2021 FIRST CONSULTATION

1 July – 30 September 2021

Compiled comments for 2021 First Consultation: Draft ISPM: Revision of ISPM 18 (2014-007)

Summary

Name	Summary
έρρο σ	Comments from the EPPO countries
European Union	The comments on this draft standard have been entered into the OCS by the European Commission on behalf of the EU and its member States.
Nepal	No comments
Singapore	Singapore is supportive of this draft.
South Africa	The National Plant Protection Organization of South Africa is in agreement with this standard.
Venezuela	Venezuela no tiene opinión técnica.

T (Type) - B = Bullet, C = Comment, P = Proposed Change, R = Rating

FAO sequential number	Para	Text	т	Comment
1	G	(General Comment)	С	Argentina We support the comments submitted by COSAVE Category : SUBSTANTIVE
2	G	(General Comment)	С	Nepal Nepal has no comments on: Requirements for the use of irradiation as a phytosanitary measure <i>Category : EDITORIAL</i>
3	G	(General Comment)	С	Mexico Mexico supports OIRSA's comments Category : SUBSTANTIVE
4	G	(General Comment)	C	Russian Federation The Russian Federation would like to formally endorse the EPPO comments submitted via the IPPC Online Comment System Category : SUBSTANTIVE
5	G	(General Comment)	С	Canada Canada supports revision to ISPM 18. A few comments are submitted for consideration. Category : SUBSTANTIVE
6	G	(General Comment)	C	PPPO it is suggested to check where compound modifier is required and keep consistency throughout the document (e.g. change 'pest free status' to 'pest-free status') <i>Category : EDITORIAL</i>
7	G	(General Comment)	C	PPPO It is suggested that roles and responsibilities for each activities be clarified and included in the appropriate sections. e.g. who is responsible for performing dosimetry. <i>Category : SUBSTANTIVE</i>

8	G	(General Comment)	C	PPPO NZ is supportive of the changes to ISPM 18. The draft ISPM ties into the Good Practice Manual (IAEA 2015) making it easier to read and understand the irradiation concepts and principles <i>Category : SUBSTANTIVE</i>
9	G	(General Comment)	С	PPPO Numbering system has inconsistent formatting throughout document. Some sections utilise spacing and others do not. It is recommended that this is edited for consistency purposes. <i>Category : EDITORIAL</i>
10	G	(General Comment)	С	Korea, Republic of It is not clearly stated who is responsible for what throughout the document. Category : EDITORIAL
11	G	(General Comment)	C	Barbados This is a good guide for those countries seeking to put these structures in place, however the cost still remains an inhibiting factor. <i>Category : SUBSTANTIVE</i>
12	G	(General Comment)	С	Switzerland Switzerland would like to formally endorse the EPPO comments submitted via the IPPC Online Comment System <i>Category : TECHNICAL</i>
13	G	(General Comment)	С	Jamaica Jamaica supports the comments from the IPPC Caribbean Regional Workshop. <i>Category : SUBSTANTIVE</i>
14	G	(General Comment)	С	IPPC Regional Workshop Africa Malawi supports the draft with comments made in the name as Regional workshop Category : SUBSTANTIVE
15	G	(General Comment)	С	Colombia En caso de que se encuentren plagas vivas, la ONPF tendría que considerar tomar un tratamiento de emergencia e iniciar la evaluación de la viabilidad de las plagas encontradas vivas. <i>Category : SUBSTANTIVE</i>
16	G	(General Comment)	С	Colombia Se debería incluir dentro del perfil de los requisitos la información de Productos no objetivo de la irradiación, como plantas para plantar y semillas para plantar, dado que el tratamiento podría desvitalizarlas, y una situación similar ocurriría con los insumos biológicos como, entomopatógenos y organismos genéticamente modificados. <i>Category : SUBSTANTIVE</i>
17	G	(General Comment)	С	Colombia Se sugiere indicar las fuentes bibliográficas en las cuales se puede consultar el manejo de residuos del proceso de irradiación, teniendo en cuenta lo establecido en el párrafo 49. <i>Category : SUBSTANTIVE</i>
18	G	(General Comment)	С	COSAVE We highlight the importance of having better traslation into Spanish in order to be consistent with the English version. Se destaca la importancia de contar con traducciones al español que reflejen mejor el contenido de la versión en inglés <i>Category : TRANSLATION</i>
19	G	(General Comment)	С	Uruguay We highlight the importance of having better translation into Spanish in order to be consistent with the English version <i>Category : TRANSLATION</i>
20	G	(General Comment)	С	Malawi We support the draft revision of ISPM 18: Requirements for the use of irradiation as phytosanitary measure Category : SUBSTANTIVE

21	G	(General Comment)	С	United States of AmericaUsing word "requirements" versus "guidelines"/ "recommendations" in some ISPMs causes confusion in WTO disputes.It is suggest that all titles be revised to eliminate these words because all ISPMs have both requirements and recommendations, as well as technical information. This standard would thus be titled simply "The use of irradiation as a phytosanitary measure" or "Irradiation as a phytosanitary measure".The important thing is then to clearly distinguish within the standard (and all standards) what are actual requirements and what are simply recommendations or useful information. This will greatly simplify the interpretation of standards in disputes.Category : SUBSTANTIVE
22	G	(General Comment)	С	Caribbean Agricultural Health and Food Safety Agency T&T endorses the revision of this ISPM. Category : SUBSTANTIVE
23	G	(General Comment)	С	Caribbean Agricultural Health and Food Safety Agency We support the document and we have no issues with the adoption of the standard. Category : SUBSTANTIVE
24	G	(General Comment)	С	Caribbean Agricultural Health and Food Safety Agency Guyana has no objection with the proposed draft ISPM at this time. Category : SUBSTANTIVE
25	G	(General Comment)	С	Caribbean Agricultural Health and Food Safety Agency This is highly technical. It would apply to countries that operate these facilities and those requiring the service. <i>Category : TECHNICAL</i>
26	G	(General Comment)	С	Caribbean Agricultural Health and Food Safety Agency A relevant and important standard . Category : EDITORIAL
27	G	(General Comment)	С	Caribbean Agricultural Health and Food Safety Agency This is a good guide for those countries seeking to put these structures in place, however the cost still remains an inhibiting factor. Category : SUBSTANTIVE
28	G	(General Comment)	C	Saint Vincent and The Grenadines The information is highly technical. It is applicable to countries that operate irradiation facilities and those needing to access the service. Category : TECHNICAL
29	G	(General Comment)	С	Myanmar Agree Category : TECHNICAL
30	G	(General Comment)	С	Bahrain Bahrain has no comments <i>Category : SUBSTANTIVE</i>
31	G	(General Comment)	С	Costa Rica Inconsistencias con la traducciones de algunos términos por ejemplo: "ensuring" se traduce como "garantizar" cuando se considera que el mejor término es "asegurar". "trace-back": como rasteo cuando se considera como mejor término en español "rastreabilidad" "pallet", en español se entiende como "paleta" "packing" o "unpacking": se traduce como "envasado" cuando se considera que el mejor término es "embalado" Se destaca la importancia de contar con traducciones al español que reflejen mejor el contenido de la versión en inglés Category : TRANSLATION
32	G	(General Comment)	С	Mexico México apoya los comentarios de OIRSA

				Category : SUBSTANTIVE
33	G	(General Comment)	С	Panama Cambiar en el cuerpo de la norma los términos envasado por embalado; envase por embalaje; garantizar por asegurar y rastreo por rastreabilidad <i>Category : EDITORIAL</i>
34	G	(General Comment)	С	OIRSA cambiar en el cuerpo de la norma el termino "envasado" por "embalado" γ también "envase" por "embalaje" <i>Category : EDITORIAL</i>
35	G	(General Comment)	С	OIRSA cambiar los términos: Garantizar por Asegurar Rastreo por Rastreabilidad <i>Category : EDITORIAL</i>
36	G	(General Comment)	С	Myanmar Agree Category : TECHNICAL
37	G	(General Comment)	С	Congo i agree with this ISPM and i have no comments to add <i>Category : TECHNICAL</i>
38	G	(General Comment)	С	Myanmar Agree Category : TECHNICAL
39	1	DRAFT Revision of ISPM 18: Requirements for the use of irradiation as a phytosanitary measure (2014-007)	С	Viet Nam Vietnam requests to add more content about the case that the treatment does not meet the phytosanitary requirements of the importing country in this draft ISPM. <i>Category : SUBSTANTIVE</i>
Scope				
40	28	This standard provides technical guidance requirements on the application of ionizing radiation as a phytosanitary measure. This standard does not provide details on specific irradiation treatments, such as specific schedules for specific regulated pests on specific commodities,	p	United States of America For consistency with the title of this draft. <i>Category : TECHNICAL</i>

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		or treatments used for		
		the production of sterile		
		organisms for pest		
		control.		
41	28	This standard provides technical guidance on the application of ionizing radiation as a phytosanitary measure. This standard does not provide details on specific irradiation treatments, such as specific schedules for specific regulated pests on specific commodities, or treatments used for the production of sterile organisms for pest control.	C	United States of America May it be worthwhile to include in parentheses "gamma radiation, X rays, accelerated electrons"? Category : TECHNICAL
References		control.		
42	31	APPPC (Asia and	Р	COSAVE
-72	51	Pacific Plant Protection		Consequential deletion as per comment in paragraph 105
		Commission). 2014.		Category : TECHNICAL
		Approval of irradiation		
		<i>Approval of trradiation</i> <i>facilities</i> . Regional		
		<i>facuttes</i>. Regional Standard for		
		Phytosanitary Measures (RSPM) 9. Bangkok,		
		(RSPM) 9. Bangkok, APPPC, FAO Regional		
		APPPC, FAO Regional Office for Asia and the		
12	21	Pacific. 20 pp.		
43	31	APPPC (Asia and	Р	Kenya
		Pacific Plant Protection		Category : TECHNICAL
		Commission). 2014.		
		Approval of irradiation		
		facilities. Regional		
		Standard for		
		Phytosanitary Measures		

		(RSPM) 9. Bangkok, APPPC, FAO Regional Office for Asia and the Pacific. 20 pp. <u>Codex</u> <u>Alimentarius (1983)</u> <u>General Standards food</u> <u>for irradiation food - rev.</u> 1 2003		
44	31	APPPC (Asia and Pacific Plant Protection Commission). 2014. Approval of irradiation facilities. Regional Standard for Phytosanitary Measures (RSPM) 9. Bangkok, APPPC, FAO Regional Office for Asia and the Pacific. 20 pp.	Ρ	Uruguay Consequential deletion as per comment in paragraph 105 <i>Category : TECHNICAL</i>
45	34	ISO/ASTM 51261:2013. Practice for calibration of routine dosimetry systems for radiation processing, 2nd edn. United States of America, International Organization for Standardization and ASTM International.	С	United States of America There is a new version/citation of ISO / ASTM51261 - 13(2020) Standard Practice for Calibration of Routine Dosimetry Systems for Radiation Processing. https://www.astm.org/Standards/ISOASTM51261.htm Category : TECHNICAL
Definitions 46	36	Las definiciones de los términos fitosanitarios utilizados en la presente norma figuran en la NIMF 5 (<i>Glosario de</i> <i>términos</i>	Р	Costa Rica Se considera necesario incluir este término, esto permitiería tener una mejor lectura de la norma al ser un tema muy específico. Adicionalmente, este término no está definido en el Glosario de términos (NIMF 5). Valorar si es conveniente incluirlo en el texto o incluirlo en la NIMF 5. Fuente de la definición: OIEA (Organismo Internacional de Energía Atómica) 2015. Manual de buenas prácticas para la irradiación de alimentos: aplicaciones sanitaria, fitosanitaria y de otro tipos (versión en español) <i>Category : SUBSTANTIVE</i>

			`	
		<i>fitosanitarios</i>). <u>Configura</u> <u>ción de carga:</u>		
		Disposición definida del		
		producto (alimento)		
		colocado dentro del		
		contenedor de		
		irradiación o sobre este.		
		<u>Se realiza un mapeo de</u>		
		dosis con una configuración de carga		
		en particular y esta		
		<u>configuración de carga</u>		
		<u>se repite para garantizar</u>		
		la irradiación sistemática		
		del producto (OIEA,		
		2015).		
47	36	Las definiciones de los	Р	Panama
		términos fitosanitarios		Se considera necesario incluir este término (configuración de carga) en las definiciones de la NIMF 18 o su inclusión en la NIMF 5, para mejor comprensión de esta NIMF 18
		utilizados en la presente		Category : SUBSTANTIVE
		norma figuran en la		
		NIMF 5 (Glosario de		
		términos		
		fitosanitarios). <u>Configura</u>		
		ción de carga: Disposición definida del		
		producto (alimento)		
		colocado dentro del		
		contenedor de		
		irradiación o sobre este.		
		Se realiza un mapeo de		
		dosis con una		
		configuración de carga		
		<u>en particular y esta</u>		
		configuración de carga		
		se repite para garantizar		
		la irradiación sistemática		
		del producto.		

48	36	Las definiciones de los términos fitosanitarios utilizados en la presente norma figuran en la NIMF 5 (<i>Glosario de</i> <i>términos</i> <i>fitosanitarios</i>).Carga del proceso: Material con una configuración de carga especificada que es irradiado como una sola entidad Configuración de carga: Disposición definida del producto (alimento) colocado dentro del contenedor de irradiación o sobre este. Se realiza un mapeo de dosis con una configuración de carga en particular y esta configuración de carga se repite para garantizar la irradiación sistemática del producto.	Ρ	OIRSA Se considera necesario incluir estas 2 definiciones en virtud de que son muy específicas y podrían aclarar el contenido de la norma y además no están incluidas en la NIMF 5 <i>Category : SUBSTANTIVE</i>
Outline of re	equirer			
49	37	Outline of requirements	C	PPPO This section is an odd mix of detail and does not align with how other recent ISPMs on treatments are written. suggest using similar wording in the recent treatment ISPMs. Paragraphs [40][41][42][43] should be deleted. see comment below. <i>Category : EDITORIAL</i>
50	38	This standard provides guidance on how irradiation treatments may be used for pest management to comply with phytosanitary import requirements.	С	Barbados This standard provides guidance on how irradiation treatments may be used to comply with phytosanitary import requirements. Category : SUBSTANTIVE

51	38	This standard provides guidance on how irradiation treatments may be used for pest <u>risk</u> management to comply with phytosanitary import requirements.	Р	COSAVE Irradiation is defined in ISPM 5 as a treatment, thus irradiation treatment is redundance. Irradiation as a phytosanitary measure is used for pest risk management <i>Category : TECHNICAL</i>
52	38	This standard provides guidance-requirements on how irradiation treatments may be used for pest management to comply with phytosanitary import requirements.	Ρ	United States of America For consistency with the title of this draft. <i>Category : TECHNICAL</i>
53	38	This standard provides guidance on how irradiation treatments may be used for pest management to comply with phytosanitary import requirements.	С	Caribbean Agricultural Health and Food Safety Agency Suggest rewording: This standard provides guidance on how irradiation treatments may be used to comply with phytosanitary import requirements. <i>Category : SUBSTANTIVE</i>
54	38	This standard provides guidance on how irradiation treatments may be used for pest management to comply with phytosanitary import requirements.	С	United States of America We aren't managing the pest, we are managing the RISK associated with pests. <i>Category : TECHNICAL</i>
55	38	This standard provides guidance on how irradiation treatments may be used for pest risk management to comply with phytosanitary import requirements.	Ρ	Uruguay Irradiation is defined in ISPM 5 as a treatment, thus irradiation treatment is redundant. Irradiation as a phytosanitary measure is used for pest risk management <i>Category : TECHNICAL</i>
56	38	La presente norma proporciona orientación sobre cómo podrán	Р	Costa Rica Por definición la irradiación es un tratamiento por lo que se considera que no es necesario repetirlo. Consistencia con la versión en inglés "management" como "manejo"

