STDF/PG/460 Final meeting, Kephis, Nairobi, Kenya. Contact Luca Tasciotti at It20@soas.ac.uk for more information.

Protecting the world's plant resources from pests

ISPM 15 – History

Brent Larson, Standards Officer, IPPC

Workshop presenting the results from:

Implementation of ISPM 15 (*Regulation of wood packaging material in international trade*): An empirical analysis of how the regulation affects the economy of a group of countries in Africa

20-21 July, Nairobi, Kenya





Need for a standard

- Wood boring pest interceptions
- Surveillance and monitoring programmes linked interceptions to wood packaging material
- Experts met several times and developed a draft ISPM
- Draft ISPM presented to ICPM-4 (2002)





Last minute Negotiations at ICPM-4 (2002)



Debarking removed- technically justified?
Concerns on the efficacy of methyl bromide in relation to pinewood nematodes



 Concern about promoting methyl bromide but reference to Montreal Protocol was not removed





2002 ISPM 15 first adopted

ICPM-4 adopted: ISPM 15. Guidelines for regulating wood packaging material in international trade







2003 Addressing concerns on efficacy

- North American Forestry Commission
- International Forest Quarantine Research Group (IFQRG)
- ICPM-5 (2003) requested the IFQRG to review data provided by the Republic of Korea and China
- IFQRG coordinated research on methyl bromide





2003 Implementation issues were raised

- Q & A list serve set up by IFQRG
- Some issues raised, indicated that ISPM 15 should be revised
- CPM-1 (2006) added the revision of ISPM 15 to the IPPC List of topics for standards





2004 Technical Panels

ICPM-6 (2004) established Technical Panels:

- Technical Panel on Forest Quarantine (TPFQ)
 Work on the development of ISPM 15
 - Practical application of treatments to address implementation concerns
- Technical Panels on Phytosanitary Treatments (TPPT)
 - review treatment efficacy using ISPM 28 (Phytosanitary treatments for regulated pests)





2006 Revised Annex 1 adopted

- CPM-1 (2006) adopted a revised Annex 1: *Approved measures associated with wood packaging material* to address the concerns raised during initial adoption regarding the methyl bromide (MB) fumigation
 - provided more guidance
 - fumigation schedule was changed





2009 Revised ISPM 15

CPM-4 (2009) adopted ISPM 15: Regulation of wood packaging material in international trade Issues addressed:

- reuse and remanufacture
- bark risks, specifically defining what size of bark was most risky
- removal of bark was added
- more guidance on the application of treatments
- criteria for new treatments removed (under revision)
- increased guidance on the use of the mark





2013 Dielectric heat treatment added

- CPM-8 (2013) adopted a revised Annex 1 to ISPM 15
- Dielectric used instead of microwave
- a heat treatment using dielectric heating (DH)
- CPM-8 requested guidance on the application of this treatment be developed





Current version, 2013







2015 1st consultation on new treatments

- SC in May 2015 approved for 1st consultation
- Annexes to ISPM 15 2006-010A&B inclusion of the phytosanitary treatment Sulphuryl fluoride fumigation and revision of the dielectric heating section





2017 2nd consultation on sulfuryl fluoride treatment

- SC-7 in May 2016 could not agree, technical issues
- SC-7 2017 approved for 2nd consultation
- Annexes to ISPM 15 2006-010A&B inclusion of the phytosanitary treatment Sulphuryl fluoride fumigation and revision of the dielectric heating section





Future work New treatment criteria

- Criteria for ISPM 15 treatments was vague
- CPM decided to revise the criteria
- Part of ISPM 15 revision: Criteria for treatments for wood packaging material in international trade (2006-010)
- TPFQ are currently developing, pending publication of scientific paper that is basis for this new treatment criteria





Equivalence



First international recognition of equivalence for treatments:

- Fumigation by methyl bromide (MB)
- Treatment by heat (HT) or
- Dieletric heating (DH)



Also recognized the ISPM 15 mark as a way to prove a phytosanitary measure had been applied





Protecting the world's plant resources from pests

ISPM 15 mark and symbol





ISPM 15 mark

The mark should at minimum include the:

- symbol
- ISO two letter country code
- unique number assigned by the NPPO to the producer of the wood packaging material, who is responsible for ensuring appropriate wood is used and properly marked
- IPPC abbreviation according to Annex I for the approved measure used.





Addressing concerns on the symbol

 A company in the USA claimed the symbol was already in use so IPPC Secretariat suggested countries temporarily suspend the implementation of the ISPM 15: 2002







New ISPM 15 symbol

- New symbol design, FAO registered under the Madrid Agreement (MA) and in some countries not party to the MA
- Limited resources: symbol was only registered in 82 countries in 2004.







