

CHAPTER

8

INITIATIVES FOR ENGAGING WITH STAKEHOLDERS AND PUBLIC



AERB has the mandate to keep the public informed on nuclear and radiation safety related matters. AERB views public outreach as an essential element to build a long lasting trust and confidence with media and the public at large. Towards this, AERB maintains its website with all relevant and updated information; issues press releases on issues related to nuclear and radiation safety, publishing quarterly newsletters, Annual Reports / Bulletins etc.

During the COVID-19 pandemic, AERB reached out to public and its various stakeholders through the virtual platform.

8.1 AERB AND MEDIA

AERB issues press releases/website updates to keep the public informed about its important activities. The press releases are issued in Hindi and English and are made available on AERB website.

AERB reviews all the news items related to nuclear and radiation safety published in various

Newspapers, magazines and on the web, and provides its response as required. AERB also routinely responds to queries obtained through AERB website.

8.2 COMMUNICATION AND CONSULTATION WITH STAKEHOLDERS

AERB provides all necessary information to its stakeholders through its website, annual reports, newsletters, press releases/briefings and media interviews. Stakeholders and public are informed on issues related to radiological safety, major regulatory decisions, special technical reports etc., through AERB website.

Information on operating nuclear power plants including validity of operating licence, regulatory inspections, significant events, radioactive effluent discharges, occupational exposures etc. are provided on AERB's website and the information is updated on monthly basis. AERB publishes e-Newsletter in English and Hindi on quarterly basis which are uploaded on the website.



8.3 STRENGTHENING OF REGULATORY INTERFACES

AERB is associated with various agencies in the process of ensuring radiation safety in medical radiation facilities and industries handling radiation sources. AERB is routinely interacting with various ministries for resolution of generic issues related to radiation safety due to handling of radiation sources for various applications. Towards this, AERB has been interacting with following concerned Ministries, Directorates and institutions.

(i) National Health Authority (NHA)

AERB established co-ordination with the National Health Authority to participate in the Government's National Digital Health Mission (NDHM) for an integrated digital health infrastructure. AERB endeavours to integrate its regulatory process associated medical radiation facilities in AERB's web based licensing system (eLORA) with Health Facility Registry (HFR) module of NDHM.



(ii) Ministry of Commerce and Industry (MoCI)

AERB is contributing through the inter-ministerial coordination committee in carrying out technical review of applications referred by Director General of Foreign Trades (DGFT), Ministry of Commerce and Industry (MoCI) for approval / renewal of "Recognition" in respect of Pre-Shipment Inspection Agencies (PSIA). These Recognised PSIA's from DGFT are responsible to undertake radiation surveys of consignment containing metal scraps and provide certificate that the consignment is free from presence of radioactivity.

AERB shared the list of regulatory consents issued by AERB for inclusion in the portal of Department for Promotion of Industry and Internal Trade (DPIIT), MoCI which has created an Investment Clearance Cell as a single window system for facilitating various regulatory clearances required by the Investors.

(iii) Indian Institute of Packaging (IIP)

A meeting was organized with Indian Institute of Packaging (IIP) on January 31, 2020 in the backdrop of joint deliberations held previously between IIP & AERB on January 18, 2019 on the regulations pertaining to design approval of package for transport of radioactive material. The objective of the meeting was to revisit the mandate of AERB and IIP so as to establish seamless regulation w.r.t. the approval of the packages for transport of radioactive material, to resolve the overlapping jurisdictions, if any, and to fix the roles and responsibilities accordingly for AERB & IIP, and thereby to work on amendment of the mandate of the respective agencies, if required.

(iv) Department of Atomic Energy (DAE)

AERB continued to interact with DAE on issues related to control over Beach Sand Minerals (BSM) and handling of other Naturally Occurring Radioactive Materials (NORM) such as Columbite Tantalite ores and purification of Uranium contaminated water. Also issues related to safe management of disused sealed radioactive sources.

