



Form 8A: Committee decision for DIS

Secretariat: AFNOR	ISO/TC 23/SC6 N 2052
Project number and title: DIS 16122-5 - Agricultural and forestry machines — Inspection of sprayers in use — Part 5: Aerial spray systems -- Environmental protection	

This form should be sent to the ISO Central Secretariat (<http://isotc.iso.org/livelink/si/>), together with the draft of the project, by the secretariat of the technical committee or subcommittee concerned.

The accompanying document is submitted for circulation to member body vote: <input checked="" type="checkbox"/> As a DIS
Consensus has been obtained from the P-members of the committee: Click here to enter text. <input checked="" type="checkbox"/> At the meeting of TC23/SC6 See Resolution number 388/2017 In document N 1509 <input type="checkbox"/> By ballot initiated on Click here to enter text. Please attach a copy of the ballot results (if applicable)

Listing of the P-members (NWIP, CD or Resolution)
P-members in favour: China (SAC), Korea, Republic of (KATS) , Netherlands (NEN), United Kingdom (BSI), France (AFNOR), Spain (UNE), United States (ANSI)
P-members voting against: None
P-members abstaining:

Belgium (NBN) Bhutan (BSB) Brazil (ABNT) Canada (SCC) Denmark (DS) Finland (SFS) Germany (DIN) India (BIS) Italy (UNI) Japan (JISC) Norway (SN) Russian Federation (GOST R) Sweden (SIS) Switzerland (SNV)
P-members who did not vote: None
Remarks: Click here to enter text.

I hereby confirm that this draft meets the requirements of Part 2 of the ISO/IEC Directives :		
Secretariat: AFNOR	Date: Click here to enter text.	Name/Signature of TC/SC Secretary: Bernadette RUETSCH

Template for comments and secretariat observations

Date:2017-08-23	Document: ISO/TC 23/SC 6 N 1493 - -----CEN/TC 144 N 2052	Project: ISO/CD 16122-5
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MB/ NC 1	Lin e num ber	Clause / Subcla use	Paragra ph/ Figure /Table	Type of comme nt ²	Comments	Proposed change	Observations of the secretariat
ES 001				ge	Some key points for the inspection of the aerial spray systems are missing or are not clear. The present document cannot not be approved as an ISO/CD. It has to be amended according to the following remarks. Care should be taken that this part of ISO 16122 is consistent with other parts already approved if this standard.		Noted
US 002		02	2	TE	ISO 1401 is not referenced in the document.	Remove from normative references.	accepted
US 003		02	3	TE	ISO 4254-6 is not referenced in the document	Remove from references	accepted
US 004		02	5	TE	ISO 5682-1 not referenced in the standard	Remove from references	accepted
US 005		04.2	1	ED	Appears the word from was miss spelled to form	The tank surface shall be at free from cuts or abrasion externally and internal that may compromise wall integrity.	accepted
US 006		04.2	2	ED	Believe the verification methods are measurement or visual inspection. Sentence punctuation no clear on which method, and there is not a measurable method in the description.	Use the wording in previous 16122 parts, use "compliance by visual inspections" throughout all documents.	Accepted. PL check throughout the whole document
US 007		04.2.1	2	ED	For consistency, the method for verification would be function test	Proposed working and punctuation: Method of verification: measurement, functional test, and visual inspection.	See 006

US 008		04.3	2	ED	The first sentence is not so clear on what suction back return is? Is this suction on the return line or suction back to the spray tank?	Pressure (spray boom) lines shall be equipped with quick-acting shut-off valve that allow suction back to the spray tank for rapid de-pressurization of the spray boom unless liquid flow is controlled by starting and stopping the pump.	accepted
ES 009		04.5		te	The measurement of the pressure drop between the inlet and the furthest nozzle in each boom section is not enough to check if the pressure distribution in the aerial spray system is right.	<p>The pressure measurements in the inspection should be made following the requirements established in the other parts of ISO 16122. Therefore the following requirements should be checked during the inspection -the corresponding clauses in ISO 16122-2:2015 are indicated.</p> <p>Pressure adjusting devices (4.5.4) Compensative returns (if available) (4.8.8)</p>	Not accepted, but text changed to copy text from ISO 16122-2. Keep edited formula.

Template for comments and secretariat observations

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 Document: **ISO/TC 23/SC 6 N 1493** -
 -----CEN/TC 144 N 2052

 Project: **ISO/CD 16122-5**

MB/ NC 1	Li ne nu m b er	Clause/ Subclau se	Paragra ph/ Figure/T able	Type of comme nt ²	Comments	Proposed change	Observations of the secretariat
						Pressure drop (4.8.9) Pressure distribution (4.9.3.3.4)	
US 010		04.5	3	ED	In the formula, P is not defined. It is not clear if the denominator is supposed to be P1 or P0 or some other pressure reading.	Define what P in the denominator is.	Accept See 009
ES 011		04.6		te	The filter opening is determined by the kind of nozzle that is used.	A maximum filter/strainer opening should not be indicated	Not accepted
FR 012		04.6	Filters	Ed	The number 2 seems ambiguous	Replace by 2.0 mm or 2 mm	Accepted. 2 mm.
US 013		04.7	2	ED	Is the link reference adequate or should there be a hard copy reference?		yes
US 014		04.7	2	ED	In the examples should a link to Microns catalogue be added?		No, can't cite just on
FR 015		04.7	Nozzles	Te	"...shall not deviate by more than 5 % from the data of the manufacturers published flow rate tables. +/- 5%"? In 16122 -2, a max deviation of 5% is required within nozzles of an unknown flowrate.	Check consistency of this requirement with 4.9.3 and EN ISO 16122-2.	Changed to +-10%.

