



नाभिकीय ईंधन सम्मिश्र / Nuclear Fuel Complex

३६ वी परमाणु ऊर्जा विभाग की संरक्षा एवं व्यावसायिक स्वास्थ्य वृत्तिक सभा (प.ऊ.वि. - एस.ओ.एच.पी.एम), २०१९

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“EFFECTIVE MANAGEMENT OF OPERATIONAL EXPERIENCE TOWARDS ENHANCED INDUSTRIAL SAFETY” &
“EFFECTIVE MANAGEMENT OF MEDICAL EMERGENCIES AT WORK PLACE”

Jointly organized by Nuclear Fuel Complex (NFC) and Atomic Energy Regulatory Board (AERB)



LIST OF CONTRIBUTORY PAPERS

S. No.	Title of the paper	Authors	Facility
INDUSTRIAL SAFETY			
1.	Learnings from Unusual occurrences at HWPK.	PriyaPatodi, SO/D, N K Jain, SO/F H K Sharma, Dy MM (Mech) suptd_se@kot.hwb.gov.in	HWP-Kota
2.	Implementation of Enhanced Safety Measures during the Application of Anti- Corrosive Coating inside the Carbon Steel Pipe Lines of Auxiliary Sea Water System at PFBR site, Kalpakkam.	S.Satheesh, satheesh_bhavini@igcar.gov.in D.M Jagadeesh jagadeesh@igcar.gov.in	BHAVINI
3.	Prudent Safe Practices to Overcome Risks Associated with the Use of Chemicals in Production of Special Materials.	Samyuktha G, samyuktha@nfc.gov.in Mirji K V, mirji@nfc.gov.in Sudhir Thakur, Dr Dinesh Srivastava	NFC
4.	Case Studies - An Effective Tool for Industrial Safety Enhancement.	Praveen Dubey, IHSS, BARC Praveend@barc.gov.in KailashGharat, gharatk@barc.gov.in S D Bharambe, sdbihss@barc.gov.in A S Vajarekar, anants@barc.gov.in	BARC
5.	Arc Flash Protection - A Case Study on Arc Flash Hazard Analysis.	US Palan, N. N. Pisharody M. Ramasomayajulu uspalan@npcil.co.in	NPCIL, HQ
6.	Effective management of operational experience towards enhanced industrial safety.	Seshu Babu Inampudi-SO-F isheshubabu@npcil.co.in D.Rupesh Kumar-SO-E drupeshkumar@npcil.co.in S.Santhipriya-Sr.Ps ssanthipriya@npcil.co.in	MAPS
7.	Experience of erection and commissioning of boiler chimney resulting in enhancement of safety aspects.	L Praveen Kumar, Piyush Dutta, B Nagaraju, A Venkateswarlu, K Mahesh Babu, K Rajesh, Binay Kumar, V.V. Mahesh Kumar, A Maruthi Ram, I Kiran Kumar and Sheela, lpk@nfc.gov.in	NFC-H
8.	Inevitability of proactive safety management plan in underground hard rock mines: a case study based approach.	Shri. Rajesh Kumar Email: rkumarst@gmail.com Dr. Falguni Sarkar falguni31@gmail.com	UCIL
9.	Case study of air quality at Tummalapalle Mill and effective actions for improvement.	Vipin Kumar Sharma, vipinshrm4@gmail.com Rajesh L.,Addl.Suptd.(Env. & Safety)	UCIL-Tummalapalle Mill

