

2007-101A: Draft sulphuryl fluoride fumigation of insects in debarked wood

Comm no.	Para no.	Comment type	Comment	Explanation	Country
1.	G	Editorial	The arrangement of Table 2 needs to be corrected.	If Table 2 is corrected, the figures in Table 1 then agree with the Table 2 figures.	New Zealand
2.	G	Editorial		It may be appropriate to consider combining the most stringent aspects of both document 2007- 101B) and document 2007- 101A) in order to avoid confusion . The technical panel should pay attention to spacing between words (e.g. paragraph 6, 7 & 9 etc.) throughout the document. However, we have noted the final stage in the "Major stages" (paragraph 2, which states the following: "2014-11 SC agreed to split Sulfuryl fluoride fumigation of wood packaging material (2007-101) into two separate topics: Sulfuryl fluoride fumigation of insects in debarked wood (2007-101A) and Sulfuryl fluoride fumigation of nematodes and insects in debarked wood (2007-101B)."	South Africa
3.	G	Substantive	I support the document as it is and I have no comments		Georgia, Nepal, Mexico, Congo, Barbados, Philippines, Belize, Guyana, Ghana
4.	G	Substantive	Clarification required that this treatment has only been proven to be effective against the three insect species.	Although the body of the text explains this treatment is for 3 insects, the name and scope of this treatment are potentially misleading to NPPOs. Sulphuryl flouride fumigation of insects in debarked wood suggests that that the treatment is effective against all insects associated with debarked wood.	Australia
5.	G	Technical	1. Considering that this treatment only mention general effectiveness agaist other pests and any efficacy data is given for them based in the efficacy of the treatment for the 3 species (Anoplophora glabripennis, Anobium punctatum and Arhopalus tristis) will be appropriate to control them, we would like to request to TPPT to provide some indication of this efficacy for example for Siricidae spp.	See comment.	Brazil, COSAVE, Paraguay, Argentina, Peru, Uruguay, Chile

Comm .	Para	Comment type	Comment	Explanation	Country
no.	no.				
			2. Paragraph 19 provide that "the measured temperature of the product or the ambient air (whichever is lower) is used to calculate the SF dose, and must be at least 15 °C (including at the wood core) throughout the duration of the treatment." We would like to request the TPPT to clarify the reasons for mentioning this temperature at the wood core throughout the treatment, taking into account the operative difficulties this requirement could cause. For other fumigation treatments only the ambient temperature is recorded throughout the treatment. *		
6.	1	Editorial	DRAFT SULPHURYL FLUORIDE FUMIGATION OF <u>DEBARKED WOOD AGAINST</u> INSECTS IN <u>DEBARKED WOOD</u> (2007-101A)	It's the wood that is treated, not the insects. The treatment is performed against insects that may be present in the wood.	EPPO, Austria, Norway
7.	1	Editorial	DRAFT SULPHURYL FLUORIDE FUMIGATION FOROF INSECTS INON DEBARKED WOOD (2007-101A)	To be consistent with other approved treatments.	Brazil, COSAVE, Paraguay, Argentina, Peru, Uruguay, Chile
8.	1	Substantive	PROYECTO DE FUMIGACIÓN DE INSECTOS EN MADERA DESCORTEZADA CON FLUORURO DE SULFURILO PARA REDUCIR EL RIESGO DE LA INT RODUCCION DE INSECTOS (2007-101A)	Clarifica el título, porque lo que se fumiga es la madera para evitar los insectos	Costa Rica
9.	1	Technical	DRAFT SULPHURYL FLUORIDE FUMIGATION OF <u>DEBARKED WOOD AGAINST INSECTS-IN</u> <u>DEBARKED WOOD</u> (2007-101A)	It's the wood that is treated, not the insects. The treatment is performed against insects that may be present in the wood.	European Union, Austria
10.	1	Translation	DRAFT SULPHURYL FLUORIDE FUMIGATION OF INSECTS IN DEBARKED WOOD (2007-101A)	Translation into Spanish should be "FUMIGACIÓN CON FLUORURO DE SULFURILO CONTRA INSECTOS EN MADERA DESCORTEZADA"	Brazil, COSAVE, Paraguay, Argentina, Peru, Uruguay, Chile
11.	4	Editorial	This treatment <u>describes applies to</u> the fumigation of debarked wood using sulphuryl fluoride (SF) to reduce the risk of introduction and spread of pest insects ¹ .	Suggested edit is for consistency between PTs. Suggest using "describes" rather than "applies to" or "comprises"	Canada
12.	4	Editorial	This treatment applies to the fumigation of debarked wood using sulphuryl fluoride (SF) to reduce the risk of introduction and spread of pest insects ¹ .	Insect pest reads better than pest insect. Footnote should be placed at the end of the page.	Jamaica
13.	4	Editorial	This treatment applies to the fumigation of debarked wood using sulphuryl fluoride (SF) to reduce the risk of introduction and spread of <u>insect</u> pests <u>insects</u> ¹ .	Editorial correction.	Brazil, COSAVE, Paraguay, Argentina, Peru, Uruguay,