(v) Renewal of Agreement with Bhabha Atomic Research Centre (BARC)

BARC is a premier multidisciplinary R&D organization in the DAE, Govt. of India, engaged in frontier areas of science and technology with the objective of generating knowledge and techniques for nuclear power production, advancement of science in the field of nuclear application, use of radioisotopes in industry, health and agriculture.

AERB has been deriving continuous technical and scientific support from BARC for regulation of nuclear and radiation safety in the country. In a step towards formalizing the existing mechanism, AERB has entered into a Memorandum of Understanding (MoU) with BARC for continued and sustained support. The same was reaffirmed on February 24, 2020 through a formal Agreement signed by Dr. A. K. Mohanty, Director, BARC and Shri G. Nageswara Rao, Chairman, AERB



Chairman, AERB and Director, BARC Exchanging the Agreement
in presence of BARC and AERB Officers

8.4 SAFETY PROMOTIONAL ACTIVITIES

AERB organizes and/or participates in discussion meetings and other professional meets to deliberate on nuclear and radiation safety aspects and the system of regulatory regime followed by AERB and the basis of regulatory decision making process. AERB also organises safety promotional activities, the details of such events are given in the following paragraphs.

8.4.1 National Conference on Regulatory Interface (NCRI)

AERB hosted 4th National Conference on Regulatory Interface (NCRI-2020) on November

27, 2020 at Mumbai with a theme on 'Safety Regulation of Radiation Processing Facilities'. Objective of the conference was to obtain regulatory experience feedback from AERB stakeholders of Radiation Processing Facilities (RPF). In view of the ongoing COVID-19 pandemic, conference was conducted in virtual mode.

Thirty-seven delegates participated in the conference from RPFs including few experts in the field. Representatives of RPFs interacted and provided feedback to AERB, which will be used to improve regulatory processes for enhanced radiation safety w.r.t. RPFs in the country.



Glimpses of NCRI-2020

Follow-up of Feedback received from stakeholders during the 3rd NCRI

The 3rd National Conference on Regulatory Interface was held on December 24, 2019 at Mumbai focusing on the following areas:

- ❖ Regulation of Accelerator Facilities and Feedback from Licensees
- ❖ Regulation of Transport of Radio Active Material (RAM) and Feedback from Licensees

These topics were meant to get insight into some of the current issues faced by AERB and DAE utilities together and receive feedback on important aspects.

(i) Regulation of Accelerator Facilities

There is a continual technological advancement in the field of accelerators. Considering wide variety of accelerators from very-low to high hazard potential, graded approach is required to implement the regulatory requirements in regulating accelerator facilities. Therefore, it becomes essential to disseminate the interpretation of regulation and update the stakeholders with the changes in the regulation from time to time and at the same time obtain feedback on its implementation to improve regulatory procedures. The NCRI-2019 was organized for this very purpose also and the feedbacks received, along with their resolution regarding establishing of guidance/requirements for use in radiation processing facilities is given below:

- (a) Participants suggested that definition of various terms with respect to electron beam energy should be incorporated appropriately in relevant Safety documents pertaining to RPFs.

As industrial accelerators installed in radiation processing facilities are operated in both the modes X-ray and Electron beam as per the requirement. It was informed that the electron beam energy indicated in relevant AERB Safety Guides depict nominal energy as quoted by most of the manufacturers in the trade.

- (b) It was requested that guidance on installation qualification (IQ), operation

qualification (OQ) and performance qualification (PQ) needs be addressed appropriately in relevant regulatory safety documents (REGDOCs) pertaining to industrial accelerators used for radiation processing.

For providing the above guidance on an accelerator facility, following documents are made available;

- ISO/ASTM 51649:2015(E): Standard Practice for Dosimetry in an Electron Beam Facility for Radiation Processing at Energies Between 300 keV and 25 MeV.
- ISO/ASTM 51608:2015(E): Standard Practice for Dosimetry in an X-Ray (Bremsstrahlung) Facility for Radiation Processing at energies between 50 keV and 7.5 MeV.

