

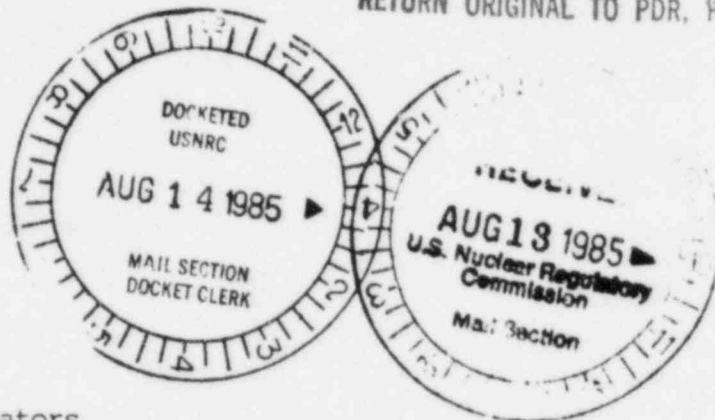
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40-8084

RETURN ORIGINAL TO PDR, HQ.

May 28, 1985

Procedure



Full facepiece air supplied respirators

Description: All full-facepiece airline supplied respirators used at the Lisbon mill are manufactured by Mine Safety Appliance Company (MSA). The regulators and other materials or parts are also manufactured by MSA and are designed specifically for use with this system. These respirators are of a continuous flow design.

The belt mounted airflow regulators are designed to operate at a positive line pressure of 35 to 40 psi. This regulator allows the respirator wearer to adjust the flow of air into his or her respirator as desired.

The system is designed so that 25 to 300 feet of hose may be used between the belt mounted regulator and the air supply manifold. The pressure at the air supply manifold must be maintained at 35-40 psi.

The MSA full facepiece airline supplied respirator system as described above has been assigned MSHA approval number TC-19C-78.

The above system, when properly used has been assigned a protection factor of 2000. This protection factor can be used to determine employee exposures only when using data from airborne samples collected outside of the respirator.

Respirators other than those manufactured by MSA may be used at anytime

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C PDR

**FEE EXEMPT**

DESIGNATED ORIGINAL

Certified By Mary C. Hood

*Add Info*  
00826

### Issuance

Full facepiece respirators will be issued only after the hazards in the work place have been identified and evaluated.

Prior to each use the respirator must be fit tested to the individual wearer by introducing he or she to a challenge atmosphere of irritant smoke.

Upon completion of the work project the respirator will be returned to the environmental laboratory.

### Operations of an Air Line Supplied Respirator

The manifold that is used to distribute air to the different airline supplied respirators will be connected to the instrument air system. Instrument air is supplied to the mill area in a separate distribution system which has been filtered and the pressure reduced to 60 psi.

Prior to installing the distribution manifold, the instrument air system must be purged by opening the control valve for no less than one (1) minute. This process will flush the line of any particulate material and will be an indication that an adequate air supply does exist.

The respirator distribution manifold will then be attached to the instrument air line. The flexible air line will then be attached to the manifold. At this point the entire system that has been added must also be purged by opening all valves and regulators to the wide open position for no less than one (1) minute.

After purging, the open end of the air line will be attached to the belt mounted air flow regulator. At this time the pressure regulator on the distribution manifold must be adjusted to 35-40 psi. This setting establishes a line pressure in the flexible hose that meets the manufacturer's specifications for this type of respiratory protection equipment.

if they are approved by MSHA and used according to manufacturer's guidelines.

#### Cleaning and Inspection

After each use every full facepiece respirator will be properly cleaned and inspected prior to being reused.

Each respirator will be partially disassembled before cleaning. All hoses and regulators will be removed from the respirator body and cleaned separately. The body of the respirator will then be cleaned by hand or in a dishwasher, used for this purpose.

After cleaning and drying, each part of the respirator will be inspected for wear, serviceability and cleanliness. A removable alpha radiation survey will then be performed on those surfaces that will directly affect the quality of air being breathed. If the results of the survey indicate removable contamination in excess of  $50 \text{ dpm}/100\text{cm}^2$  the respirator will be rewashed. Any non-serviceable parts will be replaced.