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Comm no.	Para no.	Comment type	Comment	Explanation	Country
					Chile
14.	4	Substantive	This treatment applies to the fumigation of debarked wood using sulphuryl fluoride (SF) to reduce the risk of introduction and spread of pest insects ¹ .	According to ISPM 5, definition of a pest encompasses insects, nematodes, and pathogens etc. Hence, the word "pest" could be excluded.	Singapore
15.	4	Substantive	This treatment applies to the fumigation of debarked wood using sulphuryl fluoride (SF) to reduce the risk of introduction and spread of <i>Anaplophora glabripennis</i> , <i>Anobium punctatum</i> and <i>Arhopalus tristis</i> .	Whilst this treatment could be effective against other insects, the efficacy data only supports the inclusion of three species and this should be made clear in the scope of the treatment.	Australia
16.	4	Substantive	This treatment applies to the fumigation of debarked wood using sulphuryl fluoride (SF) to reduce the risk of introduction and spread of pest insects ¹ .	Because of the uniqueness and testing of wood-boring pests, we should explain the use of extrapolation in this standard, with an emphasis on the harmonization nature of ISPMs. This could be a footnote. Treatments for wood are aiming at significantly reducing various insect pests in the pathway rather than achieving mortality at a probit 9 level (which is common for fruit flies). To avoid the confusion, this explanation might be necessary within the draft.	United States of America
17.	4	Technical	This treatment applies to the fumigation of debarked wood using sulphuryl fluoride (SF) to reduce the risk of introduction and spread of pest insects ¹ .	Add a footnote here (or elsewhere in this draft) that the wood is debarked and therefore does not contain the eggs, and the standard is not aiming at the effectiveness against the eggs (the eggs are laid in the bark).	United States of America
18.	6	Editorial	Name of treatment Sulphuryl fluoride fumigation of debarked wood against insects in debarked wood	It's the wood that is treated. The treatment is performed against insects that may be present in the wood	EPPO, Austria, Norway
19.	6	Editorial	Name of treatment Sulphuryl fluoride fumigation of pest insects in debarked wood	especialy for wood pest insect	Indonesia
20.	6	Editorial	Name of treatment Sulphuryl fluoride fumigation of insects pests ion debarked wood	To be consistent with other approved treatments.	Brazil, COSAVE, Paraguay, Argentina, Peru, Uruguay, Chile
21.	6	Substantive	Name of treatment Sulphuryl fluoride fumigation of Anoplophora glabripennis, Anobium punctatum and Arh opalus tristisinsects in debarked wood	Needed clarification that this treatment is known to be effective for the three listed species and not all insects.	Australia
22.	6	Substantive	Name of treatment Sulphuryl fluoride fumigation of insects in debarked wood[is this product still recommended for use?]	there is a concern that this product may be phased out soon.	Kenya
23.	6	Technical	Name of treatment Sulphuryl fluoride fumigation of debarked wood against insects in debarked wood	It's the wood that is treated. The treatment is performed against insects that may be present in the wood.	European Union, Austria

