

INDEX OF INFORMATIVE REFERENCES IN SAFETY CASE FOR LONG TERM OPERATION OF KOEBERG NUCLEAR POWER STATION

The references in Table A1 below lists the informative references with its associated reference number in 331-618 Rev.3 (*Safety Case for Long Term Operation of Koeberg Nuclear Power Station*). Links to the list of informative references are provided for ease of access. While most documents are available publicly and accessible without charge, some documents may only be available from third party providers at a nominal fee.

TABLE A1

Reference No.	Informative References	Comment	Access Link
229	ASME QME-1 standard: Qualification of Mechanical Equipment Used in Nuclear Power Plants	Note this document need to be purchased from the website.	https://www.asme.org/codes-standards/find-codes-standards?search=true&query=qme-1
230	ANSI 3.5 1998: Nuclear Power Plant Simulators for Use in Operator Training and Examination	Note this document need to be purchased from the website.	https://webstore.ansi.org/standards/ansi/ansians1998
231	ANSI 51.1-1983: Nuclear Safety Criteria for the Design of Stationary Pressurised Water	Note this document need to be purchased from the website.	https://webstore.ansi.org/standards/ansi/ansians511983r1988
232	ANSI B 18.2-1973: Nuclear Safety Criteria for the Design of Stationary Pressurised Water Reactor Plants	Correct number is ANSI N18.2-1973, since this standard was used. ANSI B18.2 was released only 1983. Note this standard is superseded. This document needs to be purchased on special request.	https://store accuristech.com/searches/43467994

Reference No.	Informative References	Comment	Access Link
233	ANSI/ANS 57.2-1983: Design Requirements for Light Water Reactor Spent Fuel Storage Facilities at Nuclear Power Plants	Note this document need to be purchased from the website.	https://webstore.ansi.org/standards/ansi/ansians571983
234	ANSI/ANS 58.8-1994: Time Response Design Criteria for Safety-Related Operator Design Criteria Actions	Note this document need to be purchased from the website.	https://webstore.ansi.org/standards/ansi/ansians581994r2017
235	ASCE/SEI 43-05: Seismic Design Criteria for Structures, Systems, and Components in Nuclear Facilities	Note this document need to be purchased from the website.	https://webstore.ansi.org/standards/asce/ascesei4305
236	City of Cape Town: Municipal Spatial Development Framework		https://www.capetown.gov.za/work%20and%20business/planning-portal/Plans-policies-frameworks-and-guidelines/cape-town-spatial-development-framework https://resource.capetown.gov.za/documentcentre/Documents/City%20strategies%2C%20plans%20and%20frameworks/MSDF_Vol_I_Ch1-6_Tech_Suppl_A.pdf
237	Department of Mineral Resources and Energy (DMRE): National Nuclear Disaster Management Plan		https://www.gov.za/sites/default/files/gcis_document/201409/dmenucleardisaster05oct20050.pdf
238	Department of Mineral Resources and Energy (DMRE): Nuclear Energy Policy for the Republic of South Africa		https://www.energy.gov.za/files/policies/policy_nuclear_energy_2008.pdf
239	Department of Mineral Resources and Energy (DMRE): Radioactive Waste Management Policy and		https://www.gov.za/sites/default/files/gcis_document/201409/radwaste1.pdf

Reference No.	Informative References	Comment	Access Link
	Strategy for the Republic of South Africa		
240	Department of Mineral Resources and Energy (DMRE), R.266, Regulations on the Long-Term Operation of Nuclear Installations		https://www.gov.za/sites/default/files/gcis_document/202103/44394rg11262gon266.pdf
241	Department of Mineral Resources and Energy (DMRE), R.388, Safety Standards and Regulatory Practices (SSRP)		https://nnr.co.za/wp-content/uploads/2019/02/No-388-NNR-Regulation-on-Safety-Standards-and-Regulatory-Practices.pdf
242	Government Gazette 1999: National Nuclear Regulator Act, Act 47 of 1999. Gazette No: 20760		https://nnr.co.za/wp-content/uploads/2018/07/NNR-ARISTA-disc-clich%C3%A9_3_PRINT.pdf
243	Government Gazette No. 34735: Department of Energy, Regulations on licensing of sites for new nuclear installations (Regulation No. R.927).		https://nnr.co.za/wp-content/uploads/2022/10/No-927-NNR-Regulation-Licencing-of-sites-for-new-nuclear-power-plants.pdf
244	IAEA GSR Part 3, Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards		https://www.iaea.org/publications/8930/radiation-protection-and-safety-of-radiation-sources-international-basic-safety-standards
245	IAEA GSR Part 5: Predisposal Management of Radioactive Waste		https://www.iaea.org/publications/8004/predisposal-management-of-radioactive-waste
246	IAEA GSR: Part 4: Safety Assessment for Facilities and Activities		https://www.iaea.org/publications/10884/safety-assessment-for-facilities-and-activities
247	IAEA INSAG 13: International Nuclear Safety Advisory Group,		https://www.iaea.org/publications/5830/management-of-operational-safety-in-nuclear-power-plants

