

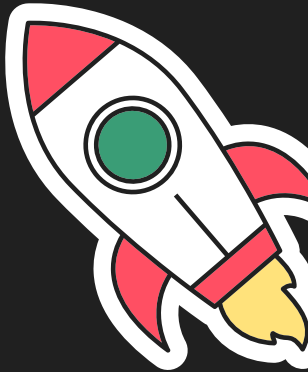
Culture for Safety in Nuclear Facility

FTC on Nuclear Radiological and Emergency Preparedness (NREP)



Word

Game

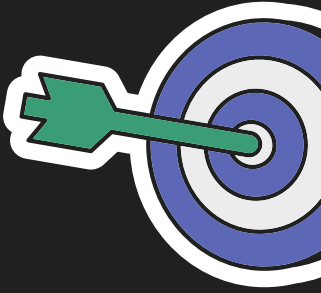


YAAAAAS



Word

Chain



**Ketika saya punya kesempatan untuk
(sambung kata dengan menambahkan 2
kata baru)**



INTRODUCTION

Puspitasari Ramadania, S.Si, M.K.K.K

Email: pusp006@brin.go.id

Education:

- ❖ Chemistry - 2012 (Bachelor's degree)
- ❖ Occupational Health and Safety - 2022 (Master's degree)

Work Experience:

- ❖ Radiation Protection Officer (RPO) in Research Reactor 2015 - Present
- ❖ Occupational Health and Safety Specialist 2020 – Present

Training/Course:

- ❖ TC on Radiation Protection for RPO - 2014, 2019, 2023
- ❖ National Workshop Implementation of The International Basic Safety Standard (IAEA General Safety Requirement Part 3) - 2018
- ❖ Masterclass: ISO 31000:2018 Risk Management Systems - 2023
- ❖ FTC on Environmental Radioactivity Monitoring “Limit of Discharge and Environmental Radioactivity - 2023, 2024
- ❖ TC on Radiological Emergency Preparedness and Response - 2023
- ❖ IAEA School on Nuclear and Radiological Leadership for Safety – 2024
- ❖ RRM on Radioactive Source Security – 2025
- ❖ Southeast Asia Round Table on Managing Competency and Training for Nuclear - 2025

CULTURE FOR SAFETY

“THINK SAFE – ACT SAFE – BE SAFE AT ALL THE TIME”

BENEFIT OF LEARNING

Fostering awareness in each individual of the importance of safety aspects in various nuclear-related activities

CULTURE FOR SAFETY

“THINK SAFE – ACT SAFE – BE SAFE AT ALL THE TIME”

GENERAL OBJECTIVES

Participants understand and are able to explain the safety culture, as well as being able to make real contributions and set an example in the implementation of a safety culture in their workplace.

COMPETENCY INDICATORS

1. Able to explain the definition of culture and safety culture;
2. Able to explain the beginning of safety culture and why safety culture is important;
3. Able to explain safety culture in practice;
4. Able to explain how to foster a safety culture in nuclear facility



CONTENTS

- The Concept of Culture
- The Beginning of Safety Culture
- Why Safety Culture is Important
- Safety Culture in Practice
- How to foster safety culture in Nuclear Facility



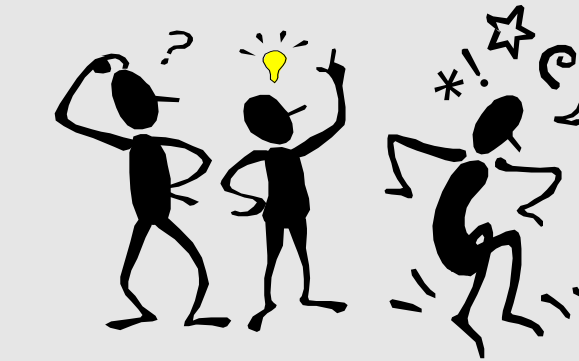
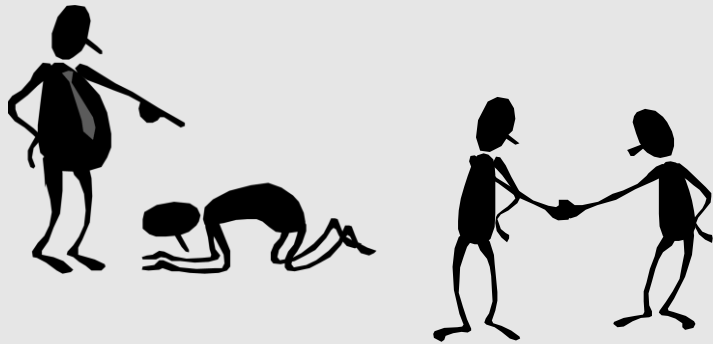


THE CONCEPT OF CULTURE

How do you define culture?

DEFINITIONS OF CULTURE

...culture as patterns of
behaviour and interaction



...culture as systems
of thought

“.... that has worked well enough to be considered valid and, therefore, to be taught to new members as the correct way to perceive, think, and feel in relation to those problems” (Edgar H. Schein)

American anthropologists Kroeber and Kluckhohn(1963) found more than 164 different definitions of the word

EDGAR SCHEIN'S CULTURE MODEL



THE BEGINNING OF SAFETY CULTURE



CHERNOBYL DISASTER

LESSONS FOR NUCLEAR SAFETY

What You Need to Know

 **SUBSCRIBE**



HSE NATION

THE BEGINNING OF SAFETY CULTURE

IAEA

→ INSAG (International Nuclear Safety Advisory Group)



→ INSAG – 1 : Summary Report on the Post-accident Review Meeting on the Chernobyl Accident published in September 1986

*“The main causes of Chernobyl accident were the reactor design with a low tolerance to operator errors and a **general lack of safety culture** complemented with an inadequate regulatory control..”*

THE IAEA DEFINITION OF SAFETY CULTURE

Definition from INSAG-4

*"Safety Culture is that assembly of characteristics and attitudes in organizations and individuals which establishes that, as an overriding priority, **nuclear plant** safety issues receive the attention warranted by their significance."*

Revised definition 2007

*"Safety Culture is that assembly of characteristics and attitudes in organizations and individuals which establishes that, as an overriding priority, **protection** and safety issues receive the attention warranted by their significance"*