		<u>podrá</u> usarse los		Category : SUBSTANTIVE
		tratamientos de <u>la</u>		
		irradiación para el		
		control <u>manejo</u> de plagas		
		a efectos de cumplir con		
		los requisitos		
		fitosanitarios de		
		importación.		
57	38	La presente norma proporciona orientación	Р	Costa Rica Consistencia con el ambito de la Norma
		técnica sobre cómo		Category : EDITORIAL
		podrán usarse los		
		tratamientos de		
		irradiación para el		
		control de plagas a		
		efectos de cumplir con		
		los requisitos		
		fitosanitarios de		
		importación.	-	
58	39	The roles and	Р	COSAVE Better wording and consistency with the scope
58	39	The roles and responsibilities of parties	Р	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in	Ρ	
58	39	The roles and responsibilities of parties involved in phytosanitary the use of	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation as a	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary-the use of irradiation as a phytosanitary measure	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation as a phytosanitary measure are described. Guidance	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary-the use of irradiation as a phytosanitary measure	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation as a phytosanitary measure are described. Guidance	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation as a phytosanitary measure are described. Guidance is provided to national plant protection	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national plant protection organizations (NPPOs) on responsibilities for	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national plant protection organizations (NPPOs)	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national plant protection organizations (NPPOs) on responsibilities for approving treatment facilities, and for	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national plant protection organizations (NPPOs) on responsibilities for approving treatment	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary-the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national plant protection organizations (NPPOs) on responsibilities for approving treatment facilities, and for monitoring and auditing treatment facilities and	Ρ	Better wording and consistency with the scope
58	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national plant protection organizations (NPPOs) on responsibilities for approving treatment facilities, and for monitoring and auditing treatment facilities and providers.	Ρ	Better wording and consistency with the scope
		The roles and responsibilities of parties involved in phytosanitary the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national plant protection organizations (NPPOs) on responsibilities for approving treatment facilities, and for monitoring and auditing treatment facilities and providers. The roles and		Better wording and consistency with the scope Category : TECHNICAL United States of America For consistency with the title of the draft.
		The roles and responsibilities of parties involved in phytosanitary the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national plant protection organizations (NPPOs) on responsibilities for approving treatment facilities, and for monitoring and auditing treatment facilities and providers.		Better wording and consistency with the scope Category : TECHNICAL

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		phytosanitary irradiation are described. Guidance is-Requirements are provided to national plant protection organizations (NPPOs) on responsibilities for approving treatment facilities, and for monitoring and auditing treatment facilities and providers.		
60	39	The roles and responsibilities of parties involved in phytosanitary the use of irradiation <u>as a</u> phytosanitary measure are described. Guidance is provided to national plant protection organizations (NPPOs) on responsibilities for approving treatment facilities, and for monitoring and auditing treatment facilities and providers.	р	Uruguay Better wording and consistency with the scope Category : TECHNICAL
61	39	Se describen las funciones y responsabilidades de las partes que intervienen en la irradiación <u>como una</u> <u>medida</u> fitosanitaria. Se proporciona orientación a las organizaciones nacionales de protección fitosanitaria (ONPF) sobre las	р	Costa Rica Consistencia con el ämbito <i>Category : SUBSTANTIVE</i>

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		responsabilidades en materia de aprobación de instalaciones de tratamiento y de supervisión y auditoría de las instalaciones y los proveedores del tratamiento.		
62	40	The NPPO is responsible for ensuring that the minimum absorbed dose has reached the required level to achieve the stated efficacy.	Ρ	Korea, Republic of Paragraphs [40] [41] [42] [43] are not relevant for outline of requirements <i>Category : SUBSTANTIVE</i>
63	40	The NPPO is responsible for ensuring that the minimum absorbed dose has reached the required level to achieve the stated efficacy.	Ρ	PPPO Paragraphs [40] [41] [42] [43] describe what is involved in approving a treatment provider which is covered by the previous paragraph [39]. these paras can be incorporated into the appropriate sections. If these paragraphs are not deleted then it needs to be clear who is required to do these activities e.g. record keeping and documentation is the responsibility of the treatment provider. <i>Category : SUBSTANTIVE</i>
64	40	The NPPO of the country of irradiation treatment is responsible for ensuring that the minimum absorbed dose has reached the required level to achieve the stated efficacy.	Ρ	Australia Additional text to clarify that it is the NPPO of the country of treatment that is responsible. <i>Category : EDITORIAL</i>
65	40	Las ONPF serán las encargadas de garantizar que la dosis mínima absorbida (D_{min}) alcanza el nivel requerido para lograr la eficacia establecida.	C	Costa Rica Mejor traducción del término "ensuring". Consistencia con el comentario general <i>Category : TRANSLATION</i>
66	41	Application of the treatment requires dosimetry and dose	Р	PPPO see above Category : SUBSTANTIVE

20211131.0018	Suitation	I. Dialt ISPIN. Revision of ISPIN	110 (2014-007) Complex comments – 2021 Prist consultation
		mapping to ensure that the treatment is effective		
		with specific commodity		
67		configurations.		
67	41	<u>Application of the</u>	Р	Korea, Republic of
		treatment requires		Category : SUBSTANTIVE
		dosimetry and dose		
		mapping to ensure that		
		the treatment is effective		
		with specific commodity		
		configurations.		
68	42	The NPPO is responsible	Р	PPPO
		for ensuring that		see above <i>Category : SUBSTANTIVE</i>
		treatment facilities are		Category . Sobstantive
		appropriately designed		
		for phytosanitary		
		treatments. Procedures		
		should be in place to		
		ensure that the treatment		
		can be conducted		
		properly and		
		consistently. Systems		
		should be implemented		
		to prevent the infestation		
		or contamination of the		
		irradiated commodity,		
		including accidental		
		mixing with untreated		
		commodities.		
69	42	The NPPO is responsible	Р	Korea, Republic of
		for ensuring that		Category : SUBSTANTIVE
		treatment facilities are		Category . Sobstaintive
		appropriately designed		
		for phytosanitary		
		treatments. Procedures		
		should be in place to		
		ensure that the treatment		
		can be conducted		
		properly and		

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		1		
		consistently. Systems should be implemented to prevent the infestation or contamination of the irradiated commodity, including accidental mixing with untreated commodities.		
70	42	The NPPO is responsible for ensuring that treatment facilities are appropriately designed for <u>relevant</u> phytosanitary treatments. Procedures should be in place to ensure that the treatment can be conducted properly and consistently. Systems should be implemented to prevent the infestation or contamination of the irradiated commodity, including accidental mixing with untreated commodities.	р	United States of America Insertion "relevant" is to indicate that facilities usually differ by their design, according to the type of treatments. The last phrase is common to all treatments. While we are trying to keep the consistent language for all treatment application ISPMs, making specific designation where appropriate is a reasonable expectation. <i>Category : TECHNICAL</i>
71	42	The NPPO is responsible for ensuring that treatment facilities are appropriately designed for phytosanitary treatments. Procedures should be in place to ensure that the treatment can be conducted properly and consistently. Systems	Ρ	Uruguay To consider the intended use of the commodity is also a requirement <i>Category : TECHNICAL</i>

		should be implemented		
		to prevent the infestation		
		or contamination of the		
		irradiated commodity,		
		including accidental		
		mixing with untreated		
		commodities.The		
		intended use of the		
		commodity should be		
		considered		
72	43	Record keeping and	Р	РРРО
		documentation		see above comment
		requirements should be		Category : SUBSTANTIVE
		met to enable auditing		
		and trace-back.		
73	43	Record keeping and	Р	Korea, Republic of
		documentation		Category : SUBSTANTIVE
		requirements should be		Calegoly . SUBSTAINTIVE
		met to enable auditing		
		and trace-back.		
74	43	The intended use of the	Р	COSAVE
		commodity should be considered.Record		To consider the intended use of the commodity is also a requirement Category : TECHNICAL
		keeping and		
		documentation		
		requirements should be		
		met to enable auditing		
		and trace-back.		
75	43	Asimismo, deberían	Р	Costa Rica
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	15	satisfacerse los	·	Mejor traducción del término "Trace-back".
		requisitos de		Consistencia con el comentario general
		mantenimiento de		Category : TRANSLATION
		registros y		
		documentación para		
		permitir la auditoría y el		
		rastreola rastreabilidad.		
BACKGROU	ND	rasucola rasucavilluau.		
76	46	ISPM 28 was adopted to	Р	PPPO
		harmonize effective	-	
				Category : EDITORIAL

		phytosanitary treatments over a wide range of circumstances and to enhance the mutual recognition of treatment efficacy by NPPOs, which may facilitate trade. ISPM 28 provides requirements for submission and evaluation of efficacy data and other relevant information on phytosanitary treatments , and <u>.</u> The <u>ISPM 28</u> annexes with <u>contain</u> specific irradiation treatments that have been evaluated and adopted by the Commission on		
77	46	Phytosanitary Measures. ISPM 28 was adopted to harmonize effective phytosanitary treatments over a wide range of circumstances and to enhance the mutual recognition of treatment efficacy by NPPOs, which may facilitate <u>safe</u> trade. ISPM 28 provides requirements for submission and evaluation of efficacy data and other relevant information on phytosanitary	Ρ	IPPC Regional Workshop Africa Category : SUBSTANTIVE

		treatments, and annexes with specific irradiation		
		treatments that have		
		been evaluated and		
		adopted by the		
		Commission on		
		Phytosanitary Measures.		
78	47	Irradiation is considered	Р	COSAVE
		to be effective when the		 Refer to dose for simplification All Glossary terms used in ISPMs should be used as defined in ISPM 5, and this is explicitly said in the definition
		phytosanitary treatment		section
		dose of ionizing		Category : TECHNICAL
		radiation (hereafter		
		referred to as the		
		"phytosanitary treatment		
		dose") <u>"dose")</u> required		
		by the treatment		
		schedule is absorbed at		
		the location in the		
		process load (as defined		
		in ISPM 5)-that receives		
		the lowest dose of		
		radiation. Therefore,		
		process control relies on		
		identifying the minimum		
		dose location for a		
		specific commodity		
		configuration and		
		routinely delivering to		
		this location a dose of		
		ionizing radiation (a		
		minimum dose) that is		
		equal to or greater than		
		the required		
		phytosanitary treatment		
		dose. The effectiveness		
		of the treatment process		
		as a whole also includes		
		measures applied to		
		prevent infestation or		

		contamination after irradiation.		
79	47	Irradiation is considered to be effective when the phytosanitary treatment dose of ionizing radiation (hereafter referred to as the "phytosanitary treatment dose") required by the treatment schedule is absorbed at the location in the process load (as defined in ISPM 5) that receives the lowest dose of radiation. Therefore <u>5</u>), process control relies on identifying the minimum dose (<u>Dmin</u>) location for a specific commodity configuration and routinely delivering to this location a dose of ionizing radiation (a (the minimum dose) dose (<u>Dmin</u>)) that is equal to or greater than the required <u>for</u> phytosanitary treatment dose. The effectiveness of the treatment process as a whole also includes measures applied to prevent infestation or contamination after	p	United States of America It is important to introduce the concept of the minimum dose (Dmin) required for a phytosanitary irradiation treatment. <i>Category : TECHNICAL</i>
		irradiation.		

80	47	Irradiation is considered to be effective when the phytosanitary treatment dose of ionizing radiation (hereafter referred to as the "phytosanitary treatment dose") required by the treatment schedule is absorbed at the location in the process load (as defined in ISPM 5) that receives the lowest dose of radiation. Therefore, process control relies on identifying the minimum	C	United States of America ISPM-5 does not define "commodity configuration" and only refers to "process load", defined as a volume of material with a specific loading configuration and treated as a single entity." Therefore, should this be clarified here: commodity configuration, i.e., the defined arrangement of product (food/commodity) placed in or on the irradiation container)? <i>Category : TECHNICAL</i>
		dose location for a specific commodity configuration and routinely delivering to this location a dose of ionizing radiation (a minimum dose) that is equal to or greater than the required phytosanitary treatment dose. The effectiveness of the treatment process as a whole also includes measures applied to prevent infestation or contamination after irradiation.		
81	47	Irradiation is considered to be effective when the phytosanitary treatment dose of ionizing radiation (hereafter referred to as the	Ρ	Uruguay 1) Refer to dose for simplification. 2) All Glossary terms used in ISPMs should be used as defined in ISPM 5, and this is explicitly said in the definition section <i>Category : TECHNICAL</i>

		"phytosanitary treatment		
		dose") "dose") required		
		by the treatment		
		schedule is absorbed at		
		the location in the		
		process load (as defined		
		in ISPM 5) that receives		
		the lowest dose of		
		radiation. Therefore,		
		process control relies on		
		identifying the minimum		
		dose location for a		
		specific commodity		
		configuration and		
		routinely delivering to		
		this location a dose of		
		ionizing radiation (a		
		minimum dose) that is		
		equal to or greater than		
		the required		
		phytosanitary treatment		
		dose. The effectiveness		
		of the treatment process		
		as a whole also includes		
		measures applied to		
		prevent infestation or		
		contamination after		
		irradiation.		
IMPACTS O	N BIOD	IVERSITY AND THE ENVI	RONMENT	
82	49	The use of irradiation as	С	Guyana
		a phytosanitary measure		Proposes that the negative impacts of irradiation need to be highlighted as well.
		has a beneficial impact		In the standard for fumigation, both the positive and negative impacts on biodiversity and the environment were stated.
		on biodiversity and the		Category : SUBSTANTIVE
		environment by		
		preventing the		
		introduction and spread		
		of regulated pests with		

		the trade of plants and plant products.		
83	49	The use of irradiation as a phytosanitary measure has a beneficial impact has Has no detrimental effect on biodiversity and-nor on the environment environment, provided no radioactive materials remain in the treated product.by preventing the introduction and spread of regulated pests with the trade of plants and plant products.	Р	Barbados The negative impacts of irradiation need to be highlighted as well. In the standard for fumigation, both the positive and negative impacts on biodiversity and the environment were stated. <i>Category : SUBSTANTIVE</i>
84	49	The use of <u>ionizing</u> irradiation as a phytosanitary measure has a beneficial impact on biodiversity and the environment by preventing the introduction and spread of regulated pests with the trade of plants and plant products.	Ρ	IPPC Regional Workshop Africa Category : SUBSTANTIVE
85	49	The use of irradiation as a phytosanitary measure has a beneficial impact on biodiversity and the environment by preventing the introduction and spread of regulated pests with the trade of plants and plant products.	С	Caribbean Agricultural Health and Food Safety Agency Jamaica proposes that the negative impacts of irradiation need to be highlighted as well. In the standard for fumigation, both the positive and negative impacts on biodiversity and the environment were stated. <i>Category : SUBSTANTIVE</i>

86	49	The use of irradiation as a phytosanitary measure has a beneficial impact on biodiversity and the environment by preventing the introduction and spread of regulated pests with the trade of plants and plant products.	С	Caribbean Agricultural Health and Food Safety Agency Alternatively: Has no detrimental effect on biodiversity nor on the environment, provided no radioactive materials remain in the treated product. Category : EDITORIAL
87	49	El uso de la irradiación como medida fitosanitaria tiene un efecto beneficioso para la biodiversidad y el medio ambiente, ya que previene la introducción y la dispersión de plagas reglamentadas con el comercio de plantas y productos vegetales <u></u> <u>siempre y cuando los</u> <u>residuos del proceso de</u> <u>irradiación sean</u> <u>manejados o dispuestos</u> <u>de forma adecuada</u> .	Ρ	Colombia No se debe desconocer que la contaminación radiactiva ocurre cuando se deposita material radiactivo sobre un objeto o una persona o en su interior. Los materiales radiactivos liberados al ambiente pueden causar la contaminación del aire, el agua, las superficies, los suelos, las plantas, las edificaciones, las personas o los animales. Por tanto, se debe tener especial cuidado en el manejo de material o residuos originados de procesos de irradiación. <i>Category : SUBSTANTIVE</i>
1. Irradiat	ion obj	ective		
88	51	1. Ionizing	Р	IPPC Regional Workshop Africa
		Irradiation objective	_	Category : SUBSTANTIVE
89	52	The objective of using	Р	European Union

