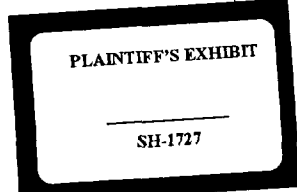


740.1



January 15, 1985

J. Massey

These guidelines have been reviewed by several DPMC groups and in general reflect a consensus of where we should be on silica sandblasting inside tanks. A draft copy was previously provided to Maintenance North. The issue of requiring contractor medical exams has been resolved. H/S Operations advises that the contractor only be made fully aware of what we do for our people. The choice is theirs.

- cc: O. Chappell
- ~~R~~. DeRick
- T. Gillespie
- M. Helm
- T. Roberts
- B.T. Waggoner
- ECB Satellite
- PJS Chron

Phil Snyder

P. J. SNYDER

LAM 017924

Handwritten calculations:
50
20
1000
1020/16
102
12000/1000
120
1000
120000

HEALTH AND SAFETY WORK PRACTICE GUIDELINE

Title: Requirements For Silica Sandblasting
Inside Tanks At DPMC

Reviewed By: DPMC Health and Safety	Developed: <u>1/1984-85</u>
Health & Safety Operations	<u>Month/Year</u>
Corporate Medical	Application: <u>DPMC Complex</u>
DPMC Maintenance North	

I. Contractor employees who are engaged in silica sandblasting operations are to be:

1. Trained in the specific health & safety hazards of silica sandblasting and the required procedures.
2. Free of facial hair in the sealing surface of respirator that may be required.

II. Procedures shall be instituted to minimize silica exposure to employees by:

- 1
 - a. For sandblasting inside tanks - roping off the tank area at the firewall with rope and signs. Adjacent roadways are also to be blocked as necessary to preclude traffic passing any through airborne silica dust.

b. Signs posted shall state:

CAUTION SILICA SANDBLASTING
INHALATION HAZARD
RESPIRATORY PROTECTION REQUIRED

LAM 017925

2. Air compressor to be located and maintained upwind of any dust emissions. Requirements of a breathing air compressor apply:
 - a. Exhaust stack to be separated from intake (8 ft.)
 - b. Particulate filter to be maintained in-line between compressor and mask.
 - c. Carbon monoxide measurements to be performed monthly on each compressor in use or at least once during each different sandblasting job.
3. A pre-job orientation to review the procedures and expectations. A representative of Health and Safety is to be notified prior to this meeting of the planned work.
4. Hearing protection is required at all times during sandblasting or as may be required because noise levels exceed 90 dBA.

5. Filters are to be installed on tank blowers to minimize downwind dust levels.
6. Silica sandblasting outside of tanks is not generally permitted.
7. The Safety Permit issued is to state that special procedures for silica sandblasting must be followed (copy to be provided to the contractor).
8. The responsible department is to audit the performance of the contractor on each job relative to the required Health and Safety practices.

III. Equipment used for silica sandblasting is to meet minimum requirements which is to include:

1. Blasters to wear NIOSH approved airline hoods; also required of other personnel who enter tanks when blasting is underway. An air purifying disposable dust mask is to be worn under the airline hood as supplemental protection.
2. NIOSH approved air purifying respirator required to be worn by pot man and ancillary personnel inside the roped off area during sandblasting.
3. Non-disposable respirators to be cleaned daily as per OSHA regulation. Prior to each use the inside of each sandblasting hood is to be free of visible dust, and accumulations of dirt.
4. Requirements of OSHA Respirator Regulation 1910.134 apply.

IV. Additional requirements for Shell employees engaged in silica sandblasting:

1. Shell employees are to be qualified medically to work with silica. Pulmonary function exams, chest xrays and appropriate other medical tests shall be given annually to detect any early signs of pulmonary effects.

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