that they may make the best use of the contoil massures which are implemented.	<ul> <li>operation. This will help to maintain the cab under peak to pressure.</li> <li>Where presents, thing of extraction operations, to coincide with the wetter seasons of the year, will help to reduce airforme dast generation.</li> <li>In dry weather, us a spray mist dust suppression in order to help reduce aeborne dust generation. Repeak may be fitted with a mist boar mounted on the repeakhers.</li> </ul>	<ul> <li>Pisk, assessment must be carried out to check the offectiveness of control measures. Respiratory protective equipment (with the appropriate protection factor) may made to be warn temporanly in the event control measures fail.</li> <li>Provide stange facilities to keep personal protective equipment class when not in use.</li> <li>Replace respiratory protective equipment at intervals recommended by its suppliers.</li> </ul>	control equipment, ensure additional control measures are taken to neduce expectations negotable crystalline silica while the problem pensists. Keep the interior of the cabin clean.
This sheet forms part of the Good Practices Guide on allos dust prevention, which is aimpt specifically at the centrel of personal exposure to respirately cystalline silicadust in the workplace.	matransin.	Training <ul></ul>	<ul> <li>Use, maintain and store any respiratory protocilive equipment provided in accordance with instructions.</li> </ul>
	January 2006	<ul> <li>Have a system to check that dust control measures are in place and that they are being followed.</li> <li>Employees shadt make switch amployees have all the means to perform the checklest given opposite.</li> </ul>	





- Well-defined Job Function 'multi-skilled' if <50% of time in 1 job
- Sampling Duration - full shift (7 or 8 hours)
- Samples per Job Function minimum 6 (for statistical purposes) Lesser number for compliance with national legislation, or prevention
- Quartz Analysis

- X-ray Diffraction or Infra-red Spectroscopy
- Full Documentation
- equipment & procedures
- Accredited Laboratories - for quartz analysis (quality & validity) alternative is for labs to join inter-laboratory comparison exercise



"Silica" Social Dialogue Agreement

## The work starts now!!



### Do <u>you</u> have these on <u>your</u> site?

#### 'Plumbed-in' dust extraction must become the norm for all new plant designs









#### "Silica" Social Dialogue Agreement

## The work starts now!!!











Stand-alone filter





#### "Silica" Social Dialogue Agreement Benefits of Agreement



- ✓ Will provide high level of worker protection whilst avoiding over-restrictive, unrealistic & unnecessary legislation
- ✓ Improved public image of a responsible industry
- ✓ Confidence of the Trades Unions that the Agreement is sound
- ✓ Better relations with :
  - national & local authorities
  - investors
  - insurance companies





For more details please contact : Martin Isles, QPA

*Tel:* +4420 7963 8000

e-mail: isles@qpa.org

Thank you for your attention

Dundalk 2006