WHY CULTURE FOR SAFETY IS IMPORTANT



CONTRIBUTORS TO SIGNIFICANT EVENTS



BP Texas City refinery Incident
15 killed, 180 injured, 2005



Piper Alpha Incident 167 killed,
Property Damage, 1988



Pertamina Pipeline Leak
Environmental Damage, 2018



Fukushima Reactor Incident
Property Damage, 2011



BP GoM Platform burnt and oil spill, 11 killed, 2010



Union Carbide Bhopal Gas Release, >3000 killed, 1984



Tianjin explosion Incident
174 killed, 797 injured, 2017

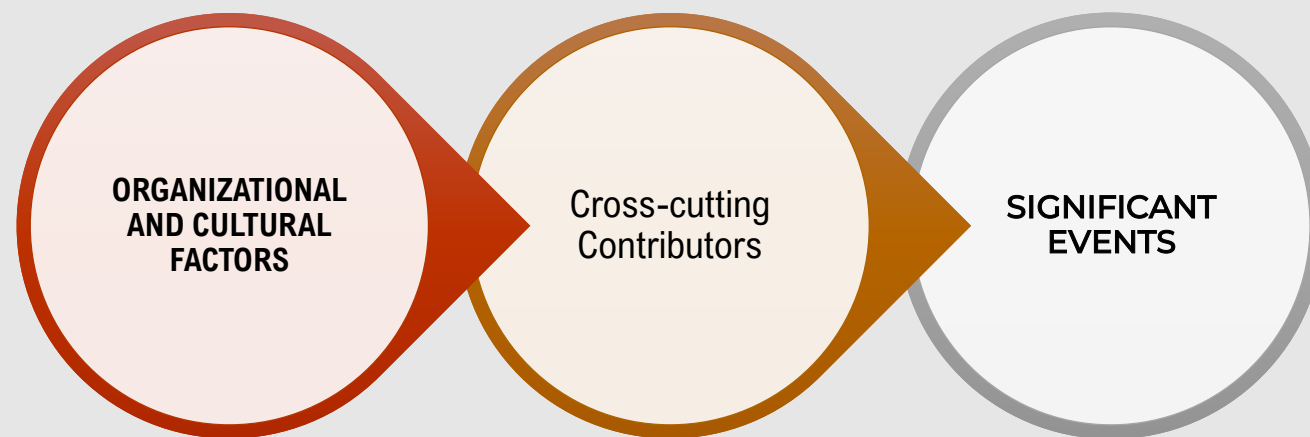


Lapindo Mud
Property Damage, 2006



MAJOR ACCIDENT CASES IN THE WORLD

CONTRIBUTORS TO SIGNIFICANT EVENTS

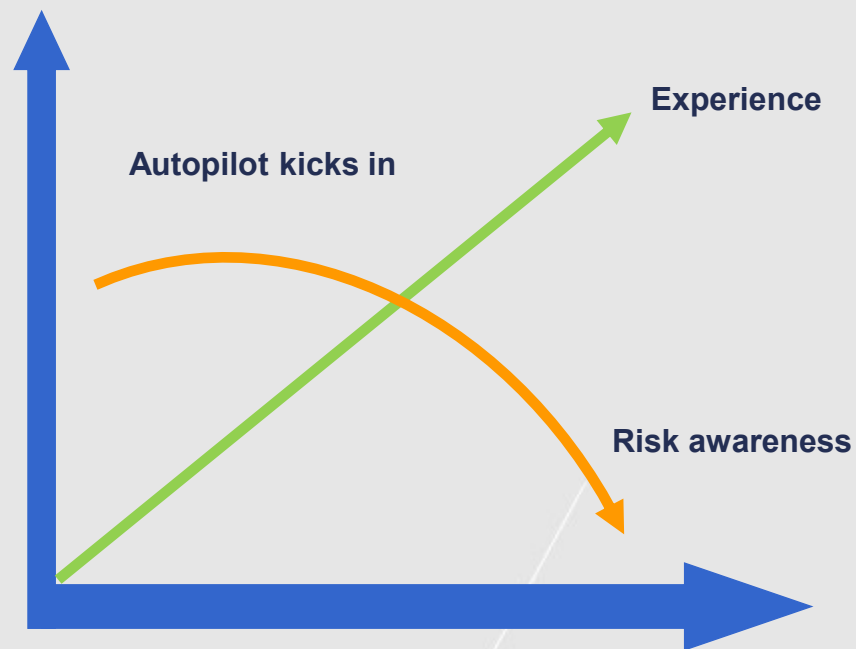


Common Symptoms and Causes of Safety Problems

1. Inadequate corporate support;
2. Poor leadership and managerial skills;
3. Lack of recognition of the need to develop a good safety culture;
4. Lack of resources;
5. No benchmarking;
6. Increased of the backlogs in maintenance and updating of procedures.

Insufficient condition – Limited understanding – Failure to learn – Inability to invite – Normalization of abnormal condition

CULTURAL AUTOPILOTS – CULTURAL BLINDNESS



The Normalization Mechanism

Normalization on a cultural level

After approx. 2-6 months at a new workplace:

- we conform and adapt to the norms in the team;
- This is good, but also might cause “cultural blindness”;
- you just do what everyone else is doing and stop seeing hazards. We stop questioning our assumptions.

“To be mindful about assumptions and take accountability for safety helps us to counteract cultural blindness”

“...don’t assume that “this can’t happen here” because your organization doesn’t have the same work processes. Rather, consider how your organization’s work processes could potentially allow **an event or accident to occur because of a lack of focus on safety culture.”**

(SAFETY CULTURE - IAEA)

CULTURE FOR SAFETY IN PRACTICE



LEGAL ASPECTS OF SAFETY CULTURE IN NUCLEAR FACILITY



PRESIDEN
REPUBLIK INDONESIA

SALINAN

PERATURAN PRESIDEN REPUBLIK INDONESIA

NOMOR 60 TAHUN 2019

TENTANG

KEBIJAKAN DAN STRATEGI NASIONAL KESELAMATAN NUKLIR DAN RADIASI

"..relates to the National Policy and Strategy for Nuclear and Radiation Safety in Indonesia"



