



**SLOVENSKI STANDARD**  
**oSIST prEN IEC 60079-19:2024**  
**01-junij-2024**

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**Eksplozivne atmosfere - 19. del: Popravilo, obnova in remont opreme**

Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation

Explosionsgefährdete Bereiche - Teil 19: Gerätereparatur, Überholung und Regenerierung

Atmosphères explosives - Partie 19: Réparation, révision et remise en état de l'appareil

**Ta slovenski standard je istoveten z: prEN IEC 60079-19:2024**

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**ICS:**

29.260.20

Električni aparati za  
eksplozivna ozračja

Electrical apparatus for  
explosive atmospheres

**oSIST prEN IEC 60079-19:2024**

**en,fr,de**





# 31J/363/CDV

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SECRETARIAT: Croatia	SECRETARY: Mr Marino Kelava
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 18	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input checked="" type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input checked="" type="checkbox"/> SAFETY	
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TITLE:

**Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation**

PROPOSED STABILITY DATE: 2025

NOTE FROM TC/SC OFFICERS:

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**EXPLOSIVE ATMOSPHERES –**

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**Part 19: Equipment repair, overhaul and reclamation**

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**FOREWORD**

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281 IEC 60079-19 has been prepared by Subcommittee 31J: Classification of hazardous areas and  
282 installation requirements of IEC Technical Committee 31: Equipment for explosive  
283 atmospheres. It is an International Standard.

284 This fifth edition cancels and replaces the fourth edition published in 2019. This edition  
285 constitutes a technical revision.

286 Users of this document are advised that interpretation sheets clarifying the interpretation of this  
287 document can be published. Interpretation sheets are available from the IEC webstore and can  
288 be found in the “history” tab of the page for each document.

289 The significance of changes between IEC 60079-19, Edition 5 (20XX) and IEC 60079-19,  
290 Edition 4 (2019) are as listed below;

291

Explanation of the significance of changes	Clause	Type		
		Minor and editorial changes	Extension	Major technical changes
Reference to IEC 60079 series moved before IEC 60034 series	Introduction	X		
Scope restructured and reworded to clarify Scope of this document and align with other TC31 standards	Scope	X		
New bullet point clarifying that Ex Components are not repaired	Scope		X	
For Terms, with this document as the source document, as identified in IEC 60050-426:2020 426-15-xx the source reference has been omitted from this document since this document is the source	3	X		
Definition "Certificate" amended to align with new IEC 60079-0. Former definitions 3.2.1, & 3.2.2 deleted these are defined in IEC 60079-0 in this document remaining definitions become 3.2.1 & 3.2.2	3.2	X		
Definition "Schedule Drawing" kept even though it is in IEC 60079-0 to maintain connection with "related drawings	0	X		
Note 1 added to definition "related drawings" to assist manufacturers who consider "Schedule Drawings" intellectual property not accessible by others	3.2.2		X	
Previous Term 3.27 renumbered and admitted Term dust ignition protection "tD" added with amended Note 1	<b>Error! Reference source not found.</b>	X		
Previous Term Ex Equipment now amended to align with new IEC 60079-0 which covers electrical and non-electrical equipment	3.8	X		
Previous 3.7 Term flameproof enclosure "d" definition updated to current IEC definition	3.9	X		
Previous 3.8 Term increased safety "e" definition updated to current IEC definition	3.10	X		
Previous 3.9 renumbered and Source updated	3.11	X		
Previous 3.11 renumbered and <for explosive atmospheres added in accordance with current IEC definition	3.12	X		
Term non-electrical equipment added	3.15	X		
Previous 3.10 renumbered and Term corrected	3.16	X		
New Term 3.21 qualification<personal> added	3.21		X	
Previous 3.18 renumbered	3.22	X		
Term Responsible person and service facility re-numbered (swopped) to maintain alphabetic listing	3.24 0	X		
Previous Term 3.23 amended to align with IEC 60079-0 a new Note was added to change definition when used in IEC 60079-19 Term relocated alphabetically a "X" not as "symbol X"	<b>Error! Reference source not found.</b>	X		
New Definition added Type of Protection "h"	0		A1	
New Definition added for non-electrical Equipment with method of ignition protection "b" control of ignition sources	3.27.1		A1	
New Definition added for non-electrical Equipment with method of ignition protection "c" constructional safety	3.27.2		A1	

