BUREAU OF INDIAN STANDARDS

Program of Work

CHD 30: Nuclear Energy for Peaceful Applications

Scope:

a) To formulate Indian Standards for Nuclear Energy (for peaceful applications), for terminology, units and symbols, specifications in the field such as: - Materials for nuclear services (radioactive & non-radioactive), methods of sampling and test for physical, chemical and isotopic analysis of various materials, Specifications for nuclear grade chemicals. - Radiological protection - specifications for personal protective equipments, individual monitoring, area & personal monitoring devices & their calibration. - Nuclear energy including nuclear fuel cycle & technology, reactor technology & technology related to application of ionizing radiations. - Safety and environment surveillance in all the plants using and/or producing ionizing radiations

Liaison:

ISO TC-147 SC-3 (P): Radioactivity measurements ISO TC-85 (P): Nuclear energy, nuclear technologies, and radiological protection ISO TC-85 SC-2 (P): Radiological protection ISO

TC-85 SC-5 (P): Nuclear installations, processes and technologies ISO TC-85

SC-6 (**P**): *Reactor technology*

Published Standards

S.No	IS No. TITLE		Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11490 : 1985	Methods of radiological test for	January, 2024	-	
	Reviewed In: 2024	water			
	Decision taken to				
	Reaffirm and				
	Archive				
2	IS 14194 (Part 1):	Radionuclides in environmental		-	Indigenous
	2023	samples - Methods of estimation :			
		Part 1 Gross beta activity			
		measurement (Third Revision)			
3	IS 14194 (Part 2):	Radionuclides in environmental		-	Indigenous
	2022	samples - Methods of estimation :			
		Part 2 Gross alpha activity			
		measurement (Second Revision)			
4	IS 14194 (Part 3/Sec	Radionuclides in environmental		-	Indigenous
	1): 2024	samples - Method of estimation :			
		Part 3 Uranium : Sec 1 In water			
		sample (Second Revision)			
5	IS 14194 (Part 3/Sec	Radionuclides in environmental		-	Indigenous
	2): 2024	samples - Methods of estimation :			
		Part 3 Uranium : Sec 2 Uranium			
		measurement in geological and			
		biological samples			
6	IS 14194 : 2021	Radionuclides in Environmental		-	Indigenous
		Samples - Method of Estimation			
		Part 4 Radium (First Revision)			
7	IS 14194 (Part 5):	Radionuclides in environmental	September, 2023	-	Indigenous
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	2013	samples - Methods of estimation:			
	Reviewed In: 2023	Part 5 Sampling			
	Decision taken to				
	Reaffirm and				
	Archive	***	9 1 2022		
8	IS 15810 : 2008	Lithium pentaborate -	September, 2023	-	Indigenous
	Reviewed In: 2023	Specification			
	Decision taken to				
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	Archive 2000	A 1 1 121	M 1 2024		Y 1'
9	IS 15837 : 2009	Anhydrous diboron trioxide -	March, 2024	-	Indigenous
	Reviewed In: 2024	Specification			
	Decision taken to				
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10	Archive IS 15850 : 2009	Nivelana and de house contide	March 2024	+	Indiana
10	Reviewed In : 2024	Nuclear grade boron carbide -	March, 2024	-	Indigenous
		Specification			
	Decision taken to Reaffirm and				
	Archive				
11	IS 15854 : 2009	Nuclear grade ion-exchange resins	March, 2024	+	Indiannous
111	Reviewed In : 2024	- Specification	March, 2024	-	Indigenous
	Decision taken to	- Specification			
	Reaffirm and				
	Archive				
12	IS 16689 : 2018	Nuclear power plants - Reliability		+	Identical under dual
12	ISO 6527 : 1982	data exchange - General guidelines		-	numbering
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13	IS 16691 : 2018	Nuclear power plants -	May, 2023		Identical under dual
	ISO 8107 : 1993	Maintainability - Terminology	Way, 2023		numbering
	Reviewed In: 2023	Wiamamaomey Terminology			numbering
	ISO 8107				
14	IS 16692 : 2018	Sampling airborne radioactive	January, 2023	_	Identical under single
		materials from the stacks and ducts	,		numbering
	Reviewed In: 2023	of nuclear facilities			
	ISO 2889				
15	IS 16693 : 2021	Reference sources - Calibration of		-	Identical under dual
	8769	surface contamination monitors -			numbering
	ISO 8769	Alpha beta and photon emitters			
		(First Revision)			
16	IS 16878 : 2018	Practice for dosimetry in an		-	Identical under dual
	ISO/ASTM 51818:	electron beam facility for radiation			numbering
	2013	processing at energies between 80			
L	ISO/ASTM 51818	and 300 ke 5		<u> </u>	
17	IS 16879 : 2018	Practice for dosimetry in a gamma	December, 2023	-	Identical under dual
	ISO/ASTM 51702:	facility for radiation processing			numbering
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	Reviewed In: 2023				
	ISO/ASTM 51702:				
	2013			<u> </u>	
18	IS 16880 : 2018	Practice for dosimetry in electron		-	Identical under dual
	ISO/ASTM 51431 :	beam and X-ray (Bremsstrahlung)			numbering
	2005	irradiation facilities for food			
	ISO/ASTM 51431	processing		<u> </u>	
19	IS 16883 : 2022	Enclosures for protection against		-	Identical under dual
	ISO 7212 :1986	ionizing radiation - Lead shielding			numbering
	ISO 7212 :1986	units for 50 mm and 100 mm thick			
		wall		1	
20	IS 16884 : 2018	Radiation protection - Apparatus	September, 2023	-	Identical under dual
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15O 3099		ISO 3999 : 2004 Reviewed In : 2023	for industrial gamma radiography - Specifications for performance,			numbering
21 S 16885 2018 Reviewed In 2023 S 361 1975 Reviewed In 2023 Reviewed In 2024 Review			-			
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radiation Part 2 : Ex human vivo	
tooth enamel dosimetry	
62 IS 18534 (Part 1): Measurement and prediction of the	Identical under dual
2024 ambient dose equivalent from	numbering
ISO 18310-1: 2017 patients receiving iodine 131	
ISO 18310-1 : 2017 administration after thyroid	
ablation Part 1 : During the	
hospitalization	
63 IS 18534 (Part 2): Measurement and prediction of the	Identical under dual
2024 ambient dose equivalent from	numbering
ISO 18310-2 : 2021 patients receiving iodine 131	
ISO 18310-2 : 2021 administration after thyroid	
ablation Part 2 : External effective	
dose to the caregivers after release	
from the hospital	**
64 IS 18535 : 2024 Clinical dosimetry - Beta radiation -	Identical under dual
ISO 21439: 2009 sources for brachytherapy	numbering
ISO 21439: 2009	T.1411 1 1 1
65 IS 18536 : 2024 Clinical dosimetry - Dosimetry -	Identical under dual
ISO 28057: 2019 with solid thermoluminescence	numbering