10.	Dry Type Transformer Fire Incident and lessons learnt in PFBR.	Sivakumar P, SO/E siva_bhavini@igcar.gov.in Kudiyarasan S, SO/E skarasan_bhavini@igcar.gov.in Patnaik SK, SO/G patnaik@igcar.gov.in Sunder T, SO/E tsundar@igcar.gov.in	BHAVINI
11.	Lessons Learnt From Events In Nuclear Power Projects For Enhancement of Safety.	Vinod R.Nayak vrnayak@npcil.co.in VijayaRaviChandrakumarSathi sathi@npcil.co.in	KGS-5&6
12.	Cryogenic Safety Analysis Of Vertical Test Stand (VTS) For Testing Superconducting Radio Frequency (SCRF) Cavities.	Prabhat Kumar Gupta, Rishi Kant Sharma,S. Raghavendra prabhat@rrcat.gov.in	RRCAT
13.	Root Cause Analysis Of The Events For Effective Implementation Of Corrective Measures.	JayaprakashHegde, jhegde@npcil.co.in	KGS-3&4
14.	Operational Experience and its Utilization for Enhancement in Industrial Safety.	A K Mishra, SO/F, Fuel Handling Section, anilmishra@npcil.co.in MukeshJangid, SO/E, Operation Section, mjangid@npcil.co.in DeepanshuJadhav, SO/C, Safety Section, djadhav@npcil.co.in	RAPS-3&4
15.	Industrial Safety – Effective Management of Operational Experience towards Enhanced Industrial Safety.	Rahul Verma, SO/C, IS&F, MAPS, NPCIL, Kalpakkam vrahul@npcil.co.in	MAPS
16.	An Overview of the management of Chemical Burns.	VyomSaxena& A S Vajarekar, IHSS vsaxena@barc.gov.in	BARC
17.	Operational Optimization of Continuous Exposure to Heat Stress at Work Place using Predicted Heat Strain Model.	Nishith Gosh, IHSS nishithg@barc.gov.in Pallavee V K, pallavee@barc.gov.in Aparna R Sawatkar, aparnars@barc.gov.in J D Sharma, jdsharma@barc.gov.in A S Vajarekar, anants@barc.gov.in	BARC
18.	Root Cause Analysis of the events for effective implementation of corrective measures with a case study.	Nagaraju G, SO/E, IHSS nagaraju@barc.gov.in R S Agrahari, DCFO, FSS S D Bharambe, SO/H, IHSS A S Vajarekar, Head, IHSS	BARC
19.	Blasting Management Plan: An Approach to Overcome Blasting Hazard.	MohdArham Siddiqui arham@nfc.gov.in Dr. M Raja Sekhar, mraja@nfc.gov.in P A Pratap, pratap@nfc.gov.in	NFC-Kota
20.	Enhanced Safety in Construction of RCC Ventilation Stack at FRFCF Site – A Case Study.	Venkatanarayana Paloji Paloji@igcar.gov.in S.Kandasamy, sksamy@igcar.gov.in M.T. Jose, mtj@igcar.gov.in	FRFCF, IGCAR
21.	Industrial & Fire Safety Experience Sharing Programme in NPCIL: A Case Study on Strengthening Supervisory Oversight.	R. Sureshkumar N. N. Pisharody M. Ramasomayajulu nnpisharody@npcil.co.in ,	NPCIL, HQ