Comm .	Para	Comment type	Comment	Explanation	Country
no.	no.				
24.	7	Editorial	Active ingredient Sulphuryl fluoride (also known as sulfuryl fluoride, sulphur dioxide difluoride, sulphuryl difluoride, Sulfur dioxide difluoride, Sulfuryl difluoride)	Additional names for which Sulphuryl flouride.	Jamaica
25.	9	Substantive	Target pests Wood-borne life stages of insects, including <i>Anoplophora glabripennis</i> (Motschulsky), <i>Anobium punctatum</i> (De Geer) and <i>Arhopalus tristis</i> (Fabricius)	Is this relevant to only these particular species or extrapolated to other species in these families? See US comment from paragraph 4. When the role of ISPMs and harmonization is as suggested in the comment above is explained, then extrapolation is addressed and no additional data is needed for other insects. Common concern that we experience is the understanding of the nature of the treatments in relation to the broad range of organisms, rather than only those that are mentioned in paragraph 9, for example.	United States of America
26.	9	Substantive	Target pests Wood-borne life stages of insects, including Anoplophora glabripennis (Motschulsky), Anobium punctatum (De Geer) and Arhopalus tristis (Fabricius)	Why were these wood borne stages of insects singled out.	Jamaica
27.	9	Translation	Target pests Wood-borne life stages of insects, including Anoplophora glabripennis (Motschulsky), Anobium punctatum (De Geer) and Arhopalus tristis (Fabricius)	Wood-borne life stages of insects should be translate into Spanish as "estados de desarrollo de insectos en la madera"	Brazil, COSAVE, Paraguay, Argentina, Peru, Uruguay, Chile
28.	10	Technical	Target regulated articles Debarked wood not exceeding 20 cm in cross-section and 60% moisture content	Debarked wood not exceeding 10 cm across the radius. Penetration depth of SF must be determined. The gas will penetrate the lumber from any angle therefore in determing the penetration depth of SF it would be more feasible to quantitatively establish a not exceeding limit from the radius to the outer section of the lumber. A protocol or guidelines to determine moisture content must be developed. This must include the sample quatity.	Jamaica
29.	12	Editorial	Fumigation of debarked wood not exceeding 20 cm in cross-section and 60% moisture content in accordance with a schedule that achieves the minimum concentration-time (CT) product (CT) over 24 hours at the temperature and final residual concentration specified in Table 1.	consistent with drfat revision of Annex 1 and Annex 2 to ISPM 15	Indonesia
30.	12	Substantive	Fumigation of debarked wood not exceeding 20 cm in cross-section and 60% moisture content in accordance with a schedule that achieves the minimum concentration-time (CT) product over 24 hours at the temperature and final residual concentration specified	Transparency requires for calculation for determining the CT. There are multiple ways to determine the CT products, and the headspace fumigant monitoring will influence the resulting CT product. We highly recommend that the calculation used to establish the CT product be defined with additional provisions to be used when the target CT product is not achieved by the end of	United States of America

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			in Table 1.	the treatment period.	
31.	12	Technical	Fumigation of debarked wood not exceeding 20 cm in cross-section and 60% moisture content in accordance with a schedule that achieves the minimum concentration-time (CT) product within a single ever 24 hour periods at the temperature and final residual concentration specified in Table 1.	For clarity of what is required.	EPPO
32.	12	Technical	Fumigation of debarked wood not exceeding 20 cm in cross-section and 60% moisture content in accordance with a schedule that achieves the minimum concentration-time (CT) product within a singleover 24 hour periods at the temperature and final residual concentration specified in Table 1. The minimum temperature of the wood and its surrounding atmosphere must not be less than 15 degrees.	For clarity of what is required.	European Union
31.	12	Technical	Fumigation of debarked wood not exceeding 20 cm in cross-section and 60% moisture content in accordance with a schedule that achieves the minimum concentration-time (CT) product within a single over 24 hour periods at the temperature and final residual concentration specified in Table 1.	For clarity of what is required.	Austria, Norway
34.	13	Editorial	Table 1. Minimum concentration time (CT) product over 24 hours for debarked wood fumigated with sulphuryl fluoride	for writing efficiency	Indonesia
35.	13	Technical	Table 1. Minimum concentration-time (CT) product over within a single 24 hours period for debarked wood fumigated with sulphuryl fluoride	To be more precise about what is required.	EPPO, European Union, Austria, Norway
36.	13	Technical	Table 1. Minimum concentration-time (CT) product over 24 hours for debarked wood fumigated with sulphuryl fluoride The CT product and dosage in tables are much higher than references.	(1) At 15.6°C and above, sulphuryl fluoride treatment for Anoplophora glabripennis at dose of 104 g/m3, CT product of 1095 gh/m3 is recommended. (2) The dose that can full control of Arhopalus tristis egg is 120 g/m3. Reference: Zhang Z. 2006. Use of sulphuryl fluoride as an alternative fumigant to methyl bromide in export log fumigation. New Zealand Plant Protection, 59: 223-227.	China
37.	13	Technical	Table 1. Minimum concentration-time (CT) product over 24 hours[need to state the specific time] for debarked wood fumigated with sulphuryl fluoride	24hours is too open	Kenya