New ISPM 15 symbol







More specific guidance on the use of the ISPM 15 mark

- legible to inspectors without the use of a visual aid
- durable and not transferable
- rectangular or square
- no other information within a border line
- not hand written
- some flexibility allowed





Examples of the ISPM 15 mark







Protection of the symbol

- FAO has now registered the symbol in most countries
- Each year, with limited resources, FAO continues the registration process, as well as the renewal process





Protection of the symbol

- BOTSWANA, KENYA and MOZAMBIQUE: symbol is registered under the Madrid Convention and expires on 26 September 2023
- CAMEROON: symbol is registered under OAPI (Organisation Africaine de la Propriété Intellectuelle) and expires 3 October 2018 for classes 19 and 20, and 24 December 2018 for class 37





Usage Rules

- FAO as owner of the symbol has established usage rules
- FAO has authorized NPPO to use of the symbol in the ISPM 15 mark when implementing ISPM 15





Compliance

- FAO has delegated the NPPO as the authority to authorize and monitor the national use of the symbol in the ISPM 15 mark
- If misuse is discovered, NPPOs may request FAO to send a "Cease And Desist" letter to the offending party





Prosecution

- If the "Cease And Desist" letter does not bring about compliance NPPOs may request advice from FAO legal services
- The NPPO (or Contracting Party) may request authority to prosecute on behalf of FAO, this needs to be done in consultation with FAO Legal Services and at the costs are covered by the NPPO





CPM Recommendation

- Use of methyl bromide for quarantine purposes is allowed under the Montreal Protocol
- IPPC criticized by the world for promoting methyl bromide use but in reality there was always an alternative treatment
- CPM-3 (2008) adopted a <u>CPM Recommendation</u>, <u>R-03:</u> Replacement or reduction of the use of methyl bromide as a phytosanitary measure





Efforts to help with Implementation





IPPC workshop on the practical application of ISPM 15

28 February-4 March 2005, Vancouver, Canada

- Over 170 delegates participated :
 - reviewed ISPM 15 requirements
 - toured approved facilities
 - each delegate developed an implementation plan.
- Delegates from:
 - Mozambique: Khalid Cassam
 - Kenya: Abed Kagundu & Rachel Ntoyai





IPPC workshop on the practical application of ISPM 15

 Workshop proceeding are available on the IPP: <u>https://www.ippc.int/core-activities/capacity-</u> <u>development/ippc-workshop-practical-application-</u> ispm-no-15vancouver-canada-28-february-4-<u>march-2005</u>





Explanatory document

- First ISPM 15 explanatory document was produced by Shane Sela
- Revised in 2014 (TPFQ & Shane Sela, Thomas Schroeder, Matsui Mamoru and Michael Ormsby
- The ISPM 15 explanatory document is published on the IPP in English and French: <u>https://www.ippc.int/static/media/files/publication/e</u> n/2017/02/ISPM_15_ED_En_2017-02-10.pdf





Guidance Documents

- IPPC Secretariat has developed specific guidance on the use of dielectric heating, information can be found on the IPP <u>http://www.phytosanitary.info/</u>
- Dielectric Heating- a quick guide to Dielectric Heating as treatment for wood packaging material, posted on the IPP: <u>http://www.phytosanitary.info/information/dielectricheating-quick-guide-dielectric-heating-treatment-</u>

wood-packaging-material





Dielectric Heating- a quick guide to Dielectric Heating as treatment for wood packaging material



Dielectric heating as a treatment for wood packaging material

letch hanging is a newly approved treatment for evoid packaging maturial that such hast from declamagnetic caps to derived the work of the international for Handenson Consolition or Mytosankary sources (CMM) approved deletch: charaling as a phytosankary treatment for evoid packaging maturial is part of International Standards for Phytosanikary Measures (SMM) like. 15, Mgodation of evoid packaging material in material trade.

nging material. It is for information only.

What is dielectric heating?

in or threads in rease electromagnetic waves – such as microwaves (MW) or radio-frequency (85) waves – to create h ne of the electromagnetic energy converts into heat when it interacts with moisture, just like in the ordinary kitcher convex even.

How does dielectric heat treat wood packaging material? When wood is heated to the temperature, and within the time period, specified in ISMN 15 Annex 1, the heat bills the pests in the wood that need to be eliminated.

Because word catalation multitum throughout its structures, during simultaneous hosts word access the walker police of the word As a round, directric harming differs from conventional heat transment methods like air in this harding because these methods raise surface tangenetatem more quickly than the core. It takes these for hast to be conducted from the surface of the word to the core and us with conventional heat transment it is meansary to munitire the transportance of the core of the word to much core and us with core of the word to much surface.

In contrast, when using dividutic handing, the temporature of the word can be measured at its services or by monitoring infined insign that show heat levels of the word's surface. With discritic heating, the surface of the word's indirection that the care because the source of the source of the surface surface such that the temperature in equal or higher inside.



lectric heating works across the entire profile of the od, while conventional heat has to be conducted into wood from the surface.





Conclusions

- The first and possibly the last case where the Appropriate Level of Protection is globally harmonized
- Huge impact on protecting trees and forests
- Equivalence
- Raised the profile of the IPPC
- Well worth the effort
- Need to focus on proper implementation





Responses to study

- Study indicates need for improved oversight.
- EWG Authorization of entities to perform phytosanitary actions (2014-002) met in June 2017
- Draft will be presented to SC May 2018 and possible consultation in July 2018
- Outlines:
 - Criteria
 - Roles & responsibilities
 - Audits and non conformities





Responses to study (cont)

- Study also indicated low number of audits.
- Topic: *Audit in the phytosanitary context* (2015-003), priority 2
- Draft specification is now out for consultation between 2017-07-01 to 2017-08-31.





Contact details



Brent Larson

Standards Officer, IPPC Secretariat, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00153 Rome, Italy

Phone + (39) 06-5705-4915 Brent.Larson@fao.org

Website: www.ippc.int