(ii) Regulation of Transport of Radioactive Material (RAM)

Regulation on safe transport of radioactive material is dynamic and complex in nature as there are multiple agencies involved in the transport of RAM. The IAEA revises regulations on transport of RAM periodically. AERB regulation on transport of RAM is based on IAEA regulation with certain modifications to suit the national requirements. To disseminate the interpretation of regulation and update the stakeholders with the changes in the regulation from time to time and at the same time obtaining feedback on its implementation to improve regulatory procedures. The NCRI-2019 was organized and the feedbacks and their resolution are as given below.

(a) Development of Guidelines for Shipment under Special Arrangement

The development of guidelines for shipment under special arrangement is taken as follow-up of NCRI-2019 feedback and the guidelines are under preparation and expected to be completed soon.

(b) Development of Re-qualification criteria for approval of old design Casks

The cask design shall meet the requirements specified in the AERB Safety Code on "Safe Transport of Radioactive Material (AERB/

NRF-TS/SC-1 (Ref.1), 2016) which is based on IAEA regulations for 'Safe Transport of Radioactive Material' SSR-6, 2012 edition. Old design cask if to be reused shall meet the present code in force and be considered for qualification. However, the cask which does not meet all the requirements for safe transport of radioactive material as mentioned in the safety code shall be transported only under special arrangement.

(c) Approval/Regulation of In-transit storage during Road Transport of RAM

The study was undertaken by AERB with regard to transport of radioactive material by road including in-transit storage. In this regard, AERB interacted with Ministry of Road Transport and Highways (MoRTH) to understand the roles and responsibilities of the respective agencies on the subject context and to resolve the issues, if any to establish seamless regulations for the same. Extensive work was carried out by AERB and a report is prepared which would be communicated to MoRTH.

(d) Resolving issues like fire pool for thermal test of casks and testing for large size cask

AERB has been involved in review of issues and studies related to open pool fire test and analysing the results of the experimental pool fire test carried out by BARC in collaboration with other research

organisations/academic institutions, which are being deliberated upon in the AERB Committee for Safe Transport of Radioactive Material (COSTRAM). AERB has also reviewed the proposal of BARC for developing and commissioning a Regulatory Open pool fire facility to facilitate the design approval for transport of radioactive material and provided the inputs for the upcoming facility.

8.4.2 Theme / Technical Meeting and Workshops for Nuclear Facilities

AERB organises and /or participates in discussion meetings and other professional meets to deliberate on nuclear and radiation safety awareness and the system of regulatory regime followed by AERB and the basis of regulatory decision making process. The details of such events for nuclear facilities are given below.

(i) Technical Meeting on 'Current Practices & Quality Assurance in Welding'

A two-days technical meeting on 'Current Practices & Quality Assurance in Welding' was organized by Safety Research Institute (SRI), AERB at Kalpakkam during February 19-21, 2020. Shri. G. Nageswara Rao, Chairman, AERB inaugurated the technical meeting. Dr. A.K. Bhaduri, Director, IGCAR, presided over the inaugural function as the Chief Guest and Dr. Kallol Roy, CMD, BHAVINI participated as the Guest of Honour.



Glimpses of Technical Meet on 'Current Practices & Quality Assurance in Welding'

During the meet, sixteen invited talks were delivered by the speakers from various DAE units, AERB and IITs. The deliberations in the technical meeting have provided better understanding of the welding process and qualification criteria (ASME, RCC-MR etc.) and also provided several insights for weld defect minimization and improvement of weld reliability, methodology of failure analysis, etc., which will further help in improving safety of critical components of Nuclear Power Plant (NPP). Recent international trends in welding automation and computer assisted Quality Assurance (QA) methods were also presented and future directions for undertaking related R&D works were identified. A visit was arranged to Central Workshop and Quality Assurance Division of IGCAR for all the participants. Around 70 engineers from the utilities, regulators and research organizations from various DAE units participated in the technical meeting.

(ii) Theme Meeting on 'Framework & Regulation of Computer Security at Nuclear Facilities in DAE'

A one-day theme meeting on 'Framework & Regulation of Computer Security at Nuclear Facilities in DAE' was organized on February 27, 2020 at AERB, Mumbai.

