5. Regulatory Capacity (Nuclear and Radiation Safety Centre of Excellence)

- The NNR has identified the need to establish a Nuclear and Radiation Safety Centre of Excellence to:

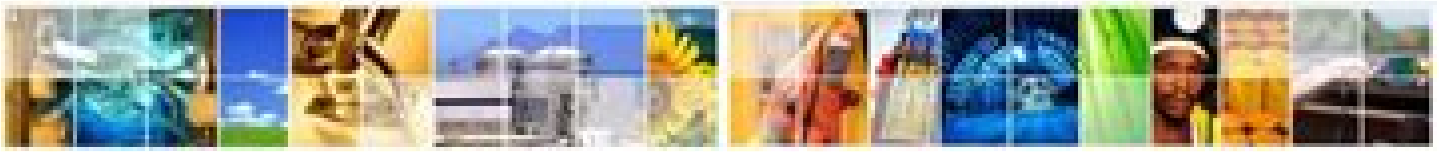
✓ Conduct research addressing nuclear safety of new build technologies (PWRs, Research reactors, Front & back end)

✓ Technical support for NNR (TSOs are fundamental to the activities of regulatory bodies internationally)

✓ HR training needs for NNR (inspectors, specialists, etc.)

✓ Specialized skills are utilized by the NNR and needed on a project by project basis from time to time i.e. SGR project currently underway

- Host institution and collaborating institutions have been identified



Safety Research Needs For Rubiandesigned Reactors

Sandia National Laboratories. Reactor Safety Research Program

Safety Research Needs For Rubiandesigned Reactors:

Safety of Research Reactors ,2005 This Safety Requirements publication establishes requirements for all the important areas of the safety of research reactors with particular emphasis on requirements for design and operation It covers the lifetime of research reactor facilities from site evaluation to design and construction commissioning operation including utilization and modification and decommissioning *Safety of Research Reactors* ,2016 **Safety of Research Reactors** ,2016 This Safety Requirements publication establishes requirements for all main areas of safety for research reactors with particular emphasis on requirements for design and operation It explains the safety objectives and concepts that form the basis for safety and safety assessment for all stages in the lifetime of a research reactor Technical and administrative requirements for the safety of new research reactors are established in accordance with these objectives and concepts and they are to be applied to the extent practicable for existing research reactors The safety requirements established in this publication for the management of safety and regulatory supervision apply to site evaluation design manufacturing construction commissioning operation including utilization and modification and planning for decommissioning of research reactors including critical assemblies and subcritical assemblies The publication is intended for use by regulatory bodies and other organizations with responsibilities in these areas and in safety analysis verification and review and the provision of technical support Publisher s description *Safety Assessment of Research Reactors and Preparation of the Safety Analysis Report* International Atomic Energy Agency,1994 Presents guidelines approved by international consensus for the preparation review and assessment of the safety documentation Safety Series No 35 S1 and for the preparation of the Safety Analysis Report SAR Safety Series No 35 S2 *Safety in the Utilization and Modification of Research Reactors* International Atomic Energy Agency,1994 This Safety Guide part of a set of publications in the IAEA Safety Series dealing with all the important areas of research reactor safety which includes Safety Standards Safety Guides and Safety Practices develops the general concepts presented in Safety Series Nos 35 S1 and 35 S2 and should be read in conjunction with them This Safety Guide presents guidelines for the safe utilization and modification of research reactors to ensure that these projects are implemented without undue risks to personnel the public the environment or the reactor While the Safety Guide is most applicable to existing reactors it is also recommended for use by organizations planning to put a new reactor into operation Please note this publication will be superseded by SSG 24 *Use of a Graded Approach in the Application of the Safety Requirements for Research Reactors* International Atomic Energy Agency,2023-04-30 This Safety Guide considers the application of a graded approach throughout the lifetime of a research reactor site evaluation design construction commissioning operation and preparation for decommissioning including utilization and experiments that are specific features of research reactor operation A major aspect of this Safety Guide involves the use of a graded approach in the application of the safety requirements for the design and operation of research reactors so that the fundamental safety

objective to protect people and the environment from harmful effects of ionizing radiation is achieved It is intended for use by operating organizations regulatory bodies and other organizations involved in the design construction and operation of research reactors This Safety Guide is a revision of IAEA Safety Standards Series No SSG 22 which it supersedes

