



ATOMIC ENERGY REGULATORY BOARD, MUMBAI

e-Newsletter

January - March 2025 Volume-36 / Issue - 1

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From the Chairman's Desk

It gives me immense pleasure to share with you that we redrafted and adopted the revised Integrated Management System (IMS), the governing document on how AERB functions, with whole hearted participation of our employees. With due approval of the Board of AERB, the IMS has been put into use on February 14, 2025.

Dear Readers,
Greetings to all !

I am pleased to address you through this edition of the AERB Newsletter as we conclude the first quarter of the calendar year 2025. This period has been marked by significant progress in our ongoing efforts to strengthen regulatory oversight, enhance safety culture, and modernize our operational framework.

In my New Year's Message this year, I already indicated that this year should be the year of 'Actions' in AERB. I discussed this in detail in my address for the 76th Republic Day celebration on January 26, 2025.

During the quarter, AERB has continued to engage with licensees and stakeholders to ensure adherence to the highest safety standards across all nuclear and radiation facilities in the country. Feedbacks from nuclear and radiation facilities were obtained from stakeholders and being analysed for further continual improvement of our

regulatory inspection and consenting process. The successful completion of several inspections, audits, and safety reviews reflect our commitment to a transparent and robust regulatory framework. We continued with safety assessments for ageing facilities, ensuring their sustained compliance with contemporary safety benchmarks.

AERB continues to conduct regulatory inspections across various nuclear and radiation facilities. Its Site Observers provide continuous regulatory oversight at four nuclear power plant sites at Rawatbhata, Kalpakkam, Kakrapara, and Kudankulam.

Southern Region Regulatory Centre (SRRC) of AERB at Chennai has implemented a solution using machine learning (ML) algorithms to optimise its regulatory inspection schedules for radiation facilities across southern India as a pilot project. This innovative Cluster-based Radiation facility Inspection Scheduling Program (CRISP), has

been developed to bring in improvements in operational efficiency for scheduling & conducting regulatory inspections.

As part of public outreach programme in the vicinity of NPPs, AERB participated in the outreach programme for nuclear physics students of P.T. College of science in Surat on January 29, 2025.

At AERB, we celebrated International Women's Day with great enthusiasm, focusing on the theme "Accelerate Action", a call to move forward with greater determination in our chosen path.

It gives me immense pleasure to share with you that we redrafted and adopted the revised Integrated Management System (IMS), the governing document on how AERB functions, with whole hearted participation of our employees. With due approval of the Board of AERB, the IMS has been put into use on February 14, 2025.

Let AERB be the beacon of professionalism, credibility, and resilience, setting high standards for all. Our competency is the hallmark of AERB's regulation, and we will continue to rely on this in-house competence through our AERB review groups.

This quarter, we lost an eminent physicist and one of India's most distinguished scientists Padma Vibhushan Dr. Rajagopala Chidambaram. AERB pays its heartfelt tributes to Dr. Rajagopala Chidambaram, who was Chairman of the Atomic Energy Commission and Secretary to the Government of India, DAE (1993-2000).

As always, I urge every stakeholder in the nuclear and radiation sector to remain vigilant, uphold safety as a fundamental value.

Thank you for your continued dedication and collaboration. Let us move forward with renewed focus on excellence, safety, and service to the nation.

Warm regards,



**With warm regards,
Dinesh Kumar Shukla
Chairman, AERB**

1.0 BOARD MEETING OF AERB

The AERB held a Board meeting at Rawatbhata Rajasthan site on February 14, 2025. Chairman AERB, Dr. D. K. Shukla took the opportunity to address the employees of RAPS-1 to 8 (NPCIL), NFC-Kota and HWP-Kota on the importance of developing,

sustaining, and strengthening safety culture. Shri B. C. Pathak, CMD, NPCIL, Dr. Komal Kapoor, CE, NFC, Board members of AERB and senior management officials from NPCIL, NFC and HWP Kota attended the event.



Chairman, AERB addressing at Rawatbhata Rajasthan Site

2.0 AWARENESS PROGRAMME NEAR KAPS PREMISES AT SURAT, P.T. COLLEGE OF SCIENCE

As a part of public outreach programme in the vicinity of NPPs, AERB participated in the outreach programme for nuclear physics students of P.T. College of science in Surat on January 29, 2025. The programme was initiated by KAPS Public Awareness Division with a lecture series. The lectures included