Comm no.	Para no.	Comment type	Comment			Explanation	Country		
38.	14	Editorial	Temperature_	Minimum CT product (g·h/m³)	Minimum concentration (g/m³)	For consistency with ISPM 15.	EPPO, European Union, Austria, Norway		
			15 °C and above	3 200	93				
			20 °C and above	2 300	67				
			25 °C and above	1 500	44				
			30 °C and above	1 400	41				
39.	14	Editorial	Temperature Minimum CT product (g·h/m³)		Minimum concentration (g/m³)	for writing efficiency	Indonesia		
			15 °C and above	3 200 93					
			20 °C and above	2 300	67				
			25 °C and above	1 500	44				
			30 °C and above	1 400	41				
40.	14	Substantive	Temperatur e	Minimum CT product (g·h/m³)	Minimum concentration (g/m³)	Consider temperature range for clarity.	Jamaica		
			15 °C and above	3 200	93				
			20 °C and above	2 300	67				

Comm no.	Para no.	type				Explanation	Country
			25 °C and above	1 500	44		
			30 °C and above	1 400	41		
41.	14	Technical	Minimum Requir Minimum		Minimum final concentration	1. "required" - consistency with other draft ISPMs 2. "product" - superfluous and wrong 3. It is unclear at what stage is the □concentration given in the table. It is the final concentration, so it should be stated for clarity.	EPPO, European Union, Austria, Norway
			15 °C and above	3 200	93		
			20 °C and above	2 300	67		
			25 °C and above	1 500	44		
			30 °C and above	1 400	41		
42.	14	Technical	Temperature	Minimum CT product (g·h/m³)	Minimum concentration (g/m³)	eference Bonifacio L. (2014), so the SF dose and CT dosage are not suitable for target pest in draft 2007-101A. 2.Barak et al. (2006)	China
			15 °C and above	3 200	93	proposed that dose 104 g/m3 at 16°C and above was effective for Anoplophora glabripennis. Zhang (2006) showed that 120 g/m3 can full control of Arhopalus tristis eggs. Therefore, considering their two	
			20 °C and above	2 300	67	research results, we propose that the treatment schedule at 10.0°C and above in Barak et al. (2006) can be used as 15°C and above, the	

Comm no.	Para no.	Comment type	Comment									Explanation	Country							
			25 °C abov	C and re		1-500	44			treatment schedule at 15.6°C and above in Barak et al. (2006) can be used as 20°C and above. At 25°C and above, we used the dose that calculated at 21.1°C in Barak et al. (2006), and the minimum										
			30 °C abov	C and re		1-400	41					concentration (g/m3) at hour was predicted according to Bonifacio L. (2014) and the pattern between treatment schedule at ≥15°C and								
			rat ur e	Minimu m target CTdosa ge (g·h/m³)	SF dos e* (g/ m³	Minimum concentration (g/m³) at hour						≥20°C.								
			0.5	2	4	<u>12</u>		24												
										15 an d ab ov e	1300	120	<u>146</u>	1	12	88	<u>39</u>	<u>17</u>		
		20 an d ab ov e	1100	104	<u>116</u>	<u> </u>	90	74	<u>35</u>	14										
			25 an d ab ov e	900	88	<u>94</u>	1	<u>33</u>	60	31	11									

