

CHECKLIST FOR APPLICATION OF CLASS A (MILLING)

Class A Licences in respect of the milling of materials containing or associated with radioactive material consist of i) Siting Licence, ii) Construction Licence, iii) Temporary Operation Licence and iv) Full Operation Licence

No.	Information required	Stages of licence					
		Siting	Construction	Temporary Operation	Full Operation		
					New	Amend	Renewal
A.	Organization & Administration:						
1.	A Letter of intent giving details of the activity to be undertaken	/	/	/	/	/	/
2.	Details of company profile: company's name, telephone no., fax no., mailing address and company address	/	/	/	/	/	/
3.	Person responsible for the licence (OBTL). Please attach the company organization chart. [Please submit Form 49]	/					
4.	Copy of registration certificate (Form 9) [Please submit Form 9]	/		/			
5.	Letter of undertaking from Approved Registered Medical Practitioner, ARMP [Download from AELB website at http://www.aelb.gov.my]	/					
6.	Copy of written agreement from recognized agency by AELB to be the consultant and to carry out the monitoring.	/					
7.	Copy of written agreement / approval from the land owner or local authority.	/					
8.	Project Milestone program	/					
B.	Radiation Workers:						
1.	For certification as Radiation Protection Officer (RPO)/ Radiation Protection Supervisor (RPS), please submit: a) Copy of RPO examination result (TENORM) from AELB or agency certified by AELB b) Radiation workers biodata form LPTA/BPS [Download from AELB website at http://www.aelb.gov.my] c) Copy of medical check-up result [LPTA/BM/5: Section A] d) Copy of radiation protection course organized by agencies recognized by AELB [in recent 3 years]. e) Fee for RPO/RPS card of RM 5.00 and 2 set of passport size photos			/			
2.	For certification of Radiation workers (TENORM), please submit required information from part 1.B1(b) until 1.B1(d) as above mentioned.			/			
3.	Termination process must be approved by AELB prior to employing the RPO/Supervisor/radiation workers if he has been employed before.			/			
4.	If the company is unable to provide the RPO, a consultant has to be appointed from company certified by AELB			/			

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C.	Survey Meter:						
1.	Copy of survey meter calibration certificate from any agency certified by AELB			/	/	/	/
2.	Proof of purchase of survey meter (if not in possession)			/			
D.	Radiation Protection Program (RPP):						
1.	Submission of Radiation Protection Program (RPP) – refer LEM/TEK/45 (PART E) [refer AELB website at www.aelb.gov.my]			/		/	
2.	Ensure that the program has been approved by AELB and being implemented by the company [please specify the date program implemented]			/	/	/	/
3.	RPP needs to be reviewed or otherwise (refer AELB)			/	/	/	/
E.	Investigation and prosecution status:						
1.	Under investigation by AELB			/	/	/	/
2.	Commits an offence under Act 304			/	/	/	/
F.	Information required for a 'Siting Licence':						
1.	A description of the proposed installation and the activities.	/					
2.	Physical characteristic of the site: geology, hydrology, meteorology, seismology, flora, fauna and aquatic biota. (RIA)	/					
3.	Population distribution around the site, including the future trend of the population growth and the distance of the population centre from the site (RIA)	/					
4.	The existing land use of the site and around the site (RIA)	/					
5.	An assessment of the environmental impact from the normal operation of the proposed installation including a preliminary analysis of the radiation hazard foreseen	/					
6.	Radiological and Environmental Monitoring Programme (baseline data) [for 12 consecutive month in one year calendar & final conclusion report after the period of 12 month of monitoring]	/					
7.	A description of the storage facilities (for storage of raw material and radioactive waste materials on the site)	/					
8.	A statement on flood control and the method of controlling the movement of water in the existing water ways (if any)	/					
9.	A description on 'Radioactive Waste Management	/		/*	/*	/*	/*

