KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI
MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATION

NUKLEAR MALAYSIA

'Teknologi Nuklear Pemacu Wawasan Negara'
'Nuclear Technology Propels The Nation Vision'

SAFETY, SECURITY, HEALTH, AND ENVIRONMENTAL MANAGEMENT SYSTEM FOR TRIGA PUSPATI RESEARCH REACTOR

IAEA "Technical Meeting on Integrated Management Systems for the Sustainable Safe Operation and Effective Utilization of Research Reactors"
EVT2405016
Mito, Japan, 16 – 19 June 2025

INTRODUCTION

Malaysian Nuclear Agency adopts a holistic, integrated approach to workplace safety and health, with particular attention to radiation safety and environmental protection.

This is achieved through the implementation of an Integrated Management System (IMS) that merges Occupational Safety and Health Management Systems (OSHMS), Quality Management Systems (QMS), Environmental Management Systems (EMS), and specialized programs such as radiation safety.

Nuklear Malaysia Occupational Health and Safety and Environmental Management System (SHE-MS) includes the Occupational Health and Safety Assessment Quality Management System (OHSAS) 18001 and the Environmental Management System (ISO 14000)

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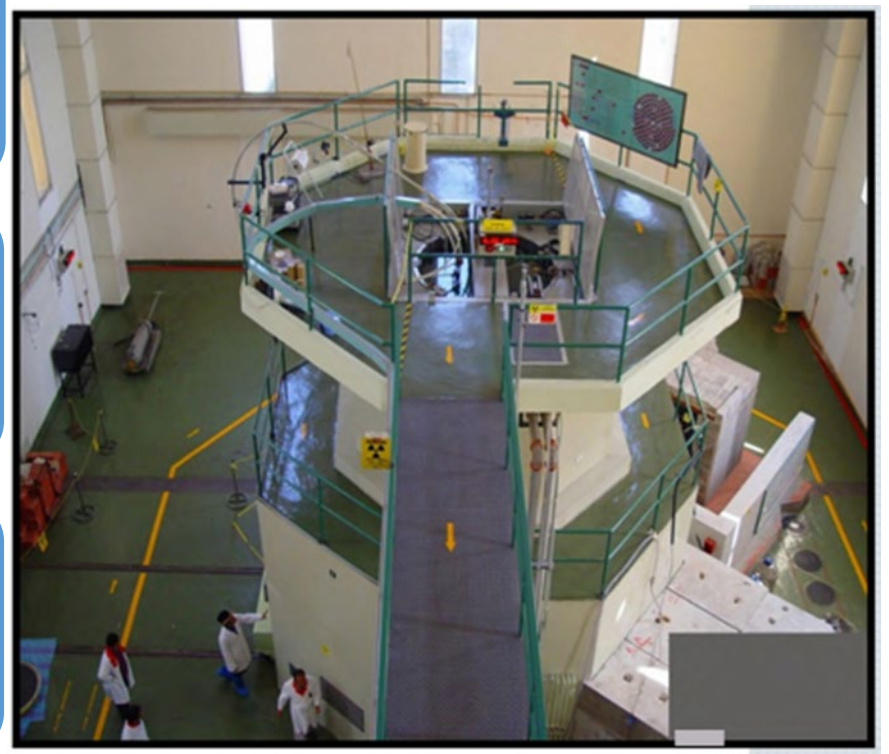


LEGISLATIVE FRAMEWORK

Occupational Safety and Health (Amendment) Act 2022 (Act A1648):

- This Act, which took effect on June 1, 2024, replaces the previous OSHA 1994 (Act 514) as the principal legislation governing workplace safety and health in Malaysia.
- Key features include:
  - Expanded coverage to all workplaces and industries.
  - Mandatory appointment of a safety coordinator for companies with five or more employees.
  - Increased penalties for non-compliance (up to RM500,000).
  - Emphasis on self-regulation and shared responsibility between employers and employees.
  - Mandates employers to provide a safe working environment, conduct risk assessments, ensure employee competency, and establish safety and health committees where required.

LEGISLATIVE FRAMEWORK

Atomic Energy Licensing Act 1984 (Act 304)

- Regulates all activities involving radioactive materials and radiation-emitting devices.
- Requires licensing, safety programs, and the appointment of a Radiation Protection Officer (RPO).
- Subsidiary regulations include:
  - Radiation Protection (Licensing) Regulations 1986
  - Radiation Protection (Transport) Regulations 1989
  - Atomic Energy Licensing (Basic Safety Radiation Protection) Regulations 2010 (P.U.(A) 46)
  - Atomic Energy Licensing (Radioactive Waste Management) Regulations 2011 (P.U.(A) 274)
- These regulations mandate safety culture, dose limits, ALARA principle, monitoring, emergency preparedness, and record-keeping

LEGISLATIVE FRAMEWORK

Environmental Quality Act 1974 (Act 127), as amended by the Environmental Quality (Amendment) Act 2024:

- The EQA is Malaysia's primary environmental legislation, addressing pollution control, waste management, and environmental protection.
- The 2024 amendment introduces stricter penalties (up to RM10 million), clarifies definitions, and enhances enforcement powers for the Department of Environment (DOE).
- Requires robust environmental management systems, especially for industrial waste and pollution control.

MALAYSIAN NUCLEAR AGENCY OCCUPATIONAL SAFETY SYSTEM

OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL MANAGEMENT SYSTEM (SHE-MS)

- Occupational Health and Safety Assessment Quality Management System (OHSAS) 18001
- Environmental Management System (ISO 14000).

SHE POLICY

AGENSI NUKLEAR MALAYSIA

Dasar Keselamatan Pekerjaan, Kesihatan dan Alam Sekitar

Agensi Nuklear Malaysia bertanggungjawab menjalankan penyelidikan dan pembangunan (R&D) serta memberi khidmat teknikal dan latihan dalam bidang teknologi nuklear bagi pembangunan negara.

Adalah menjadi dasar Agensi Nuklear Malaysia untuk menyediakan persekitaran tempat kerja dan alam sekitar yang selamat dan sihat untuk semua pekerjanya dan perlindungan kepada orang lain yang terganggu keselamatan dan kesihatan akibat perlaksanaan aktiviti-aktivitinya.

Agensi Nuklear Malaysia yakin bahawa matlamat dasar ini dapat dicapai dengan melaksanakan sepenuhnya objektif-objektif dasar seperti berikut:

- Untuk mematuhi serta menilai pematuhannya secara berkala atas keperluan perundangan dan peraturan berkaitan dengan keselamatan pekerjaan, kesihatan dan alam sekitar;
- Untuk mematuhi keperluan perundangan dan peraturan berkaitan keselamatan nuklear dan sinaran, sekuriti serta kawalselia;
- Untuk meminimakan risiko serta kesan yang mungkin kepada pekerja dan individu terlibat yang boleh terjejas ekoran perlaksanaan aktiviti– aktivitinya;
- Untuk memantau secara berkala, menilai dan mewujudkan kaedah mengurangkan kesan terhadap alam sekitar;
- Untuk memastikan semua kakitangan berinfomasi serta mendapat arahan, latihan dan penyeliaan dalam menjalankan tugas masing-masing dengan selamat dan risiko yang minima;
- Untuk menyiasat semua kemalangan, penyakit, keracunan dan kejadian berbahaya serta mengambil langkah – langkah yang efektif bagi memastikan kejadian yang sama tidak berulang;
- Untuk menetap, menambahbaik dan memantapkan lagi sistem pengurusan keselamatan, kesihatan dan alam sekitar secara berterusan;
- Untuk menyediakan kemudahan – kemudahan kebajikan bagi semua pekerja;
- Untuk memastikan semua kontraktor, pelawat, pembekal barangan dan perkhidmatan serta individu yang berkaitan mematuhi semua kehendak keselamatan, kesihatan dan alam sekitar Agensi Nuklear Malaysia; dan
- Untuk mengkaji semula dasar ini bila perlu.

(DR. ROSLI BIN DARMAWAN)
Ketua Pengarah
Agensi Nuklear Malaysia

06 SEPTEMBER 2023

MALAYSIAN NUCLEAR AGENCY

Occupational Safety, Health and Environmental Policy

Malaysian Nuclear Agency is entrusted with conducting research and development (R&D) as well as providing technical services and trainings in the areas of nuclear technology for national development.

Malaysian Nuclear Agency's policy outlines its pledge to provide a safe and healthy workplace and environment for its employees as well as to protect the public whose safety and health might have been affected following the implementation of activities in Malaysian Nuclear Agency.