Comm no.	Para no.	Comment type	Comment			Explanation	Country
43.	14	Technical	Temperatur e	Minimum CT product (g·h/m³)	Minimum concentration (g/m³)	Consider temperature range for clarity. Table provide insufficient data and therefore need to show minimum concetration over 24 and 48 hrs time period. Use Table 2 as proposed schedule standard.	Jamaica
			15 °C and above	3 200	93		
			20 °C and above	2 300 67			
			25 °C and above	1 500	44		
			30 °C and above	1 400	41		
44.	16	Editorial		ophora glabripennis s than 99.99683% ²	(larvae and pupae) to	Footnote should be at the end of the page.	Jamaica
45.	17	Technical	Anobiu life sta	um punctatum [incluges) to not less that		scientific clarification	Kenya
46.	18	Technical		alus tristis[include c) to not less than 99	ommon name] (all life 9%.	scientific clarification	Kenya
47.	19	Editorial	(including at the		oroduct ambient air (whichever = dose, and must be at		EPPO, European Union, Austria, Norway

Comm no.	Para no.	Comment type	Comment	Explanation	Country
			least 15 °C (including at the wood core) throughout the duration of the treatment.		
18.	19	Substantive		The minimum temperature of the wood in the draft revision annex to ISPM 15 is defined at 20C, while this draft annex to ISPM 28 is defined at 15C. The corrected temperature should be clarified.	Thailand
19.	20	Substantive	National plant protection organizations shall ensure that the above requirement is followed by those involved in the application of SF under this treatment.		EPPO, European Union, Austria, Norway
50.	20	Technical	National plant protection organizations shall ensure that the above requirement is followed by those involved in the application of SF under this treatment.	·	Brazil, COSAVE, Paraguay, Argentina, Peru, Uruguay, Chile
51.	22	Editorial	One example of a schedule that achieves the minimum required CT product for debarked wood treated with SF is shown in Table 2.	for writing efficiency	Indonesia
52.	23	Editorial	Table 2. Example of a treatment schedule that achieves the minimum required concentration-time (CT) product for debarked wood treated with sulphuryl fluoride (SF)-	· ·	EPPO, European Union, Austria, Norway
53.	23	Editorial	Table 2. Example of a treatment schedule that achieves the minimum required concentration-time (CT) product for debarked wood treated with sulphuryl fluoride (SF).	for writing efficiency	Indonesia
54.	23	Technical	Table 2. Example of a treatment schedule that achieves the minimum required concentration-time (CT) product for debarked wood treated with sulphuryl fluoride (SF).	1.At 15.6°C and above, sulphuryl fluoride treatment for Anoplophora glabripennis at dose of 104 g/m3, CT product of 1095 gh/m3 is recommended. 2.The dose that can full control of Arhopalus tristis egg is 120 g/m3. Reference: Zhang Z. 2006. Use of sulphuryl fluoride as an alternative fumigant to methyl bromide in export log fumigation. New Zealand Plant Protection, 59: 223-227.	China
55.	24	Editorial	Mea mu m temp eratu re CT dos (°C) (°C) (g/ age m³)	•	EPPO, European Union, Austria, Norway

Comm no.	Para no.	Comment type	Com	ment							Explanation	Country
				(g·h/ m³)								
			0.5	2	4	12	2 4					
			15 and abov e	3 20 0	183	188	17 6	16 3	13 1	93		
			20 and abov e	2 30 0	131	136	12 8	11 8	95	67		
			25 and abov e	1 50 0	88	94	83	78	62	44		
			30 and abov e	1 40 0	82	87	78	73	58	41		
56.	24	Editorial	Mea n temp eratu re (°C)	Mini mu m targ et CT dos age (g·h /m³)	SF dos e* (g/ m³)	Minimum concentration (g/m³) at hour:					Columns in the table are misaligned.	Singapore
			0.5 2 4 12 2									
			15	3 20	183	188	17	16	13	9		