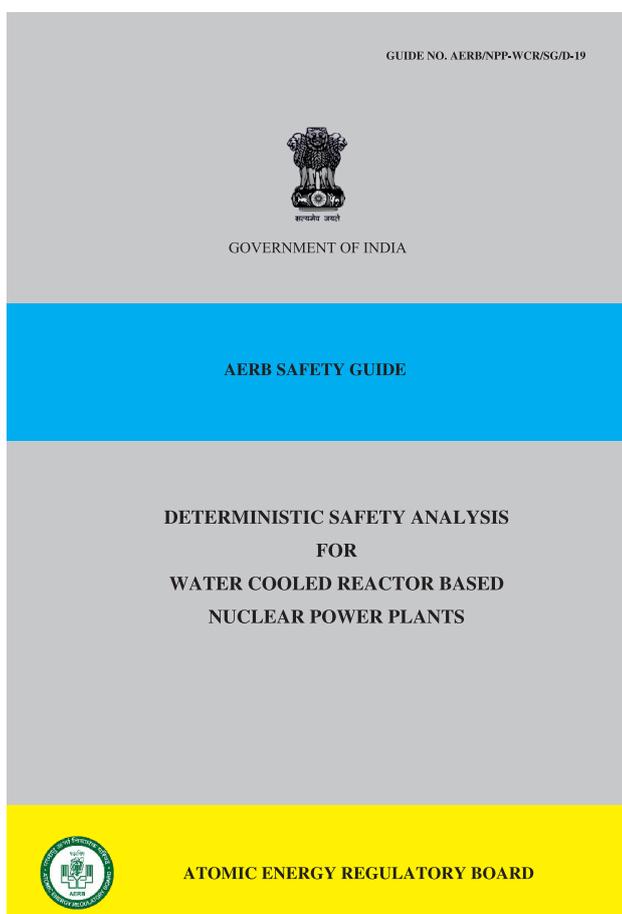
talks from NPCIL, BARC and AERB officials. A short video on AERB was screened. The bilingual (English and Gujarati) programme was attended by about 50 participants which included undergraduate students of nuclear physics and the teaching faculty of the college.

3.0 INTEGRATED MANAGEMENT SYSTEM

The functioning of AERB is integrated into one complete framework, enabling it to work as a single unit with the unified objective in the form of its Integrated Management System (IMS). Based on use of the previous versions of AERB-IMS, a need was felt to restructure AERB-IMS to reflect the understanding of fundamental concepts for designing and developing the AERB-IMS. The revised IMS, while introducing some updates and additions, is primarily focused

on continuity, providing a sense of reassurance and confidence. The relevant inputs of International Atomic Energy Agency (IAEA) documents has been taken into account in the revised IMS of AERB. The revised IMS, the governing document on how AERB functions, was prepared with the wholehearted participation of all employees of AERB and with due approval of the Board of AERB, the IMS has been put into use in AERB on February 14, 2025.

4.0 REGULATORY DOCUMENTS



The revised Safety Guide on “Deterministic Safety Analysis for Water Cooled Reactor Based Nuclear Power Plants (AERB/NPP-WCR/SG/D-19)” was published during the quarter. This guide supersedes the Safety Guide on Deterministic Safety Analysis for Pressurized Heavy Water Reactors (AERB/NPP-PHWR/SG/D-19, 2018). It applies to water-cooled reactor-based NPPs (PHWR, PWR and BWR) built after its issue.

5.0 REGULATORY INSPECTIONS OF NUCLEAR, INDUSTRIAL AND RADIATION FACILITIES

During this quarter, AERB conducted 25 inspections across various nuclear and industrial facilities. No safety significant deviations were observed. AERB carried out 202 regulatory inspections at various industrial and medical radiation facilities including two reactive unannounced and one reactive announced inspections.

18 deviations of moderate safety significance were observed during these inspections. AERB Site Observers stationed at four nuclear power plant Sites at Rawatbhata, Kalpakkam, Kakrapara, and Kudankulam continued to observe the activities at the stations and provided inputs to AERB.

6.0 AERB DEVELOPS INSPECTION SCHEDULING SYSTEM USING ML ALGORITHMS

Southern Region Regulatory Centre (SRRC) of AERB at Chennai has implemented a solution using machine learning (ML) algorithms to optimise its regulatory inspection schedules for radiation facilities across southern India as a pilot project. This innovative Cluster-based Radiation facility Inspection Scheduling Program (CRISP), has been developed to bring in improvements in operational efficiency for scheduling &

conducting regulatory inspections.

CRISP represents a significant departure from traditional inspection scheduling methods. The system employs advanced ML algorithms, specifically the Density-Based Spatial Clustering of Applications with Noise (DBSCAN), to optimize inspection routes and schedules based on geographical proximity and inspection priorities.

7.0 76TH REPUBLIC DAY CELEBRATION

AERB celebrated 76th Republic Day on 26th January 2025 at Niyamak Bhavan Complex with the unfurling of National flag and singing of patriotic songs. Addressing the

gathering, Chairman AERB extended heartfelt wishes on the 75th Republic Day. The complete address is available on AERB website.



Glimpses of Republic Day Celebrations at AERB

8.0 INTERNATIONAL WOMEN'S DAY CELEBRATION

International Women's Day was celebrated at AERB on the theme "Accelerate Action", a call to move forward with greater determination in the chosen path. As part of the event, a talk cum interactive session was

arranged on financial independence and financial literacy led by Dr. Poonam Tandon, Chief Investment Officer, India First Life, Mumbai for AERB staff.



Glimpses of International Women's Day Celebration

9.0 CHAIRMAN, AERB GRACED 35TH IARP NATIONAL CONFERENCE (IARPNC-2025)

Dr. D. K. Shukla, Chairman, AERB graced the prestigious event of 35th IARP National Conference (IARPNC-2025) as Chief Guest. The event was organized jointly by Mangalore University, and Indian Association for Radiation Protection (IARP) from January 29-31, 2025. Chairman, AERB

addressed the august gathering consisting of distinguished dignitaries from DAE units, academia, research institutes, defence, and industry. Around 200 delegates attended the event from national and international level.



