

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO-323
ANSWERED ON- 24/07/2024

SAFETY AND EFFICIENCY OF NUCLEAR PLANTS

323. DR. PRADEEP KUMAR PANIGRAHY

Will the PRIME MINISTER be pleased to state:-

- (a) the details of measures taken/being taken by the Government to enhance the safety and efficiency of nuclear power plants ensuring the sustainable growth of nuclear energy in the country?

ANSWER

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS
AND PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH)

- (a) Highest priority is accorded to safety in all aspects of nuclear power viz. siting, design, construction, commissioning, and operation. Nuclear power plants are designed adopting safety principles of redundancy, diversity and provide fail-safe design features following a defence-in-depth approach. The operations are performed adopting well laid out procedures by highly qualified, trained and licensed personnel.

A multi-tier safety review mechanism within Nuclear Power Corporation of India Limited (NPCIL) by the regulatory authority (Atomic Energy Regulatory Board-AERB) is in place. Based on these reviews and operating experience feedback, necessary upgrades are carried out and the nuclear power plants are maintained at state-of-the-art in terms of safety.

Major Renovation of reactors like Enmasse Coolant Channel Replacement (EMCCR), Enmasse Feeder Replacement (EMFR), Enmasse Boiler Hairpin Replacement (EMBHR) etc. are also undertaken to enhance the safety and life of the reactors. The standardisation and improvement in design has resulted in operation of reactors at high Availability and Plant Load Factors.