Comm no.	Para no.	Comment type	Comme	ent									Explanation	Country
			abov e	0					6	3	1	3		
				30 131		13	36		12 8	11 8	95	6		
				50 88		9	4		83	78	62	4 4		
				40 0 82		8	7		78	73	58	4		
57.	24	Editorial		<i>M</i> i ni nu	М	inimuı	m cor	ncentr hour		(g/r	n³) a		Columns should be realigned to the right to allow the 48 h figure to be above 29 g/m3 and the 36 h to be above 41g/m3 etc. The formatting of the columns in the header rows of the table isappear to be formatted incorrectly.	South Africa
			Me g an C te c mp s er g atu re (m ar et cT do sa SFge do se se g. (g. n³ m²)	5	2	4	1 2	2 4				pe formatted incorrectly.	
			15 and above	3 200	183	1 8 8	1 7 6	1 6 3	1 3 1		93			
			^^	^	101	4	4	4	^		^-			

Comm no.	Para no.	Comment type	Comment									Explanation	Country
			and 300 above		3 6	2 8	1 8	5					
			25 and 1 above 500	88	9	8	7 8	6 2		44			
			30 and 1 above 400	82	8 7	7 8	7 3	5 8		41			
58.	24	Editorial	Mea n targ et eratu re dos age (g·h/m³)	Minim (num c g/m³)			n				Format table.	Jamaica
									0.5 2 4 12 2 4				
			15 and 3 20 abov e 183 188	17 6	7 1	6 13 9 3 1 3							
			20 and abov e 2 30 0 13	1	136			12	2 1	1 95	6 7		
			25 and abov 1 50 0 88		(94		83	3 7	8 62	4 4		

Comm no.	Para no.	Comment type	Comment											Explanation	Country				
			е																
			30 and 1 abov e	1 40 0	82		8	37		7	78 7	73 5	8 4 1						
59.	24	Editorial		Mi ni mu		Minimum concentration (g/m³) at hour:					n (g/	/m³) :	at	The columns should be adjusted.	Brazil, COSAVE, Paraguay, Argentina, Peru, Uruguay, Chile				
			Me																
							15 and above	; 20	3 00	183	1 8 8	1 7 6	1 6 3	1 3 1		93			
			20 and above	30	2 00	131	1 3 6	1 2 8	1 1 8	9 5		67							
			25 and above	50	1 00	88	9 4	8 3	7 8	6 2		44							
			30 and above	4(1	82	8 7	7 8	7	5 8		41							

Comm no.	Para no.	Comment type	Comment						Explanation	Country
60.	24	Technical	Mea uire dMi tTem perat ure d uring treta ment (°C) (g/m³)	Minimum concentration (g/m³) at hour:					1. The temperature during treatment is not "mean". If it drops down to not lower than 15, row 1 applies. If it drops down only to not lower than 20, row 2 applies, etc. Still, it cannot drop below the minimum of the interval, even if the average is higher. 2. "Required" - for consistency with other drafts 3. "Dosage" - for consistency with other drafts 4. Concentrations after 0.5 h are higher than initial and require clarification.	Austria, Norway
			0.5 <u>h</u> 2 <u>h</u> 4 <u>h</u>	12 <u>h</u>	2 4_ <u>h</u>					
			15 and abov e 3 20 183	188	17	16 3	13 1	9		
			20 and abov e	136	12 8	11 8	95	6 7		
			25 and abov e 1 50 0 88	94	83	78	62	4 4		
			30 and abov e	87	78	73	58	4		
61.	25	Editorial	* * ilnitial doses r	nay need to be higher in coeakage.	ondit	ions	s of		Only one asterisk is needed. 2) Capital at the beginning of the sentence.	EPPO, European Union, Austria, Norway