Reference No.	Informative References	Comment	Access Link
	Management of Operational Safety in Nuclear Power Plants		
248	IAEA INSAG-10: Defence-in-Depth in Nuclear Safety		https://www.iaea.org/publications/4716/defence-in-depth-in-nuclear-safety
249	IAEA NP-T-3.20: Buried and Underground Piping and Tank Ageing Management for Nuclear Power Plants		https://www.iaea.org/publications/10944/buried-and-underground-piping-and-tank-ageing-management-for-nuclear-power-plants
250	IAEA NS-G-2.10: Development and Application of Level 1 Probabilistic Safety Assessment for Nuclear Power Plants	The correct reference number to use is IAEA SSG-3. IAEA NS-G-2.10 is replaced with IAEA SSG-25 which is reference 264.	https://www.iaea.org/publications/8235/development-and-application-of-level-1-probabilistic-safety-assessment-for-nuclear-power-plants
251	IAEA NS-G-2.8: Recruitment, Qualification and Training of Personnel for Nuclear Power Plants		https://www.iaea.org/publications/6620/recruitment-qualification-and-training-of-personnel-for-nuclear-power-plants
252	IAEA PRIS: Power Reactor Information System, 2022		https://pris.iaea.org/signin/
253	IAEA Safety Glossary – 2018 Edition		https://www.iaea.org/publications/11098/iaea-safety-glossary-2018-edition
254	IAEA Safety Series Report No. 31. Managing the Early Termination of Operation of Nuclear Power Plants		https://www.iaea.org/publications/6793/managing-the-early-termination-of-operation-of-nuclear-power-plants
255	IAEA Safety Series Report No. 62. Proactive Management of Ageing for Nuclear Power Plants		https://www.iaea.org/publications/8047/proactive-management-of-ageing-for-nuclear-power-plants
256	IAEA Safety Report Series No. 82 (Rev. 1), Ageing Management for Nuclear Power Plants:		https://www.iaea.org/publications/13475/ageing-management-for-nuclear-power-plants-international-generic-ageing-lessons-learned-igall

Reference No.	Informative References	Comment	Access Link
	International Generic Ageing Lessons Learned (IGALL)		
257	IAEA Safety Report Series No. 92. Consideration of External Hazards in Probabilistic Safety Assessment for Single Unit and Multi-Unit Nuclear		https://www.iaea.org/publications/11080/consideration-of-external-hazards-in-probabilistic-safety-assessment-for-single-unit-and-multi-unit-nuclear-power-plants
258	IAEA Safety Standard Series No. GSR Part 3: Radiation Protection and Safety of Radiation Sources		https://www.iaea.org/publications/8930/radiation-protection-and-safety-of-radiation-sources-international-basic-safety-standards
259	IAEA Safety Standards Series No. GSR Part 7: Preparedness and Response for a Nuclear or Radiological Emergency		https://www.iaea.org/publications/10905/preparedness-and-response-for-a-nuclear-or-radiological-emergency
260	IAEA SRS-46: Assessment of Defence-in-depth for Nuclear Power Plants		https://www.iaea.org/publications/7099/assessment-of-defence-in-depth-for-nuclear-power-plants
261	IAEA SRS-65: Application of Configuration in Nuclear Power Plants		https://www.iaea.org/publications/8398/application-of-configuration-management-in-nuclear-power-plants
262	IAEA SSG-13: Chemistry Programme for Water Cooled Nuclear Power Plants		https://www.iaea.org/publications/8458/chemistry-programme-for-water-cooled-nuclear-power-plants
263	IAEA SSG-18: Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations		https://www.iaea.org/publications/8635/meteorological-and-hydrological-hazards-in-site-evaluation-for-nuclear-installations
264	IAEA SSG-25: Periodic Safety Review for Nuclear Power Plants		https://www.iaea.org/publications/8911/periodic-safety-review-for-nuclear-power-plants