Malaysian Nuclear Agency believes the aims of this policy can be accomplished by fully implementing the policy objectives as follows:

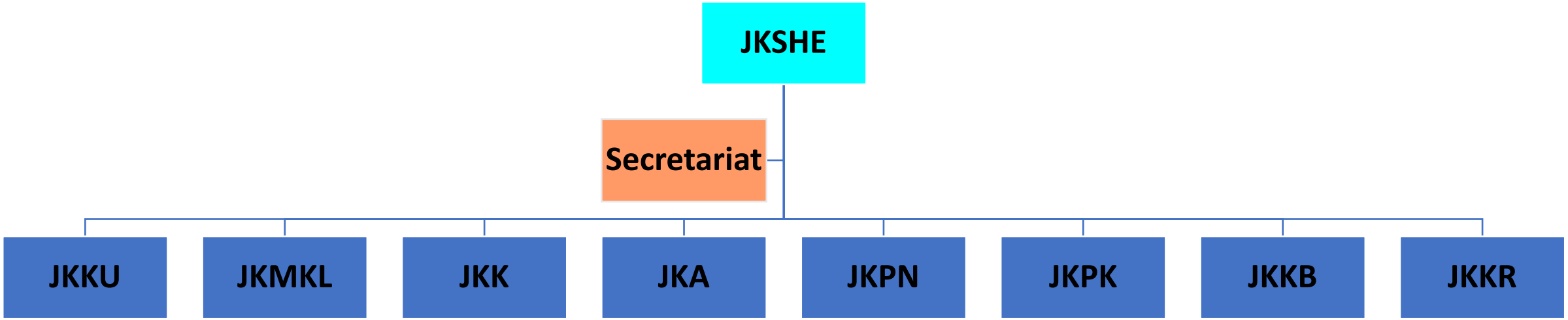
- To abide by, and assess its compliance periodically, as required by legislative obligation and regulations pertaining to occupational safety, health and environment;
- To comply with legal requirements and regulations concerning radiation, nuclear safety, security and safeguard;
- To minimise possible risk and effects on its employees and individuals whose safety and health might have been affected following the implementation of activities in Malaysian Nuclear Agency;
- To periodically monitor, assess and create methods of minimising effects on the environment;
- To ensure all employees are well-informed and that, instructions, trainings and supervision are accessible to them, hence warranting their duties to be conducted safely and at minimal risk;
- To examine all accidents, illnesses, intoxication and hazardous incidents as well as to take cautious approaches to prevent the recurrence of such events;
- To continuously rate, improve and strengthen the safety, health and environmental management system;
- To provide welfare facilities to all employees;
- To ensure all contractors, visitors, supply and service vendors as well as related individuals, comply with the safety, health and environmental requirements of Malaysian Nuclear Agency; and
- To revise this policy when necessary.

(DR. ROSLI BIN DARMAWAN)
Director General
Malaysian Nuclear Agency

06 SEPTEMBER 2023

N.U.R
NUKLEAR UNTUK RAKYAT

SHE Management System (SHEMS) Committee Structure



Key Legend:

JKSHE: Safety, Health and Environmental Committee [*Jawatankuasa Keselamatan, Kesihatan dan Alam Sekitar*]

Secretariat: Secretariat KFK (Health Physics Group)/ BKS (Radiation Safety and Health Division) [*Sekretariat KFK (Kumpulan Fizik Kesihatan)/ BKS (Bahagian Keselamatan dan Kesihatan Sinaran*)

JKKU: Subcommittee of Main Facilities [*Jawatankuasa Kecil Kemudahan Utama*]

JKMKL: Subcommittee of Laboratory and Field Work [*Jawatankuasa Kecil Makmal dan Kerja Lapangan*]

JKK: Subcommittee of Emergency [*Jawatankuasa Kecil Kecemasan*]

JKA: Subcommittee of Audit [*Jawatankuasa Kecil Audit*]

JKPN: Subcommittee of Nuclear Protection [*Jawatankuasa Kecil Perlindungan Nuklear*]

JKPK: Subcommittee of Area Supervisor [*Jawatankuasa Kecil Penyelia Kawasan*]

JKKB: Subcommittee of Biological Safety [*Jawatankuasa Kecil Keselamatan Biologi*]

JKKR: Subcommittee of Reactor Facility [*Jawatankuasa Kecil Kemudahan Reaktor*]

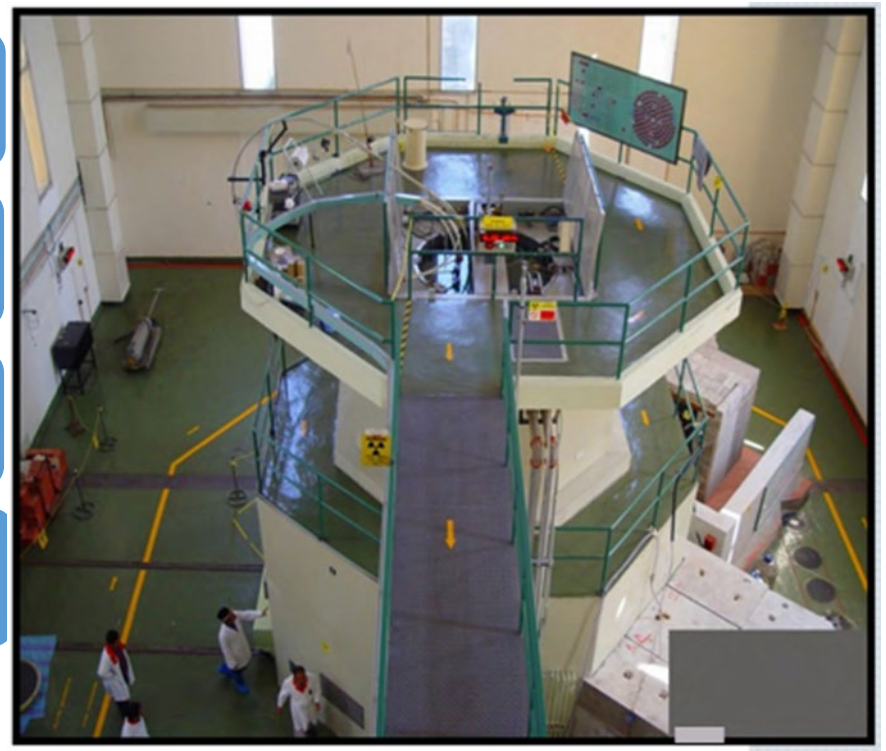
FACILITY

1 MW PUSPATI TRIGA MARK ll : Operational since 28 June 1982

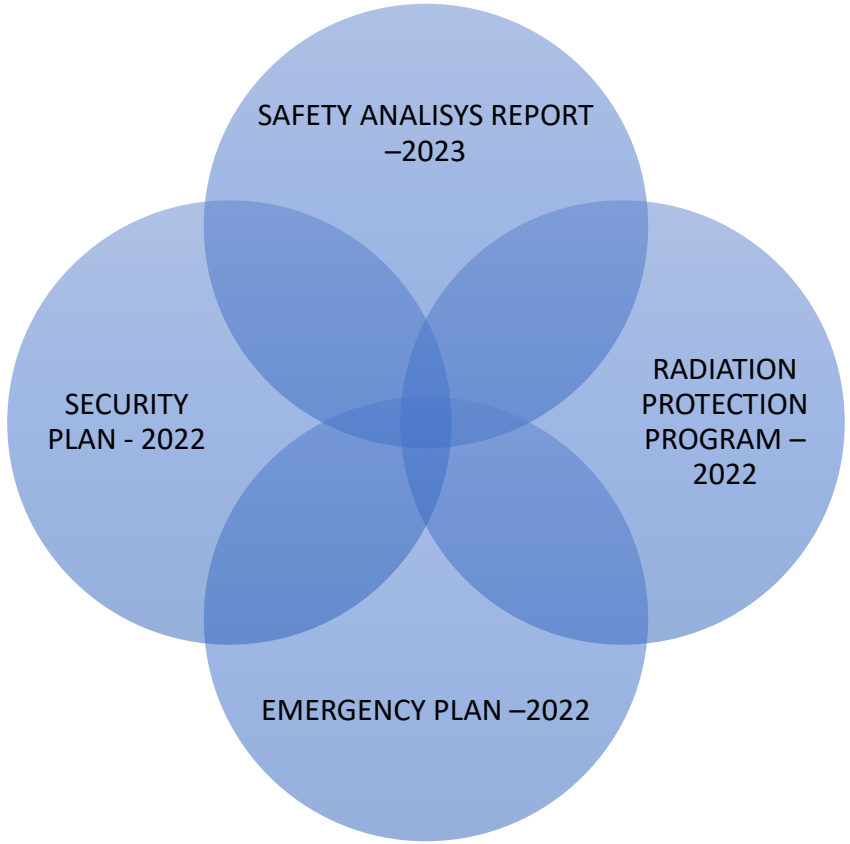
Located in and operated : Malaysian Nuclear Agency, Bangi, Selangor

Project Agreement: **INFCIRC/287 (**22 September 1980)

Fuel: UZrH (19.9% enriched) & Control Rod: Boron Carbide



REACTOR SAFETY PROGRAM



PERAKUAN

Adalah diperakui bahawa Program Perlindungan Sinaran ini adalah disahkan benar:.