		J		Categoly . SUDSTANTIVE
89	52	The objective of using irradiation as a phytosanitary measure is to achieve <u>certain pest</u> <u>responses</u> at a specified <u>efficacy certain pest</u> <u>responsesefficacy</u> , such as:	Ρ	European Union To improve readability. Category : EDITORIAL

90	52	The objective of using irradiation as a phytosanitary measure is to achieve achieve, at a specified efficacy efficacy, certain pest responses, such as:	Ρ	PPPO this editorial amendment aims to emphasise that the key message here is around using irradiation at a specified efficacy to achieve the outcome. <i>Category : EDITORIAL</i>
91	52	The objective of using <u>ionizing</u> irradiation as a phytosanitary measure is to achieve at a specified efficacy certain pest responses, such as:	Р	IPPC Regional Workshop Africa Category : SUBSTANTIVE
92	52	The objective of using irradiation as a phytosanitary measure is to achieve at a specified efficacy certain pest responses, at a specified efficacy such as:	Ρ	COSAVE Better reading Category : EDITORIAL
93	52	The objective of using irradiation as a phytosanitary measure is to achieve <u>certain pest</u> <u>responses</u> at a specified <u>efficacy certain pest</u> <u>responsesefficacy</u> , such as:	Р	EPPO To improve readability <i>Category : EDITORIAL</i>
94	52	The objective of using irradiation as a phytosanitary measure is to achieve at a specified efficacy certain pest-any of the following required responses, such as:	Ρ	United States of America Better language Category : EDITORIAL
95	52	The objective of using irradiation as a phytosanitary measure is to achieve at a specified	Р	Uruguay Better reading Category : EDITORIAL

		efficacy certain pest responses, at a specified		
		efficacy, such as:		
96	52	El objetivo de utilizar la irradiación como medida fitosanitaria es conseguir ciertas respuestas una <u>determinada respuesta</u> de la plaga con un nivel de eficacia determinado<u>especificado</u> , por ejemplo:	Ρ	Costa Rica el objetivo de la irradiación es conseguir una respuesta de la plaga, que ya ha sido estudiada por lo que al aplicarlo ya se espera que la plaga se comporte de acuerdo al resultado obtenido. Aclara la redacción del texto <i>Category : SUBSTANTIVE</i>
97	52	El objetivo de utilizar la irradiación como medida fitosanitaria es conseguir ciertas respuestas de la plaga <u>cuarentenaria</u> con un nivel de eficacia determinado, por ejemplo:	Ρ	Colombia Dar mayor claridad sobre la identificación específica del riesgo a mitigar y sobre la cual se genera el tratamiento. <i>Category : SUBSTANTIVE</i>
98	53	mortalitymortality with time limit;	Р	Korea, Republic of improve clarity Category : SUBSTANTIVE
99	56	inactivation <u>inactivation</u> of microorganisms; or	Р	United States of America clarity Category : TECHNICAL
100	56	inactivation; or	С	United States of America Should this term be removed, because inactivation can mean death, live status but immobile or diapausing life stages, or immobility due to environmental stress (e.g., low temperature)? <i>Category : TECHNICAL</i>
101	57	devitalization of plants as pests (e.g. seeds may germinate but seedlings do not grow; or tubers, <u>bulbs-tubers</u> or cuttings <u>bulbs</u> do not sprout).	Ρ	European Union Even if "cuttings" probably refers to commodities such as cut flowers or cut foliage and this example is given in the current version of ISPM 18, it is rather ambiguous because a cutting is often understood as a "part of a plant separated from it and induced to form roots to become an individual plant on its own". Therefore it seems preferable not to keep this confusing example. <i>Category : TECHNICAL</i>
102	57	devitalization of plants as pests (e.g. seeds may germinate but seedlings do not grow; or tubers,	Ρ	EPPO Even if "cuttings" probably refers to commodities such as cut flowers or cut foliage and this example is given in the current version of ISPM 18, it is rather ambiguous because a cutting is often understood as a "part of a plant separated from it and induced to form roots to become an individual plant on its own". Therefore it seems preferable not to keep this confusing example.

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			- (
		bulbs_tubers_or euttings bulbs_do not sprout).		Category : TECHNICAL
103	58	Where the required response is the inability of the pest to reproduce, the following options may be specified: A range of specific options may be specified where the required response is the inability of the pest to reproduce. These may include:	Ρ	COSAVE For simplification and better reading <i>Category : EDITORIAL</i>
104	58	A range of specific options may be specified where-Where the required response is the inability of the pest to reproduce. These, the following options may includebe specified:	Ρ	Uruguay For simplification and better reading <i>Category : EDITORIAL</i>
105	59	complete sterility;	С	United States of America Combine these two statements into "Complete sterility in one or both sexes" Category : TECHNICAL
106	60	limited fertility of only one sex;	С	United States of America See comment above Category : TECHNICAL
107	60	la fertilidad limitada de solo uno de los sexos;	Р	Panama En consistencia con la versión en inglés Category : SUBSTANTIVE
108	60	la fertilidad limitada de solo uno de los sexos;	Р	OIRSA en consistencia con la versión en ingles <i>Category : TRANSLATION</i>
109	61	la puesta <u>oviposición</u> o eclosión de huevos que no se llegan a desarrollar;	Р	Costa Rica Término más correcto Category : SUBSTANTIVE
110	61	la puesta <u>oviposición</u> o eclosión de huevos que no se llegan a desarrollar;	Р	Panama Uso correcto de los términos técnicos Category : TECHNICAL

111	61	la puesta o <u>oviposición y</u> eclosión de huevos que no se llegan a desarrollar;	Ρ	Colombia Cambiar la palabra "puesta o" por oviposición. El termino oviposición es más usados en términos biológicos <i>Category : EDITORIAL</i>
112	61	la puesta <u>oviposición</u> o eclosión de huevos que no se llegan a desarrollar;	Ρ	OIRSA termino correcto <i>Category : EDITORIAL</i>
2. Irradiati				
113	63	2. <u>Ionizing</u>	Р	IPPC Regional Workshop Africa
		Irradiation		Category : SUBSTANTIVE
		application		
114	64	Ionizing radiation may be provided by radioactive isotopes (gamma rays from cobalt-60 or caesium- 137), electrons (up to 10 MeV) or X-rays (up to 7.5 MeV) generated from machine sources. The unit of measurement for absorbed dose is the gray (Gy)(Gy) which is equivalent to the absorption of 1J/kg.	Ρ	United States of America to clarify <i>Category : TECHNICAL</i>
115	65	The phytosanitary treatment dose is the minimum dose required to achieve pest management at a specified efficacy. The treatment is entirely dependent upon the understanding of dose distribution within the commodity	Ρ	PPPO more suitable English word <i>Category : EDITORIAL</i>

	1			
		configuration and		
		consistent presentation		
		of the process load to the		
		ionizing radiation.		
		Factors that may alter		
		the effectiveness of the		
		treatment may include		
		erratic inconsistent		
		commodity		
		configurations in the		
		process load and		
		variable levels of oxygen		
110	65	(O ₂).		
116	65	The phytosanitary	Р	Barbados "entirely" be removed as this is not the only factor that may alter the effectiveness of the application.
		treatment dose is the		Category : SUBSTANTIVE
		minimum dose required		
		to achieve pest		
		management at a		
		specified efficacy. The		
		treatment is entirely is dependent upon the		
		understanding of dose distribution within the		
		commodity		
		configuration and consistent presentation		
		of the process load to the		
		ionizing radiation.		
		Factors that may alter		
		the effectiveness of the		
		treatment may include		
		erratic commodity		
		configurations in the		
		process load and		
		variable levels of oxygen		
		(O_2) .		
117	65	The phytosanitary	Р	COSAVE
/		treatment dose is the		See comment in paragraph 47. Consistency with the irradiation objective described in paragraph 52
		minimum dose required		Category : TECHNICAL
		minimum dose required		

118	to achieve the pest management response at a specified efficacy. The treatment is entirely dependent upon the understanding of dose distribution within the commodity configuration and consistent presentation of the process load to the ionizing radiation. Factors that may alter the effectiveness of the treatment may include erratic commodity configurations in the process load and variable levels of oxygen (O_2) .65The phytosanitary treatment dose is the minimum dose (Dmin), required to achieve pest management at a specified efficacy. The treatment is entirely dependent upon the understanding of dose distribution within the commodity configuration and consistent presentation of the process load to the inimum dose (Dmin), required to achieve pest management at a specified efficacy. The treatment is entirely dependent upon the understanding of dose distribution within the commodity configuration and consistent presentation of the process load to the ionizing radiation. Factors that may alter the effectiveness of the treatment may include	P	United States of America simplify Category : EDITORIAL	
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		erratic commodity		
		configurations in the		
		process load and		
		variable levels of oxygen		
		(O ₂).		
119	65	The phytosanitary	Р	Caribbean Agricultural Health and Food Safety Agency
		treatment dose is the		Jamaica proposes that the word "entirely" be removed as this is not the only factor that may alter the effectiveness of
		minimum dose required		the application.
		to achieve pest		Category : SUBSTANTIVE
		_		
		management at a		
		specified efficacy. The		
		treatment is entirely		
		dependent upon the		
		understanding of dose		
		distribution within the		
		commodity		
		configuration and		
		consistent presentation		
		of the process load to the		
		ionizing radiation.		
		Factors that may alter		
		the effectiveness of the		
		treatment may include		
		erratic commodity		
		configurations in the		
		process load and		
		variable levels of oxygen		
		(O ₂).		
120	65	The phytosanitary	С	Caribbean Agricultural Health and Food Safety Agency
		treatment dose is the		Jamaica proposes that the word "entirely" be removed as this is not the only factor that may alter the effectiveness of
		minimum dose required		the application. <i>Category : SUBSTANTIVE</i>
		to achieve pest		
		management at a		
		specified efficacy. The		
		treatment is entirely		
		dependent upon the		
		understanding of dose		
		distribution within the		
		commodity		

		configuration and consistent presentation of the process load to the ionizing radiation. Factors that may alter the effectiveness of the treatment may include erratic commodity configurations in the process load and variable levels of oxygen (O_2) .		
121	65	The phytosanitary treatment dose is the minimum dose required to achieve the pest management response at a specified efficacy. The treatment is entirely dependent upon the understanding of dose distribution within the commodity configuration and consistent presentation of the process load to the ionizing radiation. Factors that may alter the effectiveness of the treatment may include erratic commodity configurations in the process load and variable levels of oxygen (O_2) .	Ρ	Uruguay See comment in paragraph 47. Consistency with the irradiation objective described in paragraph 52 <i>Category : TECHNICAL</i>
122	65	La dosis del tratamiento fitosanitario es la dosis mínima necesaria para	Р	Costa Rica Consistencia con el párrafo 52, el objetivo de la aplicación de la irradiación es lograr la respuesta de la plaga <i>Category : SUBSTANTIVE</i>

		lograr el control <u>log</u>rar		
		<u>la respuesta</u> de la plaga		
		con un nivel de eficacia		
		especificado. El		
		tratamiento depende		
		completamente de que se		
		comprenda la		
		distribución de la dosis		
		en la configuración de		
		los productos y de que la		
		carga del proceso se		
		someta sistemáticamente		
		a la radiación ionizante.		
		Entre los factores que		
		pueden alterar la eficacia		
		del tratamiento cabe		
		mencionar la		
		configuración variable		
		de los productos en la		
		carga del proceso y las		
		variaciones en la		
		concentración de		
		oxígeno (O ₂).		
123	66	To ensure that the	Р	COSAVE
		phytosanitary treatment		See comment in paragraph 47
		dose has been attained		Category : TECHNICAL
		throughout the process		
		load, treatment		
		procedures should		
		ensure that the minimum		
		absorbed dose (D_{\min}) is at		
		least equal to the		
		required phytosanitary		
		treatment dose. The		
		intended use of the		
		commodity should be		
		considered. For		
		example, although		
		appropriate for foods		
		appropriate for roots		

International Plant Protection Convention

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		and agricultural products		
		for processing or		
		consumption, irradiation		
		may not be appropriate		
		for plants for planting as		
		it may devitalize them.		
124	66	To ensure that the	Р	United States of America
		phytosanitary treatment		better language
		dose has been attained		Category : EDITORIAL
		throughout the process		
		load, treatment		
		procedures should		
		ensure that the minimum		
		absorbed dose (D_{\min}) is at		
		least equal to the		
		required dose for		
		phytosanitary treatment		
		dose treatment. The		
		intended use of the		
		commodity should be		
		considered. For		
		example, although		
		irradiation dose		
		appropriate for foods		
		and agricultural products		
		for processing or		
		consumption, irradiation		
		may not be appropriate		
		for plants for planting as		
		it may devitalize them.		
125	66	To ensure that the	С	United States of America
		phytosanitary treatment		devitalize or mutate them Category : TECHNICAL
		dose has been attained		Category . Teoniment
		throughout the process		
		load, treatment		
		procedures should		
		ensure that the minimum		
		absorbed dose (D_{\min}) is at		

			1	
		least equal to the required phytosanitary treatment dose. The intended use of the commodity should be considered. For example, although appropriate for foods and agricultural products for processing or consumption, irradiation may not be appropriate for plants for planting as it may devitalize them.		
126	66	To ensure that the phytosanitary treatment dose has been attained throughout the process load, treatment procedures should ensure that the minimum absorbed dose (D_{min}) is at least equal to the required phytosanitary treatment dose. The intended use of the commodity should be considered. For example, although appropriate for foods and agricultural products for processing or consumption, irradiation may not be appropriate for plants for planting as it may devitalize them.	Ρ	See comment in paragraph 47. Category : TECHNICAL
127	67	In irradiation treatments, it is rare that mortality is	Р	European Union To improve readability. Category : EDITORIAL
		technically justified as		

		.1 . 1		
		the required response. It		
		is therefore possible that		
		live, though non-viable		
		<u>but non-viable,</u> target		
		pests may be found in		
		correctly treated		
		commodities. This does		
		not imply a failure of the		
		treatment. It does mean,		
		however, that it is		
		essential for the		
		treatment to be applied		
		correctly to ensure that		
		any live target-pests are		
		unable to complete		
		development or		
		otherwise reproduce. In		
		addition, it is preferable		
		that such pests are		
		unable to escape into the		
		environment unless they		
		can be distinguished		
		from non-irradiated		
		pests.		
128	67	In irradiation treatments,	Р	РРРО
		it is rare that mortality is		improve clarity
		technically justified as		Category : EDITORIAL
		the required response. It		
		is therefore possible that		
		for live, though-non-		
		viable target pests may		
		to be found in correctly		
		treated commodities.		
		This does not imply a		
		failure of the treatment.		
		It does mean, however,		
		that it is essential for the		
		treatment to be applied		
		i cament to be applied		