Reference No.	Informative References	Comment	Access Link
265	IAEA SSG-48: Ageing Management and Development of a Programme for Long-Term Operation of Nuclear Power Plants		https://www.iaea.org/publications/12240/ageing-management-and-development-of-a-programme-for-long-term-operation-of-nuclear-power-plants
266	IAEA SSR-2/1: Safety of Nuclear Power Plants: Design		https://www.iaea.org/publications/10885/safety-of-nuclear-power-plants-design
267	IAEA SSR-2/2: Safety of Nuclear Power Plants: Commissioning and Operation		https://www.iaea.org/publications/10886/safety-of-nuclear-power-plants-commissioning-and-operation
268	IAEA SSR-6: Regulations for the Safe Transport of Radioactive Material Specific Safety Requirements		https://www.iaea.org/publications/12288/regulations-for-the-safe-transport-of-radioactive-material
269	IAEA TECDOC-1309: Cost Drivers for the Assessment of Nuclear Power Plant Life Extension		https://www.iaea.org/publications/6590/cost-drivers-for-the-assessment-of-nuclear-power-plant-life-extension
270	IAEA TECDOC-1335: Configuration in Nuclear Power Plants		https://www.iaea.org/publications/6612/configuration-management-in-nuclear-power-plants
271	IAEA TECDOC-1344: Standard for Categorization of Radioactive Sources		https://www.iaea.org/publications/6808/categorization-of-radioactive-sources
272	IAEA-TECDOC-1791: Considerations on the Application of the IAEA Safety Requirements for the Design of Nuclear Power Plants		https://www.iaea.org/publications/11069/considerations-on-the-application-of-the-iaea-safety-requirements-for-the-design-of-nuclear-power-plants
273	IEEE 60780-323:2016: Nuclear Facilities – Electrical Equipment Important to Safety – Qualification	Note this document need to be purchased from the website.	https://webstore.iec.ch/publication/24213

Reference No.	Informative References	Comment	Access Link
274	IEEE-279-1971: Criteria for Protection Systems for Nuclear Power Generating Stations	Note this document need to be purchased from the website.	https://ieeexplore.ieee.org/document/8383728
275	IEEE-323-1974: IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations		https://ieeexplore.ieee.org/document/6568022
276	INPO 12-012: Traits of a Healthy Nuclear Safety Culture		https://www.nrc.gov/docs/ML1303/ML13031A707.pdf
277	INPO 17-004: Principles for Excellence in Nuclear Suppliers	The correct title is “Principles for Excellence in Corporate Performance”. This document is not readily available and may be requested from INPO.	https://www.inpo.info/
278	ISO 9001: Quality Management Systems Requirements	Note this document need to be purchased from the website.	https://www.iso.org/standard/62085.html
279	Memorandum of Agreement between Eskom Holdings Ltd and the Western Cape Provincial Government, and the City of Cape Town	Only a local copy of this document is available and can be accessed from the link provided.	https://www.eskom.co.za/wp-content/uploads/2024/04/Appendix_4_MoA_3_spheres_Govt_Rev1.pdf
280	National Environmental Management Act 107 of 1998		https://www.gov.za/documents/national-environmental-management-act
281	National Environmental Management: Integrated Coastal Management Act 24 of 2008, Section 69		https://www.gov.za/documents/national-environmental-management-integrated-coastal-management-act