Disediakan oleh:
Tandatangan :
Nama : SYED ASRAF FAHLAWI WAFA SYED MOHD GHAZI
Jawatan : PEGAWAI PERLINDUNGAN SINARAN
Tarikh : 1/8/22

Disemak oleh:
Tandatangan :
Nama : DR. ROSLI BIN DARMAWAN
Jawatan : ORANG BERTANGGUNGJAWAB TERHADAP LESEN (OBTL)
Tarikh : 1/8/2022

Disahkan oleh:
Tandatangan :
Nama : DR. ROSLI BIN DARMAWAN
Jawatan : ORANG BERTANGGUNGJAWAB TERHADAP LESEN (OBTL)
Tarikh : 1/8/2022

Kelulusan Lembaga Perlesenan Tenaga Atom (AELB):

☐ DILULUSKAN-Program I dikemaskini dari semasa ke apabila diarahkan oleh AELI

☐ TIDAK DILULUSKAN-Pro mana catatan oleh AELB

PERAKUAN

Adalah diperakui bahawa Pelan Kecemasan Radiologikal dan Nuklear ini adalah disahkan benar:.

Disediakan oleh:
Tandatangan :
Nama : SYED ASRAF FAHLAWI WAFA SYED MOHD GHAZI
Jawatan : PEGAWAI PERLINDUNGAN SINARAN
Tarikh : 1/8/22

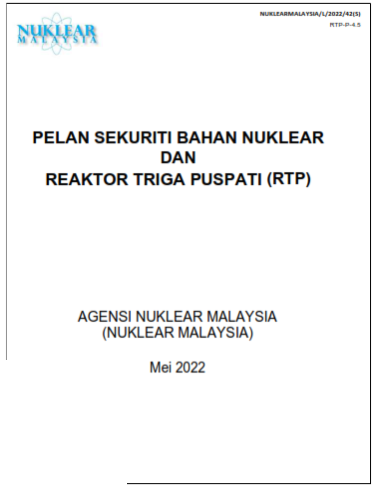
Disemak oleh:
Tandatangan :
Nama : DR. ROSLI BIN DARMAWAN
Jawatan : ORANG BERTANGGUNGJAWAB TERHADAP LESEN (OBTL)
Tarikh : 1/8/2022

Disahkan oleh:
Tandatangan :
Nama : DR. ROSLI BIN DARMAWAN
Jawatan : ORANG BERTANGGUNGJAWAB TERHADAP LESEN (OBTL)
Tarikh : 1/8/2022

Kelulusan Lembaga Perlesenan Tenaga Atom (AELB):

☐ DILULUSKAN- Pelan Kecemasan Radiologikal dan Nuklear diterimapakai dan hendaklah dikemaskini dari semasa ke semasa sekiranya terdapat sebarang perubahan ataupun apabila diarahkan oleh AELB

☐ TIDAK DILULUSKAN- Pelan Kecemasan Radiologikal dan Nuklear perlu Pengemaskinian seperti mana catatan oleh AELB



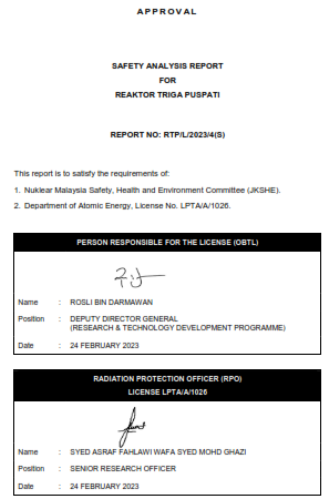
NUKLEARMALAYSIA/L/2022/42(S)
RTP/-P-4.5

NUKLEAR MALAYSIA

PELAN SEKURITI BAHAN NUKLEAR DAN REAKTOR TRIGA PUSPATI (RTP)

AGENSI NUKLEAR MALAYSIA (NUKLEAR MALAYSIA)

Mei 2022



APPROVAL

SAFETY ANALYSIS REPORT FOR REAKTOR TRIGA PUSPATI

REPORT NO: RTP/L/2023/4(S)

This report is to satisfy the requirements of:

1. Nuklear Malaysia Safety, Health and Environment Committee (JKSHE).
2. Department of Atomic Energy, License No. LPT/A/A/1026.

PERSON RESPONSIBLE FOR THE LICENSE (OBTL)

Name : ROSLI BIN DARMAWAN
Position : DEPUTY DIRECTOR GENERAL (RESEARCH & TECHNOLOGY DEVELOPMENT PROGRAMME)
Date : 24 FEBRUARY 2023