			- (
		correctly to ensure that		
		any live target-pests are		
		unable to complete		
		development or		
		otherwise reproduce. In		
		addition, it is preferable		
		that such pests are		
		unable to escape into the		
		environment unless they		
		can be distinguished		
		from non-irradiated		
		pests.		
129	67	In irradiation treatments,	Р	IPPC Regional Workshop Africa
		it is rare that mortality is		
		technically justified as		Category : SUBSTANTIVE
		the required response. It		
		is therefore possible that		
		live, though non-viable		
		target pests may be		
		found in correctly		
		treated commodities.		
		This does not imply a		
		failure of means that the		
		treatment <u>treatment has</u>		
		been not be applied		
		correctly. It does mean,		
		however, that it is		
		essential for the		
		treatment to be applied		
		correctly to ensure that		
		any live target-pests are		
		unable to complete		
		development or		
		otherwise reproduce. In		
		addition, it is preferable		
		that such pests are		
		unable to escape into the		
		environment unless they		
		can be distinguished		

		from non-irradiated		
		pests.		
130	67	<u>It is rare that mortality is</u> technically justified as	Р	COSAVE For clarity
		the required response to		Category : EDITORIAL
		irradiation. It is therefore		
		possible that live, though		
		non-viable target pests		
		may be found in		
		correctly treated		
		commodities. This does		
		not imply a failure of the		
		treatment. It does mean,		
		however, that it is essential for the		
		treatment to be applied		
		correctly to ensure that		
		any live target-pests are		
		unable to complete		
		development or		
		otherwise reproduce. In		
		addition, it is preferable		
		that such pests are		
		unable to escape into the		
		environment unless they		
		can be distinguished		
		from non-irradiated		
		pests.In irradiation		
		treatments, it is rare that		
		instified as the required		
		response. It is therefore		
		possible that live though		
		non-viable target nests		
		pests. In irradiation treatments, it is rare that mortality is technically justified as the required response. It is therefore possible that live, though non-viable target pests may be found in		
		correctly treated		
		correctly treated commodities. This does		
		not imply a failure of the		

	treatment. It does mean, however, that it is essential for the treatment to be applied correctly to ensure that	
	correctly to ensure that any live target pests are unable to complete development or otherwise reproduce. In addition, it is preferable that such pests are unable to escape into the environment unless they can be distinguished from non-irradiated	
131 67	pests.In irradiation treatments, it is rare that mortality is technically justified as the required response. It is therefore possible that live, though-but non- viable target pests may be found in correctly treated commodities. This does not imply a failure of the treatment. It does mean, however, that it is essential for the treatment to be applied correctly to ensure that any live target-pests are unable to complete development or otherwise reproduce. In addition, it is preferable that such pests are unable to escape into the environment unless they	EPPO To improve readability <i>Category : EDITORIAL</i>

		can be distinguished		
		from non-irradiated		
		pests.		
132	67	It is rare that mortality is	Р	Uruguay
		technically justified as		For clarity Category : EDITORIAL
		the required response to		Category . LDITORIAL
		irradiation. It is therefore		
		possible that live, though		
		non-viable target pests		
		may be found in		
		correctly treated		
		commodities. This does		
		not imply a failure of the		
		treatment. It does mean,		
		however, that it is		
		essential for the		
		treatment to be applied		
		correctly to ensure that		
		any live target-pests are		
		unable to complete		
		development or		
		otherwise reproduce. In		
		addition, it is preferable		
		that such pests are unable to escape into the		
		environment unless they		
		can be distinguished		
		from non-irradiated		
		pests.In irradiation		
		treatments, it is rare that		
		mortality is technically		
		justified as the required		
		response. It is therefore		
		possible that live, though		
		non-viable target pests		
		may be found in		
		correctly treated		
		commodities. This does		

			- (
		not imply a failure of the		
		treatment. It does mean,		
		however, that it is		
		essential for the		
		treatment to be applied		
		correctly to ensure that		
		any live target pests are		
		unable to complete		
		development or		
		otherwise reproduce. In		
		addition, it is preferable		
		that such pests are		
		unable to escape into the		
		environment unless they		
		can be distinguished		
		from non-irradiated		
1.2.2	60	pests.	6	• • • • • • • • • • • • • • • • • • •
133	69	as an integral part of	С	Guyana More clarification needed
		packing operations;		Category : SUBSTANTIVE
134	70	a productos a granel no	Р	Costa Rica
		envasadosembalados;		Mejor traducción del término
135	71		Р	Category : TRANSLATION European Union
135	/1	to packaged or palletized	P	"Packaged commodities" includes "palletized commodities" (please see the definition of "packaging" in ISPM 5:
		commodities.		"Material used in supporting, protecting or carrying a commodity").
				Category : TECHNICAL
136	71	to packaged or palletized	Р	
		commodities.		"Packaged commodities" includes "palletized commodities" (please see the definition of "packaging" in ISPM 5: "Material used in supporting, protecting or carrying a commodity").
				Category : TECHNICAL
137	71	a productos envasados	Р	Costa Rica
		embalados o paletizados.		Mejor traducción del término
138	70	•	Р	Category : TRANSLATION
138	76	Treated commodities	Р	European Union These changes are suggested because:
		should be certified and		1) the use of irradiation as a phytosanitary measure is for regulated pests (please see paragraph 28);
		released only after		2) the schedule treatment selected should be efficient against the target pests (e.g. see paragraphs 102 and 141),
		dosimetry measurements		which means that if a pest species requires a higher dose it was not originally a target species for the treatment
		confirm that D_{\min} was		conducted. Category : TECHNICAL
		equal to, or above, the		Category . ILCHINICAL
		required phytosanitary		
		treatment dose and		
L	1		1	

		therefore that the dose requirement has been met throughout the process load. Where a <u>regulated</u> pest species requiring a higher dose is found upon inspection and that for which the phytosanitary treatment dose requirement has not been met, consignments may be re-treated, provided the maximum absorbed dose (D_{max}) total from all treatments is within the limits allowed by the importing country.		
139	76	Treated commodities should be certified and released only after dosimetry measurements confirm that D_{min} was equal to, or above, the required phytosanitary treatment dose and therefore that the dose requirement has been met throughout the process load. Where a pest species requiring a higher dose is found upon inspection and that dose requirement has not been met, If consignments may be are re-treated, provided the maximum absorbed	Ρ	Japan When carrying out the treatment, it is necessary to clarify the pests and pest groups to be treated and to carry out the treatment with the required dose. Therefore, there is a doubt as to whether only the re-treatment is appropriate as a measure in case where a pest known to require a higher dose than the target pest is found by the inspection. In addition, since the content of this paragraph is a requirement for implementing retreatment, it is not necessary to limit it to a specific reason for retreatment. <i>Category : SUBSTANTIVE</i>

20211100.0011	ountation	I. DIAILISEIVI. REVISION ON ISEIVI	10 (2011 001) Ccomplied comments – 2021 First consultation
		dose (D_{\max}) total from all		
		treatments is should be		
		within the limits allowed		
		by the importing		
		country.		
140	76	Treated commodities	Р	PPPO
		should be certified and		improve sentence flow
		released only after		Category : EDITORIAL
		dosimetry measurements		
		confirm that D_{\min} was		
		equal to, or above, the		
		required phytosanitary		
		treatment dose and		
		therefore that the dose		
		requirement has been		
		was met throughout the		
		process load. Where a		
		pest species requiring a		
		higher dose is found		
		upon inspection and that		
		the dose requirement has		
		for the pest was not been		
		met, consignments may		
		be re-treated, provided		
		the maximum absorbed		
		dose (D_{max}) total from all		
		treatments is within the		
		limits allowed by the		
		importing country.		
141	76	Treated commodities	Р	EPPO
		should be certified and		These changes are suggested because:
		released only after		1) the use of irradiation as a phytosanitary measure is for regulated pests (please see paragraph 28);
		dosimetry measurements		
		confirm that D_{\min} was		2) the schedule treatment selected should be efficient against the target pests (e.g. see paragraphs 102 and 141), which means that if a part energies requires a higher does it use not originally a target energies for the treatment.
		equal to, or above, the		which means that if a pest species requires a higher dose it was not originally a target species for the treatment conducted.
		required phytosanitary		Category : TECHNICAL
		treatment dose and		
		therefore that the dose		
		requirement has been		

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142	76	met throughout the process load. Where a <u>regulated</u> pest species requiring a higher dose is found upon inspection and that for which the phytosanitary treatment dose requirement has not been met, consignments may be re-treated, provided the maximum absorbed dose (D_{max}) total from all treatments is within the limits allowed by the importing country. Treated commodities	C	United States of America Double irradiation (or re- irradiation) of some products is generally not recommended, especially for fresh commodities;
		should be certified and released only after dosimetry measurements confirm that D_{min} was equal to, or above, the required phytosanitary treatment dose and therefore that the dose requirement has been met throughout the process load. Where a pest species requiring a higher dose is found upon inspection and that dose requirement has not been met, consignments may be re-treated, provided the maximum absorbed dose (D_{max}) total from all treatments is within the limits		Double irradiation (or re- irradiation) of some products is generally not recommended, especially for fresh commodities; to avoid problems, the Dmin application from the beginning should be according to the target pest. <i>Category : TECHNICAL</i>

		allowed by the importing		
		country.		
143	76	country.Treated commoditiesshould be certified andreleased only afterdosimetry measurementsconfirm that D_{min} wasequal to, or above, therequired phytosanitarytreatment dose andtherefore that the doserequirement has beenmet throughout theprocess load. Where apest species requiring ahigher dose is foundupon inspection and thatdose requirement has notbeen met, consignmentsmay be re-treated,provided the maximumabsorbed dose (D_{max})total from all treatmentsis within the limitsallowed by the importingcountry.	C	United States of America "Re-treated" is confusing here. PI is additive so you would just need to supply the missing dose in a second treatment. So technically not retreatment Category : TECHNICAL
144	76	Treated commodities should be certified and released only after dosimetry measurements confirm that D_{min} was equal to , or above, the required phytosanitary treatment dose and therefore that the dose requirement has been met throughout the process load. Where a pest species requiring a	С	United States of America In many cases, you cannot confirm, only calculate. This carelessly tosses around Dmax/Dmin when they mean Calculated Dmax/Dmin <i>Category : TECHNICAL</i>

		higher dose is found upon inspection and that dose requirement has not been met, consignments may be re-treated, provided the maximum absorbed dose (D_{max}) total from all treatments is within the limits allowed by the importing country.		
145	77	Depending on the pest risk to be addressed, the tolerance of the commodity to treatment, and the availability of other pest risk management options, irradiation may be used either as a single treatment-measure or combined with other measures as part of a systems approach to meet the efficacy required (see ISPM 14 (<i>The use of integrated</i> <i>measures in a systems</i> <i>approach for pest risk</i> <i>management</i>)).	Ρ	Canada Measure is more appropriate than treatment. <i>Category : TECHNICAL</i>
146	77	Depending on the pest risk to be addressed, the tolerance of the commodity to treatment, and the availability of other pest risk management options, irradiation may be used	Ρ	Viet Nam It is recommended to add references at ISPM No. 28 <i>Category : SUBSTANTIVE</i>

20211100000	ountation		110 (2011 001	
		either as a single treatment or combined with other measures as part of a systems approach to meet the efficacy required (see ISPM 14 (<i>The use of</i> <i>integrated measures in a</i> <i>systems approach for</i> <i>pest risk management</i> . <u>ISPM No. 28 ()</u> :		
147	77	Depending on the pest risk to be addressed, the tolerance of the commodity to treatment, and the availability of other pest risk management options, irradiation may be used either as a single treatment-measure or combined with other measures as part of a systems approach to meet the efficacy required (see ISPM 14 (<i>The use of integrated</i> <i>measures in a systems</i> <i>approach for pest risk</i> <i>management</i>)).	Ρ	PPPO Clarifies that phytosanitary irradiation is one available measure out of a range of measures. As described in the paragraph above, multiple individual phytosanitary irradiation treatments may be applied but this is different to the application of phytosanitary irradiation as the single measure <i>Category : SUBSTANTIVE</i>
148	77	Depending on the pest risk to be addressed, the tolerance of the commodity to treatment, and the availability of other pest risk management options, irradiation may be used either as a single	р	Australia Clarifies that phytosanitary irradiation is one available measure out of a range of measures. As described in the paragraph above, multiple individual phytosanitary irradiation treatments may be applied but this is different to the application of phytosanitary irradiation as the single measure <i>Category : SUBSTANTIVE</i>

		treatment-measure or combined with other measures as part of a systems approach to meet the efficacy required (see ISPM 14 (<i>The use of integrated</i> <i>measures in a systems</i> <i>approach for pest risk</i> <i>management</i>)).		
149	77	Depending on the pest risk to be addressedmanaged, the tolerance of the commodity to treatment, and the availability of other pest risk management options, irradiation may be used either as a single treatment-phytosanitary measure or combined with other measures as part of a systems approach to meet the efficacy required (see ISPM 14 (<i>The use of</i> <i>integrated measures in a</i> <i>systems approach for</i> <i>pest risk management</i>)).	Р	COSAVE The integration of measures in a systems approach is not aimed to meet the efficacy of the treatment. The treatment achieve the pest reponse at a given efficacy- If the efficacy is not enough to meet phytosanitary import requirements it may be integrated with other measures to meet these requirements. <i>Category : SUBSTANTIVE</i>
150	77	Depending on the pest risk to be addressedmanaged, the tolerance of the commodity to treatment, and the availability of other pest risk management options,	Ρ	Uruguay The integration of measures in a systems approach is not aimed to meet the efficacy of the treatment. The treatment achieve the pest reponse at a given efficacy- If the efficacy is not enough to meet phytosanitary import requirements it may be integrated with other measures to meet these requirements <i>Category : SUBSTANTIVE</i>

20211100.001	e anteine i		100 (2011 001	
151	77	irradiation may be used either as a single treatment-phytosanitary <u>measure</u> or combined with other measures as part of a systems approach to meet the efficacy required (see ISPM 14 (<i>The use of</i> <i>integrated measures in a</i> <i>systems approach for</i> <i>pest risk management</i>)). Dependiendo del riesgo de plagas que haya que	p	Colombia Cambiar la eficacia requerida por "el nivel adecuado de protección requerido". Cuando hacemos referencia a la eficacia nos estamos refiriendo al tratamiento: Efecto definido, mensurable y reproducible mediante un tratamiento prescrito
		abordar, de la tolerancia del producto al tratamiento y de que existan otras opciones para el manejo del riesgo de plagas, la irradiación se podrá utilizar, sola o combinada con otras medidas, como parte de un enfoque de sistemas a fin de alcanzar la eficacia requerida-"el nivel adecuado de protección requerido" (véase la NIMF 14, <i>Aplicación de medidas</i> <i>integradas en un</i> <i>enfoque de sistemas</i> <i>para el manejo del</i> <i>riesgo de plagas</i>).		[NIMF 18, 2003]. Y cuando la irradiación está siendo parte de un enfoque de sistemas nos estamos refiriendo a integrar diferentes medidas, de las cuales al menos dos actúan independientemente, con efecto acumulativo [NIMF 14, 2002; revisado CIMF, 2005; CMF, 2015] <i>Category : SUBSTANTIVE</i>
3. Dosimet	ry			
152	79	Irradiation does not	Р	United States of America
		deliver a uniform dose		clarification
		throughout a process		Category : TECHNICAL
		load but a continuum of		
L			1	1

		dosesknown as a dose distribution.ranging from Dmin to a Dmax. The dose range may increase as the size or density of the treated material increases.Therefore, it is important that an accurate measurement of the absorbed dose in a process load can be readily determined to ensure that D_{min} is greater than or equal to required for the phytosanitary treatment dose required.has been reached in any point of the load.		
153	79	La irradiación no emite una dosis uniforme en toda la carga del proceso, sino un continuo de dosis. El intervalo de dosis podrá aumentar a medida que lo hagan <u>aumenta</u> el tamaño o la densidad del material tratado. En consecuencia, es importante poder medir la dosis absorbida en una carga del proceso con exactitud y rapidez para garantizar que la <i>D</i> _{min} sea igual o superior a la	Ρ	Costa Rica Clarifica <i>Category : EDITORIAL</i>

		dosis requerida del tratamiento fitosanitario.		
154	80	Dosimetry provides assurance that <i>D</i> _{min} is equal to, or above, the required phytosanitary treatment dose and therefore that the dose requirement has been met throughout the process load. Properly designed systems for treatment delivery and protection against infestation and contamination, together with continual checking and regular monitoring of those systems, provide assurance that treatments are properly conducted. Dosimetry is highly specialized. National plant protection organizations-NPPO unfamiliar with phytosanitary irradiation should collaborate with technical experts from their national nuclear agencies when approving facilities to be used for phytosanitary irradiation.	P	PPPO clearer wording <i>Category : EDITORIAL</i>
155	80	Dosimetry provides assurance that D_{\min} is equal to, or above, the required phytosanitary treatment dose and	Ρ	Barbados the paragraph is complete with the addition of thereforemakes it less disjointed. <i>Category : EDITORIAL</i>

		therefore that the dose requirement has been met throughout the process load. Properly designed systems for treatment delivery and protection against infestation and contamination, together with continual checking and regular monitoring of those systems, provide assurance that treatments are properly conducted. Dosimetry is highly specialized <u>therefore</u> , National plant protection organizations unfamiliar with phytosanitary irradiation should collaborate with technical experts from their national nuclear agencies when approving facilities to be used for phytosanitary irradiation.		
156	80	Dosimetry provides assurance that D_{\min} is equal to, or above, the required phytosanitary treatment dose and therefore that the dose requirement has been met throughout the process load. Properly designed systems for treatment delivery and	Ρ	COSAVE There is no need to qualify irradiation with "phytosanitary" and to clarify the issue of not being familiar with irradiation when used as a phytosanitary measure <i>Category : TECHNICAL</i>