Reference No.	Informative References	Comment	Access Link
282	NEA No. 7248: Implementation of Defence-in-Depth at Nuclear Power Plants, 2016		https://www.oecd-nea.org/jcms/pl_14950/implementation-of-defence-in-depth-at-nuclear-power-plants?details=true
283	NEI 09-14 (2013), Guideline for the Management of Buried Piping Integrity		https://www.nrc.gov/docs/ML1313/ML13130A322.pdf
284	NNR LD-1020: Radiation Dose Limitation at Koeberg Nuclear Power Station	NNR LD-1020 is superseded by RD-022.	https://nnr.co.za/wp-content/uploads/2020/10/RD-022-REV-0-RADIATION-DOSE-LIMITATION-AT-KNPS.pdf
285	NNR LD-1093: Requirements for the Full Scope Operator Training Simulator at Koeberg Nuclear Power Station		https://nnr.co.za/wp-content/uploads/2020/10/LD-1093-REV-2-REQUIREMENTS-FOR-THE-FULL-SCOPE-OPERATOR-TRAINING-SIMULATOR-AT-KOEBERG-NUCLEAR-POWER-STATION.pdf
286	NNR NIL-01 Variation 19: Koeberg Nuclear Installation Licence		https://nnr.co.za/wp-content/uploads/2021/07/k10001391N-KNPS-NIL-01-Variation-19.pdf
287	NNR RD-0014: Emergency Preparedness and Response Requirements for Nuclear Installations		https://nnr.co.za/wp-content/uploads/2020/10/RD-014-REV-0-EMERGENCY-PREPAREDNESS-AND-RESPONSE-REQUIREMENTS-FOR-NUCLEAR-INSTALLATIONS.pdf
288	NNR RD-0022: Radiation Dose Limitation at Koeberg Nuclear Power Station		https://nnr.co.za/wp-content/uploads/2020/10/RD-022-REV-0-RADIATION-DOSE-LIMITATION-AT-KNPS.pdf
289	NNR RD-0024: Requirements on Risk Assessment and Compliance with Principal Safety Criteria for Nuclear Installations		https://nnr.co.za/wp-content/uploads/2019/01/RD-0024-REV-0-REQUIREMENTS-ON-RISK-ASSESSMENT-AND-COMPLIANCE-WITH-PRINCIPAL-SAFETY-CRITERIA-FOR-NUCLEAR-INSTALLATIONS.pdf
290	NNR RD-0034: Quality and Safety Management Requirements for Nuclear Installations		https://nnr.co.za/wp-content/uploads/2020/10/RD-0034-REV-0-QUALITY-AND-SAFETY-MANAGEMENT-REQUIREMENTS-FOR-NUCLEAR-INSTALLATIONS.pdf
291	NNR RG-0007: Regulatory Guide – Management of Safety		https://nnr.co.za/wp-content/uploads/2016/Guidance-Docs/RG-0007%20Management%20of%20Safety%20-%20(Approved).pdf

Reference No.	Informative References	Comment	Access Link
292	NNR RG-0011: Interim Guidance for the Siting of Nuclear Facilities.		https://nnr.co.za/wp-content/uploads/2015/02/RG-0011-Guidance-on-Siting-Approved.pdf
293	NNR RG-0019: Guidance on the Safety Assessments of Nuclear Facilities		https://nnr.co.za/wp-content/uploads/2018/04/RG-0019-Guidance-on-the-Safety-Assessments-of-Nuclear-Facilities-Approved.pdf
294	NNR RG-0027: Interim Regulatory Guide Ageing Management and Long-Term Operations of Nuclear Power Plants		https://nnr.co.za/wp-content/uploads/2020/10/RG-0027-Interim-Guide-for-AM-and-LTO.pdf
295	NNR RG-0028: Interim Regulatory Guide Periodic Safety Review of Nuclear Power Stations		https://nnr.co.za/wp-content/uploads/2020/10/RG-0028-Interim-Guide_final_red-block-1.pdf
296	NRC, NUREG/KM-0009: Historical Review and Observations of Defence-in-Depth, 2016		https://www.nrc.gov/reading-rm/doc-collections/nuregs/knowledge/km0009/index.html
297	Provincial Disaster Management Centre 2016, Preparedness Plan: Nuclear Emergencies at Koeberg Nuclear Power Station		https://nnr.co.za/regulation-and-licensing/emergency-planning-and-preparedness-2/
298	US NRC 10 CFR 50: Domestic Licensing of Production and Utilisation Facilities		https://www.nrc.gov/reading-rm/doc-collections/cfr/part050/full-text.html
299	WANO GP ATL-11-005: Excellence in the Design and Management of Design and Operating Margins	Document may be requested from WANO.	https://www.wano.info/about-us/contact-us
300	WASH-1250-1973: The Safety of Nuclear Power Reactors and Related Facilities		https://www.nrc.gov/docs/ML1214/ML12143A280.pdf