RADIATION PROTECTION OFFICER (RPO) LICENSE LPT/A/A/1026

Name : SYED ASRAF FAHLAWI WAFA SYED MOHD GHAZI
Position : SENIOR RESEARCH OFFICER
Date : 24 FEBRUARY 2023

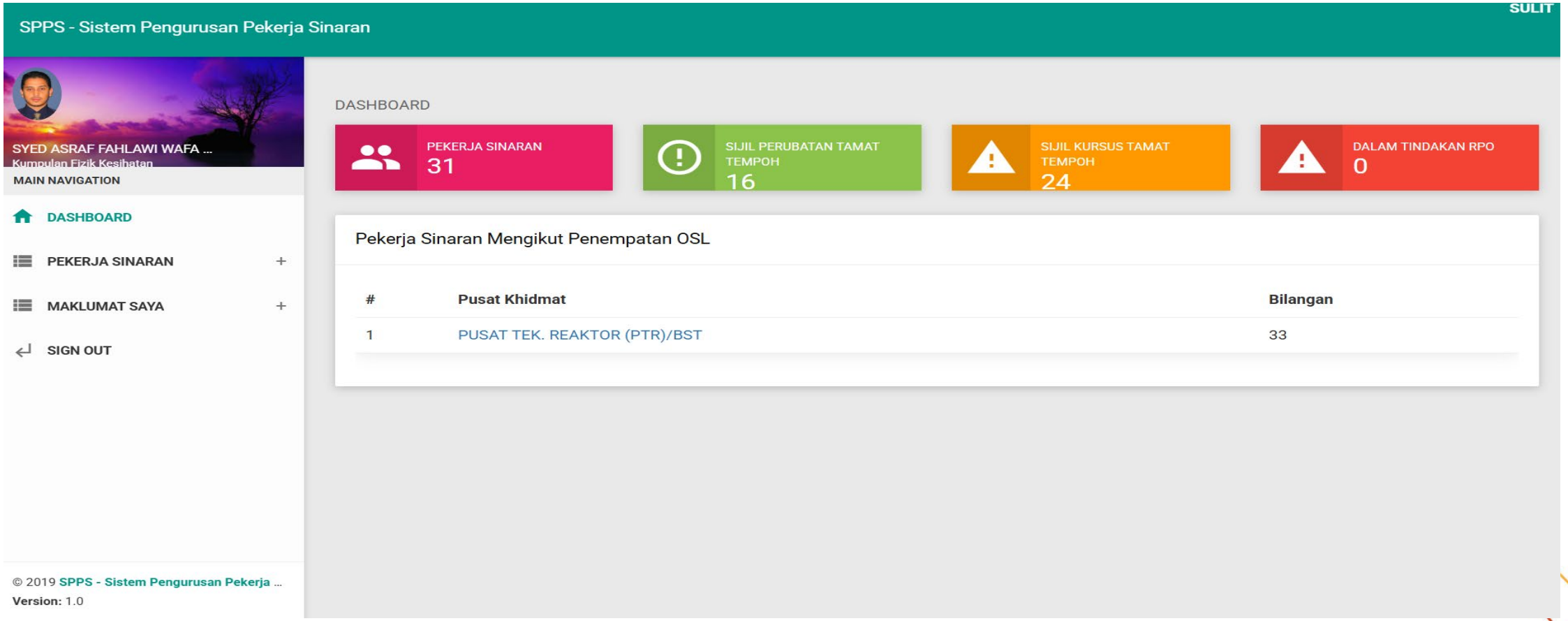
RADIATION CONTROL

1. RPO
2. Health Physic Group
3. Radiation Safety & Health Division

WORKPLACE MONITORING

1. PERSONNEL MONITORING

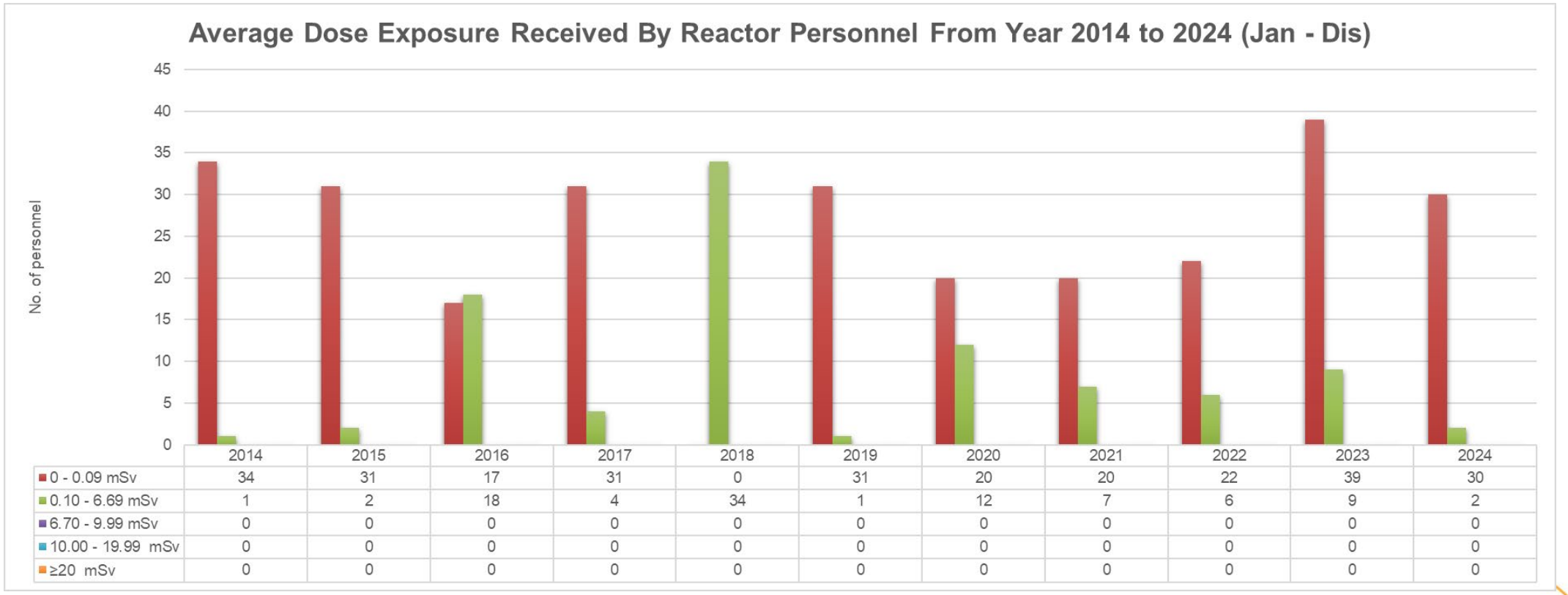
1.1 Radiation Employee Management System (SPPS)



WORKPLACE MONITORING

1. PERSONNEL MONITORING

1.2 Effective dose:-



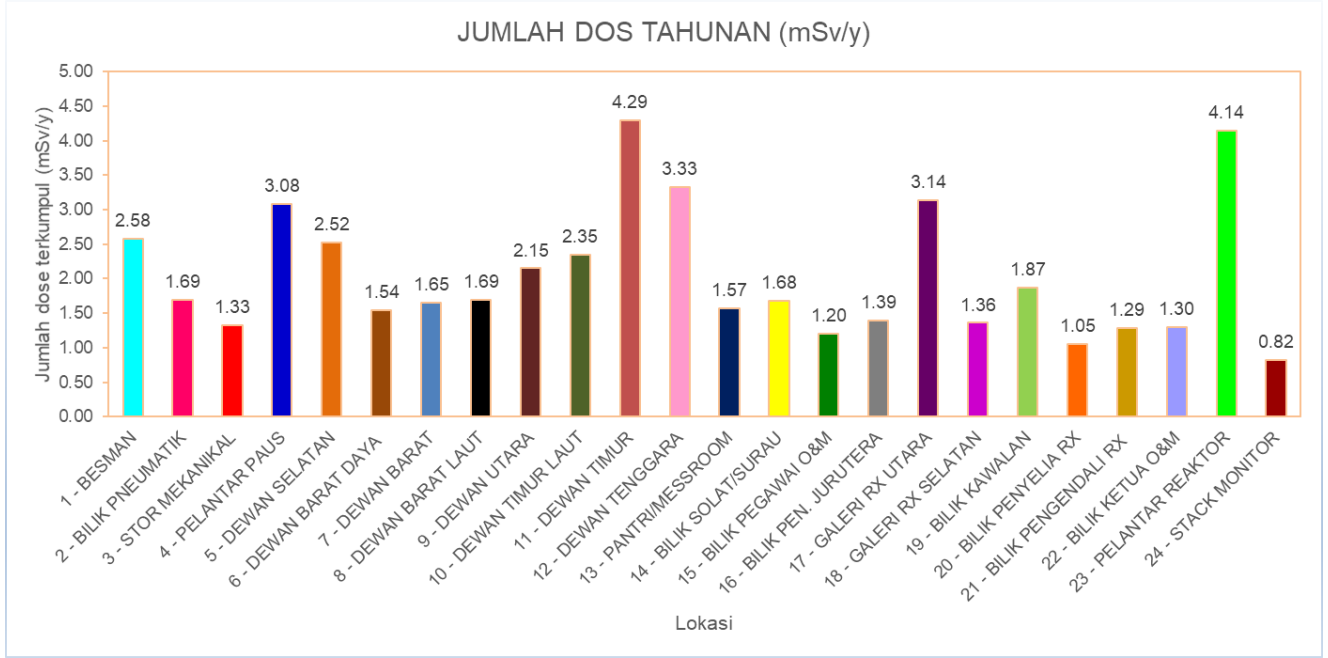
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
0 - 0.09 mSv	34	31	17	31	0	31	20	20	22	39	30
0.10 - 6.69 mSv	1	2	18	4	34	1	12	7	6	9	2
6.70 - 9.99 mSv	0	0	0	0	0	0	0	0	0	0	0
10.00 - 19.99 mSv	0	0	0	0	0	0	0	0	0	0	0
≥20 mSv	0	0	0	0	0	0	0	0	0	0	0

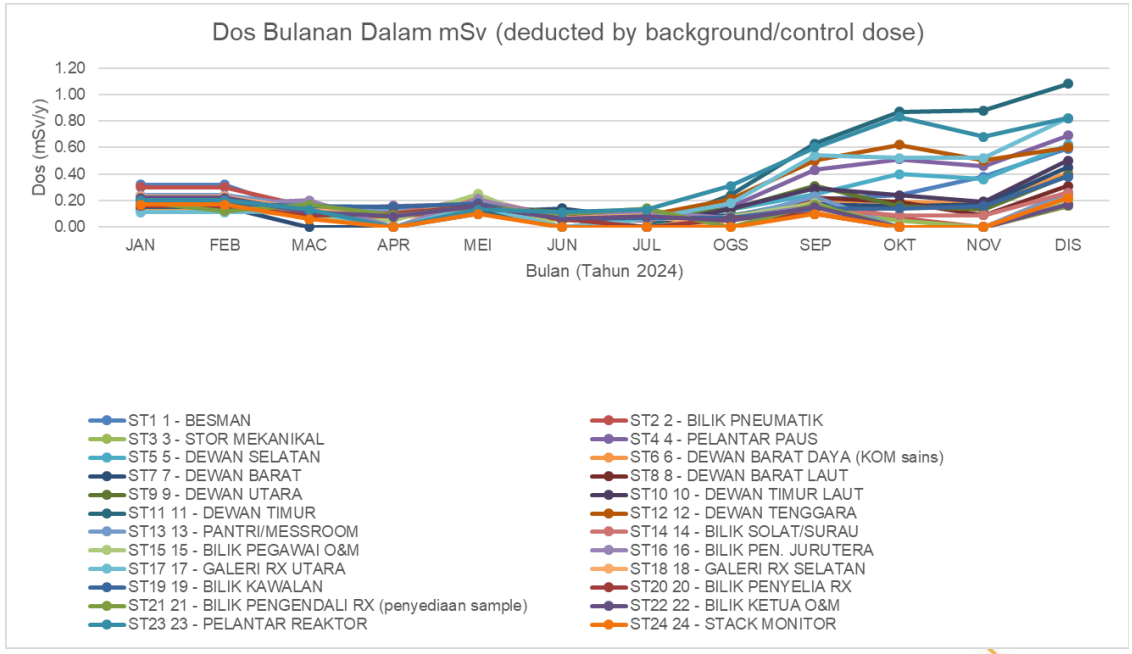
WORKPLACE MONITORING

2. AREA MONITORING

External Radiation Levels

- Measurement of radiation level inside reactor building using OSLD.