SALINAN

PERATURAN BADAN RISET DAN INOVASI NASIONAL

REPUBLIK INDONESIA

NOMOR 1 TAHUN 2021

TENTANG

ORGANISASI DAN TATA KERJA

BADAN RISET DAN INOVASI NASIONAL

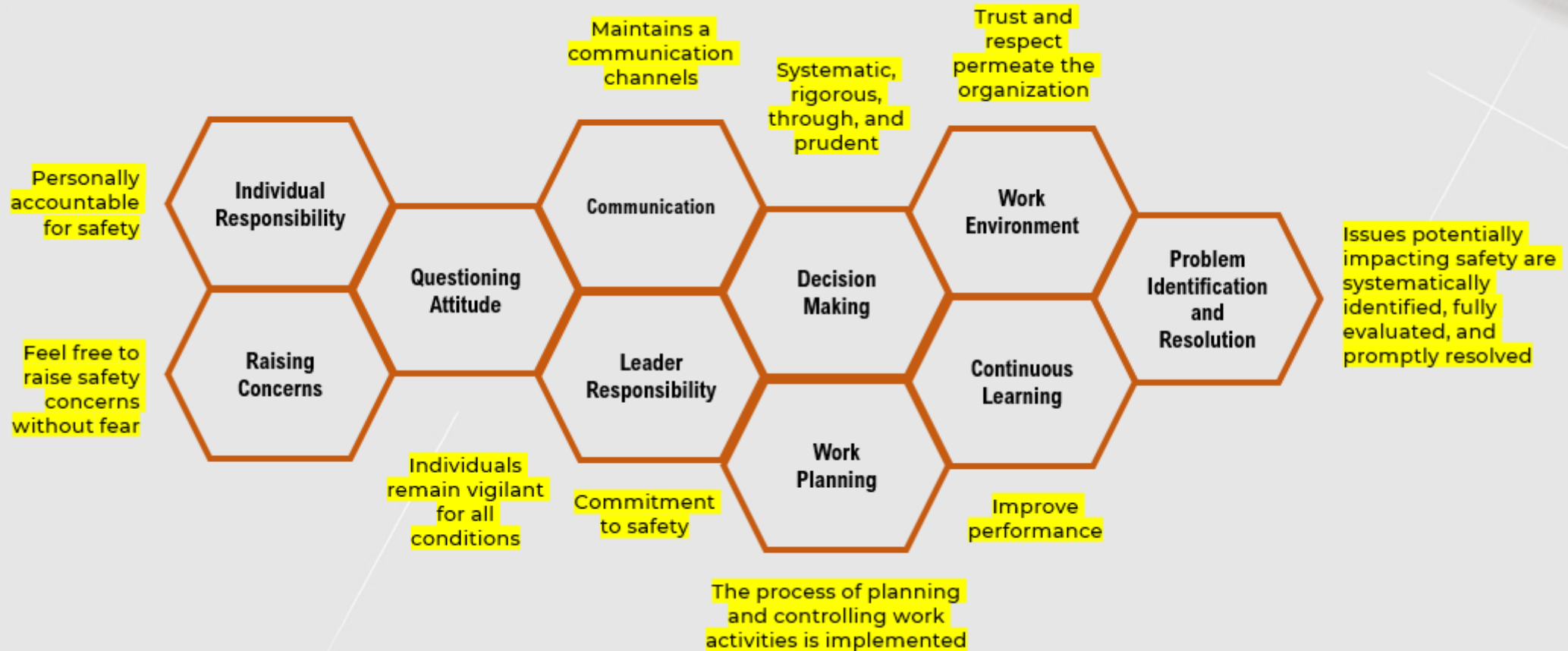
"..relates to organization and work procedures of the National Research and Innovation Agency"

PERKA BATAN NO. 4 TAHUN 2019 → ???

SAFETY CULTURE CHARACTERISTICS

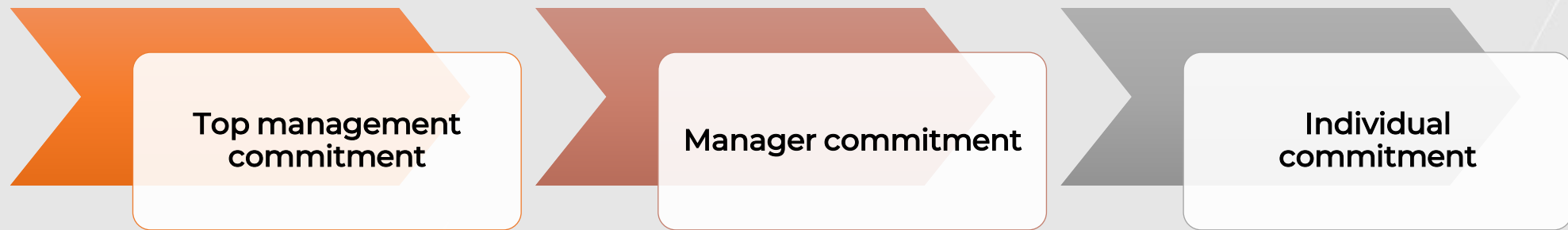


IAEA'S DRAFT OF TEN TRAITS OF SAFETY CULTURE



"GS-G-3.1 is **under revision** as DS513 "Leadership, Management and Culture for Safety. **There is a plan to use the harmonized safety culture model** as an integral part of the revised guide."

COMMITMENT TO SAFETY



STAGES OF DEVELOPMENT OF SAFETY CULTURE



Stage 1:

1. Problems are not anticipated and the organization reacts to each one as it occurs;
2. Lack of communication;
3. Collaboration and shared decision-making is limited;
4. People who make mistakes are blamed for their failure to comply with the rules;
5. Defensive position when criticized.

Stage 2:

1. Growing awareness of the impact of cultural issues in the workplace;
2. Management's response to mistakes is to introduce more controls and procedures and provide more retraining;
3. The role of management is to make sure that goals are achieved and that work objectives are clear to employees.

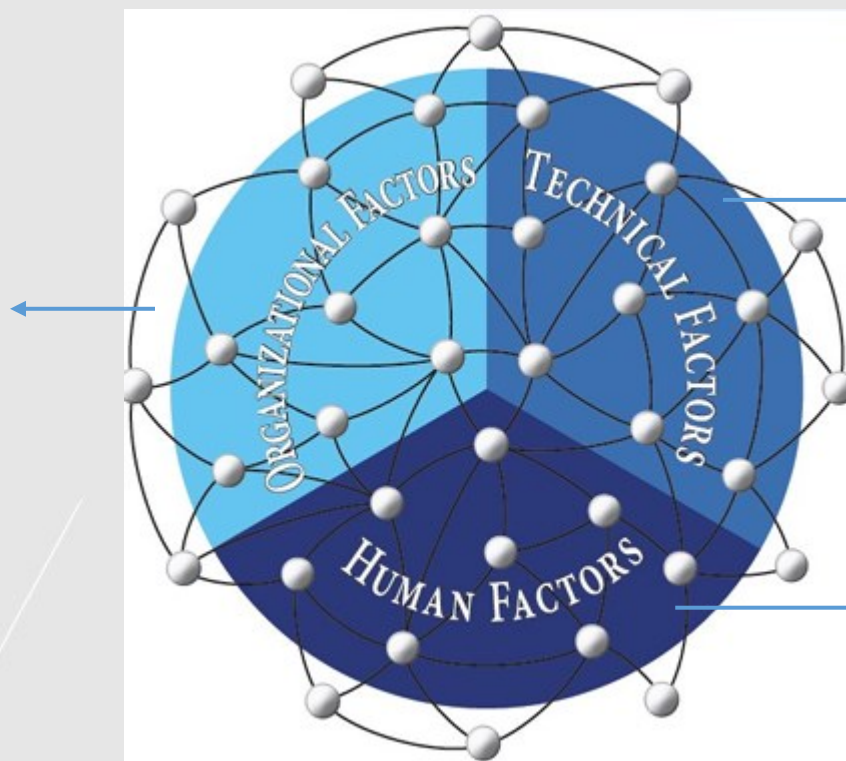
Stage 3:

1. Problems are anticipated and dealt with before they occur;
2. Collaboration between departments and functions is good;
3. There is no goal conflict between safety and production;
4. All mistakes are viewed in terms of process variability with the emphasis placed on understanding what has happened;
5. People are respected and valued for their contribution.