	-		<u>`</u>	
		protection against		
		infestation and		
		contamination, together		
		with continual checking		
		and regular monitoring		
		of those systems,		
		provide assurance that		
		treatments are properly		
		conducted. Dosimetry is		
		highly specialized.		
		National plant protection		
		organizations unfamiliar		
		with phytosanitary		
		irradiation should		
		collaborate with		
		technical experts from		
		their national nuclear		
		agencies when		
		approving facilities to be		
		used for <u>irradiating</u>		
		commodities for		
		phytosanitary		
		irradiationpurposes.		
157	80	Dosimetry provides	Р	United States of America
		assurance that D_{\min} is		better language.
		equal to, or above, the		Category : EDITORIAL
		required phytosanitary		
		treatment dose and		
		therefore that the dose		
		requirement has been		
		met throughout the		
		process load. Properly		
		designed systems for		
		treatment delivery and		
		protection against		
		infestation and		
		contamination, together		
		with continual checking		
		and regular monitoring		
		and regular monitoring		

158 80		Ρ	Caribbean Agricultural Health and Food Safety Agency
	assurance that D_{min} is equal to, or above, the required phytosanitary treatment dose and therefore that the dose requirement has been met throughout the process load. Properly designed systems for treatment delivery and protection against infestation and contamination, together with continual checking and regular monitoring of those systems, provide assurance that treatments are properly conducted. Dosimetry is highly specialized.		Category : EDITORIAL

			· · ·	
		specialized therefore National plant protection organizations unfamiliar with phytosanitary irradiation should collaborate with technical experts from their national nuclear agencies when approving facilities to be used for phytosanitary irradiation.		
159	80	Dosimetry provides assurance that D_{\min} is equal to, or above, the required phytosanitary treatment dose and therefore that the dose requirement has been met throughout the process load. Properly designed systems for treatment delivery and protection against infestation and contamination, together with continual checking and regular monitoring of those systems, provide assurance that treatments are properly conducted. Dosimetry is highly specialized. National plant protection organizations unfamiliar with phytosanitary irradiation should collaborate with technical experts from	С	Caribbean Agricultural Health and Food Safety Agency Jamaica proposes that "therefore" is inserted after specialized to read "Dosimetry is highly specialized, therefore National" Category : SUBSTANTIVE

	their national nuclear agencies when approving facilities to be used for phytosanitary irradiation.		
160 80	Dosimetry provides assurance that <i>D</i> _{min} is equal to, or above, the required phytosanitary treatment dose and therefore that the dose requirement has been met throughout the process load. Properly designed systems for treatment delivery and protection against infestation and contamination, together with continual checking and regular monitoring of those systems, provide assurance that treatments are properly conducted. Dosimetry is highly specialized. National plant protection organizations unfamiliar with phytosanitary irradiation should collaborate with technical experts from their national nuclear agencies when approving facilities to be used for <u>irradiating</u> <u>commodities for</u>	P	Uruguay There is no need to qualify irradiation with "phytosanitary" and to clarify the issue of not being familiar with irradiation when used as a phytosanitary measure <i>Category : TECHNICAL</i>

		phytosanitary irradiationpurposes.		
161	80	irradiationpurposes. La dosimetría permite asegurar que la <i>D</i> _{min} es igual o superior a la dosis requerida del tratamiento fitosanitario y, por consiguiente, que se ha cumplido el requisito relativo a la dosis requerida en toda la carga del proceso. Los sistemas debidamente diseñados de aplicación del tratamiento y protección del producto contra la infestación y la contaminación, junto con el control constante y la supervisión periódica de dichos sistemas, garantizan que los tratamientos se lleven a cabo correctamente. La dosimetría es sumamente especializada. Las ONPF que no estén familiarizadas con la irradiación fitosanitaria irradiación fitosanitaria irradiación deberían colaborar con los expertos técnicos de sus organismos nacionales de energía nuclear a la hora de aprobar las	Ρ	Costa Rica No es necesario calificar la irradiación con "fitosanitaria" Revisar la versión en ingles y ajustarlas <i>Category : SUBSTANTIVE</i>
		instalaciones que se		

		utilizarán para este tratamiento.		
162	81	Dosimetry should be performed on a routine basis to ensure that-that, for each batch of process loads treated-treated, the doses delivered equal or exceed the required D_{min} .	Ρ	European Union Commas suggested to be added for ease of reading. Category : EDITORIAL
163	81	Dosimetry should be performed on a routine basis to ensure that for each batch of process loads treated the doses delivered equal or exceed the required D_{min} .	С	PPPO This section should include a description of who is responsible for performing dosimetry to align with the checklist in the Annex. Category : SUBSTANTIVE
164	81	Dosimetry should be performed on a routine basis to ensure that for each batch of process loads treated treated, the doses delivered equal or exceed the required D_{min} .	р	EPPO A comma suggested to be added for ease of reading. <i>Category : EDITORIAL</i>
165	81	Dosimetry should be performed on a routine basis to ensure that for each batch of process loads treated the doses delivered equal or exceed the required D_{min} .	С	United States of America Overall, this is a rather weak language; we need to strengthen it by explaining WHY we need it and how we use it. Category : TECHNICAL
166	81	Dosimetry should be performed on a routine basis to ensure that for each batch of process loads treated the doses delivered equal $\frac{1}{0}$ exceed the required to D_{min} .	р	United States of America clarity Category : TECHNICAL

167	81	Dosimetry should be performed on a routine	Р	Thailand We would like to propose to delete this sentense because it duplicates the detail as shown in para 80 above.
		basis to ensure that for		Category : SUBSTANTIVE
		each batch of process		
		loads treated the doses		
		delivered equal or		
		exceed the required D_{min} .		
3.1 Dosim	etry sys	stems		
168	83	A dosimetry system	Р	Australia
		consists of dosimeters,		Clarifies that the parameters around the procedures to be used are to be agreed upon on technical grounds.
		instruments that read		Category : TECHNICAL
		dosimeters and		
		technically agreed upon		
		procedures. A dosimeter		
		is a device with a		
		reproducible response to		
		irradiation that can be		
		used to measure the		
		absorbed dose. The		
		dosimeter responds to		
		the radiation and the		
		response is measured by		
		instruments to calculate		
		the amount of ionizing		
		radiation that the product		
		has absorbed (expressed		
		as absorbed dose).		
169	83	A dosimetry system	Р	United States of America
		consists of <u>1</u>)		clarity Category : EDITORIAL
		dosimeters, 2)		
		instruments that read		
		dosimeters and		
		procedures3) procedures		
		and standards. A		
		dosimeter is a device		
		with a reproducible		
		response to irradiation		
		that can be used to		
		measure the absorbed		

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		dose. The dosimeter responds to the radiation and the response is measured by instruments to calculate the amount of ionizing radiation that the product has absorbed (expressed as absorbed dose).		
170	83	Un sistema de dosimetría está formado por dosímetros , instrumentos que leen dosímetros, y procedimientos. Un dosímetro es un dispositivo que emite una respuesta reproducible a la irradiación y que se puede emplear para medir la dosis absorbida. El dosímetro responde a la radiación, y la respuesta que da se mide con instrumentos que permiten calcular la cantidad de radiación ionizante que ha absorbido el producto (expresada como dosis absorbida).	P	Category : EDITORIAL
171	84	The selection and use of specific dosimetry systems should be appropriate for both the dose range and the type of radiation. It should	Ρ	Thailand We would like to propose to delete the year indicated in the standard code. If the year is not indicated, it will be understood to be referred to the most updated version. <i>Category : EDITORIAL</i>

	ountation			
		take into account the influence of factors such as dose rates, the minimum level of uncertainty deemed to be acceptable and the required spatial resolution. Examples of		
		dosimetry systems that can be used for gamma		
		ray, electron beam and		
		X-ray facilities can be		
		found in ISO/ASTM		
		51261 :2013 .		
3.2 Dose m	apping	J	÷	
172	86	Dose mapping is performed by placing dosimeters throughout	Р	Thailand We would like to propose to delete the year indicated in the standard code. If the year is not indicated, it will be understood to be referred to the most updated version. <i>Category : EDITORIAL</i>
		the process load, irradiating the process load and reading the dosimeter values.		
		Further information on the practices used for electron beams and X- rays are described in		
		ISO <u>14470:2011-14470</u> and ISO/ASTM 51261 :2013 .		
173	89	to demonstrate that the required dose range <u>Dmin</u> can be attained for the process load;	Ρ	United States of America Category : TECHNICAL
174	93	The dose distribution in a process load is specific to the irradiator, the product path (the path that the commodity takes through the irradiator),	Р	Australia Improves readability of the sentence Category : EDITORIAL

		the process load and the characteristics of the commodity. If any of these <u>factors</u> change, dose mapping should be repeated, as such changes affect dose		
175	93	distribution. The dose distribution in	Р	United States of America
		a process load is specific to the irradiator, the product path (the path type and time of the conveyor that carries the commodity takes load through the irradiator), the process load and the characteristics of the commodity. If any of these change, dose mapping should be repeated, as such changes affect dose distribution.		technical detail Category : TECHNICAL
3.3 Routine	e dosin	netry		
176	95	Accurate measurements of absorbed dose in a process load are critical for determining the effectiveness of the treatment and <u>they</u> are part of the <u>quality</u> <u>control of the irradiation</u> <u>treatment and the</u> validation process. The required number, location and frequency of these measurements	Ρ	United States of America quality control is important here <i>Category : TECHNICAL</i>

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		should be prescribed		
		based on the specific		
		equipment, processes,		
		commodities, relevant		
		standards and		
		phytosanitary		
		· ·		
		requirements.		
4. Validati				
177	97	4.	Р	United States of America There are notestial problems with terminology here. If validation is designed to verify, then why not call it verification?
		Validation Val		There are potential problems with terminology here. If validation is designed to verify, then why not call it verification? How about qualification? is that that NPPOs only approve or accredit? The facility owners do the
		idation of the		verification/validation/qualification for operation.
		Irradiation facility		Category : TECHNICAL
		and certification of		
		the irradiation		
		<u>treatment</u>		
178	99	Installation qualification	Р	United States of America
		and operational		unnecessary language
		qualification validate the		Category : TECHNICAL
		irradiator and may be		
		performed by the		
		treatment provider with		
		the technology suppliers.		
		National plant protection		
		organizations are		
		typically not involved with installation or		
		with installation or		
		operational-qualification		
		activities, but the The		
		treatment provider		
		should inform the NPPO		
		if major changes have		
		been made to the facility		
		that would require dose		
		mapping to be repeated		
		(e.g. replenishment of		
		gamma sources or major		
		changes to conveyor-belt		
		systems or speeds).		

			· · · · · · · · · · · · · · · · · · ·	
		debería examinar las actividades relativas a la cualificación del rendimiento que se llevan a cabo con el producto real y la configuración del producto comercial (por ejemplo, un palé-paleta entero o medio palé)paleta) . El objetivo de la cualificación del rendimiento es demostrar que el equipo, instalado y utilizado correctamente, funciona siempre según lo previsto y que se puede cumplir el protocolo de tratamiento. A fin de garantizar que se alcanza la D_{min} , es fundamental elaborar el mapeo de dosis del producto real para definir la		
		configuración de la		
181	100	carga del proceso. La manera en que se	Р	Panama
-		carga y se irradia el		Uso correcto de términos
		producto se basa en los		Category : EDITORIAL
		resultados de la		
		cualificación del rendimiento. Por		
		consiguiente, la ONPF		
		debería examinar las		
		actividades relativas a la		
		cualificación del		
		rendimiento que se		
		llevan a cabo con el		

		producto real y la configuración del producto comercial (por ejemplo, un palé entero una paleta entera o medio palé)media paleta). El objetivo de la cualificación del rendimiento es demostrar que el equipo, instalado y utilizado correctamente, funciona siempre según lo previsto y que se puede cumplir el protocolo de tratamiento. A fin de garantizar que se alcanza la D_{\min} , es fundamental elaborar el mapeo de dosis del producto real para definir la configuración de la carga del proceso.		
182	100	La manera en que se carga y se irradia el producto se basa en los resultados de la cualificación del rendimiento. Por consiguiente, la ONPF debería examinar las actividades relativas a la cualificación del rendimiento que se llevan a cabo con el producto real y la configuración del producto comercial (por	Ρ	Guatemala Category : EDITORIAL

ejemplo, un palé entero o medio palé <u>)una</u> tarima). El objetivo de la cualificación del		
demostrar que el equipo, instalado y utilizado correctamente, funciona siempre según lo previsto y que se puede cumplir el protocolo de tratamiento. A fin de garantizar que se alcanza la D_{min} , es fundamental elaborar el mapeo de 	P	OIRSA Uso correcto de términos <i>Category : EDITORIAL</i>
carga y se irradia el producto se basa en los resultados de la cualificación del rendimiento. Por consiguiente, la ONPF debería examinar las actividades relativas a la cualificación del rendimiento que se llevan a cabo con el producto real y la configuración del producto comercial (por ejemplo, un palé paleta entero o medio palé)paleta). El objetivo de la cualificación del		Uso correcto de términos
	 instalado y utilizado correctamente, funciona siempre según lo previsto y que se puede cumplir el protocolo de tratamiento. A fin de garantizar que se alcanza la D_{min}, es fundamental elaborar el mapeo de dosis del producto real para definir la configuración de la carga del proceso. La manera en que se carga y se irradia el producto se basa en los resultados de la cualificación del rendimiento. Por consiguiente, la ONPF debería examinar las actividades relativas a la cualificación del rendimiento que se llevan a cabo con el producto real y la configuración del producto comercial (por ejemplo, un <u>palé-paleta</u> entero o medio <u>palé)paleta)</u>. El objetivo 	demostrar que el equipo, instalado y utilizado correctamente, funciona siempre según lo previsto y que se puede cumplir el protocolo de tratamiento. A fin de garantizar que se alcanza la D_{min} , es fundamental elaborar el mapeo de dosis del producto real para definir la configuración de la carga del proceso.La manera en que se carga y se irradia el producto se basa en los resultados de la cualificación del rendimiento. Por consiguiente, la ONPF debería examinar las actividades relativas a la cualificación del rendimiento que se llevan a cabo con el producto comercial (por ejemplo, un palé-paleta entero o medio palé)paleta). El objetivo de la cualificación del

International Plant Protection Convention

5 Adequat	e syste	demostrar que el equipo, instalado y utilizado correctamente, funciona siempre según lo previsto y que se puede cumplir el protocolo de tratamiento. A fin de garantizar que se alcanza la D_{min} , es fundamental elaborar el mapeo de dosis del producto real para definir la configuración de la carga del proceso. ms for treatment facilities		
184	102	Confidence in the adequacy of an	Р	European Union More precise wording suggested. 1) A "treatment schedule" is defined is ISPM 5 as "The critical parameters of a treatment which need to be met to
		irradiation treatment as a phytosanitary measure is		achieve the intended outcome (i.e. the killing, inactivation or removal of pests, or rendering pests infertile, or devitalization) at a stated efficacy".
		primarily based on		2) Please see title of section 5 (paragraph 101).
		assurance that the		Category : TECHNICAL
		treatment <u>schedule</u> is		
		effective against the target pests under		
		specific conditions and		
		the treatment has been		
		properly applied.		
		Systems for treatment		
		delivery in the facilities		
		should be designed, used and monitored to ensure		
		that treatments are		
		properly conducted and		
		commodities are		
		protected from		
		infestation and		
		contamination after		
		treatment.		