		ISO 28057: 2019	detectors for photon and electron		
l			radiations in radiotherapy		
ſ	66	IS 18605 : 2024	Glove box for handling radioactive	-	Indigenous
١			material - Specification		

Standards under Development

Projects Approved			
SI. No.	SI. No. Doc No. Title		
No Records Found			

Preliminary Draft Standards				
SI. No.	SI. No. Doc No. Title			
	No Records Found			

	Drafts Standards in WC Stage				
SI. No.	Doc No.	Title			
1	CHD 30 (25257)	Measurement of Environmental Tritium in Natural Water			
2	CHD 30 (25270)	Radiometry of Metallic Components and Structures using Sealed Radioactive Sources Code of			
		Practice			

	Draft Standards Completed WC Stage			
SI. No.	Doc No.	Title		
1	CHD 30 (24903)	MEASUREMENT OF RADIOACTIVITY IN THE ENVIRONMENT-AIR RADON-222- PART		
		4 INTEGRATED MEASUREMENT METHOD FOR DETERMINING AVERAGE ACTIVITY		
		CONCENTRATION USING PERSONAL PASSIVE DOSIMETER		

Finalized Draft Indian Standard				
SI. No.	SI. No. Doc No. Title			
No Records Found				

Finalized Draft Indian Standards under Print				
SI. No.	Doc No.	Title		
1	CHD 30 (20786)	Monitoring and internal dose assement for radiation workers handling plutonium		

Total Published Standards:57 Total Standards Under development:4

Aspect Wise Report

Product: 7
Code of Practices: 1
Methods of Test: 50
Terminology: 6
Dimensions: 0
System Standard: 0
Safety Standard: 1
Others: 0

Service Specification: 0
Process Specification: 0
Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 17061 : 2022	Practice for Dosimetry in Radiation Processing First Revision
	ISO/ ASTM 52628 : 2020	
	ISO/TS 24159 : 2022	

Annexure-II : List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 15810 : 2008	Lithium pentaborate - Specification
	Reviewed In: 2023	
	Decision taken to Reaffirm	
	and Archive	
2	IS 15837 : 2009	Anhydrous diboron trioxide - Specification
1	Reviewed In: 2024	
	Decision taken to Reaffirm	
	and Archive	
3	IS 15850 : 2009	Nuclear grade boron carbide - Specification
	Reviewed In: 2024	
	Decision taken to Reaffirm	
	and Archive	
4	IS 15854 : 2009	Nuclear grade ion-exchange resins - Specification
	Reviewed In: 2024	
	Decision taken to Reaffirm	
	and Archive	
5	IS 16883 : 2022	Enclosures for protection against ionizing radiation - Lead shielding units for 50 mm and 100 mm
	ISO 7212 :1986	thick wall
	ISO 21350: 2023	
6	IS 16884 : 2018	Radiation protection - Apparatus for industrial gamma radiography - Specifications for
	ISO 3999 : 2004	performance design and tests
	Reviewed In: 2023 ISO	
	3999	
7	IS 18605 : 2024	Glove box for handling radioactive material - Specification