Commissioning of Research Reactors ,2006 This Safety Guide provides recommendations for the commissioning of research reactors on the basis of international best practices The guidance and recommendations of this Safety Guide are applicable to most types of research reactors and fulfil the general requirements on research reactor safety presented in IAEA Safety Standards Series No NS R 4 Safety of Research Reactors as well as those in Safety Series No 35 G1 Safety Assessment of Research Reactors and Preparation of the Safety Analysis Report Commissioning is one of the major steps in the life cycle of a research reactor and appropriate guidance for conducting the process is essential The emphasis in this Safety Guide is on the commissioning of a new research reactor but guidance is also provided on the commissioning of new experiments and of reactor modifications *Safety in the Utilization and Modification of Research Reactors* IAEA,2022-09-01 This Safety Guide is a revision of IAEA Safety Standards Series No SSG 24 which it supersedes The current publication provides recommendations on how to meet the applicable safety requirements relating to the utilization and modification of research reactors The recommendations focus on the categorization safety assessment and approval of research reactor experiments and modification projects The publication also incorporates the relevant lessons learned from the accident at the Fukushima Daiichi nuclear power plant and elaborates on interfaces between nuclear safety and nuclear security Specific safety considerations in different phases of utilization and modification projects are covered including pre implementation implementation and post implementation phases Guidance is given on operational safety of experiments including the handling dismantling post irradiation examination and disposal of experimental devices The publication is intended to be of use to individuals within the operating organizations of research reactors regulatory bodies as well as the experimenters technical support organizations and other persons involved in utilization and modification projects **Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report** IAEA,2022-08-24 This Safety Guide provides recommendations on the safety assessment for research reactors in the authorization process and on performance of safety analysis and preparation of the safety analysis report It also incorporates the relevant lessons learned from the accident at the Fukushima Daiichi nuclear power plant and elaborates guidance on interfaces between nuclear safety and nuclear security The recommendations in this Safety Guide are intended for operating organizations of research reactors it can also be used by designers performing a safety assessment for a research reactor Furthermore this guide provides useful guidance for regulatory bodies performing a review and assessment of submitted safety analysis reports as an important document within authorization process This Safety Guide is a revision of IAEA Safety Standards Series No SSG 20 which it supersedes *Safety in the Utilization and Modification of Research Reactors* International Atomic Energy

Agency,2022-10-30 This Safety Guide is a revision of IAEA Safety Standards Series No SSG 24 which it supersedes The current publication provides recommendations on how to meet the applicable safety requirements relating to the utilization and modification of research reactors The recommendations focus on the categorization safety assessment and approval of research reactor experiments and modification projects The publication also incorporates the relevant lessons learned from the accident at the Fukushima Daiichi nuclear power plant and elaborates on interfaces between nuclear safety and nuclear security Specific safety considerations in different phases of utilization and modification projects are covered including pre implementation implementation and post implementation phases Guidance is given on operational safety of experiments including the handling dismantling post irradiation examination and disposal of experimental devices The publication is intended to be of use to individuals within the operating organizations of research reactors regulatory bodies as well as the experimenters technical support organizations and other persons involved in utilization and modification projects Reactor Safety Research Semiannual Report Sandia National Laboratories. Reactor Safety Research Program,1988 Safety of Research Reactors IAEA.,2017 Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report: IAEA Safety Standards Series No. Ssg-20 (Rev.1) International Atomic Energy Agency,2022-10-31 This Safety Guide provides recommendations on the safety assessment for research reactors in the authorization process and on performance of safety analysis and preparation of the safety analysis report It also incorporates the relevant lessons learned from the accident at the Fukushima Daiichi nuclear power plant and elaborates guidance on interfaces between nuclear safety and nuclear security The recommendations in this Safety Guide are intended for operating organizations of research reactors it can also be used by designers performing a safety assessment for a research reactor Furthermore this guide provides useful guidance for regulatory bodies performing a review and assessment of submitted safety analysis reports as an important document within authorization process This Safety Guide is a revision of IAEA Safety Standards Series No SSG 20 which it supersedes Reactor Safety Research Program United States Nuclear Regulatory Commission Division of Reactor Safety Research,1975 **Safety Requirements for Research Reactors** ,1999 **Safety Requirements in the Design and Operation of Research Reactors** ,1998 **Research and Development in Reactor Safety** U.S. Atomic Energy Commission,1959 *Maintenance, Periodic Testing and Inspection of Research Reactors* International Atomic Energy Agency,2006 This Safety Guide provides practical guidance on how to fulfil requirements on research reactor safety It covers a broad range of international practices including preventive and corrective maintenance of structures systems and components periodic testing to ensure that operations remain within established operating limits and conditions and non routine inspections This Safety Guide is applicable to all types of heterogeneous research reactors having a power rating of up to several tens of megawatts Report of the Reactor Safety Research Review Group Norman Carl Rasmussen,United States. Reactor Safety Research Review Group,United States. President's Nuclear Safety Oversight Committee,1981

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