WORKPLACE MONITORING

3. EFFLUENT MONITORING

3.1 PARTICULATE

- AMOUNT OF RADIOACTIVE EFFLUENT RELEASED TO THE ENVIRONMENT IN 2024

Bulan	Kendalian (jam)	Tenaga Terbebas (kW jam)	Particulate		
			Kepekatan Radioaktiviti Tertinggi (Bq/m^3)	Purata Kepekatan Radioaktiviti (Bq/m^3)	Jumlah Pelepasan Radioaktiviti (Bq)
Januari	24.67	0.143	2.84	1.91	1,645,309.71
Februari	27.02	8670.96	2.70	2.31	1,977,086.99
Mac	0	0	0	0	0
April	0	0	0	0	0
Mei	0	0	0	0	0
Jun	0	0	0	0	0
Julai	0	0	0	0	0
Ogos	27.1500	8663.36	0.65	0.65	217,573.57
September	46.27	12344.44	1.47	0.57	712,974.27
Oktober	88.73	49461.78	0.61	0.20	370,357.53
November	59.62	26012.91	0.65	0.22	222,422.58
Disember	93.12	41008.34	1.03	0.43	1,095,862.55
Nilai Tahunan	366.57	146161.93	9.94	0.52	6,241,587.20

Had penggera: 5,000.00 Bq/m^3

WORKPLACE MONITORING

3. EFFLUENT MONITORING

3.2 IODINE

- AMOUNT OF RADIOACTIVE EFFLUENT RELEASED TO THE ENVIRONMENT IN 2024

Bulan	Kendalian (jam)	Tenaga Terbebas (kW jam)	Iodine		
			Kepekatan Radioaktiviti Tertinggi (Bq/m³)	Purata Kepekatan Radioaktiviti (Bq/m³)	Jumlah Pelepasan Radioaktiviti (Bq)
Januari	24.67	0.143	4.1191	1.2965	869,842.66
Februari	27.02	8670.96	6.7472	1.1205	921,382.50
Mac	0	0	0	0	0
April	0	0	0	0	0
Mei	0	0	0	0	0
Jun	0	0	0	0	0
Julai	0	0	0	0	0
Ogos	27.1500	8663.36	159.00	74.03	217,573.57
September	46.27	12344.44	188.00	52.60	712,974.27
Oktober	88.73	49461.78	321.00	161.01	370,357.53
November	59.62	26012.91	189.00	147.19	222,422.58
Disember	93.12	41008.34	170.00	108.63	1,095,862.55
Nilai Tahunan	366.57	146161.93	1,029.86	45.44	6,241,587.20

Had penggera: 5,000.00 Bq/m³

WORKPLACE MONITORING

3. EFFLUENT MONITORING

3.3 NOBLE GASES

- AMOUNT OF RADIOACTIVE EFFLUENT RELEASED TO THE ENVIRONMENT IN 2024

Bulan	Kendalian (jam)	Tenaga Terbebas (kW jam)	Noble Gases		
			Kepekatan Radioaktiviti Tertinggi (Bq/m^3)	Purata Kepekatan Radioaktiviti (Bq/m^3)	Jumlah Pelepasan Radioaktiviti (Bq)
Januari	24.67	0.143	403,761.20	91,921.16	151,944.38
Februari	27.02	8670.96	160,111.74	85,014.99	71,096.52
Mac	0	0	0	0	0
April	0	0	0	0	0
Mei	0	0	0	0	0
Jun	0	0	0	0	0
Julai	0	0	0	0	0
Ogos	27.1500	8663.36	405,805.00	186,736.00	129,761.68
September	46.27	12344.44	449,702.00	147,917.11	666,195.92
Oktober	88.73	49461.78	827,829.00	389,312.71	666,195.92
November	59.62	26012.91	493,179.00	390,447.91	392,383.26
Disember	93.12	41008.34	488,258.00	307,622.33	979,940.56
Nilai Tahunan	366.57	146161.93	3,000,712.71	131,479.63	2,936,855.27

Had penggera: 5,000.00 Bq/m^3

WORKPLACE MONITORING

Noble Gas	Kr-85, Kr-87, Kr-88, Xe-131, Xe-133, Xe-135
Halogens	I-131, I-132, I-133, I-134, Br-82
Alkali metal	Cs-134, Cs-137, Cs-138, Rb-88
Alkaline earth	Ba-140, Sr-89
Noble Metal	Pd-109, Tc-99, Te-125m, Fe-59, Rh-105, Sb-125, Ru-103, Te-127m, Te-129m, Mo-99, Mn-54, Fe-59, Co-60
Actinides	Am-241, Np/U-239
Refractory	Zr-95, Nb-95

2. RADIOACTIVITY MONITORING OF REACTOR TANK WATER

- carried out throughout the year to detect the presence of fission products
- Analysis from the Analytical Chemistry Application Group (ACA) confirmed that no fission products were detected

WORKPLACE MONITORING

4. ENVIRONMENTAL MONITORING

- Carried out inside and outside Nuclear Malaysia with a radius of 25 km from Nuclear Malaysia

WORKPLACE MONITORING

4. ENVIRONMENTAL MONITORING

4.1 Radioactivity of Environmental Samples

- Radionuclides Ra-226 & Ra-228 measured is the naturally occurring radionuclide found in the environment while radionuclides Cs-137 detected are caused from nuclear power plant accidents and past nuclear weapons testing activities.
- Overall, the average concentration of radionuclides measured is in range of radioactivity measured in previous years.

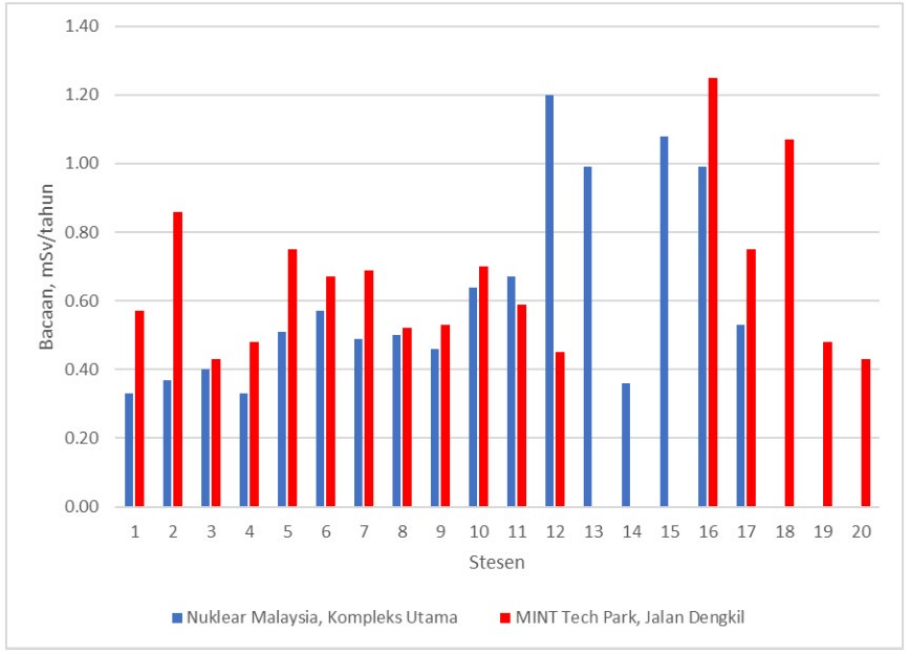
Jenis Pemantauan	Parameter yang akan dianalisis	Kaedah Pensampelan
Sampel Tanah	Analisis Makmal: ^{228}Ra, ^{226}Ra , ^{137}Cs	Sampel diambil menggunakan skop tanah dengan kedalaman 5 cm daripada permukaan tanah. Sampel diproses di makmal Alam Sekitar KFK,BKS. Sampel dianalisis di makmal RAS,BAS.
Sampel Sedimen	Analisis Makmal: ^{228}Ra, ^{226}Ra , ^{137}Cs	Sampel diambil menggunakan skop sedimen. Sampel diproses di makmal Alam Sekitar KFK,BKS. Sampel dianalisis di makmal RAS,BAS.
Sampel Flora	Analisis Makmal: ^{228}Ra, ^{226}Ra , ^{137}Cs	Sampel diambil menggunakan alat pemotong. Sampel diproses di makmal Alam Sekitar KFK, BKS. Sampel dianalisis di makmal RAS, BAS.
Sampel Air	Analisis Makmal: ^{228}Ra, ^{226}Ra , ^{137}Cs	Sampel yang diambil dihantar terus ke makmal RAS, BAS untuk proses sampel dan analisis.
Aras Sinaran Luaran	Dos Sinaran Luaran: mSv/tahun	Pemasangan OSLD di setiap stesen pemantauan dan dianalisis di Makmal SSDL.
Dos Berkesan (Orang Awam)	Dos Berkesan : µSv/6 bulan	Pengiraan dos berkesan untuk orang awam pada lokasi yang berbeza daripada reaktor.

