# Safety of Nuclear Power Plants: Design (IAEA Safety Standards Series No. Ssr-2/1 (REV. 1))


This publication establishes requirements applicable to the design of nuclear power plants and elaborates on the safety objective, safety principles and concepts that provide the basis for deriving the safety requirements that must be met for the design of a nuclear power plant. It will be useful for organizations involved in design, manufacture, construction, modification, maintenance, operation and decommissioning of nuclear power plants, as well as for regulatory bodies. A review of Safety Requirements publications was commenced in 2011 following the accident in the Fukushima Daiichi nuclear power plant in Japan. The review revealed no significant areas of weakness and resulted in just a small set of amendments to strengthen the requirements and facilitate their implementation, which are contained in the present publication.



**iaea tecdoc series - IAEA Publications - International Atomic Energy** OVERALL STATUS OF THE SAFETY STANDARDS SERIES. 2. 4. (Rev.1), SSG-30, SSG-31, GSR Part 6, GSR Part 3, GSG-5. Safety The second column gives the working identification number (DS ) of SF and SR only)) . SSR-2/1. Safety of Nuclear Power Plants: Design (2012). SSR-2/2. Safety of **The Secretariat of the International Atomic Energy Agency (IAEA** OVERALL STATUS OF THE SAFETY STANDARDS SERIES. 2 Safety standards published in 2014: TS-G-1.6 (Rev.1), SSG-26, SSG-27, SSG-28, The second column gives the working identification number (DS ) SF and SR only)) . SSR-2/1. Safety of Nuclear Power Plants: Design (2012). SSR-2/2. **Nuclear Safety Review 2015 - International Atomic Energy Agency** IAEA Safety Standards have been developed on the basis of an international consensus. Requirements. No. SSR-2/1. (Rev.1). [2]. IAEA Specific Safety Requirements Safety of Nuclear Power Plants: Design [SSR-2/1 (Rev.1)] provide 82 **Earthquake Engineering for Nuclear Facilities - Google Books Result** use of this methodology in conjunction with the IAEA safety standards will identify weak that sufficient margin exists above the design level and therefore loss of the fundamental safety functions in Site Evaluation for Nuclear Power Plants, Safety Standards Series No. SSR-2/1, IAEA, Vienna (Approved by BoG2011). **IAEA SAFETY GLOSSARY - Nuclear Safety and Security** 1. INTRODUCTION. 1.1. BACKGROUND. According to IAEA Safety Standards Series No. SSR-2/1, The design for a nuclear power plant shall take due account **Measures to Strengthen International Cooperation in Nuclear** Safety of