Explanation of the significance of changes	Clause	Type		
		Minor and editorial changes	Extension	Major technical changes
New Definition added for non-electrical Equipment with method of ignition protection “k” liquid immersion	0		A1	
Clauses increased from 15 to 16 for new Type of Protection “h” with method of ignition protection “b”, “c” & “k”	4.1	X		
Include “functional and visual inspection of Ex “m” is the only option to validate the ongoing use of Ex “m”	4.1 Para 1		X	
New paragraph to clarify IEC 60079-19 is used in conjunction with IEC 60079 series and other relevant standards such as IEC 60034 series. Clarification of scope requirement	4.1 Para 2		X	
New paragraph clarifying the requirements for use of “related drawings” in relation to overhaul and repair	4.1 Para 3		A2	
Clarification of requirement to agree status with user previously in Ed 4 Clause 4.3.2.1 m)	4.1 Para 4		X	
New paragraph clarifying service facility limitations particularly in relation to control systems and packages	4.1 Para 5		A3	
New sub-Clause clarifying “related drawings” in relation to overhaul and repair formally Clause 4.3.2.4.1	4.1.1		X	
New clause clarifying status of equipment after overhaul and repair previously in 4.1, 4.3.2.4.2 g), 4.3.2.6 & Annex A	4.2		A4	
New paragraph clarifying repair to Schedule Drawings should be first option, repair to standards permitted only when Schedule Drawings not available	4.2.1		X	
New paragraph providing similar guidance for repair of non-electrical equipment	4.2.1		X	
NOTE 2 in former Ed 4 Clause Clause 4.1 moved to 4.2.1	4.2.1	X		
New clause clarifying status of repair to Schedule Drawings or related drawings, previously 4.1, 4.3.2.6 a) & A 2.1	4.2.2		X	
New clause clarifying status of repair to relevant standards, previously 4.1, 4.3.2.4 2 g), 4.3.2.6 b), A2.2 a)	4.2.3		X	
New clause clarifying status repair to repairs with expert evaluation previously 4.1, 4.3.2.6 d), A.2.2 b)	4.2.4		X	
New clause clarifying service facility involvement in “fitness for purpose” evaluations for legacy equipment by the used under IEC 60079-17	4.2.5		XA5	
New clause clarifying status of equipment not in compliance with the relevant standards, previously 4.1, 4.3.2.6 c), A2.3	4.2.6		X	
Sub-clause title corrected in line with IEC 60079-0	Error! Reference source not found.	X		
“The equipment user” changed to “the user of Ex Equipment”	<b>Error!</b> <b>Reference source not found.</b>	X		

Explanation of the significance of changes	Clause	Type		
		Minor and editorial changes	Extension	Major technical changes
	Para 1			
Note from previous 4.2.4 moved to new paragraph in 4.3.1	<b>Error! Reference source not found.</b> Para 2	X		
Minor editorial changes to content moving requirements from previous 4.3.2.4.1 into new 4.3.2	4.3.2	X		
Previous Clause 4.2.3 reference standard IEC 60079-14 corrected to IEC 60079-17	4.3.2		X	
Previous Clause 4.3.2 title changed to "Service facility requirements" to clarify purpose	4.4		X	
Previous Clause 4.3.1 Statutory requirements clause renumbered	4.4.1	X		
Restructure clause. Edition 4 Clause 4.3.2 "Repair and overhaul" renamed Clause 4.4.2 "General" adding 1 <sup>st</sup> paragraph from Edition 4 Clause 4.3.2.4.1	4.4.2		X	
Re-introduce "-and follows good engineering practices" this was removed in Ed 4 but required in this edition for non-electrical equipment reclamations	4.4.2		X	
Schedule of QMS requirements in previous 4.3.2.1 b)-f), h)-k), p moved to new Annex D	4.4.2	X		
Previous 4.3.2.1 l) now new paragraph, competence requirements moved to new Clause 4.4.3.1	4.4.2		X	
Previous 4.3.2.4.1 first 3 paragraphs moved into new clause general	4.4.2	X		
Previous 4.3.2 now new-sub-clause "Control of overhaul, repair and reclamation"	4.4.3	X		
Last paragraph from B4 moved to Competence clause	4.4.3.1	X		
New sub-clause "Responsible person" to clarify requirements previously in 4.3.2.1 a) and elsewhere	4.4.3.2		X	
Clarification of need for responsible person at each service facility site	4.4.3.2		X	
Two new paragraphs clarifying delegation to other responsible persons and holiday and sickness coverage	4.4.3.2		X	
Clear statement clarifying situation where there is no responsible person at a service facility site	4.4.3.2	X		
New sub-clause "Duties and responsibilities of the Responsible Person" in previous editions these were implied but now clarified	4.4.3.3		X	
New sub-clause "Overhaul, repair and reclamation requirements previously in 4.3.2.1 "General"	4.4.4	X		
Previous 4.3.2.1.n) reworded and new reference to manufacturer's instructions for non-electrical equipment	4.4.4 Para 1	X		
Previous 4.3.2.1.m) with clarification of requirement	4.4.4 Para 2	X		
Previous 4.3.2.1.o) 1 <sup>st</sup> sentence now 3 <sup>rd</sup> para. of 4.4.4	4.4.4 Para 3	X		