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	Plan' (* if there is any changes)						
10.	Security Plan	/		/*	/*	/*	/*
G.	Information required for Decommissioning Plan						
1.	A description of the Decommissioning Plan, its rationale and a plan for Post-Operational Monitoring.	/					
H.	Additional Information required for a 'Construction Licence':						
1.	General layout and detailed plan and design of the facility, including its conceptual safety design. [All layout plan and design including as-built drawing must be approved by the registered Professional Engineer (P.E)]		/				
2.	A description of the foreseen radiation and chemical hazards to the workers and public during normal operation, taking into account the anticipated chemical and physical characteristics and radioactive contents of all the effluents to be discharged and emissions from the facility.		/				
3.	A statement with respect to potential accidents and unscheduled releases of wastes and hazardous materials from the facility and shall include: a) A statement of conditions which could lead to accidents and unscheduled releases of waste and hazardous materials b) A statement of probable effect of such accidents and releases on the health and safety of workers and members of the public and on the environment c) A statement on the programme for inspection and maintenance proposed to prevent the occurrence of such accidents and releases d) A statement on the emergency plan and preparedness programme and mitigative measures to deal with such accidents and release		/				
4.	Proposed dust control system		/				
5.	A description of the measures designed to control mill site drainage		/				
6.	Information on the grade and quantities of the materials to be processed and if the materials are to be imported, the average monthly of yearly quantities to be imported		/				
7.	A detailed engineering plan of water diversion and treatment facilities and detailed monitoring plans		/				

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	and contingency measures for the construction phase of the facility						
8	Detailed flow sheet including a calculation of the input and output of materials and water balance and a description of the sump system including its capacity		/				
9	Information of all structures and equipment designed to control the quality and quantity of all effluents to be discharged and emissions from the facility		/				
10	Radiological and Environmental Monitoring Programme (baseline data)		/				
1.	Additional Information required for the 'Temporary Operation Stage':						
1	Any changes, in the material used or in the design, introduced during the construction of the installation.			/			
2	Description of the proposed measures to control radiation exposures, including the operational radiation monitoring programme for workers, members of the public and the environment together with a complete list of the supporting services and facilities. (RPP).			/			
3	Detailed medical surveillance programme (RPP).			/			
4	Programme for the initial and periodic training of workers on general safety and radiation protection (RPP).			/			
5	The facilities and equipment designed to contain spillage and the procedures to follow in handling spillage of radioactive material (RPP).			/			
6	The propose plan and procedures to prevent loss, theft or unauthorized use of radioactive material (RPP).			/			
7	Plan for operational monitoring of the quality and quantity of <u>effluents to be discharged and emissions</u> from the facility, including: a) frequency and points of sampling b) types of equipment and analytical methods to be used c) contingency plan in the event of abnormal results			/			
8	Description of the <u>proposed procedures</u> to prevent accidents and the <u>proposed contingency plan</u> in the event of an accident (RPP)			/			
9	The nominal daily and annual capacity of the mill,			/			

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	the anticipated recovery and the anticipated composition of mill feed, concentrate and tailings.						
10	Procedures for handling and storage of materials containing radioactive materials (RPP)			/			
11	The plan and programme for the stabilization for radioactive waste area		/				
12	Radiological and Environmental Monitoring Programme (baseline data)			/			
J.	Information required for the 'Full Operation Stage Licence':						
1.	<u>Safety Analysis Report (SAR)</u> which shall include: a) All valid information submitted for the 'Temporary Operation Stage Licence'; (G1-G12) and b) All new information and all changes to the plan, design and operation introduced following actual operation during the temporary operation stage, if any				/	/	
2.	Radiological and Environmental Monitoring Programme				/		/
K.	Other information						
1.	Report on Radiological & Environmental Monitoring Analysis Result *Pre-operational for 12 consecutive months	/*	/*	/*	/*		/*
2.	Project/Company timeline proposal		/				

References:

1. Atomic Energy Licensing Act 1984 (Act 304);
2. Radiation Protection (Licensing) Regulations 1986;
3. Radiation Protection (Basic Safety Standard) Regulations 1988;
4. Radiation Protection (Transport) Regulations 1989;
5. *Panduan untuk mendapatkan lesen daripada Lembaga Perlesenan Tenaga Atom bagi pengilangan bahan yang mengandungi atau yang berkaitan dengan bahan radioaktif – LEM/TEK/28;*
6. *Panduan penyediaan Program Perlindungan Sinaran bagi aktiviti TENORM – LEM/TEK/45 (BAHAGIAN E), 17Oktober 2001;*
7. Radiological Impact Assessment(RIA)/EIA – LEM/TEK/30, LEM/TEK/49 etc.;
8. Guidelines on Radiological Impact Assessment (RIA) Study Regards to TENORM Activities –LEM/TEK/41 (Draft 1), Nov. 2001;
9. Siting of Near Surface Disposal Facilities - Safety Guides;111-G-3.1; IAEA 1994;
10. Siting of Geological Disposal Facilities - Safety Guides;111-G-4.1; IAEA 1994 and
11. Site Evaluation For Nuclear Installations - Safety Requirements; NS-R-3; IAEA 2003;