THE SYSTEMIC APPROACH TO SAFETY

Organizational Factors (OF):

1. Vision and Objectives
2. Strategies
3. IMS
4. Continuous Improvement
5. Priorities
6. Knowledge Management
7. Communication
8. Vendor and Supplier
9. Work Environment
10. Culture



Technical Factors (TF):

1. Existing Technology
2. Sciences
3. Design
4. Technical Specifications
5. Quality of Material
6. Equipment reliability
7. PSA/DSA

Human Factors (HF):

1. Human Capabilities & Skills
2. Human Constraints
3. Perceived Work Environment
4. Motivation
5. Individual Understanding
6. Emotions
7. Social Environment

“When **organizations** address human errors focusing on systemic failures more than on individuals, they generate **trust and openness**, promoting a health safety culture..”

SYSTEMS VIEW ON SAFETY - EXAMPLES

Traditional Safety Management

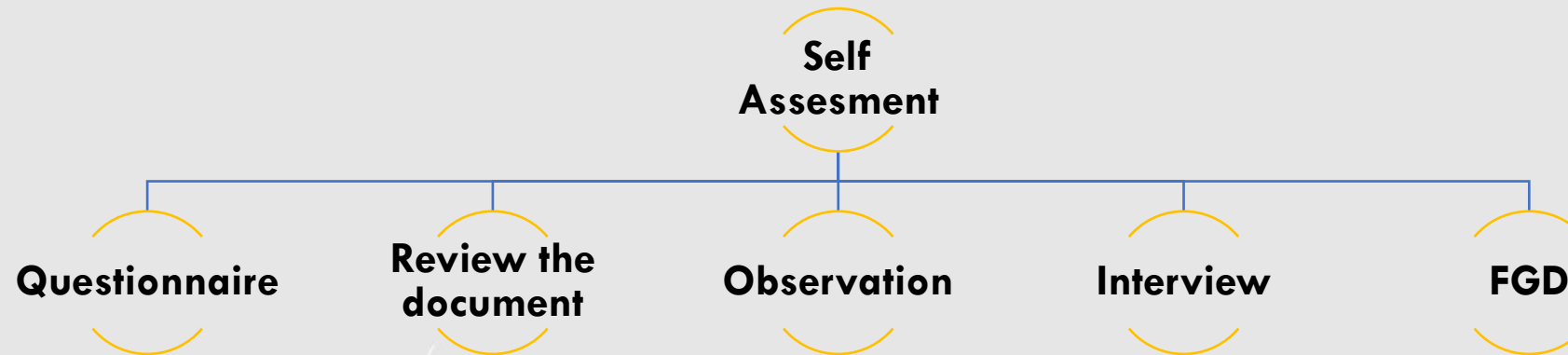
Systemic Approach

Human error is the <i>cause</i> of trouble – the enemy of safety	Human error is a <i>symptom</i> of trouble deeper inside the organization – system complexity is the enemy of safety
Assigning blame is necessary for safety when investigating accidents	Assigning blame threatens safety – focus should be on understanding how the system behaviour as a whole contributed to the event
To develop the system we need to develop the humans working in it, by e.g. training	To develop the system we need to develop the conditions and environment in which people work
Accidents are caused by chains of directly related events, which are caused by human errors	Accidents are complex processes involving the entire sociotechnical system
People cause accidents	People create safety – in interaction with technology and organizations
Best way to learn about safety is to check how many things are going wrong	Best way to learn about safety is to learn how the system really behaves

SELF ASSESSMENT OF SAFETY CULTURE

Goals

Provide a clear insight into how deeply safety is embedded in the organization's culture.



Stages

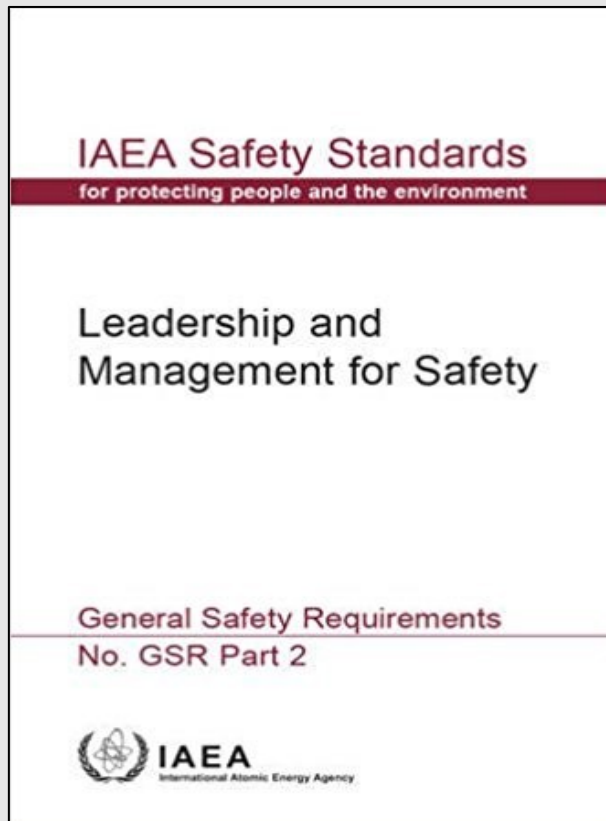


A photograph of two tall, cylindrical smokestacks from a nuclear facility. They are emitting thick, white plumes of steam or smoke that rise into a dark, overcast sky. The smokestacks are metallic and show some signs of wear.

HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY



HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY



All individuals in the organization shall **contribute to fostering and sustaining a strong safety culture**. Senior managers and all other managers shall advocate and support the following:

- A **common understanding** of safety and of safety culture and a **collective commitment to safety** by teams and individuals;
- Acceptance by individuals of **personal accountability** for their attitudes and conduct with regard to safety;
- An organizational culture that supports and **encourages trust, collaboration, consultation and communication**;
- Measures to encourage a **questioning and learning attitude** at all levels in the organization and to **discourage complacency** with regard to safety;
- The means by which the organization seeks to enhance safety and to **foster and sustain a strong safety culture**, and using a **systemic approach** (i.e. an approach relating to the system as a whole in which the interactions between technical, human and organizational factors are duly considered)

HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY

Management Commitment





BRIN
BADAN RISET
DAN INOVASI NASIONAL

HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY

DAILY MEETING



RSG-GAS Daily Meeting
Agus, Aidhanis, Azis, Batan, Batan, Batan, Bu, Denissa, Donny, Edison, Fauzi, Frendy, Hanapi, Ilham, Jazid, Mas, Mas, I

PM Pak Kawkab M PRSG
RESUME MEETING PAGI
Selasa, 01 November 2023

RKU: data terlampir

OPERASI
perbaikan pipa jalur air KST depan gd 42. selesai
melanjutkan layanan friesdrier
penyiapan KAK kelompok operasi reaktor
akan melaporkan hasil pertemuan dengan bu kinkin ke Pak Direktur terkait absensi shift (dwi)
rencana rapat pemegangan mahasiswa POLTEK NUKLIR
sebagian personil mengikuti NKN air/udara
progres portal monitor "penyesuaian program dengan miniPC" (rezky)

PERAWATAN
pengisian tekanan QKJ04 selesai
pembersihan lumut dinding kolam cooling tower lanjut
mendampingi vendor pompa chiller OB
sebagian personil mengikuti NKN air/udara
perawatan tahunan instrumen
perawatan BRV10 20 30
pembuatan KAK perawatan sistem sekunder

KESELAMATAN
rutin pengukuran paparan di dalam gedung & sampling udara kondisi aman
sortir limbah padat selesai
rutin sortir shoescover
standby untuk pendampingan jika ada yg membutuhkan PPR

PESAN KESELAMATAN
APABILA MASUK KEDALAM GEDUNG REAKTOR MOHON GUNAKAN APD YG DIPERLUKAN
(WEARPACK, SAFETYSHOES, TLD, MASKER)
APABILA KELUAR GEDUNG REAKTOR UKUR MENGGUNAKAN TOTAL BODY MONITOR YANG TERSEDIA

UPN
kronologi forklip PTLR menabrak kanopi RSG, pengemudi tidak melihat tinggi forklip, ngambil jalan terlalu kiri.

WAG Daily Meeting include:

1. Inter-sector coordination between work carried out the previous day and activities to be carried out;
2. Summary of meeting results;
3. Safety messages;
4. Safety learning process.

HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY

Safety Patrol



Observation Card

**KARTU OBSERVASI
PERILAKU KERJA SELAMAT
PUSAT REAKTOR SERBA GUNA**

PERSIAPAN → **OBSERVASI** → **KOMUNIKASI**

PENCATATAN → **TINDAK LANJUT**

Lokasi	: R. FAK01/KBE01	Tanggal	: 25/07/2023
Kegiatan	: Perawatan Sistem KBE01 CR001	Jam	: 09.30
Nama	: xxxx	Observer	: Randy

Berilah Tanda ☒ S : Sesuai, TS : Tidak Sesuai, TP : Tidak Pakai

NO	ITEM PENGAMATAN	S	TS	TP	CATATAN
1	ALAT PELINDUNG DIRI (APD)				PERILAKU TIDAK AMAN
	a. Kelengkapan APD yang dipakai		☒		Tidak memakai masker,
	b. Kesesuaian APD dengan Potensi Bahaya	☒			Sikap kerja tidak ergonomis
	c. Kondisi APD yang dipakai (kelayakan)	☒			
	d. Ketepatan Pemakaian/Penggunaan APD	☒			
2	POTENSI DAN TINDAKAN PEKERJA				TINDAKAN PENCEGAHAN
	a. Keleluasaan gerak pekerja		☒		Memakai APD yang sesuai,
	b. Jakur evakuasi ke Pintu Darurat	☒			hati-hati mengangkat/melepas
	c. Posisi Pekerja dalam Bekerja (at-risk)	☒			tutup KBE01 CR001
	d. Gerakan pekerja (gugup, tergesa-gesa)	☒			
	e. Atensi pekerja terhadap pekerjaan	☒			
3	PERALATAN KERJA (TOOLS)				LINGKUNGAN KERJA
	a. Kesesuaian Tools yang digunakan	☒			Minim pencahayaan,
	b. Kondisi Tools yang digunakan	☒			Penempatan detektor KBE01 CR001
	c. Perawatan/Pengujian/Kalibrasi Tools	☒			menyulitkan pekerja dalam uji fungsi
4	HOUSEKEEPING				atau perawatan sistem
	a. Kebersihan dan Kerapian Tempat Kerja	☒			
	b. Kebersihan Peralatan di Tempat Kerja	☒			
	c. Pengelolaan Limbah (radioaktif, B3)	☒			KOMUNIKASI DAN FEEDBACK
	d. Tanda Peringatan Bahaya (radiasi, B3)	☒			
5	OTORITAS KERJA				
	a. Surat Perintah Kerja (mis: PPIK)	☒			
	b. Pengawasan PPR (Petugas Keselamatan)	☒			