Explanation of the significance of changes	Clause	Type		
		Minor and editorial changes	Extension	Major technical changes
Previous 4.3.2.1.n) 2 <sup>nd</sup> sentence amended to clarify only electrical tests can be omitted	4.4.4 Para 4	X		
Previous 4.3.2.1 o) 3 <sup>rd</sup> sentence now 5 <sup>th</sup> para. of 4.4.4	4.4.4 Para 5	X		
Previous 4.3.2.3 "Repair of components" paragraph moved into new "Overhaul, repair and reclamation requirements with clarification of requirements"	4.4.4 Para 6	X		
Previous 4.3.2.6 1 <sup>st</sup> paragraph now 7 <sup>th</sup> para. of 4.4.4	4.4.4 Para 7	X		
New paragraph to raise awareness of paint finish change possible static charge effects	4.4.4 Para 8		X	
New flow chart to clarify overhaul, repair and reclamation process which also identifies when the responsible person has to be involved in reviews or decisions	4.4.4 Fig 1		A6	
Previous Clause 4.3.4 "Alteration and modification" separated into 2 clauses 4.4.54.4.5 & 4.4.64.4.6	4.4.5 4.4.6	X		
Previous clause 4.3.2.6 renumbered and text references amended to align with format of Clause 4  New paragraphs added to clarify requirements for replacement of manufacturers nameplates	<b>4.4.7</b>		X	
Previous Clause 4.3.2.4 "Documentation" re-numbered	4.4.8	X		
Previous Clause 4.3.2.4.1 "General" bulk of content moved to 4.3.24.3.2 & 4.4.24.4.2 "related drawings" only bit left is period of retention now in 4.4.8.14.4.8.1	4.3.2 4.4.2 4.4.8.1	X		
Previous Clause 4.3.2.4.2 "Job report to the user" renamed User Job Report clause renumbered	4.4.8.2	X		
New bullet point a) requiring Ex Equipment identification, full nameplate together with Ex information this was previously required but had not been clearly stated in previous editions	4.4.8.2 a)		X	
Previous Clause 4.3.2.4.2 a) Bullet point reworded to include defects	4.4.8.2 b)	X		
Previous Clause 4.3.2.4.2 d) Bullet point renumbered as	4.4.8.2 c)	X		
Previous Clause 4.3.2.1 g) Bullet point reworded "as left" changed to "as returned, meaning when all work is completed"	4.4.8.2 d)	X		
Previous Clause 4.3.2.4.3.3).b) relocated & renumbered as	4.4.8.2 e)	X		
Previous Clause 4.3.2.4.2 e) relocated and renumbered as	4.4.8.2 f)	X		
Previous Clause 4.2.3.4.2.c) replaced parts list now in 4.4.8 i)	4.4.8.2 <b>Error! Reference source not found.</b>	X		

Explanation of the significance of changes	Clause	Type		
		Minor and editorial changes	Extension	Major technical changes
Previous 4.3.2.4.3.3).d) relocated and renumbered	4.4.8.2 h)	X		
Replacement parts from previous 4.3.2.4.2c) & 4.2.3.4.3.e) software/ firmware" added	4.4.8.2 i)	X		
New bullet point clarifying that the "reclamation record" is part of the "user job report" including previous 4.3.2.4.3.3.f	4.4.8.2 j)		X	
Previously 4.3.2.4.3.3) g) bullet point relocated	4.4.8.2 k)	X		
Previously 4.3.2.4.3.3) h) bullet point relocated	4.4.8.2. l)	X		
Previously 4.3.2.4.3.3) i) bullet point relocated	4.4.8.2 m)	X		
New bullet points clarifying job report statements previously in Clauses 4.1, 4.3.2.4.2 g) and Annex A	4.4.8.2 n)	X		
Previous 4.3.2.4.3.4 now 1 <sup>st</sup> Paragraph reworded to clarify requirement for reclamation records	4.4.8.3		X	
Previous Clause 4.3.2.4.3.4).e) & h) combined	4.4.8.3 Error! Reference source not found.	X		
Previous Clause 4.3.2.4.3 "Service facility records" renumbered	4.4.8.4	X		
New sub clause Job records with 2 new paragraphs clarifying what was previously in 4.3.2.4.3.3)	4.4.8.4.1	X		
Previous Clause 4.3.2.1 para 1 QMS records now new sub-clause	4.4.8.4.2	X		
Previous Clause 4.3.5 Temporary repairs clarified and renumbered	4.4.10			
Previous Clause 4.3.3.1 renumbered with 5 <sup>th</sup> para from Clause 4.3.3.4.1 added	4.4.11.1	X		
Clarification re duty of responsible person added in 4 <sup>th</sup> paragraph	4.4.11.1		X	
Previous 4.3.3.3.2 now relocated to 4.4.11.2	4.4.11.2	X		
Previous Clause 4.3.3.4 renamed "Mechanical reclamations" & renumbered	4.4.12	X		
New Clause added for bearings	4.4.12.9		X	
New sub-clause Rolling element bearings	4.4.12.9.1		X	
Previous Clause 5.3.5 moved to new clause sleeve bearings	4.4.12.9.2	X		
Previous Clause 4.3.6.5 "Lubrication" relocated and renumbered	4.4.12.11	X		
Title changed to Electric winding reclamations to include other electrical equipment with windings such as transformers, actuators etc	4.4.13	X		
Previous 4.3.6.1 reworded and expanded to clarify requirements & limitations which had not adequately specified in previous edition	4.4.13.1		X	
Previous Annex D 1 <sup>st</sup> para. relocated to 4.4.13.1	4.4.13.1	X		