Glimpses of 35th IARP National Conference



Glimpses of 35th IARP National Conference

10.0 NATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN MANUFACTURING TECHNOLOGY & MANAGEMENT

Dr. D. K. Shukla, Chairman, AERB was Chief Guest in the National Conference on 'Recent Advancements in Manufacturing Technology & Management' organised by Production Engineering Department, Jadavpur

University on January 16, 2025. He also delivered a keynote address on Nuclear Power Plants Safety - Role of Design, Construction and Quality.



Glimpses of National Conference on 'Recent Advancements in Manufacturing Technology & Management'

11.0 CHAIRMAN, AERB GRACED THE NATIONAL SAFETY DAY- 2025 CELEBRATIONS AT L&T, AMNHEC, HAZIRA

Dr. D. K. Shukla, Chairman, AERB attended the National Safety Day- 2025 at L&T, AMNHEC, Hazira as Chief Guest on

4th March, 2025. He delivered a talk on 'Developing, Sustaining & Strengthening Safety Culture' during the event.



Glimpses of National Safety Day at L&T, AMNHEC, Hazira

12.0 TRIBUTES TO PADMA VIBHUSHAN, DR. RAJAGOPALA CHIDAMBARAM

Padma Vibhushan Dr. Rajagopala Chidambaram, an eminent physicist and one of India's most distinguished scientists left for his heavenly abode on January 04, 2025. AERB paid its heartfelt tributes to Dr. Rajagopala Chidambaram who was Chairman, Atomic Energy Commission, and

Secretary to the Government of India, DAE (1993-2000). In a condolence meeting held in Niyamak Bhavan foyer, AERB remembered Dr. Chidambaram's contributions to the Country with great reverence.



AERB paid tribute to Dr. Rajagopala Chidambaram

13.0 HINDI PROGRAMME AND ACTIVITIES

Hindi Workshop

Various Hindi programmes were conducted to enhance the adoption of official language in day to day functioning by all the employees.

Hindi Training

Parangat, Prabodh and Praveen Courses are organized to provide the desired Hindi knowledge to all the employees under the Hindi Teaching Scheme in AERB. Five persons were nominated for appearing the examination for Parangat, Prabodh and Praveen examinations.

14.0 APPOINTMENTS / RETIREMENTS / TRANSFERS

Following officials were appointed in AERB:

S.No.	Name	Designation	Date of Joining	Remark
1.	Shri S. A. Meshram	Chief Administrative Officer	08-01-2025	Transfer in the same capacity from GSO
2.	Shri Shailesh kumar T. Waghmare	Assistant Accounts Officer	08-01-2025	Transfer in the same capacity from BARC
3.	Shri Pratendra Kumar	Technical Officer (C)	10-01-2025	Direct Recruitment

Following officials Retired/Transferred/Resigned from AERB:

S.No.	Name	Designation	Date of Joining	Remark
1.	Smt. Kavita S. Chopade	APO(G)	16-01-2025(AN)	Transferred to BARC on promotion
2.	Shri Dhanesh R. Parmar	Assistant Director (OL) Official Language	28-03-2025(AN)	Transferred to HWB Facilities, Vadodara

IMPORTANT LINK FOR REFERENCE MATERIAL AT A GLANCE

S. No.	Title/Website	Link
1.	AERB	https://www.aerb.gov.in
2.	Chairman's Desk AERB - Atomic Energy Regulatory Board	https://www.aerb.gov.in/english/about-us/chairman-s-desk
3.	Codes & Guides AERB - Atomic Energy Regulatory Board	https://www.aerb.gov.in/english/publications/codes-guides
4.	AERB Annual Report	https://www.aerb.gov.in/english/publications/annual-report
5.	Newsletter AERB - Atomic Energy Regulatory Board	https://www.aerb.gov.in/english/publications/newsletter
6.	Feedback AERB - Atomic Energy Regulatory Board	https://www.aerb.gov.in/english/feedback
7.	Research Publications AERB - Atomic Energy Regulatory Board	https://www.aerb.gov.in/english/publications/research-publications
8.	Licensing/Consenting AERB - Atomic Energy Regulatory Board	https://www.aerb.gov.in/english/regulatory-process/licencing
9.	Regulatory Inspections AERB - Atomic Energy Regulatory Board	https://www.aerb.gov.in/english/regulatory-process/regulatory-inspections
10.	Regulatory Enforcement AERB - Atomic Energy Regulatory Board	https://www.aerb.gov.in/english/regulatory-process/enforcement
11.	Safety Review & Assessment AERB - Atomic Energy Regulatory Board	https://www.aerb.gov.in/english/regulatory-process/safety-review-assessment

Feedback

We appreciate feedback from readers and stakeholders. If you have any questions comments, please send them to us on the AERB feedback portal. Material published in the AERB Newsletter may be reprinted or translated freely with due acknowledgement.



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