The main intent of the theme meeting was:

- to understand the National level cyber security framework, its applicability to DAE vis-à-vis role of AERB with respect to regulation of Computer Security;
- to bring-in clarity on the scope, roles and responsibilities of various stakeholders with respect to review of Cyber/Computer Security in DAE; and
- to understand the licensees' preparedness with respect to implementation of Computer Security and their expectations from AERB regarding regulation of computer security.

Theme meeting was attended by about 80 participants from the Nuclear Facilities, DAE, AERB and members of various Security committees of AERB and DAE.



Glimpses of Theme Meeting on Framework & Regulation of Computer Security

(iii) Webinar on Regulatory Safety Documents

As a part of series of Webinar (s) on the recently issued Regulatory Safety Documents (REGDOCs), the first one was organized to disseminate information on

AERB Safety Guide on 'Accident Management programme for Water Cooled Reactor based NPPs' on December 30, 2020. About 50 participants from various NPPs sites attended the webinar through virtual mode.



Glimpses of Webinar on REGDOCs

8.4.3 Special Meet/Awareness Programmes for Radiation Facilities

There has been an accelerated growth in the application of ionising radiation technologies in the fields of medicine, industry and basic research in the country. With the increased beneficial use of radiation sources, there is concern about the harmful effects of radiation if not used properly. Apart from effective regulatory controls in place, AERB primarily focuses on enhancing awareness amongst stakeholders on safe use of radiation sources/generators. Towards this, AERB routinely conducts special meet/awareness programmes for a wide variety of audience with specific objective of spreading the importance of radiation safety and regulatory requirements. The audience includes radiation workers, safety personnel, manufacturers/suppliers of equipment/sources, personnel from industry, university faculty and students. Brief description on special meet/awareness programmes is as follows:

(i) Awareness Programme for Nucleonic Gauge (NG) Users

An awareness programme on 'Radiation Safety & Regulatory Requirements in handling of Nucleonic Gauges' was organized by AERB officers of Eastern Regional Regulatory Centre (ERRC), Kolkata; at Tata Steel, Jamshedpur on January 24, 2020. AERB officers delivered

lectures on various topics viz. Regulation & Safety Requirements, and Unusual Incident in Nucleonic Gauges. Around 40 participants comprising of plant Engineers and RSO dealing with the nucleonic gauges attended the programme.

(ii) Awareness Program for Suppliers of Industrial Accelerators and Medical Cyclotron Facilities

An awareness program was organized for the Suppliers of Industrial Accelerators used in Radiation Processing Facilities (RPF) and Medical Cyclotron Facilities (MCF) on February 27, 2020 at AERB, Mumbai. The objective of the program was to apprise the suppliers with recent developments and changes in regulations pertaining to their field and provide a platform for suggestions and feedback. Altogether, 40 members including delegates from 9 supplier agencies and members from AERB attended the program.

The program comprised of presentations from AERB officers relevant to regulatory and safety requirements and e-LORA. An special talk on 'Type Approval Testing of an indigenous Industrial Accelerator' was also arranged for familiarization of the participants. Feedbacks from the participants were noted for due action by AERB.



Shri Manas Kumar Pathak, OIC, ERRC delivering lecture in Awareness Programme at M/s Tata Steel, Jamshedpur

(iii) Awareness program for Service Agencies of Diagnostic X-ray Equipment

Diagnostic Radiology practice has an immense stake in health sector, AERB issues licence for operation of these facilities owing to the utilisation of ionising radiation. Moreover, in order to reap diagnostic information from these procedures to its fullest extent, while keeping the patient exposure to the lowest possible, an Quality Assurance (QA) programme is of utmost importance which is ensured by laying down the same as regulatory requirements. At the same time, acknowledging the limitations faced by the end users in complying with these requirements, the Regulatory Body also approves QA service providers to cater to these needs.