22.	A Case Study - Operational experiences on failure of electrical cables.	A. Subhakar, D. Pandarinath, P.V. Siddu, T.T.Srichandan, K. Mahesh Babu, V.V. Mahesh Kumar, I. Kiran Kumar, Sheela, subhakar@nfc.gov.in	NFC-H
23.	Experience based perception survey study on safety in Nuclear Fuel Complex.	K.Mahesh, K.MaheshBabu, V.V.Mahesh Kumar, I.Kiran Kumar, Smt Sheela, mahesh90@nfc.gov.in ,	NFC-H
24.	Feedback of Operational Experience and its utilization for enhancement in industrial safety.	V.Chandrasekar, DGM (Corporate Safety & Skill Development), IRERC, Kollam	IREL
25.	Safety Challenges faced in erection and commissioning of Instrumentation and control systems in Nuclear Island Connected Buildings of Prototype Fast Breeder Reactor.	H.Nalini, SO/E, IT&I nalini_bhavini@igcar.gov.in R.Pandiarajamani, SO/E, IT&I rajamani_bhavini@igcar.gov.in N.Kanagalakshmi, EIC, F&IS kanaga@igcar.gov.in S.Narasimhan, ACE(IT&I) snsimhan@igcar.gov.in	BHAVINI
26.	Enforcement of industrial safety measures in the Challenging task of replacement of defective steam generator module of FBTR.	Anilkumar P V anilkumar@igcar.gov.in G Subramanian kunka@igcar.gov.in S Sridhar, sethu@igcar.gov.in G Shanmugam gshan@igcar.gov.in A Babu, abb@igcar.gov.in K V Sureshkumar kvsuresh@igcar.gov.in	FBTR, IGCAR
27.	Implementation and enhancement of safety measures in SST-1 cryogenic system.	Rajiv Sharma , rajivs@ipr.res.in V L Tanna	IPR
28.	Autoclave process – Improvements for safe operation from operating experience & establishing of robust process for miles to go.	Raman Kumar, M. I. Prabhaker , Vinayak B. Deshmukh , G. N. Ganesha A Maruthiram , AmbarishDeshmukh , D. Nagaraju, L. Praveen Kumar, V. V. Mahesh Kumar , I. Kiran Kumar , and Dr. Dinesh Srivastava raman@nfc.gov.in	NFC-H
29.	Industrial Hygiene Surveillance for Health & Safety of Industrial Workers.	G Prahalad, M A Majid, D Vidya Sagar, Anil Y Balbudhe, VV Mahesh Kumar, S. Sairam, gprahalad@nfc.gov.in	NFC-H
30.	Failure Analysis and Modification of Motor Terminal Bushing Insulators for HT motor driven Safety Chillers in PFBR.	Ramanavasulu R, SO/G, rmanavasulu@igcar.gov.in Kudiyarasan S, SO/E, skarasana_bhavini@igcar.gov.in Valarmathi E, SO/D valarmathi_bhavini@igcar.gov.in	PFBR IGCAR
31.	Operational experience and Safety Measures in Sodium Removal and Cleaning of Secondary Sodium Pump at PFBR.	ArunKumar S, SO/D arunkumar_bhavini@igcar.gov.in Prasanna R, SO/F rprasanna@igcar.gov.in KoteswararaoPeta V.S.N, SA/E krao@bhavini.in	BHAVINI

32.	Challenges and Safety in Erection and Commissioning of 280/85 tons Single Failure Proof EOT Crane at PFBR.	Kudiyarasan S, SO/E skarasan_bhavini@igcar.gov.in Sivakumar P, SO/E siva_bhavini@igcar.gov.in Umapathi S, SA/E umapathi@bhavini.in SarathChander M. E, M/s. UNIQUE chennai@unicrane.com	BHAVINI
33.	Case study on lifting, shifting and positioning of secondary sodium pump using 15 Ton and 30 Ton Electrically Operated Monorail Hoist with single rail and single control panel on BHAVINI Site.	P. Puhalendhi, SO/D – EMU Puhalendhi_bhavini@igcar.gov.in R. Ramanavasulu, ACE (EG) – EMU rramanavasulu@igcar.gov.in	BHAVINI
34.	Industrial Safety during Long Shutdown of Dhruva Reactor.	Anil A. Naik, aanai@barc.gov.in Vivek Mishra.	BARC
35.	Beryllium safety: Challenges and solutions.	P. N. Bhat and A.S. Vajarekar bhatprakashn@yahoo.com	BARC
36.	Fire Safety in Fuel Fabrication Facility- Practical Lessons learnt.	Garima Singh and A.S. Vajarekar, g161983@gmail.com , comanants@barc.gov.in	BARC
37.	Operational experience of irradiation facilities in Food Technology Division of BARC towards enhanced radiological and industrial safety.	Bhaskar Sanyal, sanyal@barc.gov.in Sunil K. Ghosh, ghsunil@barc.gov.in	BARC
38.	Safety Experiences in Mega Pour Activities, Working Inside the Base Slab and Transportation of ODC Tanks in FRFCF Site.	C. Vijayakumaran, cvk@igcar.gov.in S Kandasamy, sksamy@igcar.gov.in M T Jose, mtj@igcar.gov.in	FRFCF, IGCAR
39.	Challenges Faced During Shifting & Positioning of aRCC Framed Structure (Three Storied) at Seismic Table– A Case Study.	Shiva Sai Prasad Gogu, gogu@igcar.gov.in S. Kandasamy, sksamy@igcar.gov.in M.T. Jose, mtj@igcar.gov.in	IGCAR
40.	Feedback of operational experience and its utilization for enhancement in industrial safety.	Sharad Srivastava, sharads@nfc.gov.in P. A. Pratap, pratap@nfc.gov.in Dr. M. Raja Shaker, mraja@nfc.gov.in	NFC- KOTA
41.	Root cause Analysis Tools for effective implementation of corrective measures.	V Hemantha Kumar, Chief Safety Officer, ECIL	ECIL
42.	Lessons Learnt from Sodium Leak Incidents in Experimental Sodium Facilities.	S.Chandramouli, mouli@igcar.gov.in S.Krishnakumar, skk@igcar.gov.in Dr.B.Babu, bbabu@igcar.gov.in Dr.B.K.Nashine, bknash@igcar.gov.in Dr.P.Selvaraj, pselva@igcar.gov.in	IGCAR
43.	Safety Hazard due to spurious actuation of Powder fire-fighting from Automatic Fire Protection System.	S.Subramanian, ssubramanian@npcil.co.in P.K.Khare, pkkahre@npcil.co.in	KKNPP, NPCIL
44.	Effective Management of Operational Experience towards Enhancement of Industrial Safety.	R.Jayaraman, rjayaraman@npcil.co.in	KAIGA 3&4
45.	Accidents: Investigation & Learning.	Disha Acharya, disha@nfc.gov.in Dr. M. Raja Shaker, mraja@nfc.gov.in P. A. Pratap, pratap@nfc.gov.in	NFC-Kota

