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Occupational Radiation Protection at Nuclear Power Plant in Pakistan

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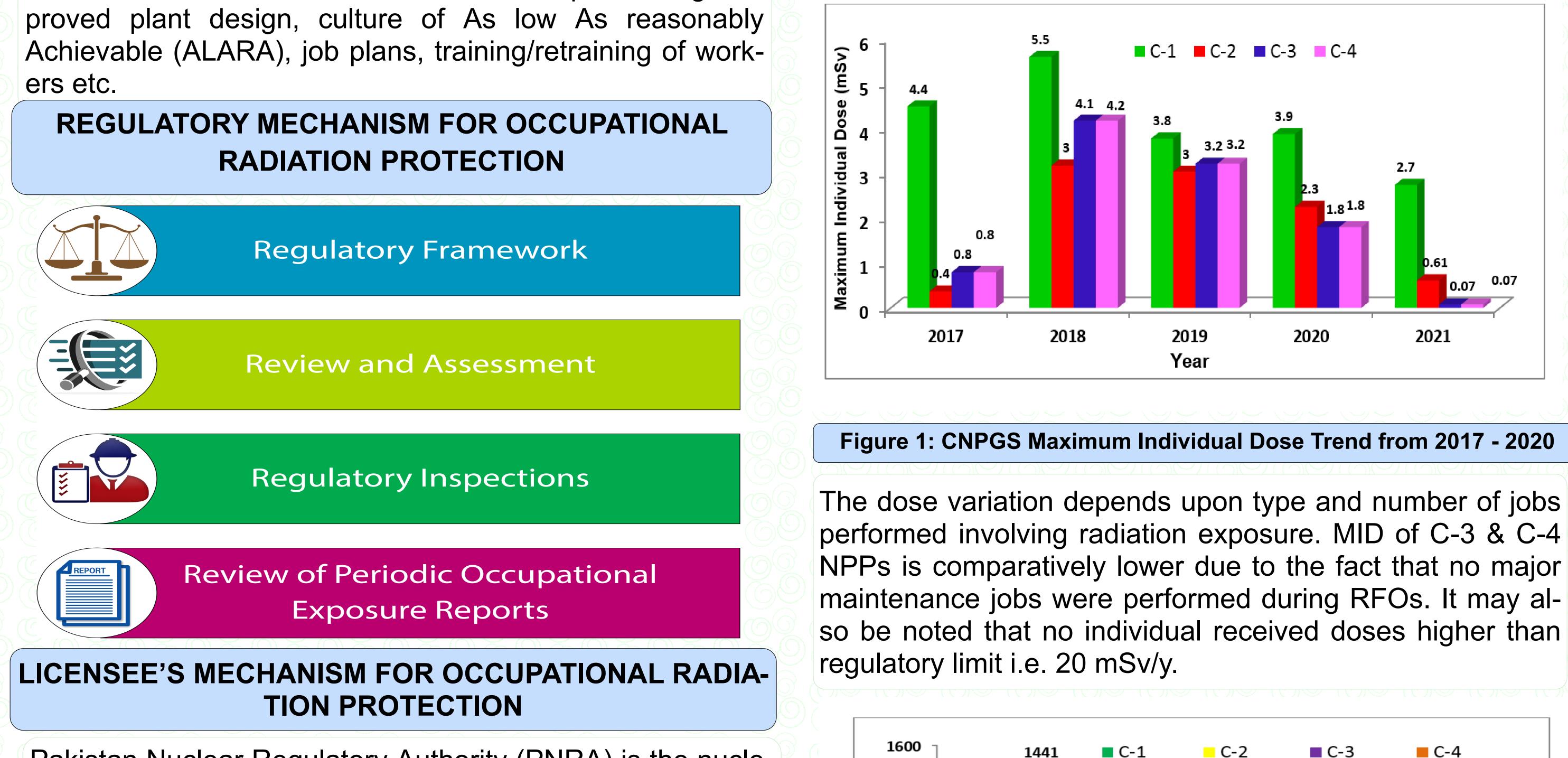
Pakistan Nuclear Regulatory Authority (PNRA)

INTRODUCTION

Workers in Nuclear Power Plants (NPPs) are likely to receive radiation exposure during routine operation, maintenance and Refueling Outages (RFOs). Therefore, protection and safety of workers is a main concern at NPPs. This exposure can be controlled by effective regulatory control, licensee's measures to control radiation exposure e.g. im-

TREND ANALYSIS OF DOSES AT NPPS IN PAKISTAN

PNRA evaluates periodic dose reports submitted by licensee to check the occupational radiation protection situation, also to verify the implementation of regulatory limit i.e. 20 mSv/y. The Maximum Individual Dose (MID) received during 2017-2021 is presented below:



