National Bureau of Standards

REPORT

on
TESTS OF WOOD BLOCKS
submitted by
WAR DEPARTMENT
Hamill D. Jones, Major
Signal Corps
Executive Officer, ASA

Reference: Letter dated March 20, 1947

Samples of wood submitted by referenced letter were dried to equilibrium at 105° C. The moisture content expressed as a percentage of the original weight was found to be as follows:

<table>
<thead>
<tr>
<th>Sample</th>
<th>Moisture Content, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid wood</td>
<td>9.2</td>
</tr>
<tr>
<td>5 - ply</td>
<td>7.1</td>
</tr>
<tr>
<td>8 - ply</td>
<td>8.9</td>
</tr>
</tbody>
</table>

For the Director
By

P. L. Wormeley
Chief, Testing & Specifications Section
Organic and Fibrous Materials Division

Approved for Release by NSA on 06-03-2014 pursuant to E.O. 13526
Laboratory Tests for Moisture Content of Wooden Boxes

1. In order to determine the amount of desiccant required for packaging cryptomachines for long-term storage, it was found necessary to ascertain the amount of moisture contained in the carrying cases of the machines.

2. Mr. G. E. Weber of the National Bureau of Standards was contacted with reference to performing the necessary laboratory tests and agreed to do so. Upon delivery of the samples to Mr. Weber, he asked that a written request be made, and stated that he would continue with the tests and await receipt of the request.

3. Samples delivered were three broken bases of SIMARA carrying cases.

4. It is requested that a letter substantially as the enclosed draft be forwarded to the National Bureau of Standards.

A. Sinkov
Chief, Security Division
Extension 241

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1 Not
Proposed draft of ltr to National Bureau of Standards

Copy of letter forwarded to Mr. Weber is attached.

N. L. M. Majesta
As-11
Est. 311
March 20, 1947

Mr. C. E. Weber
Paper Section
National Bureau of Standards
Washington, D. C.

Dear Mr. Weber:

Confirming the verbal request of a representative of this Agency, it is requested that the percentage of moisture content of the three samples of wood previously delivered be determined.

As agreed upon between you and the aforementioned representative, drying of the wood at 100 degrees Centigrade will be satisfactory to obtain the information desired.

Your cooperation in this matter is appreciated.

Sincerely yours,

[Signature]

SIGNED AND SENT OUT MAR 21 1947

MAHEE D. JONES
Major, Signal Corps
Executive Officer, ASA