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### Visit to A.V. Roe Aircraft Co. Ltd., Malton Johnson, W. B.

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See  
QC,

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#165

REPORT NO. ERB - 165

UNCLASSIFIED

LABORATORIES  
OF  
THE NATIONAL RESEARCH COUNCIL OF CANADA  
ELECTRICAL ENGINEERING AND RADIO BRANCH

ANALYZED

VISIT TO A. V. ROE AIRCRAFT CO. LTD.,  
MALTON, ONT.



OTTAWA  
MAY, 1947

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Report no. MRB - 165

LABORATORIES  
OF  
THE NATIONAL RESEARCH COUNCIL OF CANADA  
ELECTRICAL ENGINEERING AND RADIO BRANCH

ANALYZED

VISIT TO A.V. ROE AIRCRAFT CO. LTD., MALTON

by  
W.B. Johnson.

Submitted by J. Newton

Head,  
Model Shops.

Approved by B. G. Ballard

Officer-in-Charge Penell

Introductory pages - 1  
Text - 2

Ottawa, May 10th, 1947



VISIT TO A.V. ROE AIRCRAFT CO. LTD., MALTON

April 14th, 1947

Unclassified

1. Purpose

The original purpose of this visit was to review special engraving work on plain metal sheets with a view to its use in producing nameplates.

It was found this process was photo engraving in a special form, and, due to the large amount of equipment involved, it would seem a large outlay in capital for the requirements in our section

However, another process seen, offered some promise in that it may be carried out in the usual photograph room and with no special equipment requirements.

2. A brief outline of the process

This process produces a black letter on any color background. The one in use at present is black on white. A special paint, white in color, which is photographically inert and which forms the white background is sprayed on the metal. The preparation of the metal before spraying is important but could be handled in our shops. This paint retains its color, without protection, for about a week.

The following process is carried out in the photographic laboratory and under a red safelight:

1. Swab the painted surface with Ansco Subbing solution in both directions over the sheet and allow to dry.
2. When dry, swab sheet again with Ansco Template Emulsion and allow to dry.

Note: Template emulsion must be kept at a temperature of  $+40^{\circ}$  F. during storage. When required for use, heat in light-tight water bath to about  $+102^{\circ}$  F. Do not over-heat solution. The emulsion, when dry, has about the same photographic speed as bromide enlarging paper.

3. 1:1 and any other ratio of original to reproduced copy may be made.
4. It is more satisfactory to use a photographic negative as copy sheet since the density of the lines has a bearing on the density of the figures produced.

Materials for the above process may be secured from Ansco of Canada, 60 Front Street, Toronto, Ontario.

Questions on the process may be addressed to B.K. Lallis, Photo Reproduction Department, A.V. Roe Co., Box 430, Terminal "A", Toronto, Ontario.

Special paint can be supplied by C.I.L., or Thorpe-Hambrock, Montreal.