Observation Results



HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY

Safety Induction



Socialization and Internalization of Safety Culture



BRIN
BADAN RISET
DAN INOVASI NASIONAL

FASILITAS RISET, DAN KAWASAN SAINS DAN TEKNOLOGI

Gedung B.J. Habibie, Jalan M.H. Thamrin Nomor 8, Jakarta Pusat 10340

Telepon/WA: 081110646762, Surel: dit-plfrkst@brin.go.id, Laman: www.brin.go.id

Nomor : B-732/II.6.4/DL.01.01/7/2025

Jakarta, 15 Juli 2025

Sifat : Biasa

Lampiran : 1 (satu) Berkas

Hal : Undangan Pelatihan K3

Yth. **Sivitas Pengelola Laboratorium dan Pengelola Kawasan**
di Tempat

PELATIHAN OPERATOR DAN SUPERVISOR REAKTOR

Waktu	17 Februari 2025	18 Februari 2025		19 Februari 2025		20 Februari 2025		21 Februari 2025	
		Operator	Supervisor	Operator	Supervisor	Operator	Supervisor	Operator	Supervisor
07.45 - 08.30	Pembukaan Tes Awal Asep Wahyu (Bandung) Argo Satrio W (Jogja)	(VC) Keselamatan Nuklir Haryo Seno		(VC) Sistem Instrumentasi dan Kendali Ikhsan Shobari		(VC) Perpindahan Panas Wahyu Nur Hidayat		(VC) Proteksi Fisik dan Kendali Bahan Nuklir Wahana	
08.30 ~ 09.15	Penjelasan Pelatihan Asep Wahyu (Bandung)	sda		sda		sda		sda	
09.15 ~ 09.30	ISTIRAHAT								
09.30 ~ 10.15	(VC) Dasar Fisika Reaktor Haryo Seno	(VC) Sistem Reaktor RND Abdul Rohim Ito Suwarso		(VC) Batasan dan Kondisi Operasi (2 BR) Asep Wahyu (Bandung) Argo Satrio Wicaksono (Jogja)	(VC) Keselamatan Neutronik dan Thermohidrolis Reaktor Nuri Trianti	(VC) Peraturan Perundang-undangan terkait RND Haryo Sadewo	Prasetyo	(VC) Responsi soal Asep Wahyu (Bandung) Argo Satrio Wicaksono (Jogja)	
10.15 ~ 11.00	sda	(VC) Kimia Air Ivana Octavianita		sda	sda	(VC) Utilisasi Reaktor Argo Satrio Wicaksono		sda	
11.00 ~ 11.45	(VC) Fitur Keselamatan Teknis Prasetyo Haryo Sadewo	sda		(VC) Pengoperasian Reaktor (2 BR) Asep Wahyu (Bandung) Argo Satrio Wicaksono (Jogja)	(VC) Keelakaan Dasar Desain Nuri Trianti	(VC) Sistem Manajemen RND Dwi Yulliansari,		Pengarahan Praktikum (Penyegaran+Baru) (2 BR) Asep Wahyu (Bandung) Wahyu Nur Hidayat (Jogja)	
11.15 ~ 12.45	ISTIRAHAT								
12.45 ~ 13.30	sda	(VC) Sistem Pendingin Wahyu Nur Hidayat		sda	(VC) Manajemen Penanganan Teras Reaktor Nallatussaadah	(VC) Budaya Keselamatan Puspitasari Ramadania			(VC) Manajemen Penuaan Nallatussaadah
13.30 ~ 14.15	(VC) Keselamatan Radiasi dan Pengelolaan Limbah Radioaktif Mahrus Salam	sda		sda	(VC) Manajemen Operas Abdul Rohim Ito Suwarso	sda			(VC) Modifikasi GSK Zulfikar Elran Bagaskara

HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY

Coaching / Mentoring / Nuclear Knowledge Management



**DIREKTORAT PENGELOLAAN FASILITAS
KETENAGANUKLIRAN**

Gedung B.J. Habibie, Jalan M.H. Thamrin Nomor 8, Jakarta Pusat 10340
Telp : (021) 7560908, E-mail: dl-sfh@brin.go.id, Laman : www.brin.go.id

MEMO

Tgl. 04 Oktober 2023

Kepada Yth:

1. Aep Saepudin Catur (Subkoor Mekanik)
2. Setyo Budi Utomo (PFS Elektrik)
3. Abdul Aziz (PFS Mekanik)
4. Santosa Pujiarta (PFS Mekanik)
5. Fahmi Alfa Muslimu (PFS Keselamatan)
6. Makmuri (PFS Mekanik)
7. Dede Solehudin Fauzi (PFS Mekanik)
8. Parhadi (PF Operasi)
9. Sukiyanto (PF Operasi)

Menindaklanjuti pelaksanaan kegiatan *Coaching mentoring* sistem Instalasi air dan ventilasi udara RSG-GAS berdasarkan Keputusan Direktur DPFK Nomor B-5669/II.6.5/HK.01.00/10/2023, dengan ini mengundang kehadiran Saudara pada:

Hari/Tanggal : Kamis/05 Oktober 2023
Jam : 09.00 WIB - Selesai
Tempat : Ruang rapat LT2 (Gd.31)
Acara : Penyusunan jadwal & silabus pembelajaran kegiatan *coaching mentoring* sistem Instalasi air dan ventilasi udara RSG GAS

Demikian hal ini kami sampaikan atas perhatian dan kerjasamanya diucapkan terimakasih.

Ketua Pelaksana Kegiatan,

 **TT ELEKTRONIK**

Sugiyarto
NIP. 19840909 201012 1 001



PENGGIAT & CALON TIM MR D...

Pak, PRSG, +62 811-2231-233, +62 812-9030-7285, +6...

SHARING KNOWLEDGE DPFK

Arahan pak direktur ujm diminta arrange kegiatan sharing knowledge DPFK 2 Mingguan topik kompetensi DPFK, silahkan diusulkan tema atau judul dan narsum 🙏 rencana kegiatan lanjutan sbb:

- 18 Juli: 1. Penyamaan dan penerapan SM perka 4 th 2010 (Bayu) 2. Sosialisasi draft kebijakan, sasaran SM. (Anis) 3. Sharing training iaea (Lira)
- Minggu ke 1, Agustus, 1. Kaji ulang dokumen dan status tinjauan dokumen dan kick off audit internal (bayu) 2. Dokumen SM dan Dokumen perijinan (Denissa) 3. Sharing training iaea (Agung)
- Minggu Ke 3 Agustus FGD KK Manajemen risiko (sk terbit minggu ke 3 juli .. waktu 1 bulan)
- minggu ke 1, september tema Operasi dan prospek layanan rsg
- Minggu ke 3 sept tema operasi DAN prospek layanan ITRR
- Minggu ke 1, oktober, operasi dan...

PENGGIAT & CALON TIM MR D...

Pak, PRSG, +62 811-2231-233, +62 812-9030-7285, +6...

Forwarded

Join our Cloud HD Video Meeting
Zoom is the leader in modern enterprise video communications, w...

NuFaShion #9

Nuclear Facility Sharing Knowledge and Information
IPLR Talk

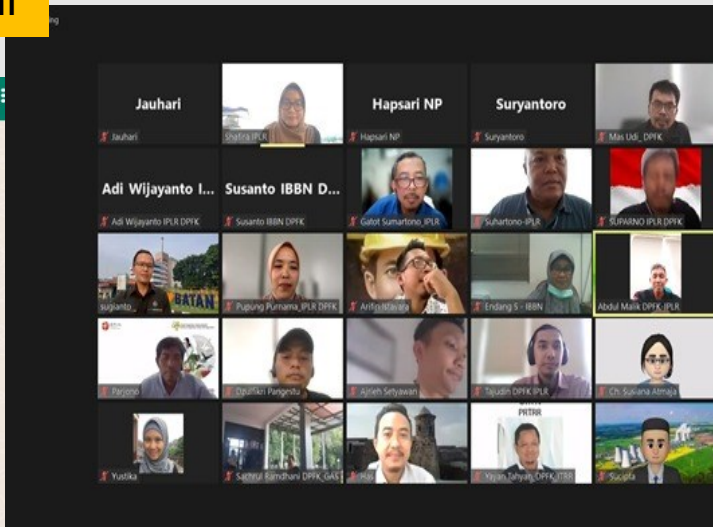
Selasa 17 Oktober 2023, pukul 13.00

Bergabung ke NuFaShion Zoom
<https://zoom.us/j/99521070866?pwd=ZVRGYmVYYko0cEh2OTU4M2piRy9LZz09>