46.	Industrial Safety Enhancement in DFRP, IGCAR- Construction Site.	Dharmendra Singh, dharmendra@igcar.gov.in S. Kandasamy, sksamy@igcar.gov.in M.T. Jose, mtj@igcar.gov.in	IGCAR
47.	Operational Safety Aspects of High Pressure, High Temperature and High Power Experimental Facilities at Reactor Engineering Division of BARC.	R.D.Kulkarni, rdk@barc.gov.in V.K.Gupta, guptavk@barc.gov.in S.K.Sinha, sunilks@barc.gov.in	BARC
48.	Experience in Installation, Commissioning & Maintenance of Fire Detection & Alarm Systems for enhanced industrial safety at NFC.	BheemaNenavath, Lodha S R, Ramachandra Rao A, Binay Kumar, Maruthi Ram A, Dinesh Srivastava, bheema@nfc.gov.in	NFC-H

OCCUPATIONAL HEALTH

1.	Case studies of Acute Myocardial Infarction at NFC.	Dr.J.Vijay Rao, Chief Medical Suptd., OHC, ZC & KOTA , Certifying Surgeon	NFC
2.	Study to determine nature of injuries and their management in uranium miners working in Jharkhand.	Dr.N F X Bara, DGM (Medical Services) & Certifying Surgeon nfxbara@gmail.com ,	UCIL
3.	Medical Management of persons internally contaminated with radionuclide in a nuclear or radiological emergency with case study.	Dr. Y P Singh, Medical Superintendent Dr. (Mrs.) Sweta Agrawal, Certifying Surgeon Mrs. Kalpana Devi, SO/D, Medical Social Worker	TAPS, NPCIL
4.	Management of Ocular Chemical Burns.	Dr. K P Sahana, PFBR, Kalpakkam sahana@igcar.gov.in	PFBR
5.	Management of Anaphylactic shock.	Dr. Vivek N Dabade OHC, Vashi	BRIT
6.	Sudden Cardiac arrest and its prevention.	Dr. Achintya Bhattacharyya, MO, VECC, Kolkata achintyab@vecc.gov.in	VECC, Kolkata
7.	Case studies of Medical Emergencies at Work Place.	Dr. Y P Nakra, Medical Superintendent, Dr. S Ganesan, Certifying Surgeon	RAPS
8.	Cardiac Emergencies at work place.	Dr. PratibhaToal, Head, Anesthesia Unit	BARC Hospital
9.	Medical Emergencies in Construction Industries with special emphasis on "Traumatic Head Injuries".	Dr. Ajay Dubey	KKNPP, NPCIL
10.	Management of work related musculoskeletal disorders- using ergonomics.	Girija Suresh girija@igcar.gov.in T.S. Selvakumaran sts@igcar.gov.in M.T. Jose, mtj@igcar.gov.in B. Venkatraman bvenkat@igcar.gov.in	IGCAR
11.	Management of Hydrofluoric acid injuries.	Dr. Raju K	BARC