ES 016		04.7 and 4.9		te	The requirements related to the nozzle flow rate are not clear. The uniformity of the flow rate of all the nozzles has to be checked with the nozzles either mounted on the boom or dismounted. The flow rate of each nozzle has to be measured during the inspection. If the nozzle flow rate is determined by the amount of liquid discharged from the tank (second paragraph in 4.9.1), it cannot not be assured that all the nozzles deliver the expected flow rate. If the nozzle model cannot be identified, a deviation of the nozzle flow rate from the mean flow rate of all the nozzles has to be established.	Redraft sections 4.7 and 4.9 accordingly. To this effect, the requirements established in other parts of ISO 161 22 should be taken into account. The measurement of the flow rate by means of the amount of liquid discharged from the tank should not be included in the standard.	See 015, 4.9 redrafted note uniform nozzles are not always required for uniform spray distribution
ES 017		04. 9.1			A method for the measurement of the application rate should be stated, so that the maximum 10% deviation requirement can be assessed.		Noted. This is defined in ISO 5682-2 6 referred to.

Template for comments and secretariat observations

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MB/ NC 1	Lin e num ber	Clause/ Subcla use	Paragra ph/ Figure/T able	Type of comme nt ²	Comments	Proposed change	Observations of the secretariat
US 018		04.9.1	2	TE	There is reference to ISO 5682-2, except 8.1.1. ISO 5682-2:2017 does not include 8.1.1. Recommend review and determine dated reference so connection to other stand is not broken.	Update to clause in ISO 5682-2 that should be the reference.	Accepted. New structure of this clause. Clause corrected
FR 019		04.9.1.	General	Ed/Te	Indicating a normative criteria of +/- 10% on the application rate controller assumes that the swath width is kept constant through the control of the altitude.	Maybe the text shall precise at fixed altitude or for a given spray swath.	Not accepted.
FR 020		04.9.3	Nominal nozzle flow rate	Te	The requirement indicated in this paragraph (+/- 10%/15%) seems not consistent with 4.7 (+/-5%)?	Harmonize requirements	Accepted. Clause deleted and see 015
US 021		04.11	1	TE	4.2 is referenced as flow rate, but section 4.2 is about tanks. Believe it is supposed to be 4.9.2.	Update to 4.9.2.	Accepted. PL: check number
US 022		05.01	1	ED	The word minimum in the second sentence does not need to be capitalized.	Use lower cases m.	accepted
ES 023		05.02		te	The requirements for the accuracy of the pressure indicator and the scale of the analogue pressure indicator (if so) should be indicated according with those established in other parts of ISO 16122		Accepted. Add to chapter "5. Test methods" similar to other parts of ISO 16122, see also 4.8.3.

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MB/ NC ¹	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat
ES				ge	Some key points for the inspection of the aerial spray systems are missing or are not clear. It has to be amended according to the following remarks. Care should be taken that this part of ISO 16122 is consistent with other parts already approved if this standard.		See above
ES		4.5		te	The measurement of the pressure drop between the inlet and the furthest nozzle in each boom section is not enough to check if the pressure distribution in the aerial spray system is right.	The pressure measurements in the inspection should be made following the requirements established in the other parts of ISO 16122. Therefore the following requirements should be checked during the inspection -the corresponding clauses in ISO 16122-2:2015 are indicated. Pressure adjusting devices (4.5.4) Compensative returns (if available) (4.8.8) Pressure drop (4.8.9) Pressure distribution (4.9.3.3.4)	See above – noted as applicable
ES		4.6		te	The filter opening is determined by the kind of nozzle that is used.	A maximum filter/strainer opening should not be indicated	See above
ES		4.7 and 4.9		te	The requirements related to the nozzle flow rate are not clear. The uniformity of the flow rate of all the nozzles has to be checked with the nozzles either mounted on the boom or dismounted. The flow rate of each nozzle has to be measured during the inspection. If the nozzle flow rate is determined by the amount of liquid discharged from the tank (second paragraph in 4.9.1), it cannot not be assured that all the nozzles deliver the expected flow rate. If the nozzle model cannot be identified, a deviation of the nozzle flow rate from the mean flow rate of all the nozzles has to be established.	Redraft sections 4.7 and 4.9 accordingly. To this effect, the requirements established in other parts of ISO 161 22 should be taken into account. The measurement of the flow rate by means of the amount of liquid discharged from the tank should not be included in the standard.	See above see note 016
ES		4.9.1			A method for the measurement of the application rate should be stated, so that the maximum 10% deviation requirement can be assessed.		See above
ES		5.2		te	The requirements for the accuracy of the pressure indicator and the scale of the analogue pressure indicator (if so) should be indicated according with those established in other parts of ISO 16122		See 023