Comm no.	Para no.	Comment type	Comment	Explanation	Country
62.	25	Editorial	* *initial doses may need to be higher in conditions of high sorption or leakage.	Removal additional *	Jamaica
63.	25	Technical	* * initial doses may need to be higher[should include the range] in conditions of high sorption or leakage.	clarification	Kenya
64.	26	Editorial	The Technical Panel on Phytosanitary Treatments based its evaluation of this treatment for <i>A. glabripennis</i> on the research reported by Barak <i>et al.</i> (2006).	this statement may be more appropriate as reference, wether it should be included?	Indonesia
65.	27	Editorial	The general effectiveness of this treatment against other pests has been supported by Barak et al. (2010), Binker et al. (1999), Ducom et al. (2003), La Fage et al. (1982), Mizobuchi et al. (1996), Osbrink et al. (1987), Soma et al. (1996, 1997), Williams and Sprenkel (1990) and Zhang (2006).	this statement is more appropriate as reference, wether it should be included?	Indonesia
66.	28	Substantive		The US highly recommends that the all documents (supplemental information, calculations, references, CT schedules, TPPT meeting notes relevant to the particular draft, etc.) be publicly available on the IPP during member consultation period so that all reviewers can access this information. This would allow for the least ambiguous and most technically relevant review.	
67.	29	Technical	fluoride treatment as a quarantine treatment for emerald ash borer (Coleoptera: Buprestidae) in ash logs. <i>Journal of Economic Entomology</i> , 103(3): 603–611.	This is incorrect - Myers was not an author. Correct authors were: Alan V. Barak, Matthew Messenger, Paul Neese, Ellen Thoms, and lvich Fraser. The paper refers to barked wood and shows egg survival. However, above we commented that debarking removes eggs. Is it valid to retain this reference because it was confusing to some reviewers?	United States of America
68.	31	Technical	Binker, G., Binker, J., Fröba, G., Graf, E. & Lanz, B. 1999. Laboratory study on <i>Anobium punctatum</i> , number 130377/A and 403972 (bioassay 11–15), unpublished, Binker Materialschutz, Germany. <i>In Inclusion of active substances in Annex I to Directive 98/8/EC</i> : Assessment report: Sulfuryl fluoride, PT8, Appendix IV (List of studies), p. 29, September 2006.	The US was unable to obtain a copy of this reference.	United States of America
69.	32	Editorial	Ducom, P., Roussel, C. & Stefanini, V. 2003. Efficacy of sulfuryl fluoride on European house borer eggs, Hylotrupes bajulus (L.) (Coleoptera: Cerambycidae),Laboratoire National de la Protection des	· · · · · · · · · · · · · · · · · · ·	EPPO, European Union, Austria, Norway

Comm no.	Para no.	Comment type	Comment	Explanation	Country
			Végétaux, Station d'Etude des Techniques de fumigation et de Protection des Denrées Stockées, Chemin d'Artigues - 33150 Cenon, France. contract research project. In <i>Inclusion of active substances in Annex I to Directive 98/8/EC</i> : Assessment report: Sulfuryl fluoride, PT8, Appendix IV (List of studies), p. 31, September 2006.		
70.	32	Technical	Ducom, P., Roussel, C. & Stefanini, V. 2003. Efficacy of sulfuryl fluoride on European house borer eggs, Hylotrupes bajulus (L.) (Coleoptera: Cerambycida), Laboratoire National de la Protection des Végétaux, Station d'Etude des Techniques de fumigation et de Protection des Denrées Stockées, Chemin d'Artigues - 33150 Cenon, France. contract research project. In Inclusion of active substances in Annex I to Directive 98/8/EC: Assessment report: Sulfuryl fluoride, PT8, Appendix IV (List of studies), p. 31, September 2006.	The US was unable to obtain a copy of this reference.	United States of America
71.	33	Technical	La Fage, J.P., Jones, M. & Lawrence, T. 1982. A laboratory evaluation of the fumigant, sulfuryl fluoride (Vikane), against the Formosan termite <i>Coptotermes formosanus</i> Shiraki. International Research Group on Wood Protection (IRGWP) Thirteenth Annual Meeting, Stockholm, May 1982. Stockholm, IRGWP Secretariat.	The US was unable to obtain a copy of this reference.	United States of America
72.	41	Substantive	Footnote 2: The minimum level of mortality achieved by the treatment for this species has been estimated by extrapolation from a model fitted to the experimental data.	Footnote 2 said: The minimum level of mortality achieved by the treatment for this species has been estimated by extrapolation from a model fitted to the experimental data. We think it is important to base these level of mortality on large scale data not on experimental data. Because the level of mortality will affect on the efficiency of the treatment. Taking into consideration that most countries looking now for an effective alternative to methyl bromide.	Bahrain