During reassembly, the respirator will be inspected for damage and the ability to provide adequate respiratory protection. Special attention will be given to the operation of valves, headstraps, facepieces and any condition that will allow undesirable leakage of air into or out of the respirator.

#### Storage

When the respirators have been cleaned and inspected they will be placed in a plastic bag for storage. A label with the date and initials of the person cleaning the respirator will be attached to the bag. They will be stored in the environmental laboratory until they are used.

The user will then put the respirator on and adjust the pressure inside of the mask to his specific needs and comfort. This adjustment will be made via the flow regulator mounted on the user's belt.

Prior to entering the assigned work area, the employee must be checked for proper respirator fit by being subjected to a challenge atmosphere of irritant smoke. A proper fit must be demonstrated before work begins.

At all times when air supplied respiratory protection equipment is used a second individual must be standing by to offer assistance in case an emergency situation arises.

#### Air Quality

The quality of air used for human consumption must be equal to or greater than those specifications set forth in ANSI standard Z86.1-1973 "Commodity Specifications for Air". As a minimum the specifications for grade "D" quality air must be met.

##### Grade D Air Specifications

Oxygen	19.5-23.5%
Hydrocarbons	5ppm
Carbon Monoxide	20ppm
Carbon Dioxide	1000ppm

Determinations of air quality must be made at least annually.

## PREVENTIVE MAINTENANCE WORK ORDER

OUT

OUT

OUT

Compressors/Receivers

PROPERTY NO.

DATE ISSUED

ITEM

SERIAL NO.

DEPARTMENT

LOCATION

DATE COMPLETED

C/R

71-50-00

FREQ CODE

1	ANNUAL
2	SEMI-ANNUAL
4	QUARTERLY
6	BI-MONTHLY
12	MONTHLY
26	SEMI-MONTHLY

PREV. MAIN. SCHEDULE

WEEK

MISC.	LUB.	ELEC.	MECH.	RED	BLU
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				1	27
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				2	28
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				3	29
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				4	30
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				5	31
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				6	32
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				7	33
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				8	34
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				9	35
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				10	36
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				11	37
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				12	38
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				13	39
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				14	40
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				15	41
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				16	42
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				17	43
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				18	44
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				19	45
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				20	46
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				22	48
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				23	49
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				24	50
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				25	51
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				26	52
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NOTE: DO ENCIRCLED OPERATION NUMBERS ONLY

OPER. NO.	FREQ. CODE	"✓" OK	"X" SEE NOTE	NO'S	1	2	3	4	5
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M			Mechanical						
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M1	12		Check all bolts and nuts for tightness						
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M2	12		Check cylinder oiler for operation						
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M3	12		Check operation of inner cooler						
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M4	12		Inspect piston rod scraper and packing						
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M5	12		Check unloader system for operation						
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M6	12		Record Hour Meter Readings						
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			Present						
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			Previous						
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M7	12		Check pop-off safety valve for operation						
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M8	12		Inspect 1st stage head for excessive						
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			valve noise and leakage						
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M9	12		Inspect 2nd stage head for excessive						
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			valve noise and leakage						
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M10	12		Inspect crankcase and cylinder oiler						
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			gears for noise and leakage						
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M11	12		Inspect for signs oil leakage between						
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			motor and crankcase						
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M12	12		Inspect all bearings for noise and signs						
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			of overheating						
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M17			Change oil at 4000 hr. interval-Due( )						
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M20	4		Change oil in air filters						
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M22	1		Check clearances between piston and						
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			cylinder						
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M23	1		Check wear on crosshead						
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M25	12		Inspect two (2) pop-off valves for						
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			proper operation on each of the air						
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			receiver tanks						
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M26	12		Inspect receiver tanks for signs of leak						
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M27	12		Inspect the overall tank for general						
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			condition						
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