0.07

IAEA

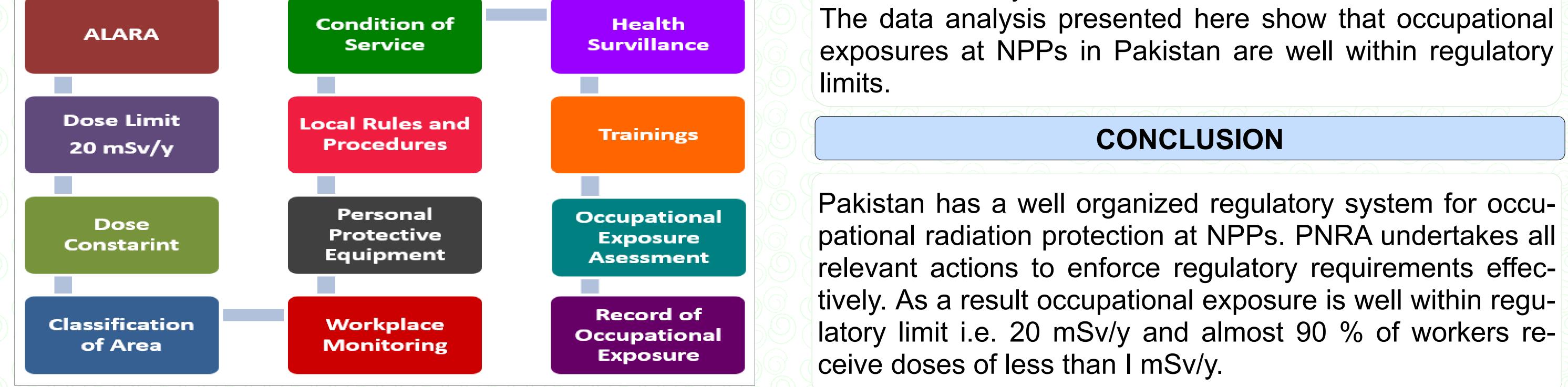
ar regulatory body in Pakistan. The prime responsibility for radiation protection and safety of workers lies with the licensee. PNRA requires the licensees to submit different documents e.g. Safety Analysis Report, Radiation Protection Program (RPP) etc. for review and assessment of PNRA. To verify compliance of regulatory requirements, the licensee performs occupational exposure assessment and submits periodic reports to PNRA.

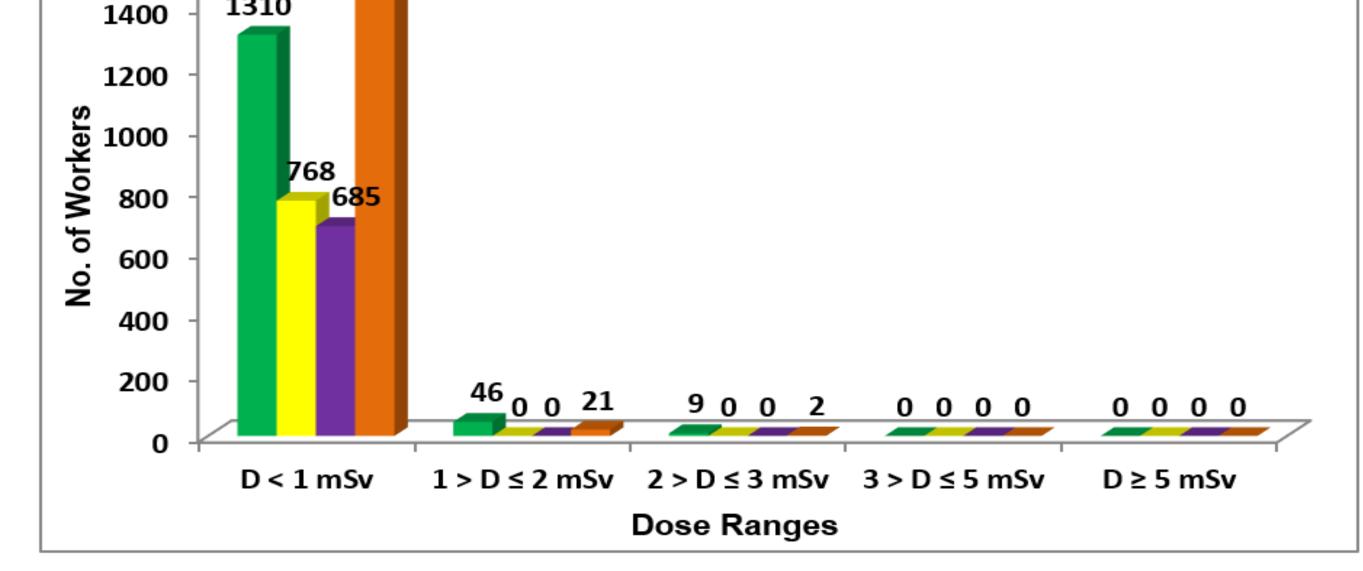
Pakistan Nuclear Regulatory Authority (PNRA) is the nucle-

NATIONAL REGULATIONS ON RADIATION **PROTECTION - PAK/904 (REV.1)**

PNRA has established a robust regulatory framework for radiation protection and safety. PNRA Regulations-PAK/904 (Rev.1) specifically describes the requirements for occupational radiation protection.

REQUIREMENTS FOR OCCUPATIONAL RADIATION PROTECTION IN REGULATIONS-PAK/904 (REV.1)





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Figure 2: CNPGS Dose Ranges in the Year 2021

Figure 2 presents the number of CNPGS radiation workers that received radiation doses in different ranges. It can be observed that radiation doses of about more than 90 percent workers of C-1 and almost 100 percent workers of C-2, C-3 & C-4 are less than 1mSv in a year. No worker of C-1, C-2, C-3 & C-4 has dose greater than or equal to 3 mSv in the calendar year 2021.

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