

UNITED STATES DEPARTMENT OF COMMERCE
WASHINGTON

National Bureau of Standards

REPORT

RSC:EMH
VII-5/7530-3534
March 25, 1947

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:

| <u>Sample</u> | <u>Moisture Content, %</u> |
|---------------|----------------------------|
| Solid wood | 9.2 |
| 5 - ply | 7.1 |
| 8 - ply | 8.9 |

Handwritten calculations:

$$\begin{array}{r} 42 \\ 98 \\ \hline 37847 \end{array}$$

Moisture -

$$\begin{array}{r} 1.5 \\ \hline 2.28 \end{array}$$

For the Director
By

P. L. Wormekey

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

Handwritten notes and signature:

file
1049
5.476
2290

Handwritten calculations:

$$\begin{array}{r} 2.6 \\ 7.5 \\ \hline 310 \\ 1.04 \\ 2.6 \\ \hline 3.64 \end{array}$$

$$\begin{array}{r} 2. \\ 2.280 \\ 46 \\ \hline 2268 \end{array}$$

$$\begin{array}{r} 90 \\ 60 \\ \hline 500 \end{array}$$

25 MAR 47

INTEROFFICE ROUTING 269
 AND/OR CARRIER SHEET HQ A


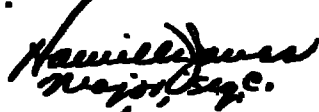

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396

MUST REMAIN WITH ATTACHED PAPERS

NUMBER EACH MEMO OR REPLY IN LEFT BORDER, PLACE NAME, RANK AND
 TELEPHONE NUMBER BOTTOM OF EACH ACTION. DRAW LINE UNDER EACH ACTION

ENTER FILE CLASSIFICATION ADJUTANT _____

| TO | FROM | DATE | SUBJECT |
|----------|-------|-----------|---|
| 1. AS-10 | AS-80 | 19 Mar 47 | <p style="text-align: center;">Laboratory Tests for Moisture Content of Wooden Boxes</p> <p>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.</p> <p>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.</p> <p>3. Samples delivered were three broken bases of SIGABA carrying cases.</p> <p>4. It is requested that a letter substantially as the inclosed draft be forwarded to the National Bureau of Standards.</p> <div style="text-align: right; margin-top: 20px;">  A. SINKOV Chief, Security Division Extension 241 </div> <p>1 Incl Proposed draft of ltr to National Bureau of Standards</p> |
| 2 AS-80 | AS-11 | 21 Mar | <p style="text-align: center;">Copy of letter forwarded to Mr. Weber is attached.</p> <div style="text-align: right; margin-top: 20px;">  Major, Sg.C. AS-11 Ext. 311 </div> <div style="text-align: center; margin-top: 20px;">  </div> |

19 Mar 47

AS 60-4

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,

SIGNED AND SENT OUT MAR 21 1947

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

SSS
Date *21 Mar 1947*

20 Mar 47