Meeting ID: 995 2107 0866
Passcode: NuFaShion

AGENDA

- MC : Pupung Purnama
- Moderator : Sunardi
- Notulis : Shafira K. Agung
- 13.00 - 13.15
Arahan Direktur
- 13.15 - 13.45
Daulifiki Pangestu
"Interregional Training Course on Hands-On Training for Category 3 to 5 Radioactive Sources, Morocco"



HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY

Inspection and Audit



BADAN PENGAWAS TENAGA NUKLIR
Nuclear Energy Regulatory Agency

Nomor : 006/SML/IS 00/DI2BN/IV/2025
Lampiran : 1 Berkas
Perihal : Inspeksi keselamatan Nuklir
Sifat : Terbatas

Jakarta

Kepada Yth.
Kepala Badan Riset dan Inovasi Nasional (BRIN)
Up. Direktur Pengelolaan Fasilitas Ketenaganukliran (DPFK) BRIN
Pusat Reaktor Serba Guna (PRSG) - BATAN

Bersama ini kami beritahukan bahwa BAPETEN akan mengadakan Inspeksi rutin di Rea
G.A. Siwabessy pada:

Tanggal : 19 - 23 Mei 2025
Waktu : 09.00 WIB - Selesai

Ruang Lingkup inspeksi yang akan dilaksanakan di instansi Saudara adalah:

1. Aspek Operasi
2. Aspek Perawatan dan Penuaan
3. Aspek Proteksi Radiasi
4. Aspek Kesiapsiagaan Nuklir



BADAN PENGAWAS TENAGA NUKLIR
Nuclear Energy Regulatory Agency

Nomor : 027/SML/IS 00/DI2BN/VII/2025
Lampiran : -
Perihal : Inspeksi keselamatan Nuklir
Sifat : Terbatas

Jakarta, 28 Juli 2025

Kepada Yth.
Kepala Badan Riset dan Inovasi Nasional (BRIN)
Up. Direktur Pengelolaan Fasilitas Ketenaganukliran (DPFK) BRIN
Pusat Reaktor Serba Guna (PRSG) - BATAN

Bersama ini kami beritahukan bahwa BAPETEN akan mengadakan Inspeksi rutin di Reaktor Serba Guna G.A.
Siwabessy pada:

Tanggal : 25 - 28 Agustus 2025
Waktu : 09.00 WIB - Selesai

Ruang Lingkup inspeksi yang akan dilaksanakan di instansi Saudara adalah:

1. Aspek Pengelolaan, Pemantauan Lingkungan
2. Aspek Pengelolaan Limbah Radioaktif



DIREKTORAT PENGELOLAAN FASILITAS KETENAGANUKLIRAN

Gedung B.J. Habibie Jalan M.H. Thamrin Nomor 8, Jakarta Pusat 10340
Telp : (021) 7560908, WA/HP : +62811-1064-6763, E-mail: dit-pfk@brin.go.id
Laman : www.brin.go.id

NOTA DINAS
001/II.6.5.1/IR 06 01/08/2025

Yth. : 1) Manajer Operasi dan Perawatan RSG-GAS;
2) Manajer Keselamatan RSG-GAS;
3) Ketua Tim Instalasi RSG-GAS;
4) Ketua Tim Pengamanan Nuklir Serpong;
5) Kepala Pusat Reaktor Serba Guna (Tembusan Informasi)

Dari : Ketua Tim Jaminan Mutu DPFK
Hal : Inspeksi Kualitas Instalasi Nuklir (QuINS) di RSG-GAS (Bulanan)
Lampiran : 1 (Satu) berkas
Tanggal : 4 Agustus 2025

Sesuai dengan Kalende
melaksanakan Inspeksi Interna
Sistem Manajemen Direktorat
Pelaksanaan audit akan dilakuk

Proses inspeksi:

- 1) Pemeriksaan dokumen;
- 2) Pemeriksaan material/p
- 3) Wawancara/diskusi den
- 4) Penyaksian (*witness*) pr
- 5) Tidak mengakibatkan op



HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY

Technical Teams



KEPUTUSAN
DIREKTUR PENGELOLAAN FASILITAS KETENAGANUKLIRAN
BADAN RISET DAN INOVASI NASIONAL
REPUBLIK INDONESIA
NOMOR B-1228/II.6.5/HK.01.00/1/2025

TENTANG
PEMBENTUKAN TIM PENANGGULANGAN KEDARURATAN DAN PROTEKSI
KEBAKARAN DI LINGKUNGAN REAKTOR SERBA GUNA G.A. SIWABESSY
DI DIREKTORAT PENGELOLAAN FASILITAS KETENAGANUKLIRAN
TAHUN 2025

DIREKTORAT PENGELOLAAN FASILITAS KETENAGANUKLIRAN

Menimbang : a. bahwa dalam rangka menunjang pelaksanaan tugas pokok dan fungsi Direktorat Pengelolaan Fasilitas Ketenaganukliran maka diperlukan pembentukan Tim Penanggulangan Kedaruratan dan Proteksi Kebakaran;

b. bahwa pegawai yang nama-namanya tersebut pada lampiran keputusan ini dipandang memenuhi syarat untuk ditugaskan sebagai anggota Tim Penanggulangan Kedaruratan dan Proteksi Kebakaran.

Mengingat : 1. Undang-undang Nomor 10 tahun 1997 tentang Ketenaganukliran;

2. Keputusan Presiden Nomor 63 Tahun 2004 tentang Pengamanan Obyek Vital Nasional;



KEPUTUSAN
DIREKTORAT PENGELOLAAN FASILITAS KETENAGANUKLIRAN
BADAN RISET DAN INOVASI NASIONAL
REPUBLIK INDONESIA

NOMOR B-1773/II.6.5/HK.01/1/2025

TENTANG
TIM KESIAPSIAGAAN DAN PENANGGULANGAN KEDARURATAN NUKLIR
KAWASAN SAINS DAN TEKNOLOGI B.J. HABIBIE, SERPONG
TAHUN 2025