185	102	Confidence in the adequacy of an of irradiation treatment as a phytosanitary measure is primarily based on assurance that the treatment is effective against the target pests under specific conditions and the treatment has been properly applied. Systems for treatment delivery should be	P	COSAVE 1) Irradiation is defined in ISPM 5 as treatment with any type of ionizing radiation, thus irradiation treatment is redundant 2) The prevention of infestation is more related to the facility than to the system. Furthermore it has been already considered in section 5.2 below. Category : TECHNICAL
		designed, used and monitored to ensure that treatments are properly conducted and commodities are protected from infestation and contamination after treatment. <u>conducted</u> .		
186	102	Confidence in the adequacy of an irradiation treatment as a phytosanitary measure is primarily based on assurance that the treatment <u>shedule</u> is effective against the target pests under specific conditions and the treatment has been properly applied. Systems for treatment delivery <u>in the facilities</u> should be designed, used and monitored to ensure that treatments are	p	 EPPO More precise wording suggested. 1) A "treatment schedule" is defined is ISPM 5 as "The critical parameters of a treatment which need to be met to achieve the intended outcome (i.e. the killing, inactivation or removal of pests, or rendering pests infertile, or devitalization) at a stated efficacy". 2) Please see title of section 5 (paragraph 101). <i>Category : TECHNICAL</i>

		properly conducted and commodities are protected from infestation and contamination after treatment.		
187	102	Confidence in the adequacy of an irradiation treatment as a phytosanitary measure is primarily based on assurance that the treatment is effective against the target pests under specific conditions and the treatment has been properly applied. Systems for treatment delivery should be designed, used and monitored to ensure that treatments are properly conducted and commodities are protected from infestation and contamination after treatment_conducted.	Ρ	Uruguay 1) Irradiation is defined in ISPM 5 as treatment with any type of ionizing radiation, thus irradiation treatment is redundant. 2) The prevention of infestation is more related to the facility than to the system. Furthermore it has been already considered in section 5.2 below. Category : TECHNICAL
188	102	La confianza en la idoneidad de un tratamiento de irradiación como medida fitosanitaria se basa principalmente en la garantía de asegurar que el tratamiento es eficaz contra las plagas objetivo en condiciones	Ρ	Costa Rica Utilización del término más apropiada "asegurar" la reinfestación del producto posterior a la irradiación están más orientados a las condiciones de las instalaciones donde se mantiene el producto luego del tratamiento y no propieamente a las condiciones en las cuales se está aplicando el tratamientos. <i>Category : SUBSTANTIVE</i>

				· · · · · · · · · · · · · · · · · · ·
		específicas y de que el		
		tratamiento se ha		
		aplicado correctamente.		
		Los sistemas de		
		aplicación del		
		tratamiento deberían		
		diseñarse, utilizarse y		
		supervisarse para		
		garantizar <u>asegurar</u> que		
		el tratamiento se lleva a		
		cabo correctamente y		
		que los productos están		
		protegidos contra la		
		infestación y la		
		contaminación después		
		de haber sido		
		tratadoscorrectamente.		
51 Approx	ral of fr	cilities and authorization	oftrootmont	providors
189	104		P	European Union
105	104	5.1 Approval of		For consistency within the standard (please see paragraphs 29 and 105 i.e. following paragraph).
		treatment facilities		Category : EDITORIAL
		and authorization of		
		treatment providers		
190	104	5.1 Approval of	Р	EPPO
		treatment facilities		For consistency within the standard (please see paragraphs 29 and 105 i.e. following paragraph). <i>Category : EDITORIAL</i>
		and authorization of		Calegoly . LDITORIAL
		treatment providers		
191	105	Treatment facilities	Р	European Union
		should be approved by		To improve readability.
		the NPPO of the country		Category : EDITORIAL
		in which the facility is		
		located before		
		phytosanitary treatments		
		are applied there, <u>with</u>		
		such approval thereby		
		authorizing providing		
		authorization to the		
		treatment provider		
		responsible for the		

192	105	facility (APPPC, 2014). This approval should be subsequent to authorization from competent authorities for safety (e.g. radiation safety authority, nuclear regulatory authority) where appropriate and be based on a set of criteria that include both criteria common to all irradiation facilities and those that are specific to the site and commodity (see Annex 1). Treatment facilities should be approved by the NPPO of the country in which the facility is located before phytosanitary treatments are applied there, such approval thereby authorizing the treatment	C	Viet Nam Need to add the name of this information for reference Category : SUBSTANTIVE
		approval thereby		

	Isuitatioi	1: Draft ISPM: Revision of ISPM	10 (2014-007) Ccompiled comments – 2021 First consultation
		irradiation facilities and		
		those that are specific to		
		the site and commodity		
		(see Annex 1).		
193	105	Treatment facilities	Р	Australia
		should be approved by		Improves readability of the sentence by clarifying what the treatment provider will be authorized to do. <i>Category : EDITORIAL</i>
		the NPPO of the country		
		in which the facility is		
		located before		
		phytosanitary treatments		
		are applied there, such		
		approval thereby		
		authorizing the treatment		
		provider responsible for		
		the facility to conduct		
		treatments according to		
		agreed procedures		
		(APPPC, 2014). This		
		approval should be		
		subsequent to		
		authorization from		
		competent authorities for		
		safety (e.g. radiation		
		safety authority, nuclear		
		regulatory authority)		
		where appropriate and		
		be based on a set of		
		criteria that include both		
		criteria common to all		
		irradiation facilities and		
		those that are specific to		
		the site and commodity		
		(see Annex 1).		
194	105	Treatment facilities	Р	COSAVE
		should be approved by		Although this regional standard was used as a reference in this revision, NPPOs should follow the guidelines of ISPM 18 and not those of a regional standard consistent with ISPM 18
		the NPPO of the country		Category : TECHNICAL
		in which the facility is		
		located before		
		phytosanitary treatments		

		are applied there, such approval thereby authorizing the treatment provider responsible for the <u>facility (APPPC,</u> <u>2014)facility</u> . This approval should be subsequent to authorization from competent authorities for safety (e.g. radiation safety authority, nuclear regulatory authority) where appropriate and be based on a set of criteria that include both criteria common to all irradiation facilities and those that are specific to the site and commodity		
195	105	(see Annex 1). Treatment facilities should be approved by the NPPO of the country in which the facility is located before phytosanitary treatments are applied there, with such approval thereby authorizing-providing authorization to the treatment provider responsible for the facility (APPPC, 2014). This approval should be subsequent to authorization from competent authorities for	P	EPPO To improve readability <i>Category : EDITORIAL</i>

		safety (e.g. radiation		
		safety authority, nuclear		
		regulatory authority)		
		where appropriate and		
		be based on a set of		
		criteria that include both		
		criteria common to all		
		irradiation facilities and		
		those that are specific to		
		the site and commodity		
		(see Annex 1).		
196	105	Treatment facilities	Р	United States of America
		should be checked and		better clarity of the requirements
		approved by the NPPO		Category : TECHNICAL
		of the country in which		
		the facility is located		
		before phytosanitary		
		treatments are applied		
		therelocated, if the		
		facility has the		
		conditions to provide the		
		phytosanitary irradiation		
		treatments, such		
		approval thereby		
		authorizing the treatment		
		provider responsible for		
		the facility (APPPC,		
		2014). This approval		
		should be subsequent to		
		authorization from		
		competent authorities for		
		safety (e.g. radiation		
		safety authority, nuclear		
		regulatory authority)		
		where appropriate and		
		be based on a set of		
		criteria that include both		
		criteria common to all		
		irradiation facilities and		

		those that are specific to the site and commodity (see Annex 1).		
197	105	Treatment facilities should be approved by the NPPO of the country in which the facility is located before phytosanitary treatments are applied there, such approval thereby authorizing the treatment provider responsible for the facility (APPPC, 2014)facility. This approval should be subsequent to authorization from competent authorities for safety (e.g. radiation safety authority, nuclear regulatory authority) where appropriate and be based on a set of criteria that include both criteria common to all irradiation facilities and those that are specific to the site and commodity (see Annex 1).	Ρ	Uruguay Although this regional standard was used as a reference in this revision, NPPOs should follow the guidelines of ISPM 18 and not those of a regional standard consistent with ISPM 18 <i>Category : TECHNICAL</i>
198	105	Las instalaciones de tratamiento deberían contar con la aprobación de la ONPF del país en el que se encuentra la instalación antes de que se apliquen en ellas tratamientos	Ρ	Costa Rica La Autoridad que apruebe las instalaciones de tratamiento debe tener conocimiento en medidas de seguridad, para evitar que el tratamiento se realice en condiciones no optimas que pueda afectar a las personas y los alrededores. La inocuidad está más relacionada con las condiciones del producto, más que con las condiciones de instalaciones. <i>Category : SUBSTANTIVE</i>

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		fitosanitarios; por lo		
		tanto, dicha aprobación		
		autoriza al proveedor del		
		tratamiento encargado		
		de la instalación		
		(APPPC, 2014). Esta		
		aprobación debería ser		
		posterior a la		
		autorización emitida por		
		las autoridades		
		competentes en <u>la</u>		
		materia de inocuidad		
		seguridad (por ejemplo,		
		la autoridad competente		
		en materia de inocuidad		
		de la radiación o la		
		autoridad de		
		reglamentación de la		
		energía nuclear), cuando		
		proceda, y basarse en un		
		conjunto de criterios que		
		engloben los criterios		
		comunes a todas las		
		instalaciones de		
		irradiación y los que son		
		específicos del lugar y el		
		producto (véase el		
		Anexo 1).		
199	105	Las instalaciones de	Р	OIRSA Maior comprensión del porrefe
		tratamiento deberían		Mejor comprensión del parrafo. Category : TECHNICAL
		contar con la aprobación		
		de la ONPF del país en		
		el que se encuentra la		
		instalación antes de que		
		se apliquen en ellas		
		tratamientos		
		fitosanitarios; por lo		
		tanto, dicha aprobación		
		autoriza al proveedor del		

		tratamiento encargado de la instalación (APPPC, 2014). Esta aprobación debería ser posterior a la autorización emitida por las autoridades competentes en <u>la</u> materia de inocuidad (por ejemplo, la autoridad competente en materia de inocuidad de la radiación o la autoridad de reglamentación de la energía nuclear), cuando proceda, y basarse en un conjunto de criterios que engloben los criterios comunes a todas las instalaciones de irradiación y los que son específicos del lugar y el producto (véase el Anexo 1).		
200	106	Phytosanitary <u>treatment</u> <u>facilities</u> re-approval should be done by the NPPO on a regular basis at appropriate intervals.	Ρ	Canada Adding clarity to an incomplete sentence. Category : TECHNICAL
201	106	Phytosanitary re- approval should <u>be-be</u> done by the NPPO on a regular basis at appropriate intervals.	Ρ	Australia Removal of double space <i>Category : EDITORIAL</i>
5.2 Preven 202	tion of 108	infestation and contamina The consignment owner is	tion after tre P	cosave
202	100	responsible for prevention		New paragraph added for consistency with other ISPMs on treatments, e. g. ISPM 43

20211100.001	ountation		110 (2011 001	
202	100	of infestation and contamination after irradiation and may cooperate with the treatment provider on how to achieve this. At the treatment facility, the necessary measures should be implemented to prevent possible infestation or contamination of the commodity after treatment. The following measures may be required:		Category : TECHNICAL
203	108	The consignment owner is responsible for prevention of infestation and contamination after irradiation and may cooperate with the treatment provider on how to achieve this. At the treatment facility, the necessary measures should be implemented to prevent possible infestation or contamination of the commodity after treatment. The following measures may be required:	р	Uruguay New paragraph added for consistency with other ISPMs on treatments, e. g. ISPM 43 <i>Category : TECHNICAL</i>
204	109	keeping the commodity in a pest free pest-free enclosure under conditions that protect it from infestation and contamination;	Ρ	PPPO compound modifier <i>Category : EDITORIAL</i>

205	113	dispatching the	Р	РРРО
		commodity as soon as		Category : EDITORIAL
		possible practical after		
206	114	irradiation.	Р	PPPO
206	114	The use of pest proof packaging before	P	improve sentence flow.
		irradiation may help to		Category : EDITORIAL
		prevent possible		
		infestation or		
		contamination if		
		irradiation is done before		
		export, or to prevent the		
		accidental escape of the		
		target pest if the		
		treatment is done at the		
		destination.Pest-proof packaging may be used		
		before irradiation to help		
		prevent possible infestation or		
		contamination if irradiation		
		is done before export, or to		
		prevent the accidental escape of the target pest if		
		the treatment is done at		
207	114	the destination.	Р	Australia
207	114	The use of pest-proof packaging before	r	Improves sentence readability
		irradiation may help to		Category : EDITORIAL
		prevent possible		
		infestation or		
		contamination if		
		irradiation is done		
		undertaken before		
		export, or to prevent the		
		accidental escape of the		
		target pest if the treatment is done		
		<u>undertaken</u> at the		
		destination.		

			· · · · · ·	
208	114	La utilización de envases embalaje a prueba de plagas antes de la irradiación puede ayudar a evitar la infestación y la contaminación, si la irradiación se hace antes de la exportación, o a prevenir la fuga accidental de la plaga objetivo si el tratamiento se hace en el lugar de destino.	Ρ	Costa Rica consistencia con el comentario general <i>Category : TRANSLATION</i>
5.3 Labelli	ng			
209	115	5.3 Labelling	С	PPPO This section should include who is responsible for labelling to align with the checklist in the Annex i.e. 'The treatment provider is responsible for labelling commodities with treatment lot numbers'. clearly stating roles and responsibilities on activities would also help NPPOs <i>Category : SUBSTANTIVE</i>
210	116	Commodities should be labelled with treatment lot numbers or other identifying features allowing trace-back for non-compliant consignments. The labels should be easily identifiable and placed on-in visible locations.	Ρ	Australia Improves sentence readability <i>Category : EDITORIAL</i>
211	116	Los productos se deberían etiquetar con números de lote de tratamiento u otros medios de identificación que permitan el rastreo <u>la rastreabilidad</u> de los envíos no conformes. Las etiquetas deberían ser fácilmente identificables y	Ρ	Costa Rica Consitencia con el comentario general <i>Category : TRANSLATION</i>

		colocarse en lugares visibles.		
212	116	Los productos se deberían-deben etiquetar con números de lote de tratamiento u otros medios de identificación que permitan el rastreo de los envíos no conformes. Las etiquetas deberían-deben ser fácilmente identificables y colocarse en lugares visibles. Las etiquetas deben hacer uso del símbolo internacional indicativo de que el alimento ha sido irradiado y colocarse en lugar visible para su identificación."	Ρ	Colombia Cambiar la palaba deberían por deben. Añadir un al etiquetado una frase visible informando que el producto ha sido sometido a proceso de irradiación. Permite identificar claramente el proceso de irradiación en el producto. <i>Category : SUBSTANTIVE</i>
5.4 Monito				
213	118	The NPPO of the country in which the irradiation is conducted is responsible for the monitoring and auditing of treatment facilities and providers. The NPPO should maintain an audit schedule and ensure that such audits are conducted by appropriately trained personnel. Continuous supervision by the NPPO of irradiation should not be necessary,	Ρ	PPPO to clarify responsibility <i>Category : TECHNICAL</i>

		provided treatment		
		procedures are properly		
		designed by the		
		treatment provider and		
		can be verified to ensure		
		a high degree of system		
		integrity for the facility,		
		process and commodity		
		in question. The		
		monitoring and auditing		
		should be sufficient to		
		detect and correct		
		deficiencies promptly.		
214	118	The NPPO of the	Р	Korea, Republic of
		country in which the		Improve clarity <i>Category : SUBSTANTIVE</i>
		irradiation is conducted		Categoly . SUBSTAIVIIVE
		is responsible for the		
		monitoring and auditing		
		of treatment facilities		
		and providers. The		
		NPPO should maintain		
		an audit schedule and		
		ensure that such audits		
		are conducted by		
		appropriately trained		
		personnel. Continuous		
		supervision by the		
		<u>NPPO</u> of irradiation		
		should not be necessary,		
		provided treatment		
		procedures are properly		
		designed and can be		
		verified to ensure a high		
		degree of system		
		integrity for the facility,		
		process and commodity		
		in question. The		
		monitoring and auditing		
		should be sufficient to		

		detect and correct		
215	110	deficiencies promptly.	Р	COSAVE
215	118	The NPPO of the country in which the	P	Monitoring and auditing the facility and the provider are not listed as responsibilities of the NPPO (item 8) but they
		irradiation is conducted		should perform both.
		is responsible for the	1	Category : SUBSTANTIVE
		monitoring should		
		monitor and auditing of		
		audit treatment facilities		
		and providers. The		
		NPPO should maintain		
		an audit schedule and		
		ensure that such audits		
		are conducted by		
		appropriately trained		
		personnel. Continuous		
		supervision of		
		irradiation should not be		
		necessary, provided		
		treatment procedures are		
		properly designed and		
		can be verified to ensure		
		a high degree of system		
		integrity for the facility,		
		process and commodity		
		in question. The monitoring and auditing		
		should be sufficient to		
		detect and correct		
		deficiencies promptly.		
216	118	The NPPO of the	Р	Uruguay
		country in which the		Monitoring and auditing the facility and the provider are not listed as responsibilities of the NPPO (item 8) but they
		irradiation is conducted		should perform both. Category : SUBSTANTIVE
		is responsible for the		
		monitoring should		
		monitor and auditing of		
		audit treatment facilities		
		and providers. The		

