NO.	QUESTION	ANSWER
1.	When did the radiological	For Lynas, the radiological monitoring started in late
	monitoring start?	2008 i.e. since Lynas gave AELB the letter of intent to
		build its facilities. AELB has continued to monitor
		since then. Lynas has to collect the background data
		and AELB will verify it. Even before Lynas, AELB
		was already monitoring Kuantan. AELB also has a
		few other monitoring stations including in Sri Aman,
		Sarawak and will be adding more such stations around
		the country.
2.	Apart from Lynas, are there	Yes, and even before the monitoring systems were
	other stations nationwide?	built, AELB was doing in-situ measurements. In-situ
		means direct measurements at that location.
3.	How many stations are there?	Seven stations are continuously monitoring but AELB
		also has other stations for in-situ measurement.
4.	Is there a station at the Lynas	There is one permanent station for continuous
	area?	monitoring in Lynas and another one in Kuantan.
		AELB also has officers stationed in Lynas to measure
		several locations at different times on a daily basis in
		order to determine whether there is seasonal shift. We
		have found that the radiation is higher during high tide
		and lower during low tide. This is due to the mass of
		the water that contributes to the daily radiation levels.
		Therefore, there is a seasonal variation.
5.	Has anyone outside AELB	AELB uses the services of a certified agency to
	verified the findings?	calibrate the equipment. The equipment is calibrated
		against international standards which are traceable to
		the primary standards of the US, Japan and the IAEA.
		Since the instruments are regularly calibrated, the

NO.	QUESTION	ANSWER
		readings are taken to be accurate. There are also other
		companies that are monitoring their premises as well.
		AELB will do a comparison against the data that is
		available.
6.	The YB Minister stated that the	It was not YB Menteri that had put in the condition; it
	government has suggested that	was the Atomic Energy Licensing Board. Yes, Lynas
	Lynas sends back their waste to	will need to provide the Letter of Undertaking that
	Australia. Do you think this is	they will accept the return of the residue to its place of
	possible?	origin, if necessary.
7.	Why are you only now talking	AELB has been diligently working unnoticed for
	about the radiological	many years, nobody had bothered to ask. AELB has
	monitoring when the Lynas	been doing this as a routine for 20 years to ensure that
	issue has been going on for so	the environment and workers are safe and secure.
	long?	AELB is monitoring the environment to establish the
		normal background reading so that should there be an
		allegation that there is high radiation in certain areas, it
		would be easy to ascertain whether it has inherently
		been high or it is as a result of certain activities in
		those areas. There are Uranium and Thorium in tin and
		iron so the background radiation level would naturally
		be higher in areas which have an abundance of those
		minerals. Many buildings in Perak and Selangor were
		built using sand from Uranium and Thorium-rich
		areas. AELB is looking at this very carefully. In
		collaboration with universities, AELB is monitoring
		some of the amang and tin tailing industries to see
		whether the workers and the activities have to be
		regulated.
8.	Were there any monitoring	The Atomic Energy Licensing Act 1984 and the Board
	programs during ARE?	were non-existent during ARE. There was only the

NO.	QUESTION	ANSWER
		Radioactive Substance Act 1968 which looks at the
		use of radioactive substance for medical purposes
		only. The IAEA had not set standards for mining
		activities that may produce or enhance Naturally
		Occurring Radioactive Material (NORM). There are
		differences between the ARE time and now. One of
		the reasons ARE closed down was because they were
		moving to China since it was cheaper to produce rare
		earth material in China.
9.	There is report that claims there	Firstly, there is no radioisotope in the plant and no
	are leakages in Lynas. Will	license has been issued. However, AELB will be
	AELB suspend the TOL while	investigating this allegation.
	investigating this?	
10.	Perhimpunan Hijau shows that	AELB has done its best. Perhaps the newspapers have
	all of AELB's efforts in	also failed to deliver information. One reporter who
	engaging the public have failed.	visited the old ARE plant wrote that she was surprised
		that there are no "No Trespassers" sign posted there.
		There have been allegations that AELB has not
		resolved the ARE issue when in fact, AELB has
		resolved it and has formally declared the site free of
		contamination. It has been returned to the state
		government. The final repository is in a remote area,
		away from population. AELB has tried to assure the
		public that things are under control. In the case of
		Lynas, AELB will continuously monitor the waste
		water and to make sure that it leaves the plant as water
		that is acceptable according to international standards,
		and not as contaminated water or industrial waste
11	XX71 / · · · · · · ·	water.
11.	What are included in the	AELB will sample water, soil and air, and measure

NO.	QUESTION	ANSWER
	sampling?	background radiation. Once Lynas becomes
		operational, monitoring will be further intensified. The
		frequency of sampling will also be increased.
12.	What is background radiation?	It's the natural radiation that is received by everybody
		continuously, even from sitting beside another person.
		For example, the background radiation level in Perak
		is 0.2 μ Sv/hr but here in the AELB office building, it
		is 0.3 μ Sv/hr. It is higher because of the nearby granite
		hills. So the radiation that we receive is from the rock,
		the soil and also from cosmic rays. This is
		background radiation and it is natural.
13.	The people in Kuantan have	AELB will respect any court that issues a summons
	taken this matter to court, how	against us. AELB also takes public interest into
	will AELB respond to this?	consideration. It is about ensuring people's safety and
		the standards that must be adhered to. If the claims are
		supported with facts and substance, AELB will take
		them very seriously.
14.	Is the radiological monitoring at	The radiological monitoring is conducted on a daily
	the reference point done on a	basis. AELB has at least four people on site that are
	daily basis?	monitoring the background reading on a daily basis for
		the last 18 months. The areas in Kuantan and Gebeng
		are slightly above the average for Malaysia but lower
		than here in Dengkil. We are constantly being exposed
		to natural radiation and in some professions, from
15	Despite all of AELD offerster	occupational radiation.
15.	Despite all of AELB efforts to explain, the protest will still go	AELB is independent of politics. In order to ensure
	on and it doesn't look like the	safety of the people, AELB's decisions are based on technical and scientific facts. The safety standards will
	momentum is waning. Does	remain as the guiding principles irrespective of
	AELB think this has become	political changes and the AELB will still be ensuring
	ABLD units this has become	pontical changes and the AELD will suit be elisuiting

NO.	QUESTION	ANSWER
	purely a political issue rather	and monitoring safety of the public and workers.
	than about safety?	
16.	Has AELB fulfilled all the	Yes and AELB intends to do more. Safety standards
	standards and safety	are reviewed from time to time. For instance, the dose
	measurements?	limit for a radiation worker was 50 mSv/yr but
		because it can be lowered, it has gone down to 20
		mSv/yr. The standards are improving with new
		instrumentation, better control of processes and the
		source, and more advanced technology.