Ontario

Ministry of Labour, Immigration,
Training and Skills Development
Mining Health and Safety

Shaft Inspection Record Book

No. 140 R-1

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When printing on 11 x 17 size paper (also known as Tabloid or Super B), follow these steps for optimal results:

1. Load the Paper:

Make sure your printer supports 11 x 17 paper.

Load clean, unused paper into the input tray with the short edge forward and the print side down.

Adjust the paper width guides to rest against the paper stack.

2. Printer Driver Settings (Windows):

Adjust the settings based on your print job:

Plain Paper: For everyday printing.

Photo Paper: For high-quality photo prints.

Brochure: For professional-looking brochures.

Edge-to-Edge: For borderless printing.

You can change the default paper size for all print jobs in your printer settings.

3. Printer Driver Settings (Mac OS X):

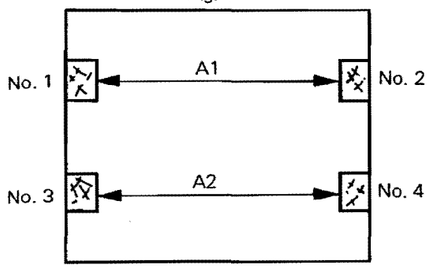
Use the printer icon or the HP folder to access settings.

Select the appropriate paper type and size.

Remember to check the paper packaging for the correct type and size. Happy printing!

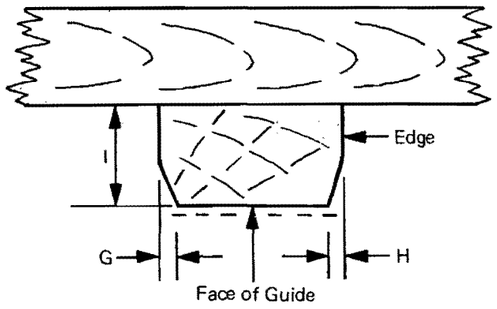
Measurement for Wooden Guides in a Mine Shaft

Fig. 1



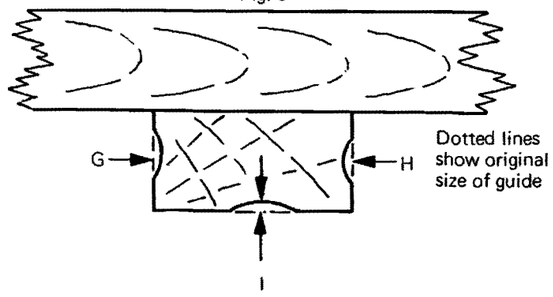
Show hoist location or North arrow to identify guide numbers in the compartment

Fig. 2



Wear Pattern for Conveyance Shoes

Fig. 3



Wear Pattern for Conveyance Rollers

Guide Measurements

It is recommended that maximum wear measurements be recorded for the whole shaft at intervals of 30 metres (~ 100 feet) or less, and that this be done each 12 months for ordinary usage or each 24 months for light usage. Where a continuous reading gauge device is used the measurements need only be recorded for each 60 metres (~ 200 feet) or less. Go-No-Go gauges are easy to use, but the continuous reading gauge is very time saving.

The intent is to have the guides measured for the length of the whole shaft, measured either continuously or at frequent intervals, and to have the results recorded and available for auditing.

Notes about Measurements (Fig. 4)

The distance between the guides (A) and guide profile wear (G, H & I) are the values that are most commonly measured.

There is excessive guide wear if A exceeds E in which case the safety catch or part of the safety dog tooth will be off the edge of the guide. Test results have shown that such a condition can result in a failure of the dogs to stop the conveyance or a sudden stop due to the safety catches jamming into the face of the guide.

Thicker wear plates may be installed to compensate for guide wear.

C and D are of most concern for a new conveyance or when any shaft repair work takes place.

C is least with new guides and new guide shoes.

D is least with worn guides and worn guide shoes.

D is the measurement of the amount of wood left on the corner when a safety catch has cut a groove in the guide; it should be more than 10mm.

D, E and F are values specified by the design engineer which give tolerance values for A, (ie. A minimum and A maximum). A is the actual measurement taken in the shaft.

Figure 4 shows the conveyance pushed against the guide at one side. This can be done in the shaft with a bar so that C, F and D can be measured.

