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### Paint failure studies at Fort Churchill Solvason, K. R.

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NATIONAL RESEARCH COUNCIL OF CANADA

DIVISION OF BUILDING RESEARCH

No.  
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TECHNICAL NOTE

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PREPARED BY **K.R. Solvasen**

CHECKED BY

APPROVED BY **R.F. Legget**

PREPARED FOR

DATE **24 January, 1952**

SUBJECT **Paint Failure Studies at Fort Churchill**

**Part of Report on Mr. Solvasen's visit to Churchill,  
1 August to 13 August 1951.**

The American Engineering Test Team at Fort Churchill is conducting various paint studies. Small painted wooden panels are prepared at the Fort Belvoir laboratories and shipped to Fort Churchill. These panels are placed outdoors on posts for a pre-determined exposure time. They are then returned to Fort Belvoir for checks on the paints durability. The officers at Fort Churchill receive very little information on the results of these tests. Some tests have been made on emery fill paints for such uses as on vehicle running boards and on other metal surfaces where non skid footing is desired. These paints were found to be quite satisfactory for applications of this kind. No tests have so far been undertaken on the failure of outside paints on heated structures with the consequent moisture movement.

Capt. Bell of the American Engineering Test Team is quite sure that the officials at the Fort Belvoir labs will be very happy to pass along to us any information they have on paint studies. He suggested that we write to the Canadian Liaison Officer, Engineering and Research Development Laboratory, Fort Belvoir, Va. The Canadian Liaison Officer will perhaps put us in touch with Mr. George S. Cook, who is in charge of the laboratory. His address is, Mr. George S. Cook, Materials Section, Technical Service Department, Engineering and Research Development Labs., Fort Belvoir, Va.

Capt. Bell has observed on houses in the Town of Churchill that the paint deteriorates fastest on the north walls. This he attributes to wind blown snow. After prolonged high winds the snow appears to become granulated producing a sand-blast-like effect on the walls. The prevailing winds are mostly northerly so that this effect is most pronounced on the north walls.

Other than the above there appears to be no one engaged in paint studies at Fort Churchill.