WORKPLACE MONITORING

4. ENVIRONMENTAL MONITORING

4.2 External Radiation Levels

- Measurement of radiation level outside the building using Optically Stimulated Luminescence Dosimeter, (OSLD).



Dose distribution at monitoring stations for the year 2024 in the Malaysian Nuclear Agency area

External Radiation Dose for Areas Outside the Malaysian Nuclear Agency

Stesen	Lokasi	Dos (mSv/tahun)
1	Bandar Baru Bangi	1.25
2	Kajang	1.63
3	Bandar Seri Putra	1.28
4	Bukit Mahkota	1.26
5	Sungai Buah	0.35
6	Semenyih	1.38
7	Bandar Salak Tinggi	0.69
8	Southville City	1.65
	Min ± σ	**1.19 ± 0.45**

WORKPLACE MONITORING

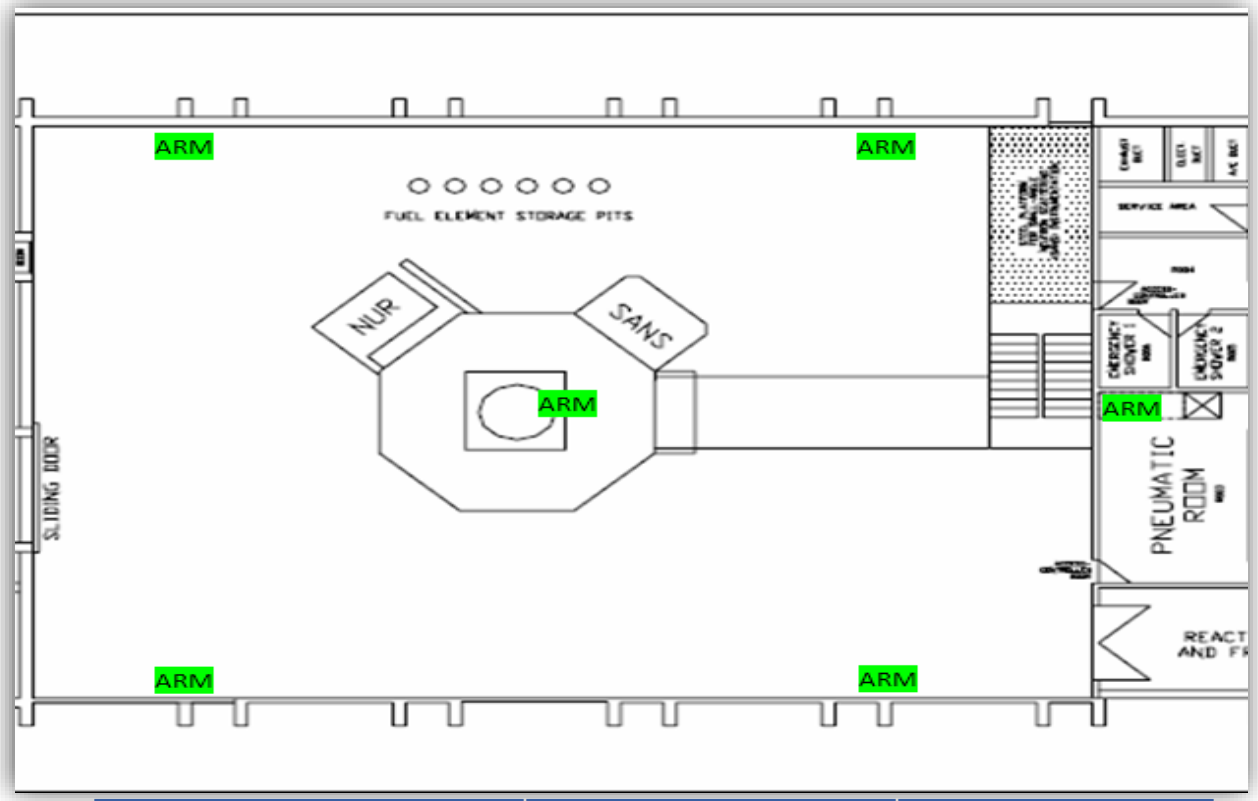
- Area radiation monitoring instrument (ARM) also known as a survey meter, acts to measure radiation level of the surrounding area where are they located.
- Located at several strategic places where the probability of radiation released is higher.

Reactor Hall	Control Room	Pneumatic Room	Basement

- It is designed with alarm (audio and visual), as an additional protection system. If unwanted radiation level detected, the alarm will be sounded automatically.

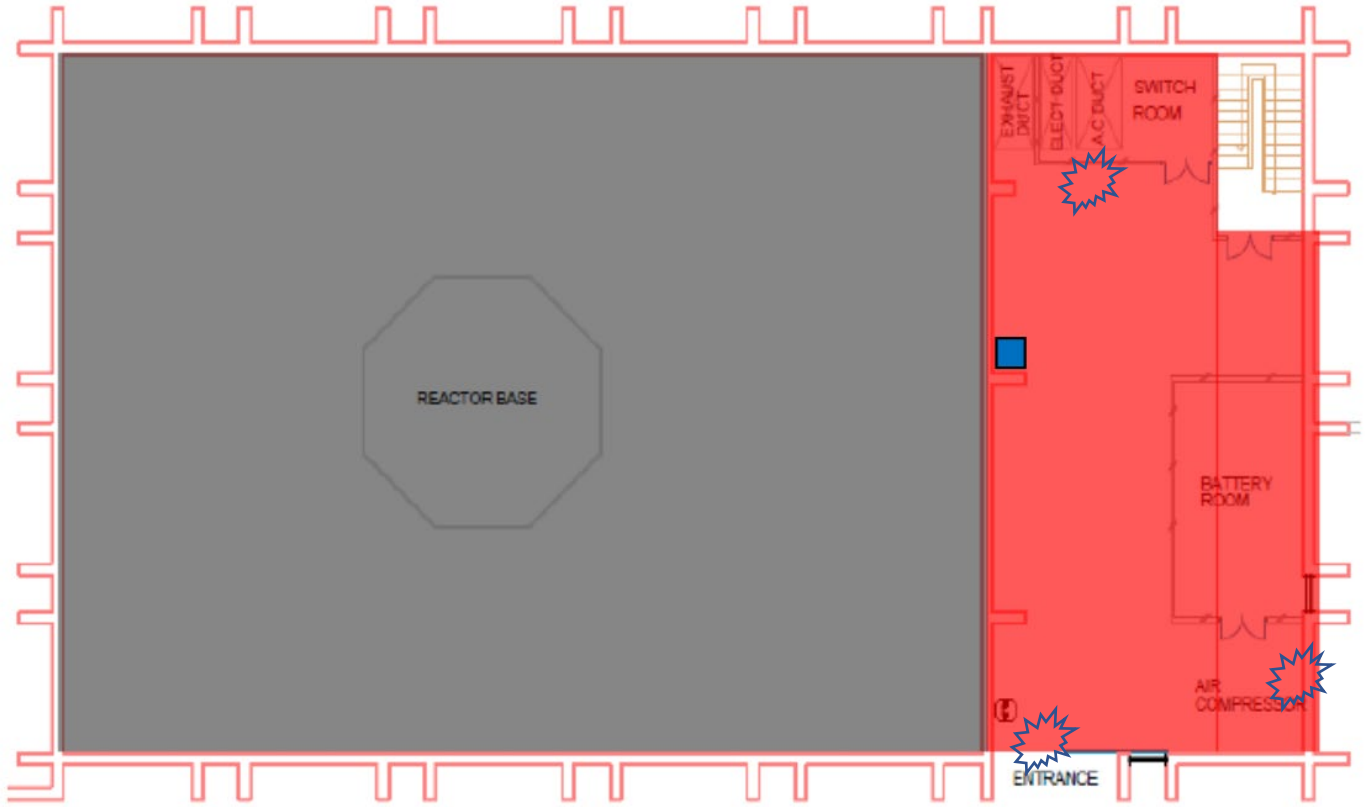
WORKPLACE MONITORING

ARM's location at reactor hall.



