



ORGANISATION NORD AMERICAINE POUR LA PROTECTION DES PLANTES  
NORTH AMERICAN PLANT PROTECTION ORGANIZATION  
ORGANIZACION NORTEAMERICANA DE PROTECCION A LAS PLANTAS  
CANADA UNITED STATES MEXICO

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## NAPPO Standards for Phytosanitary Measures

### **Import Requirements for Wood Dunnage and Other Wood Packing Materials into a NAPPO Member Country**

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## **Review**

NAPPO Standards for Phytosanitary Measures are subject to periodic review and amendment. The next review date for this NAPPO standard is October, 2005. This standard was last reviewed in August 2000. A review of any NAPPO Standard may be initiated at any time upon request of a NAPPO member country.

## **Endorsement**

This Standard was approved by the North American Plant Protection Organization (NAPPO) Executive Committee on August 14, 2000.

## **Approved by:**

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## **Note**

Immediate implementation of this standard will not be possible in all three NAPPO member countries because national regulations will have to be amended. NAPPO member countries plan to complete national consultations on regulatory changes by October 1, 2002.

## **Amendment Record**

Amendments to this Standard will be given a consecutive number, dated and filed with the NAPPO Secretariat.

## **Distribution**

This standard is distributed by the NAPPO Secretariat within NAPPO, including Sustaining Associate Members and Industry Advisory Groups, to the FAO IPPC Secretariat, to the ICGPP, and to the Administrative Heads of the Regional Plant Protection Organizations (RPPOs). Copies are available upon request to the NAPPO Secretariat and are available on the NAPPO web page: [www.nappo.org](http://www.nappo.org).

## **Introduction**

### **Scope**

This standard describes measures to protect North America's forests, trees and woody plants from the entry, establishment and spread of quarantine pests on an identified high risk pathway: such as untreated wood Dunnage and other wood packing materials.

### **References**

Anonymous, 1998. Treatment Manual. United States Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine.

Cech, M.Y. and Pfaff, F., 1980. Kiln Operator's Manual for Eastern Canada. Forintek Publications, Special Publication SP504ER. 189 pp

Simpson, W.T., 1991. Dry Kiln Operator's Manual. Agriculture Handbook 188. United States Department of Agriculture, Forest Service, Forest Products Laboratory.

Secretariat of the International Plant Protection Convention, 1997. Glossary of Phytosanitary Terms. Food and Agriculture Organization of the United Nations.

Secretariat of the North American Plant Protection Organization, 1996. NAPPO Compendium of Phytosanitary Terms.

North American Forestry Commission, 1998. Exotic Forest Pest List

### **Definitions, Abbreviations and Acronyms**

Dunnage	Wood used to wedge or support cargo. (FAO, 1997)
Kiln drying	A process in which wood or lumber is dried in a kiln to below 20 percent moisture content using controlled heat.
Wood packing material	Wood materials used in supporting, protecting or carrying cargo.

### **Outline of Requirements**

To prevent the introduction and spread of quarantine pests on wood dunnage and other wood packing materials, the wood must be processed, treated or certified. Wood dunnage and other wood packing materials not in compliance with the entry requirements must be treated or disposed of in accordance with the appropriate safeguards.

### **General Requirements**

A large percentage of the wood dunnage and other wood packing materials moving in international trade is composed of low quality, wood products. Many plant pests have been intercepted on such materials. This is thought to be the means by which many of these wood destroying pests have been introduced to North America. With increased international trade, the number of quarantine pest interceptions has increased dramatically.

The occurrence and distribution of plant pests within the NAPPO region is generally known and movement of wood dunnage and other wood packing materials between NAPPO member countries is governed by pest specific requirements of each country.

## **1. Exemptions**

The following are exempted because they have undergone a process which eliminates quarantine pests:

- .1 Wood-based products such as plywood, particle board, oriented strand board, etc., which have been processed using wood, glue, heat and compression.
- 1.2 Wood particle packing materials such as sawdust, shavings, etc.

## **2. Requirements**

All other wood dunnage and packing materials, such as boxes, crating, cable spools, attached pallets, drums and spacers, imported with cargo into NAPPO member countries must comply with one of the following:

### **2.1 Commercially kiln dried**

The wood must be dried by heating in a kiln in accordance with a specific time/temperature schedule, as recommended in a recognized kiln operator's manual. It must achieve a moisture content of below 20 percent, as expressed as a percentage of dry matter. In addition, it must display an internationally recognized kiln dried marking or be accompanied by a recognized certificate of kiln drying.

**OR**

### **2.2 Methyl bromide fumigation**

The wood must be fumigated with methyl bromide at normal atmospheric pressure, at the rate of 48 gms/m<sup>3</sup> (3 lbs/1000 ft<sup>3</sup>) for 16 hours at 21 °C (70 °F) or above, or at the rate of 80 gms/m<sup>3</sup> (5 lbs/1000 ft<sup>3</sup>) for 16 hours at 4.5 to 20.5 °C (40 to 69 °F). It must be accompanied by a recognized certificate of fumigation.

**OR**

### 2.3 Other approved treatments or processes

Other treatments or processes may be accepted if endorsed by the national plant protection organization of the importing country; e.g., wood that has been pressure treated with an approved chemical preservative.

**OR**

### 2.4 Other approved pest management systems

Pest management systems which result in wood dunnage and other wood packing materials free from quarantine pests may be accepted if endorsed by the national plant protection organization of the importing country.

If none of the above conditions is met the wood dunnage and other wood packing materials must be disposed of by one of the methods identified in Appendix 1.

## **Appendices**

Appendix 1 - Approved Methods for Disposal of Non-Compliant Wood Dunnage and Other Wood Packing Materials

## **Appendix 1: Approved Methods for Disposal of Non-Compliant Wood Dunnage and Other Wood Packing Materials**

The following methods are accepted by NAPPO member countries for the disposal of wood Dunnage and other wood packing materials, which do not comply with the NAPPO standard. The non-compliant wood Dunnage and other wood packing materials must be safeguarded prior to disposal to prevent escape of the pest.

1. Incineration.
2. Deep burial, minimum 2 meters (6.5 feet) in depth, in landfill sites which are approved by the national plant protection organization and according to approved procedures.
3. Chipping in a commercial chipper and processed in an approved manner that eliminates pests, e.g., manufacture of oriented strand board.

Other methods may be endorsed by NAPPO member countries.