National Accreditation Board for Calibration and Testing Laboratories (NABL) is the national body for accreditation of radiological calibration and testing laboratories in India. During its endeavour of transferring the activities of accreditation of such laboratories to NABL, AERB also took up the initiative of transferring the activities of approval of QA Service providers which is currently under consideration. On the same note, at the behest of NABL, a one-day awareness program for Service Agencies of Diagnostic X-ray equipment was organized by NABL in coordination with AERB at Niyamak Bhavan, Mumbai on March 03, 2020. The

theme of the program was to sensitize the Service Agencies towards their proposed compliance with requirements of ISO/IEC 17025: 2017. Experts from NABL, BARC and AERB delivered talks on various technical topics. About 108 participants from approved Service Agencies and medical institutions across the country participated in the program.

(iv) Awareness Program for Manufacturers / Suppliers of Nuclear Medicine Imaging Equipment

AERB recently developed a Quality Assurance (QA) protocol for Nuclear Medicine (NM) imaging equipment, which ensures the optimal performance for all NM imaging equipment. AERB organized a one-day awareness program on the implementation of QA Test protocols for the manufacturers/suppliers of NM imaging equipment on March 04, 2020 at Mumbai. The objective of the programme was to apprise the manufacturers/suppliers of equipment with the requirements of QA of NM imaging equipment and to obtain their feedback on its implementation as they are involved in installation and commissioning of the NM imaging equipment. Total 12 delegates (Service Engineers) from different Manufacturers/Suppliers in India participated in the program. Talks were delivered by AERB officers on related topics and feedback session was conducted during the programme.



Shri. D. K. Shukla, Executive Director, AERB, Dr. Avijit Das, Director, NABL, Faculty, Delegates and Participants of the Awareness Program

(v) 'Training to the Trainers' in Industrial Radiography

Training of Industrial Radiographers in radiation safety is highly important as they directly handle the industrial radiography devices in the field. There are five training institutes accredited by BARC in India, which are involved in conduction of training programme for the industrial radiographers. About 300 industrial radiographers qualify annually. At present, for taking lectures for the said training courses, officers from AERB are regularly deputed. However, now it has been considered to train the appropriately qualified persons from the training institutes itself, so that these qualified persons can deliver the lectures.

With an objective to create trainers in the field, AERB organised a "Training of Trainers" programme on March 05, 2020 at Mumbai. AERB officers delivered lectures on topics relevant to regulatory and safety aspects.

(vi) Online Awareness programs for stakeholders of Radiation Facilities

Owing to the prevailing COVID-19 pandemic situation, one of the essential



Participants of Training of Trainers for Industrial Radiography Practice

(b) Awareness Program for Suppliers and Users of Container Scanners

In order to strengthen the roles and responsibilities of suppliers & end-users of Container Scanners (installed at sea ports) w.r.t. radiation safety, an online awareness program was conducted on December 01, 2020 at AERB. 117 participants attended the program which included Licensees, Radiological Safety Officers, Service Engineers, Traffic Managers, Port Safety

fragment of regulations i.e. awareness of stakeholders was carried out via virtual platforms for radiation facilities. Following awareness programs were conducted by AERB;

(a) Awareness Program for Nucleonic Gauge Suppliers

In order to strengthen the role of suppliers of Nucleonic Gauges (NG) in ensuring radiation safety, an online awareness program was conducted on November 23, 2020. Total 45 participants attended the programme through virtual mode. The participants were apprised about the status of NGs in the country and various non-compliances related to supply of NGs, observed by AERB, especially regarding maintaining of inventory of NG sources and management of disused sources. AERB officers made presentations on 'Role and Responsibilities of Suppliers in Radiological Safety of Nucleonic Gauges' and 'Safe Management of disused Nucleonic Gauge sources'. Various queries raised by the participants related to RSO training program, disposal of sources, import of sources etc. were addressed satisfactorily. The program concluded with re-emphasizing on maintaining of inventory of nucleonic gauge sources by suppliers.



Officers etc., working in the related field. The participants were informed about various non-compliances observed on part of Suppliers and end-users of the Container Scanner facilities and indicated that AERB may initiate regulatory action against the concerned institution, if the regulatory requirements are not met with. Lectures on 'Radiological Safety aspects in use of Container Scanners' and 'Regulatory requirements, roles and responsibilities of

suppliers and end-users' were delivered during the program. The recent regulatory lapses observed on part of Container Scanner facilities were also highlighted in feedback session, all the queries raised by the participants were also satisfactorily addressed by the presenters.