Location	Pre-Alarm (mSv/hour)	Alarm
Reactor Beam Ports	0.005	0.01
Reactor Pool Top	5	10
Reactor Control Room	0.005	0.01
Pneumatic Room	0.005	0.01
Basement (Cooling System)	0.1	0.2

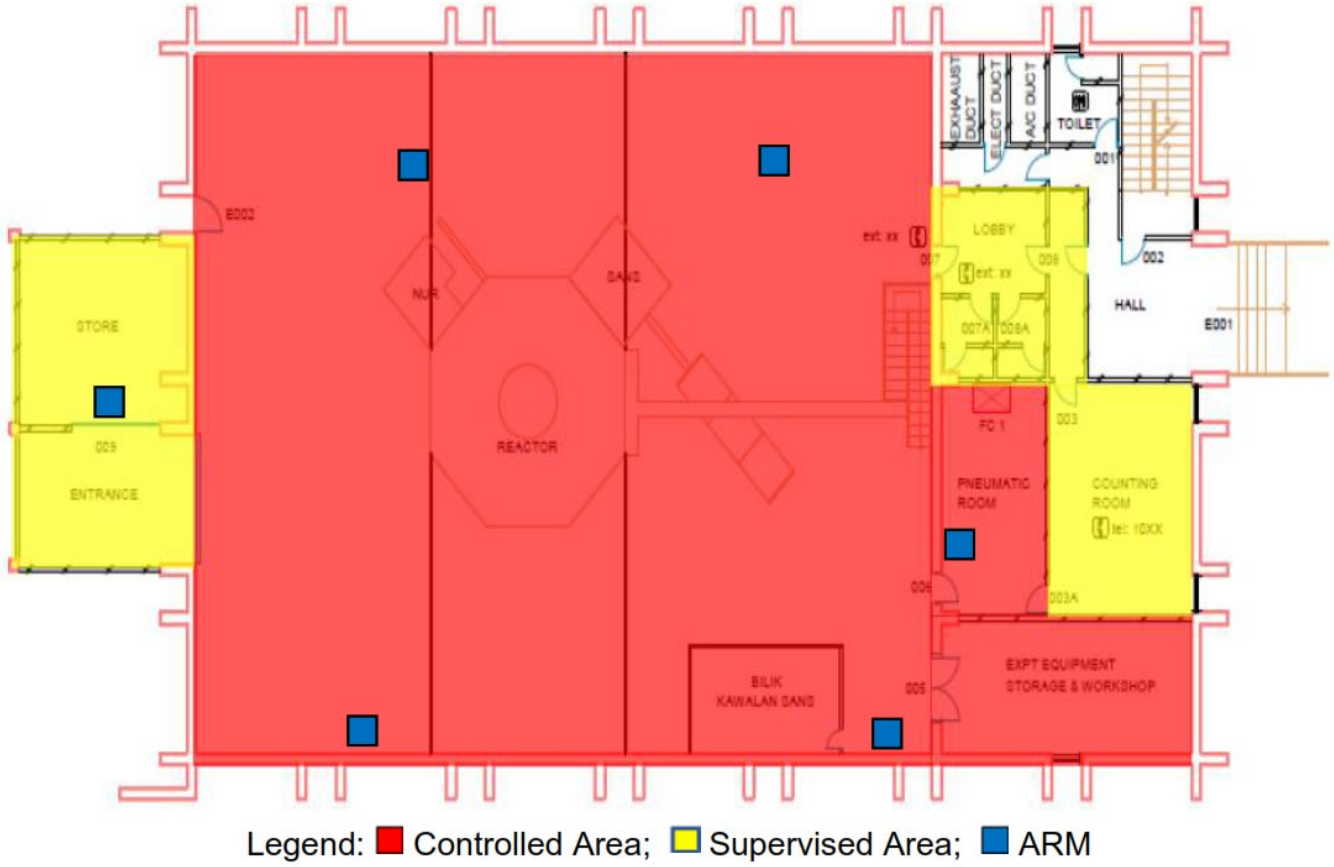
AREA CLASSIFICATION



Legend: Controlled Area; ARM; Not Applicable Area

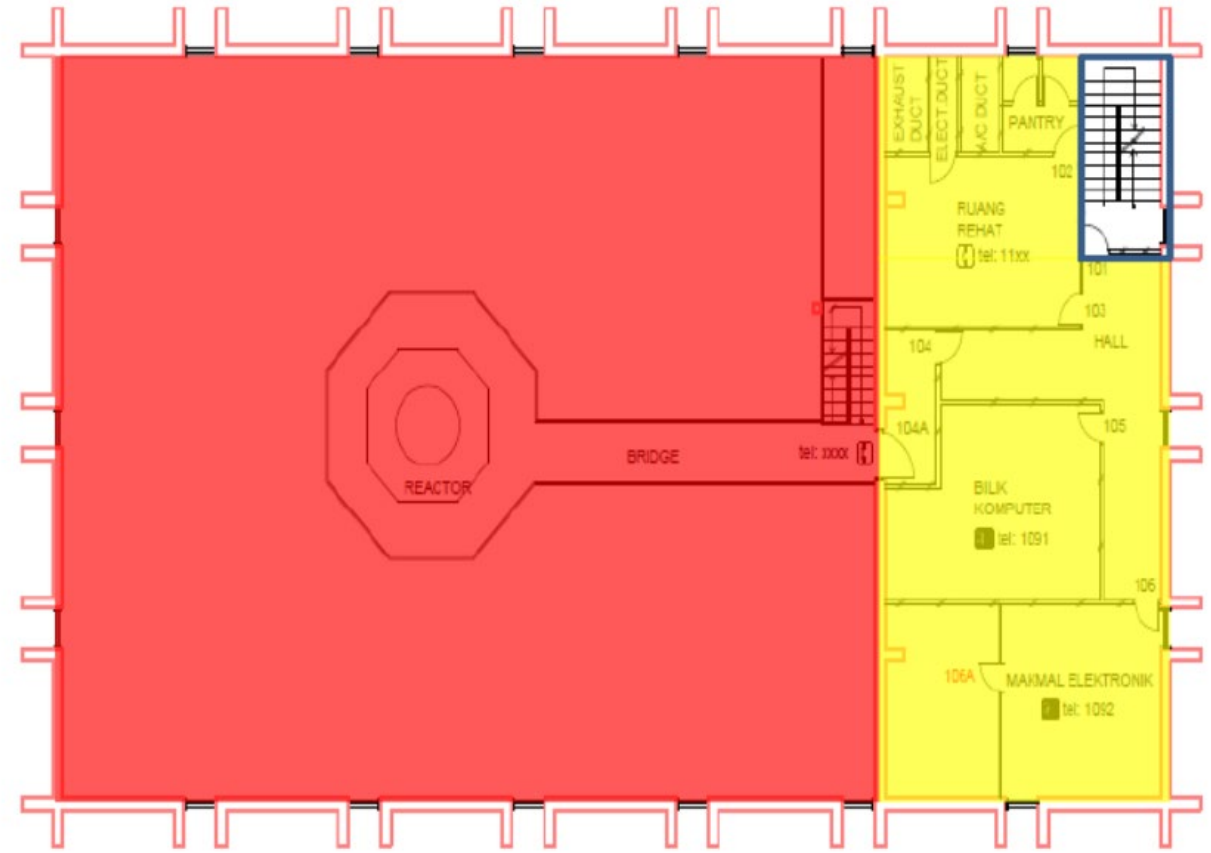
Location of controlled areas and Area Radiation Monitor (ARM) in the reactor building (Block 20) - Basement.

AREA CLASSIFICATION



Location of controlled areas and Area Radiation Monitor (ARM) in the reactor building (Block 20) – Ground Floor.

AREA CLASSIFICATION



Location of controlled areas and Area Radiation Monitor (ARM) in the reactor building (Block 20) – First Floor.