DIREKTORAT PENGELOLAAN FASILITAS KETENAGANUKLIRAN

Menimbang : a. bahwa keselamatan, keamanan dan perlindungan fasilitas ketenaganukliran merupakan prioritas dalam melaksanakan tugas dan fungsi;

b. bahwa untuk mewujudkan keselamatan, keamanan dan perlindungan fasilitas ketenaganukliran didukung melalui program kesiapsiagaan dan penanggulangan kedaruratan nuklir;

c. bahwa untuk melaksanakan program kesiapsiagaan dan penanggulangan kedaruratan nuklir perlu menetapkan tim kesiapsiagaan dan penanggulangan kedaruratan nuklir;

d. bahwa berdasarkan pertimbangan sebagaimana dimaksud huruf a, huruf b dan huruf c, perlu menetapkan Keputusan Direktur Pengelolaan Fasilitas Ketenaganukliran tentang Tim Kesiapsiagaan dan Kedaruratan Nuklir Kawasan Sains dan Teknologi B.J. Habibie, Serpong;

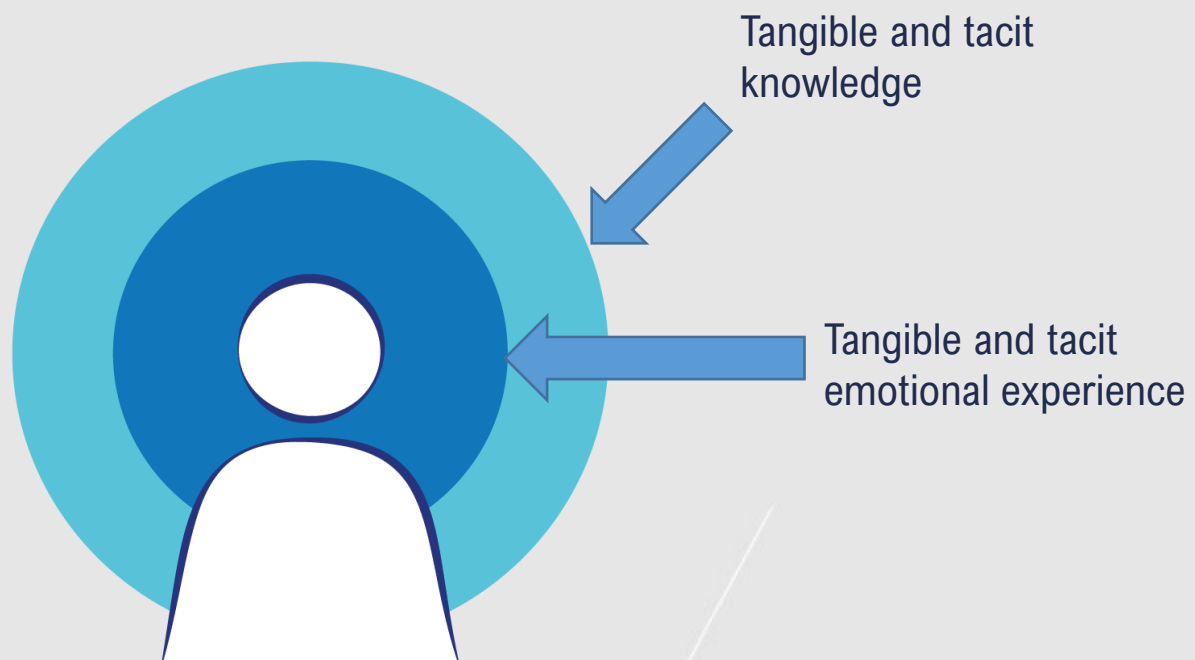
e. bahwa pegawai yang nama-namanya tersebut pada lampiran keputusan ini dipandang memenuhi syarat untuk ditugaskan sebagai anggota Tim Kesiapsiagaan dan Kedaruratan Nuklir Kawasan Sains dan Teknologi B.J. Habibie, Serpong.

HOW TO FOSTER A SAFETY CULTURE IN NUCLEAR FACILITY

Work Schedule

 BRIN BUMI HARIAN BARU MELAKSI	JADWAL PELAKSANAAN SAFETY PATROL INSTALASI REAKTOR SERBA GUNA G.A. SIWABESSY DIREKTORAT PENGELOLAAN FASILITAS KETENAGANUKLIRAN TAHUN 2025														No. Ident.		: SOP A.016-P. 012/III.6.5/IRSG 3-III/ KN 02 03/2023				
															Revisi		: 0				
															Hal./Jumlah hal		: 1/1				
PETUGAS SAFETY PATROL	Maret		April		Mei		Juni		Juli		Agustus		September		Oktober		November		Desember		
	10-14 Maret 2025*	27 Maret 2025	17 April 2025	30 April 2025	9 Mei 2025	28 Mei 2025	6 Juni 2025	26 Juni 2025	7-11 Juli 2025*	21-25 Juli 2025*	11-15 Agustus 2025*	25-29 Agustus 2025*	4 September 2025	15-19 September 2025*	6-10 Oktober 2025*	20-24 Oktober 2025*	3-7 November 2025*	17-21 November 2025*	8-12 Desember 2025*	24 Desember 2025	31 Desember 2025
Evaluasi Pelaksanaan Safety Patrol 2025																					
Keterangan : 1. Petugas dapat memilih tanggal pelaksanaan (sesuai dengan range tanggal yang telah ditentukan) hanya apabila jadwal pelaksanaan terdapat tanda (*); 2. Petugas SP bertanggung jawab atas pelaksanaan SP sesuai dengan jadwal yang telah ditentukan dan dapat mengajukan tambahan personil kepada Ka. Tim dalam pelaksanaannya (sesuai kebutuhan lokasi pengawasan); 3. Formulir hasil pelaksanaan SP agar dilengkapi foto kegiatan dan diserahkan langsung ke Kelompok Pelaksana Fungsi KKPR (PJ: Puspita); 4. Lokasi SP : Gedung 30, Gedung 31 dan Gedung bantu lainnya dan lingkungan Instalasi Reaktor RSG-GAS.																					
Diketahui / Disetujui oleh : Ka. Tim Pengelolaan Instalasi Reaktor RSG-GAS  TT ELEKTRONIK														Tangerang Selatan, 21 Februari 2025 Disiapkan/ direncanakan oleh :  TT ELEKTRONIK							

CULTURAL ASPECT - THE SPHERE OF HUMAN



Shared Space



**SAFETY
CULTURE**



**WHAT ACTIVITIES AT YOUR
INSTALLATION CAN
FOSTER A CULTURE FOR
SAFETY?**

SUMMARY

1

Safety culture embodies an organization governed by positive values;

2

Enhance the implementation of safety culture across the five characteristic aspects by promoting socialization, internalization, and mentoring;

3

Management's role is essential to support and enhance the culture for safety in Nuclear Facility;

4

Establishing safety culture targets and objectives to enable measurable implementation;

5

Safety culture reflects an organization with quality human resources;

6

Safety culture demonstrates that the organization is an effective learner.

THANK YOU

ありがとうございます