(c) Awareness program for Operators / Medical Practitioners in Interventional Radiology Facilities

AERB organised an online awareness meet for Operators/Medical Practitioners employed at licensed Interventional Radiology (IR) facilities in medical diagnostic practice on December 11, 2020 wherein about 80 participants attended the program. The objective of the program was to instigate awareness amongst the operators/medical practitioners in IR facilities for safe practice and to keep them abreast with the knowledge of radiation safety and regulatory aspects and various issues such as reported excessive exposure cases. AERB officers made presentations on 'Radiation Protection in Interventional Radiology Procedures' and 'Evolution of Regulations in Diagnostic Radiology Practice'. The program was concluded by emphasizing on adherence to regulatory requirements for event-free operation of radiation generating equipment.

The participants of online programs provided their feedbacks and appreciated the contents and conduction via virtual platform. Also expressed that the awareness programs were informative and served as refresher on regulatory requirements and radiation safety aspects.

8.5 PUBLIC AWARENESS ACTIVITIES

8.5.1 Participation in Public/Scientific Events

AERB organises interactive programs with stakeholders and public about its regulatory controls for nuclear and radiation safety and on technologies under its purview by conducting outreach programs across the country to disseminate the information.

In view of COVID-19 pandemic situation and restrictions, AERB carried out its public communication activities through online forums.

(i) Special talk on 'Strategies for Assured Safe & Reliable Performance' for NTPC Officers

Shri G. Nageswara Rao, Chairman, AERB delivered a special talk on 'Strategies for Assured Safe and Reliable Performance' to the Senior Level Management and Middle Level officers of National Thermal Power Corporation (NTPC) through Video-conferencing on September 16, 2020, which was attended by over 1500 officers.

In his talk, Shri Rao covered various aspects of Safety and Characteristics of good safety culture in an organisation. He emphasised the need for Safety in Design, the principle of Defence-In-Depth and a strong safety culture to take care of any untoward / abnormal situations. He stressed on importance of Human, Organisational and Technological (HOT) Factors in safe and reliable performance. He touched upon the insights gained and lessons learnt from the accident at nuclear power plant in Chernobyl, Ukraine which was one of the most significant accident in the nuclear industry.



Shri G. Nageswara Rao, Chairman, AERB Addressing the NTPC Staff through Video-Conferencing

(ii) Webinar on 'Societal Benefits of Radiation Technology and Safety Aspects'

AERB organised public outreach webinar on 'Societal Benefits of Radiation Technology and Safety Aspects' through virtual platform on November 24, 2020, for institutions of higher education, medical institutes, hospitals and professional associations located in and around Chandigarh. The webinar was attended by many faculty members and students.

Chairman, AERB, Shri G. Nageswara Rao, in his inaugural address highlighted the

substantial benefits accrued from applications of radiation in medicine, industry, agriculture, food preservation and security. Radiation technologies are deeply entrenched in the working of society and AERB plays key role in ensuring the safety of personnel using these technologies and the public. AERB regulatory oversight has ensured that these facilities operate in-line with the international standards on

radiation safety. This is evident from a near impeccable track record in the use of radiation technologies. He expressed that the public should not have any misgivings or fear of radiation technologies.

During the webinar, Dr. A. U. Sonawane, Head, DRA&C, AERB delivered a special talk on the said topic.



Shri G. Nageswara Rao, Chairman AERB delivering the inaugural address in the webinar



Dr. A. U. Sonawane, Head, DRAC delivering a talk in the webinar

In addition to above, AERB officers participated in the discussions /delivered talks in various programmes organised by other institutions:

- ❖ Delivered talk on 'Radiation Protection-Regulatory Aspects' in webinar organised by the Centre for Energy Law, Policy and Strategy, Nirma University, Gujarat.
- ❖ Delivered talk on 'Radiation Protection in use of C-Arm equipment for Orthopaedic Surgery' in webinar on 'C-Arm'.
- ❖ Discussions in Society of Indian Radiographers' Facebook page on 'Radiation Safety and Regulatory Requirements in Diagnostic Radiology'.
- ❖ Discussions on 'Quality and Safety Management in Radiology', during Radiology and Imaging Summit (RIS).