AUDIT AND REVIEW PROGRAMME

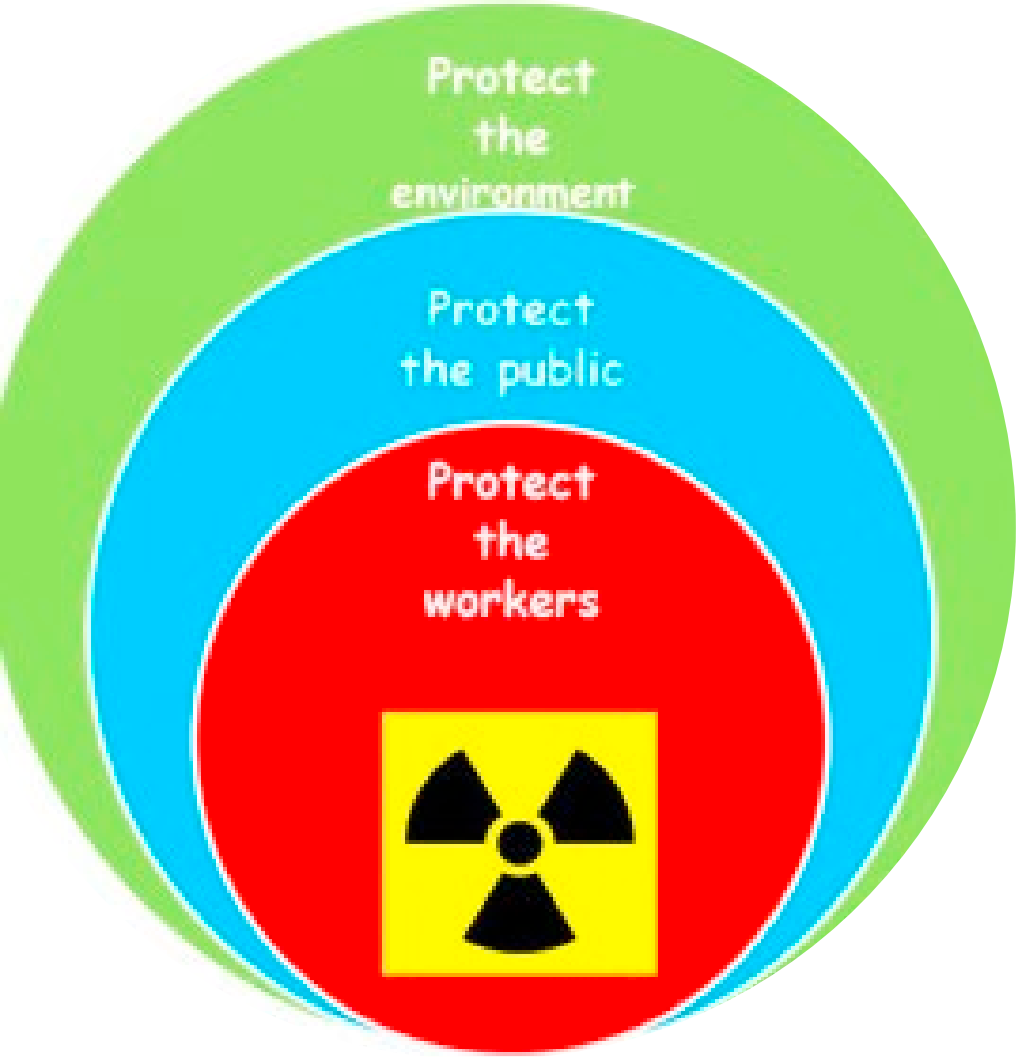
- Safety audit is carried out once a year by members of the Audit Subcommittee (JKA) appointed by the Director General of Nuklear Malaysia with recommendation of the SHE Committee.
- Audits are carried out to determine adequacy of the safety system, facilities and procedures and compliance of the practices with the SHE manual.
- An audit report is prepared by the Audit Committee at the end of audit exercise and presented to the SHE Committee for taking corrective actions and improvement.
- the review of the programme will only be done when necessary as well as if there are changes to be made.

AUDIT AND REVIEW PROGRAMME

NUKLEAR MALAYSIA	AUDIT JKA - SHEMS **LAPORAN RUMUSAN AUDIT**	No. Dokumen : JKA/F05 Tarikh isu: 20 Jun 2012 Bil. Pindaan: 1

Makmal/Loji/Kemudahan: **Reaktor TRIGA PUSPATI**
Tarikh Audit: **03/09/2024**
Skop Audit: **Audit Keselamatan Kemudahan Reaktor**
Standard/ Peraturan: **Safety Audit on Reaktor TRIGA PUSPATI, Pematuhan SHEMS Agensi Nuklear Malaysia (Rujuk http://localweb.nuclearmalaysia.gov.my/eshems/)**
Auditee/Pegawai Bertanggungjawab: **En. Ridzuan Abdul Mutalib (Ketua Seksyen O & M)** *Auditee lain yang terlibat boleh dirujuk dalam senarai kehadiran audit.
Senarai Juruaudit: **1. En. John Konsoh Sangau (Ketua Juruaudit)** **2. En. Mohamad Suhaimi Yahaya** **3. Pn. Nur Khairunisa Zahidi** **4. Dr. Nurul Elma Sabri** **5. Pn. Nurul Nazeerah Juraimi**
Bilangan Ketidakpatuhan: ☐ NCR Sangat Serius ☐ NCR Serius **2** NCR Kurang Serius **6** Pemerhatian

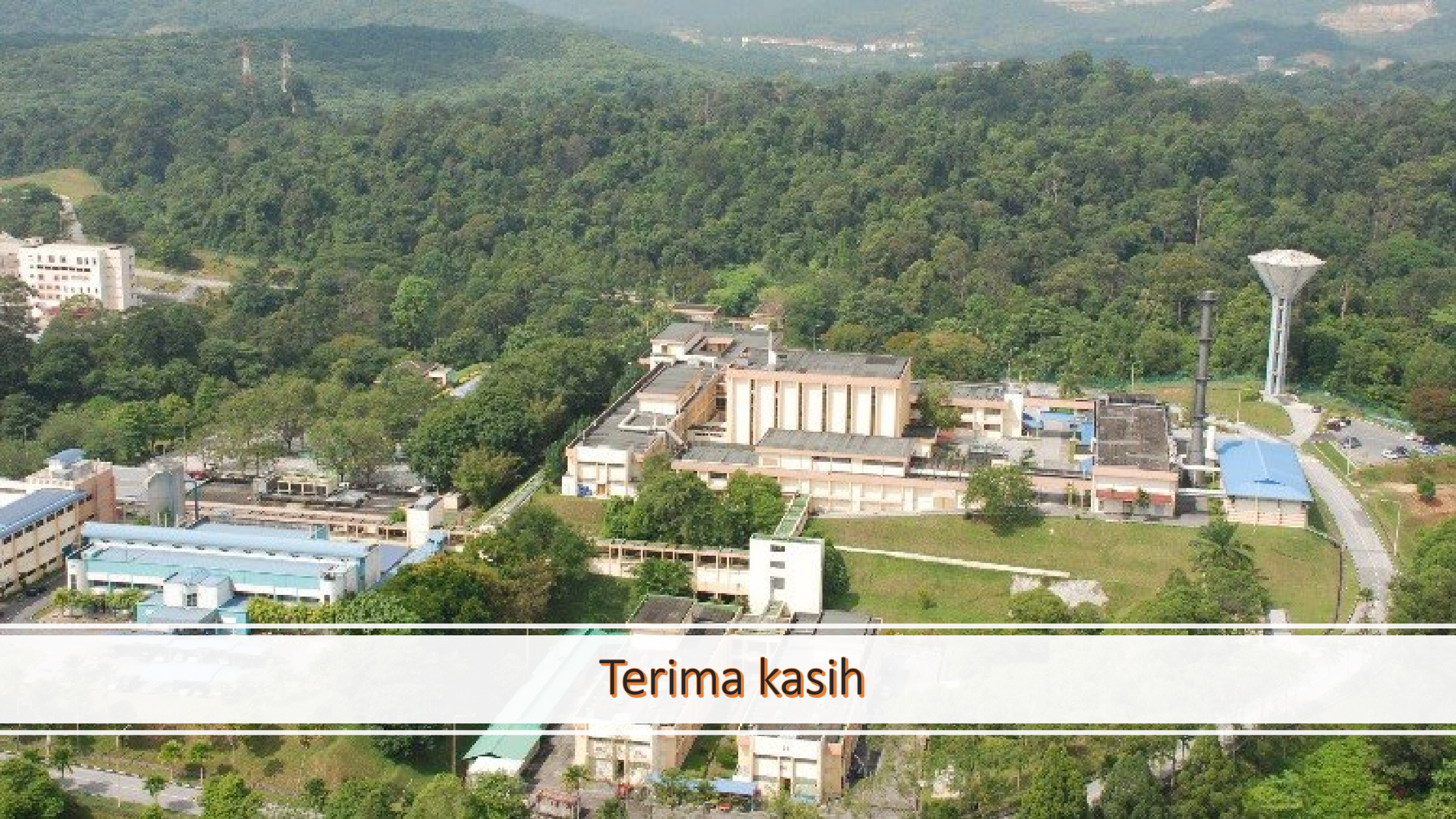
SUMMARY



The TRIGA PUSPATI Research Reactor in Malaysia operates under a comprehensive Safety, Security, Health, and Environmental Management System (SHE-MS) with a strong commitment to protecting workers, the public, and the environment. This is achieved through adherence to a robust legislative framework and the Malaysian Nuclear Agency's Occupational Safety, Health and Environmental Policy.

Extensive monitoring programs are in place to ensure safety and environmental protection.

Regular safety audits are conducted to ensure the adequacy of safety systems and procedures, with findings leading to corrective actions and improvements[10].



Terima kasih