Nuclear Power Plants: Design. Specific Safety Requirements. IAEA Safety Standards Series No. SSR-2/1 (Rev. 1). Subject Classification: 0603-Nuclear **A Methodology to Assess the Safety Vulnerabilities of Nuclear** IAEA SAFETY STANDARDS SERIES No. NS-R-3 (Rev. 1) . Plants: Design (SSR-2/1, 2012) Safety of Nuclear Power Plants: Commissioning and Operation **Safety of Nuclear Power Plants: Design - IAEA Publications** No. SSR-2/1. Specific Safety Requirements. IAEA. Safety Standards Series No. SSR-2/1. This publication has been superseded by SSR-2/1 (Rev. 1) . 1. Nuclear power plants Design and construction Safety measures. 2. Nuclear power **Nuclear Power Plant Instrumentation and Control Systems for Safety - Google Books Result** Facilities for Radioactive Waste (IAEA Safety Standards Series No. SSG-29) TS-G-1.6 (Rev.1)), The Safety Case and Safety SSR-2/1), Safety of Nuclear Power Plants: Commissioning and Operation . the siting, design, construction and commissioning stages and the transition to operation.33. 33. **IAEA Safety Standards Safety of Nuclear Power Plants: Design** are available for thermal reactors, for example, IAEAs safety series 50-C-D Rev D, 1988, IAEA is subsequently revising the NS-R-1 standard, fundamental safety IAEA SSR 2/1*: Safety of nuclear power plants: design High- ure in nuclear power plants *These are for light water reactors, but not for Gen-IV **Ageing management for nuclear power plants - IAEA Publications** No significant changes from Rev. 3. . based on the IAEA safety standards, represent good practices in the WENRA member SSR-2/1 Safety of Nuclear Power Plants: Design [6] number of internal hazards covered as part of this TAG. .. ((Hazard + consequencesi) + (independent faultii) + (minimum plant availability)). **IAEA Safety Standards - IAEA Publications - International Atomic** Specific Safety Requirements. No. SSR-2/1 (Rev. 1). Safety of. Nuclear Power Plants: Design. IAEA. Safety Standards Series No. SSR-2/1 (Rev. 1) **Explanatory Note** Safety assessment of nuclear power plants (NPPs) . of Nuclear Power Plants: Design (IAEA Safety Standards Series No. SSR-2/1. (Rev. 1)). **Internal hazards - NS-TAST-GD-014 - Office for Nuclear Regulation** Major IAEA Safety Standards Series in publication (*1) number. Document name. Year of publication and other information. Safety SSR-2/1(*3) Safety of Nuclear Power Plants: Design *3 SSR-2/1 was published in July 2011. .. commitments here consist of (i) the CPPNM (INFCIRC/274/Rev. and the revised **STATUS OF THE IAEA SAFETY STANDARDS** Human Factors Engineering in the Design of Nuclear Power Plants Plants: Design (IAEA Safety Standards Series. No. SSR-2/1 (Rev.1)). **Progress in the Implementation of the IAEA Action Plan on Nuclear** This 2016 Revision of the IAEA Safety Glossary 2007 Edition is not a new Edition of the. IAEA Safety Standards Series Nos GSR Part 3 (Radiation Protection and Safety of Radiation Sources: International Basic or Radiological Emergency) and SSR 2/1 (Rev. 1) (Safety of Nuclear Power Plants: Design)). The revisions **Technical Meeting on Novel Design and Safety Principles of Nuclear** PAHO. WHO. 1. AHO. WHO. IAEA. Safety Standards Series No. GSR Part 7 . The IAEAs safety services encompass design, siting and engineering safety, operators around the world to enhance safety in nuclear power generation and Preparedness and Response for a Nuclear or Radiological Emergency (GS-R-2)1,. **IAEA SAFETY GLOSSARY - Nuclear Safety and Security** accident, IAEA Safety Standards Series No. SSR-2/1 (Rev. 1), Safety of Nuclear Power. Plants: Design, has introduced some new concepts with respect to the 2/12 and subsequently in SSR-2/1 (Rev. 1)3. The TECDOC also identifies terms 2 Safety of Nuclear Power Plants: Design (IAEA Safety Standards Series No. **Implementation of the IAEA Action Plan on Nuclear Safety** Basic safety principles for nuclear power plants (75-INSAG-3, Rev. 1). Modern instrumentation and control for nuclear power plants: Guidebook (Technical reports series, No387). IAEA safety standards series No. SSR-2/1. IAEA safety standards: Safety of nuclear power plants: Design: Specific safety requirements. **Site evaluation for nuclear installations - IAEA Publications STATUS OF THE IAEA SAFETY STANDARDS** Design (IAEA Safety Standards Series No. SSR-2/1 (Rev. 1)), Safety of Nuclear Power Plants: Commissioning and Operation (IAEA Safety **STATUS OF THE IAEA SAFETY STANDARDS** OVERALL STATUS OF THE SAFETY STANDARDS SERIES Safety standards published in 2014: TS-G-1.6 (Rev.1), SSG-26, SSG-27, SSG-28, SSG-29, NS-R-5 . The second column gives the working identification number (DS ) SF and SR only)) .. SSR-2/1: Safety of Nuclear Power Plants: Design. **Safety of nuclear power plants - IAEA Publications - International** Safety of Nuclear Power Plants: Design. Specific Safety Requirements. IAEA Safety Standards Series No. SSR-2/1. Superseded by: SSR-2/1 (Rev. 1). **V. Items to be Considered in Terms of Prevention of Accidents and** experience at nuclear power plants (NPPs) shows, open phase conditions may, however, be difficult to detect under Safety of Nuclear. Power Plants: Design (IAEA Safety Standards Series No. SSR-2/1 (Rev. 1)), which will be submitted.