		NPPO should maintain an audit schedule and ensure that such audits are conducted by appropriately trained personnel. Continuous supervision of irradiation should not be necessary, provided treatment procedures are properly designed and can be verified to ensure a high degree of system integrity for the facility,		
		process and commodity		
		in question. The monitoring and auditing		
		should be sufficient to		
		detect and correct		
		deficiencies promptly.		
217	118	La ONPF del país en el	Р	Costa Rica Consistencia con el comentario general y mejora redacción
		que se lleva a cabo la irradiación es la		Category : EDITORIAL
		responsable de la		
		supervisión y auditoría		
		de las instalaciones y los		
		proveedores del		
		tratamiento. La ONPF		
		debería mantener un		
		programa de auditorías y		
		asegurarse de que estas		
		sean realizadas por		
		profesionales		
		debidamente formados.		
		No debería ser necesaria		
		la supervisión continua		
		de la irradiación,		
		siempre que los		
		procedimientos de		

20211100.00	loundition		10 (2011 001)	Complex comments – 2021 Prist consultation
		as raw data on dosimetry		
		readings recorded during		
		treatments. Accurate		
		record keeping is		
		essential to enable		
		auditing and trace-back.		
219	125	The NPPO of the	Р	Korea, Republic of
		country in which the		Improve clarity
		irradiation is conducted		Category : SUBSTANTIVE
		is responsible for		
		ensuring that treatment		
		providers document all		
		operational procedures		
		and keep appropriate		
		records, such as raw data		
		on dosimetry readings		
		recorded during		
		treatments. Accurate		
		record keeping is		
		essential to enable		
		auditing and trace-back.		
220	125	La ONPF del país en el	Р	Costa Rica
		que se lleva a cabo la		Mejora la redacción Category : EDITORIAL
		irradiación tiene el		Category . EDITORIAL
		cometido <u>la</u>		
		responsabilidad de		
		garantizar asegurar que		
		los proveedores del		
		tratamiento mantengan		
		registros adecuados,		
		como los datos sin tratar		
		sobre las lecturas de		
		dosimetría obtenidas		
		durante los tratamientos.		
		El mantenimiento		
		correcto de registros es		
		fundamental para poder		
		llevar a cabo auditorías y		
		actividades de rastreo.		

	6.1 Documentation of procedures					
221	127	Procedures should be	Р	European Union		
		documented to ensure		Better wording (please see ISPM 44).		
		that commodities are		Category : EDITORIAL		
		consistently treated as				
		required. Process				
		controls and operational				
		parameters should be				
		established to provide				
		the details necessary for				
		a- <u>the</u> specific approval				
		of a treatment facility.				
		Calibration and quality				
		control procedures				
		should be documented				
		by the treatment				
		provider. The				
		documented procedures				
		should include the				
		following:				
222	127	Procedures should be	Р	РРРО		
		documented by		clarify responsibility Category : TECHNICAL		
		treatment providers to		Category . TECHNICAL		
		ensure that commodities				
		are consistently treated				
		as required. Process				
		controls and operational				
		parameters should be				
		established to provide				
		the details necessary for				
		a specific approval of a				
		treatment facility.				
		Calibration and quality				
		control procedures				
		should be documented				
		by the treatment				
		provider. The				
		documented procedures				

	1			
		should include the		
		following:		
223	127	following: Procedures should be documented to ensure that commodities are consistently treated as required. Process controls and operational parameters should be established to provide the details necessary for a-the specific approval of a treatment facility. Calibration and quality control procedures should be documented	Ρ	EPPO Better wording (please see ISPM 44). Category : EDITORIAL
		by the treatment		
		provider. The		
		documented procedures should include the		
224	124	following:		РРРО
224	134	labelling, record keeping record-keeping and documentation requirements;	Ρ	Category : EDITORIAL
6.2 Record	l keepii	ng		
225	136	6.2 Record	Р	РРРО
		keepingRecord-		pound modifier needed <i>Category : EDITORIAL</i>
		keeping		Calegoly . EDITORIAL
226	137	The treatment provider	Р	COSAVE
		should keep appropriate		Consequential change as per comment in paragraph 138
		records for each		Category : TECHNICAL
		treatment		
		applicationapplication		
		for at least one year.		
		These records should be		
		made available to the		
		NPPO of the country in		

		which the treatment		
		facility is located for		
		auditing and verification		
		purposes or when a		
		trace-back is necessary.		
227	137	The treatment provider	Р	Uruquay
227	137	should keep appropriate	·	Consequential change as per comment in paragraph 138
		records for each		Category : TECHNICAL
		treatment		
		applicationapplication		
		for at least one year. These records should be		
		made available to the		
		NPPO of the country in		
		which the treatment		
		facility is located for		
		auditing and verification		
		purposes or when a		
		trace-back is necessary.	_	
228	138	Appropriate treatment	Р	Viet Nam The year of record-keeping should not be specified because the actual inspection at the treatment facility cannot be
		records for irradiation as		continuous every year or depend on the bilateral agreement between both sides
		a phytosanitary measure		Category : SUBSTANTIVE
		should be retained by the		
		treatment provider for at		
		least one year to enable		
		the trace-back of treated		
		lots. Information that		
		may be required to be		
		recorded includes:		
229	138	Appropriate treatment	Р	PPPO
		records for irradiation as		the products may be still available after one year, for the purpose of trace-back it is suggested the record be kept for at least two years. This is what we require in NZ.
		a phytosanitary measure		Category : TECHNICAL
		should be retained by the		
		treatment provider for at		
		least one year two years		
		to enable the trace-back		
		of treated lots.		
		of fictured forb.		

		required to be recorded		
		includes:		
230	138	Information that may be required to be recorded includes:Appropriate treatment records for irradiation as a phytosanitary measure should be retained by the treatment provider for at least one year to enable the trace back of treated lots. Information that may be required to be recorded includes:	Ρ	COSAVE It repeats the previous paragraph. <i>Category : TECHNICAL</i>
231	138	Appropriate treatment records for irradiation as a phytosanitary measure should be retained by the treatment provider for at least one-three year to enable the trace-back of treated lots. Information that may be required to be recorded includes:	Ρ	China phytosanitary records, the retention time of one year is relatively short. Category : SUBSTANTIVE
232	138	Information that may be required to be recorded includes: Appropriate treatment records for irradiation as a phytosanitary measure should be retained by the treatment provider for at least one year to enable the trace back of treated lots. Information that may be required to be recorded includes:	Ρ	Uruguay It repeats the previous paragraph. <i>Category : TECHNICAL</i>

233	141	target regulated <u>pestpest(s);</u>	Р	China Maybe several species of pest in one plant and plant product which need irradiation. <i>Category : SUBSTANTIVE</i>
234	141	<u>-</u> target regulated pest; <u>-</u> <u>purpose of treatment;</u>	Р	Thailand We would like to add a new indent "purpose of treatment" under section 6.2 Record keeping. This is because the efficacy of irradiation is varied depended on the host and target pest, so the purpose of the treatment for each bacth should be recorded. Moreover, the current version of ISPM 18 also specified the purpose of treatment under section of Record keeping. Category : SUBSTANTIVE
235	141	la plaga reglamentada objetivo <u>cuarentenaria a</u> tratar;	р	Colombia Se sugiere cambiar frase "la plaga reglamentada objetivo" "por plaga cuarentenaria a tratar". Plaga reglamentada hace referencia a Plaga cuarentenaria o plaga no cuarentenaria reglamentada [CIPF, 1997]. Las plagas no cuarentenarias hacen referencia exclusiva al material de propagación el cual esta excluido de esta propuesta de norma, por lo tanto debe quedar específicamente plagas cuarentenarias. <i>Category : SUBSTANTIVE</i>
236	143	el tamaño y el volumen del lote, incluido el número de artículos o envasesembalajes;	Ρ	Costa Rica Consistencia con el comentario general Category : TRANSLATION
237	145	absorbed doses (required doses and measured doses), dosimetry calibration <u>and dose</u> <u>mapping</u> records;	р	United States of America more complete <i>Category : TECHNICAL</i>
238	148	orientation and configuration of the commodity during irradiation (including and dose mapping)mapping.	Ρ	United States of America More precise Category : TECHNICAL
6.3 Docum	entatio	on by the NPPO		
239	150	All NPPO procedures should be appropriately documented and records, documented. Records should be maintained for at least one year including those of monitoring inspections made and phytosanitary certificates issued,	р	PPPO to improve sentence flow <i>Category : EDITORIAL</i>

		should be maintained for at least one year. In cases of non-compliance or new or unexpected phytosanitary situations, documentation should be made available upon request as described in ISPM 13 (<i>Guidelines for</i>		
		the notification of non- compliance and emergency action).		
7. Inspecti	on	6		
240	152	Inspection should be carried out by the NPPO of the exporting country and inspection at import may be carried out by the NPPO of the importing country to determine compliance with phytosanitary import requirements.	Ρ	COSAVE To avoid redundancy. Category : TECHNICAL
241	152	Inspection should be carried out by the NPPO of the exporting country and inspection at import may be carried out by the NPPO of the importing country to determine compliance with phytosanitary import requirements.	р	Uruguay To avoid redundancy <i>Category : TECHNICAL</i>
242	153	Live target pests may be found after treatment, but this should not result in the refusal to issue a phytosanitary certificate. Where mortality is the	р	European Union It is not clear what a normal validation program is and this word does not add any value. <i>Category : TECHNICAL</i>

		required response, live target-pests may be found during the period immediately following the irradiation; in such cases, phytosanitary certification should be based on confirmation from audit checks that mortality is attained for the specific commodity and treatment conditions concerned. Where mortality is not the required response, it is more likely that live target pests may persist in the treated consignment; in such cases, phytosanitary certification should be based on confirmation from the normal validation programme that the required response is achieved for the specific commodity and treatment conditions concerned.		
		and treatment conditions		
243	153	Live target pests may be found after treatment, but this should not result in the refusal to issue a phytosanitary certificate. Where mortality is the required response, live target-pests may be found during the period	С	Japan The IR treatment schedules of annexes to ISPM28 do not require "mortality", but are there any specific treatment schedules that require "mortality" in IR treatment? If there are not such IR treatments, the description in the case of "Where mortality is the required response, live target-pests may be found" seems to be unnecessary. If there are such IR treatment schedules, it is necessary to include a concrete explanation of what kind of "audit checks" are needed as a response to when a living pest is found. <i>Category : SUBSTANTIVE</i>

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		immediately following the irradiation; in such		
		cases, phytosanitary		
		certification should be		
		based on confirmation		
		from audit checks that		
		mortality is attained for		
		the specific commodity		
		and treatment conditions		
		concerned. Where		
		mortality is not the		
		required response, it is		
		more likely that live		
		target pests may persist		
		in the treated		
		consignment; in such		
		cases, phytosanitary		
		certification should be		
		based on confirmation		
		from the normal		
		validation programme		
		that the required		
		response is achieved for		
		the specific commodity		
		and treatment conditions		
		concerned.		
244	153	Live target pests may be	С	Viet Nam
		found after treatment,		VN proposes to add the more following content: "In the case of detecting other harmful organisms alive during the inspection process (non-target pests), how should they be handled in the importing country?"
		but this should not result		Category : EDITORIAL
		in the refusal to issue a		
		phytosanitary certificate.		
		Where mortality is the		
		required response, live		
		target-pests may be		
		found during the period		
		immediately following		
		the irradiation; in such		
		cases, phytosanitary		
		certification should be		

		based on confirmation from audit checks that mortality is attained for the specific commodity and treatment conditions concerned. Where mortality is not the required response, it is more likely that live target pests may persist in the treated consignment; in such cases, phytosanitary certification should be based on confirmation from the normal validation programme that the required response is achieved for the specific commodity and treatment conditions concerned.		
245	153	Live target pests may be found after treatment, but this should not result in the refusal to issue a phytosanitary certificate. Where mortality is the required response, live target pests may be found during the period immediately following the irradiation; in such cases, phytosanitary certification should be based on confirmation from audit checks that mortality is attained for	Ρ	PPPO In a consignment where mortality is not required, it will be difficult to determine if the appropriate 'response' to target pest is achieved e.g. sterility. Therefore, the way to ensure that the consignment has been treated properly is through observance of the minimum required dose. Thus, consider changing 'response' to 'minimum dose' is more appropriate. compound modifier not required here <i>Category : EDITORIAL</i>

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the specific commodity		
and treatment conditions		
concerned. Where		
mortality is not the		
required response, it is		
more likely that live		
target pests may persist		
in the treated		
consignment; in such		
cases, phytosanitary		
certification should be		
based on confirmation		
from the normal		
validation programme		
that the required		
minimum dose is		
administered for the		
specific commodity and		
treatment conditions		
concerned.Live target		
pests may be found after		
treatment, but this		
should not result in the		
refusal to issue a		
phytosanitary certificate.		
Where mortality is the		
required response, live		
target pests may be		
found during the period		
immediately following		
the irradiation; in such		
cases, phytosanitary		
certification should be		
based on confirmation		
from audit checks that		
mortality is attained for		
the specific commodity		
and treatment conditions		
concerned. Where		