8.5.2 Exhibitions

AERB participates in Conferences, Science and Technology fairs where it displays exhibits on the safety and regulatory aspects of nuclear and radiation facilities including its safety documents. The exhibits are aimed

at giving correct perspective on radiation doses received and provide public, a glimpse of the technical aspects of regulation. The response to the AERB's exhibits at these conferences/science fairs was extremely encouraging with visitors of various age groups and students visiting the stalls and getting informed about AERB and its role. During the year, AERB displayed exhibits only in one event due to COVID-19 pandemics:

(i) Participation in Indian Science Congress

AERB participated in Pride of India (PoI) exhibition held during the 107th Indian Science Congress, organised at University of Agriculture Sciences, Bengaluru during January 3 to 7, 2020. AERB displayed various exhibits on its regulatory framework and functions in ensuring radiation safety in use of nuclear energy and use in medical, industrial and research applications. Students and faculty members from academic institutions, professionals from healthcare, environment & industry, civic service authorities and general public visited AERB stall with queries on safety in nuclear energy and radiation application technologies.



AERB stall in 'Pride of India' exhibition in Indian Science Congress

8.5.3 Safety Promotion through AERB Website


AERB continued to disseminate safety information through its web-site, which are as follows.

- (i) In order to disseminate information to large number of stakeholders about licensing requirements for medical diagnostic X-ray equipment, the Radio jingle advertisement of AERB has been dubbed in Malayalam and Assamese language through Bureau of Outreach & Communication (BOC). The jingle has been uploaded on AERB website, users can freely download the jingles. AERB also communicated this information to Indian Radiological and Imaging Association (IRIA) and its Kerala and Assam State Chapters for further dissemination.
- (ii) A notice on, "Regulatory Requirements for Radiation Applications" in English & other regional languages, for users of ionizing radiation was developed in AERB and uploaded on AERB website.

8.5.4 Advertisement and Articles

AERB advertisement on 'Licensing requirement for Owners and Users of Ionising Radiation Sources' was prepared and uploaded on AERB website.

During the year an article on 'Optimization of Medical Exposures in Computed Tomography' was published in RADBUZZ and Flash magazines. The magazines are dedicated to Diagnostic Radiology practice and widely read by medical X-ray professionals in the country.



Government of India
Atomic Energy Regulatory Board



Attention Owners and Users of Ionising Radiation Sources



Concerned about radiation safety?? Ask for AERB compliance !!!

Obtaining Licence from AERB for safe handling of radiation sources is a statutory requirement under Atomic Energy (Radiation Protection) Rules, 2004.


Societal Benefits Accrued from Radiation Sources include

Radioactive Sources used in:	Radiation Generating Equipment used in:
<ul style="list-style-type: none"> Research, Academic Institutions and Universities Nucleonic Gauge and Well Logging Industrial Radiography using gamma rays Gamma Chamber Gamma Radiation Processing Plants Nuclear Medicine Tele-cobalt and Brachytherapy units of Radiotherapy 	<ul style="list-style-type: none"> Research, Academic Institutions and Universities Industrial Radiography using X-rays Accelerators based Radiation Processing Plants Medical Accelerators for Radiotherapy Medical Cyclotron Industrial & Research Accelerator Diagnostic Radiology - CT/ Cath Lab / X-ray Machines X-ray Baggage Scanner, etc.

Obtaining Licence from AERB is easy through AERB's web based system e-LORA (e-Licensing of Radiation Applications).
No fee is charged for AERB Licence.

For detailed information and accessing e-LORA system, visit AERB website
www.aerb.gov.in

Radiation Sources found to be in possession and / or in operation without a valid Licence from AERB can be SEIZED or SEALED without further notice and owner is liable for legal prosecution.



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