The cage measurements and tolerances are obtained from the mechanical superintendent and the person in charge of shaft maintenance.

All measurements should have the inch fractions to a common denominator (e.g. 48-3/16 in., 48-4/16 in., etc.) so as to make comparisons easier if imperial units are used.

Where guides are very worn only an actual free fall test can prove safety catch performance.

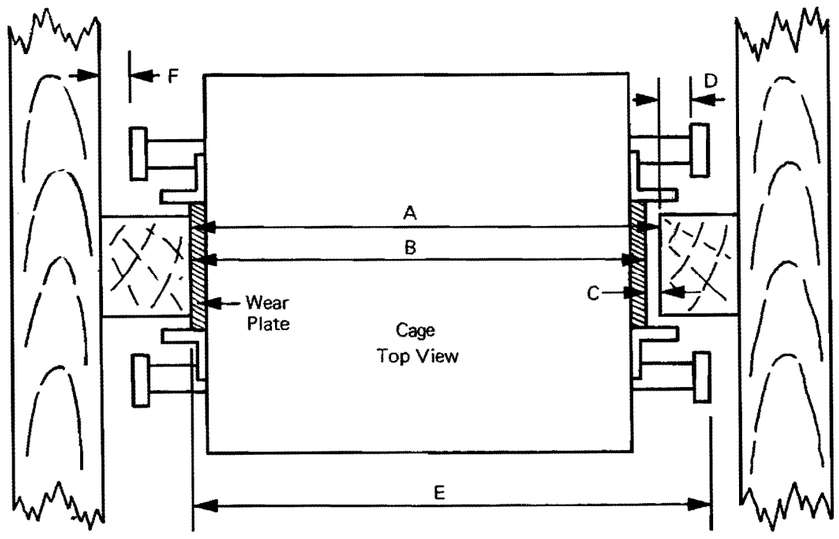


Fig. 4

Guide Measurement Sheet (Example)

Company	Mine	Shaft No.	Compt. No.
Signature Examiner	Date	Original Guide Size	
		Edge	Face

E is measured as if the guide shoes are well worn, and is taken to the nearest edge of the safety catch tooth.

A min *2 = B+C min =	C min *3	C max *2	E min *2
F min	E – 13.0 mm *1 = A max *2		☐ Rollers ☐ Guides

Location in Shaft	Guide No.		No. 1			No. 2			No. 3			No. 4		
	A1	A2	G	H	I	G	H	I	G	H	I	G	H	I

*1 A figure commonly used for minimum clearance at D, *2 Values specified by the design engineer, *3 A figure commonly used is 1.5 mm.

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Shaft Inspection Record (Sheet 1)

Company ______________________ Mine ______________________ Shaft ______________________ Date ______________________ 20 ....

I have on the following dates completed weekly shaft inspections, as required by the Regulations for Mines and Mining Plants under the Occupational Health and Safety Act.

Date	**Hoisting Compartments** (Check by using **"OK"** or **"See Note"** as required)						Signature Examiner	Signature Person in Charge

Report of Examinations and Corrective Action taken Signed by Examiner ______________________

Remarks and Notations by Person in Charge of Shaft ______________________

I hereby certify that I have read the above reports, and that they contain notations of danverous conditions (if any), and that the examination and corrections herein recorded have been made.

Date ______________________ Signature ______________________ Person in Charge of Shaft.

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Shaft Inspection Record (Sheet 2)

Company _____ Mine _____ Shaft _____ Date _____ 20.....

I have this date completed the monthly examination required by the Regulations for Mines and Mining Plants under the Occupational Health and Safety Act.

Items Examined	**Compartments** (Check by using **"OK"** or **"See Note"** as required)					
Guides & Attachments _____						
Shaft Timber _____						
Wall Rock _____						
Shaft Lining/Casting/Rings _____						
Partitions (enclosures) _____						
Conveyance Clearance _____						
Ladders & Landings _____						
General Condition _____						
Examiner's Signature _____						

Report of Examination and Corrective Action taken - Signed by Examiner
(Note location of any dry sections of shaft timber) _____

Remarks and Notations by Person in Charge of Shaft _____

I hereby certify that I have read the above report, and it contains notations of danverous conditions (if any), and that the examination and corrections herein recorded have been made

Date _____ Signature _____ Person in Charge of Shaft.

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