246	153	mortality is not the required response, it is more likely that live target pests may persist in the treated consignment; in such cases, phytosanitary certification should be based on confirmation from the normal validation programme that the required response is achieved for the specific commodity and treatment conditions concerned.Live target pests may be found after treatment, but this should not result in the refusal to issue a	Ρ	Australia In a consignment where mortality is not required, it will be difficult to determine if the appropriate 'response' to target pest is achieved e.g. sterility. Therefore, the way to ensure that the consignment has been treated properly is through observance of the minimum required dose in addition to the required response. Category : TECHNICAL
		phytosanitary certificate. Where mortality is the required response, live target-pests may be found during the period immediately following the irradiation; in such cases, phytosanitary certification should be based on confirmation from audit checks that mortality is attained for the specific commodity and treatment conditions concerned. Where mortality is not the required response, it is more likely that live		

		target pests may persist in the treated consignment; in such cases, phytosanitary certification should be based on confirmation from the normal validation programme that the <u>minimum dose</u> <u>is administered and the</u> required response is achieved for the specific commodity and treatment conditions concerned.		
247	153	Live target pests may be found <u>during inspection</u> after treatment, but this should not result in the refusal to issue a phytosanitary certificate. Where mortality is the required response, live target-pests may be found during the period immediately following the irradiation; in such cases, phytosanitary certification should be based on confirmation from audit checks that mortality is attained for the specific commodity and treatment conditions concerned. Where mortality is not the required response, it is more likely that live target pests may persist	р	COSAVE As consequence of the deletion of the previous paragraph Category : TECHNICAL

	in the treated consignment; in such cases, phytosanitary certification should be based on confirmation from the normal validation programme that the required response is achieved f the specific commodit and treatment condition concerned.	n Sor ty ons	
248	153 Live target pests may found after treatment, but this should not res- in the refusal to issue phytosanitary certifica Where mortality is the required response, live target-pests may be found during the period immediately following the irradiation; in such cases, phytosanitary certification should be based on confirmation from audit checks that mortality is attained for the specific commodition and treatment condition concerned. Where mortality is not the required response, it is more likely that live target pests may persi in the treated consignment; in such cases, phytosanitary	sult a atte. e bd g n e h t or t y ons s	EPPO It is not clear what a "normal validation program" is and this word does not add any value. Category : TECHNICAL

certification should be based on confirmation		
from the normal validation programme that the required response is achieved for the specific commodity and treatment conditions concerned.	D	United States of America
249153Live target pests may be found after irradiation treatment, but this should not result in the refusal to issue a phytosanitary certificate. Where mortality is the required response, live target-pests may be found during the period immediately following the irradiation; in such cases, phytosanitary certification should be based on confirmation from audit checks that mortality is attained for the specific commodity and-treatment conditions concerned. Where mortality is not the required response, it is 	Ρ	United States of America commodity usually is not important in these situations. Category : TECHNICAL

validation pr that the requiresponse is a the specific e and treatment concerned.	ired ichieved for commodity	
250153Live target p found during after treatments should not re- refusal to iss phytosanitary Where mortal required resp target-pests re- found during immediately the irradiation cases, phytos certification based on com- from audit ch- mortality is a the specific co- and treatment 	c inspectionant, but thisesult in theue ay certificate.ality is theponse, livemay beg the periodfollowingon; in suchsanitaryshould beafirmationhecks thatattained forcommodityatt conditionsWherenot theponse, it ischat livemay persistitc; in suchsanitaryshould beafirmationmay persistattained forconse, it isconse, it isanitaryshould beanitaryshould beanitary	Uruguay As a consequence of the deletion of the previous paragraph Category : TECHNICAL

20211100.001	ountation		110 (2011 001					
		response is achieved for						
		the specific commodity						
		and treatment conditions						
		concerned.						
	8. Responsibilities							
251	154	8. Responsabilid ades	С	Costa Rica Se considera que esta sección requiere revisión, ya que en parrafos anteriores se mencionan otras obligaciones de la ONPF como el mantenimiento de registros, aprobación de instalaciones que no se incluyen. Así tambien se indica que como cooperación deberían especificarse las responsabilidad de las ONPF, pero ya en el texto se han especificado varias obligaciones de la ONPF <i>Category : SUBSTANTIVE</i>				
252	155	The NPPO of the country in which the irradiation treatment-is conducted is responsible for the evaluation, approval-approving and auditing of the application of irradiation treatment facilities and the providers as a phytosanitary measurewell as maintaining documented procedures and records for at least one year.	р	COSAVE To avoid redundancy <i>Category : TECHNICAL</i>				
253	155	The NPPO of the country in which the irradiation treatment is conducted is responsible for the evaluation, approval approving and auditing of the application of irradiation treatment facilities and the providers as a phytosanitary measurewell as maintaining documented	Ρ	Uruguay To avoid redundancy <i>Category : TECHNICAL</i>				

		procedures and records for at least one year.		
254	156	To the extent necessary, the NPPO should cooperate with other national regulatory agencies concerned with the development, approval and safety of irradiation treatments, including the training and certification of personnel conducting the treatment and the approval of treatment facilities. The respective responsibilities of the NPPO and the other regulatory agencies should be identified to avoid requirements that are overlapping, conflicting, inconsistent or unjustified.	C	Viet Nam VN proposes to add the following content 9. Recognition In case the NPPO of importing country has recognized and approved the irradiate treatment facility in the exporting country, the NPPO of the exporting country itself will carry out the inspection and report to the exporting country as well as meet compliance with the requirement of importing country. <i>Category : EDITORIAL</i>
255	156	The treatment provider is responsible for keeping the treatment records for at least one year and made them available for auditing and verification purposes. To the extent necessary, the NPPO should cooperate with other national regulatory agencies concerned with the development, approval and safety of irradiation treatments irradiation,	Ρ	COSAVE The new paragraph is in line with responsibilities mentioned in the "Record keeping" section (item 6.2) Category : SUBSTANTIVE

		including the training and certification of personnel conducting the treatment and the approval of treatment facilities. The respective responsibilities of the NPPO and the other regulatory agencies should be identified to avoid requirements that are overlapping, conflicting, inconsistent or unjustified.		
256	156	The treatment provider is responsible for keeping the treatment records for at least one year and made them available for auditing and verification purposes. To the extent necessary, the NPPO should cooperate with other national regulatory agencies concerned with the development, approval and safety of irradiation treatmentsirradiation, including the training and certification of personnel conducting the treatment and the approval of treatment facilities. The respective responsibilities of the NPPO and the other regulatory agencies	Р	Uruguay The new paragraph is in line with responsibilities mentioned in the "Record keeping" section (item 6.2) <i>Category : SUBSTANTIVE</i>

257	157	should be identified to avoid requirements that are overlapping, conflicting, inconsistent or unjustified. Potential implementation issues	C	European Union We would like to raise an implementation issue regarding a difficulty in checking at the point of entry that irradiation treatments have been performed properly especially where live pests are encountered. Further guidance on how NPPOs can determine the effectiveness of the treatment would be useful. <i>Category : TECHNICAL</i>
258	157	Potential implementation issues	С	EPPO An implementation issue has been raised by some EPPO members that there is a difficulty in checking at the point of entry that irradiation treatments have been performed properly especially where live pests are encountered. Further guidance on how NPPOs can determine the effectiveness of the treatment would be useful. <i>Category : TECHNICAL</i>
259	158	This section is not part of the standard. The Standards Committee in May 2016 requested the Secretariat to gather information on any potential implementation issues related to this draft. Please provide details and proposals on how to address these potential implementation issues.	C	Barbados Training of officers in the NPPO at both the export and import ends is essential in ensuring that this treatment is of the highest standard. Therefore countries with established facilities should be encouraged to provide training (from application to monitoring and evaluation) of this method. The Region does not benefit from this standard due to high implementation cost to implement , lack of resources and personnel. Challenges include: lack of acceptance by the organic food industries; limited availability of the technology; verification of treatment efficacy because pests may be found alive during commodity inspection, although they will not complete development or reproduce; cost; lack of facilities <i>Category : SUBSTANTIVE</i>
260	158	This section is not part of the standard. The Standards Committee in May 2016 requested the Secretariat to gather information on any potential implementation issues related to this draft.	C	Caribbean Agricultural Health and Food Safety Agency The Region does not benefit from this standard due to high implementation cost to implement , lack of resources and personnel. Category : SUBSTANTIVE

2021 First CO	noundition	I. DIAILISEIVI. REVISION OF ISEIVI TO (2014-0	Compiled comments – 2021 First consultation
		Please provide details	
		and proposals on how	
		to address these	
		potential	
		implementation issues.	
261	158	This section is not part C	Caribbean Agricultural Health and Food Safety Agency
		of the standard. The	Training of officers in the NPPO at both the export and import ends is essential in ensuring that this treatment is of the
		Standards Committee	highest standard. Therefore countries with established facilities should be encouraged to provide training (from application to monitoring and evaluation) of this method.
		in May 2016 requested	Category : SUBSTANTIVE
		the Secretariat to	
		gather information on	
		e	
		any potential	
		implementation issues related to this draft.	
		Please provide details	
		and proposals on how	
		to address these	
		potential	
		implementation issues.	
		t for facility approval	
262	161	ANNEX 1: Checklist	PPPO Change yes/no columns to 'comment' and 'evalutation'.
		f or facility	Yes/no criteria is too simplistic for a technical area. It becomes a tick box exercise without an underlying understanding
		approvalSummary of	of the technical requirements.
		irradiation	Category : SUBSTANTIVE
		requirements	
263	161	ANEXO 1: Lista de	Costa Rica
		comprobación	Mejor término <i>Category : EDITORIAL</i>
		verificación para la	
		aprobación de la	
		instalación	
264	162	The following checklist P	PPPO
		is intended to assist	To simplify this description of the annex
		persons inspecting or	Category : EDITORIAL
		monitoring facilities for	
		which the treatment	
1		provider is seeking to	

265 162	is intended to assist persons inspecting or monitoring facilities for which the treatment provider is seeking to establish or maintain facility approval and phytosanitary certification of irradiated commodities for international trade.	C	Australia Consider a column for "comments" for collection of other information should be included. Category : SUBSTANTIVE COSAVE
266 162	The following checklist is intended to assist persons inspecting or monitoring facilities for which the treatment provider is seeking to establish or maintain facility approval and phytosanitary certification of irradiated commodities for international tradeapproval	Ρ	This is only a check list to approve facilities Category : TECHNICAL
267 162		Р	Uruguay

	ountation			
268	162	persons inspecting or monitoring facilities for which the treatment provider is seeking to establish or maintain facility approval and phytosanitary certification of irradiated commodities for international tradeapproval. El propósito de la lista siguiente es ayudar a las personas que inspeccionan o supervisan instalaciones para las que el proveedor del tratamiento trata de establecer o mantener la aprobación de la instalación y la certificación fitosanitaria de los productos irradiados destinados al comercio internacionalinstalación	Ρ	Category : TECHNICAL Colombia Eliminar de este párrafo, la frase: "y la certificación fitosanitaria de los productos irradiados destinados al comercio internacional". Ya que con el check list no se genera la certificación fitosanitaria, solo se especifican las condiciones de la instalación. Category : SUBSTANTIVE
269	164	Yes <u>Comment</u>	Ρ	PPPO change yes/no column to comment/evaluation Category : TECHNICAL
270	164	Yes <u>Comments</u>	Р	Korea, Republic of Change yes/no columns to 'comment' and 'evalutation'. Yes/no criteria is too simplistic. <i>Category : SUBSTANTIVE</i>
271	165	No <u>Evaluation</u>	Р	PPPO change yes/no column to comment/evaluation Category : TECHNICAL
272	165	No <u>Evaluation</u>	Ρ	Korea, Republic of Change yes/no columns to 'comment' and 'evalutation'. Yes/no criteria is too simplistic. <i>Category : SUBSTANTIVE</i>
273	169	The treatment facility meets the approval of the national	Р	European Union 1) Simplification;

		plant protection organization (NPPO) as regards- <u>NPPOs</u> phytosanitary requirements, and the NPPO has reasonable access to the facility and appropriate records as necessary to validate phytosanitary treatments		 2) The explanation of the acronym "NPPO" is given in paragraph 39; 3) "reasonable" can be deleted because "as necessary" is sufficient. <i>Category : EDITORIAL</i>
274	169	The treatment facility meets the approval of the national plant protection organization (NPPO) as regards phytosanitary requirements, and the NPPO has reasonable access to the treatment facility and appropriate records as necessary to validate phytosanitary treatments.	Ρ	PPPO If the intention of this checklist is to assist in the approval process then it does not make sense to already have approval. Category : TECHNICAL
275	169	The treatment facility meets the approval of the national plant protection organization (NPPO) as in regards to phytosanitary requirements, and the NPPO has reasonable access to the facility and appropriate records as necessary to validate phytosanitary treatments	Ρ	Australia Improves sentence readability <i>Category : EDITORIAL</i>
276	169	The treatment facility meets the approval of the national plant protection organization (NPPO) NPPO as regards phytosanitary requirements, and the NPPO has reasonable access to the facility and appropriate records as necessary to validate phytosanitary treatments	Ρ	COSAVE To avoid redundancy. <i>Category : EDITORIAL</i>

277	169	The treatment facility meets the approval of the national plant protection organization (NPPO) as regards <u>NPPO's</u> phytosanitary requirements, and the NPPO has reasonable	Ρ	 EPPO Simplification; The explanation of the acronym "NPPO" is given in paragraph 39; "reasonable" can be deleted because "as necessary" is sufficient. Category : EDITORIAL
		access to the facility and appropriate records as necessary to validate phytosanitary treatments		
278	169	The treatment facility meets the approval of the national plant protection organization (NPPO) NPPO as regards phytosanitary requirements, and the NPPO has reasonable access to the facility and appropriate records as necessary to validate phytosanitary treatments	Ρ	Uruguay Editorial <i>Category : EDITORIAL</i>
279	172	Facility buildings are designed and built to be suitable in size, materials and placement of equipment to facilitate proper maintenance and operations for the lots to be treated.	Р	PPPO paragraphs [169 – 250] are all sentences and should therefore end in a fullstop <i>Category : EDITORIAL</i>
280	172	Facility buildings are designed and built to be suitable in size, materials and placement of equipment to facilitate proper maintenance and operations for the lots to be treated	С	Caribbean Agricultural Health and Food Safety Agency Jamaica proposes placing "materials and placement of equipment to facilitate proper maintenance and operations for the lots to be treated" as a separate point <i>Category : SUBSTANTIVE</i>
281	178	Buildings, equipment and other physical facilities are maintained in a sanitary condition and in repair sufficient to prevent <u>infestation or</u> contamination of the lots being treated	Р	European Union For consistency within the standard (please see the following paragraph and the core text of the draft revised standard). <i>Category : TECHNICAL</i>

282	178	Buildings, equipment and other physical facilities are maintained in a sanitary condition and in repair sufficient to prevent infestation or contamination of the lots being treated	Ρ	EPPO For consistency within the standard (please see the following paragraph and the core text of the draft revised standard). <i>Category : TECHNICAL</i>
283	214	Procedures and facilities or structures are in place to ensure the segregation of treated and untreated lots, including physical separation between incoming and outgoing holding areas	Ρ	PPPO 'Facilities' implies there is another facility that these activities take place however one irradiation facility may have appropriate structure in place to do this onsite. <i>Category : EDITORIAL</i>
284	217	4. Irradiation treatment	Р	COSAVE To avoid redundancy Category : EDITORIAL
285	217	4. Irradiation treatment	Ρ	Uruguay To avoid redundancy Category : TECHNICAL
286	244	Each <u>irradiated</u> lot carries identification to distinguish it from all other lots	Р	COSAVE For clarification Category : TECHNICAL
287	244	Each <u>irradiated</u> lot carries identification to distinguish it from all other lots	Ρ	Uruguay For clarification Category : TECHNICAL
APPENDIX	1: Exan	ple of a dosimeter in a ref	erence locati	ion
288	258	The relationship between minimum (D_{min}) and maximum (D_{max}) absorbed doses and the dose in the reference location (D_{ref}) in Figure 1 has been calculated as 0.8 and 1.4, respectively. For further examples, please refer to IAEA (2015).	С	United States of America It is fine to include this example from the IAEA 2015 document. However, the way it is represented here in a strongly abbreviated form is rather confusing. It might be helpful to expand a little bit to better explain this relationship and to present this example in its entirety and how it applies in real life. The numbers 0.8 and 1.4, respectively, represent the ratio estimator for minimum and maximum dose zones: Rmax = Dmax/Dref Rmin = Dmin/Dref. The example in the IAEA 2015 document states: Dmax = 4.2 kGy Dref = 3.0 kGy Therefore: Rmax = Dmax/Dref = 4.2 kGy/3.0 kGy = 1.4 Rmin = Dmin/Dref = 2.4 kGy/3.0 kGy = 0.8 Thus, if the target dose range is Dmin = 2.0 kGy and Dmax = 5.0 kGy, one can estimate the routine values for Dref to be:

Dref = Dmax/Rmax = 5.0 kGy/1.4 = 3.57 kGy at maxium
Dref = Dmin/Rmin = 2.0 kGy/0.8 = 2.5 kGy at minimum.
Category : TECHNICAL