

Inspection equipment provided as contribution in kind for the Integrated Field Exercise IFE14

Contributing Member State	Description of equipment provided	Approx. Value
Canada	 Air-borne gamma spectrometer and on-board 	USD 700.000
	processing system and auxiliaries	
	The system is used to search for and identify radiation	
	anomalies in the inspection area. During IFE14, the	
	equipment is available for use on board of a	
	helicopter.	
China	 XESPM Radioxenon sampling, separation and 	USD 2.900.000
	measurement system	
	 Moveable Argon-37 rapid detection system 	USD 350.000
	'MARDS'	
	These systems items are used for the processing and	
	analysis of samples from the atmosphere or soil-gas	
	for noble gases (Radioxenon and Argon) which are	
	strong indicators of a nuclear explosion.	
Czech Republic	 Thermal imaging infrared camera 	USD 15.000
	 Air-borne/car-borne gamma spectrometer 	USD 300.000
	The thermal imaging infrared camera is used airborne	
	or ground-based for detecting thermal signatures	
	which in the context of the geological features may	
	point to subsurface anomalies.	
	The gamma spectrometer is used to search for and	
	Identify radiation anomalies in the inspection area.	
	During IFE14, the equipment is available for ground-	
	based use and as a back-up for use on board of a	
II.un gours	Intercopter.	LICD 400 000
Hungary	Active seismic system	USD 400.000
	 Active seisinic system The hyperspectral sensor is used during overflights to 	03D 20.000
	sourch for spectral signatures (visible to short wave	
	infrared) such as from recent exposure of rock or	
	ground disturbances	
	The active seismic equipment is used during the	
	continuation period of an OSI to detect long-life	
	underground features such as an explosion induced	
	cavity, chimney and /or rubble zone.	
Italy	 HPGe handheld detector 	USD 150 000
itury	Geolectric system	USD 120.000
	 Proton magnetometer 	USD 25.000
	 Aeromagnetic platform with magnetometer and 	USD 180.000
	on-board processing unit	
	The detector is used for in-situ measurements to	
	search radiation anomalies and identify relevant	
	radionuclides.	
	The geophysical equipment (ground-based and	
	airborne) is used to detect anomalies or artifacts that	
	could be associated with a nuclear explosion.	

Contributing Member State	Description of equipment provided	Approx. Value
Japan	 HPGe handheld detector 	USD 200.000
	The detector is used for in-situ measurements to	
	search radiation anomalies and identify relevant	
	radionuclides.	
Sweden	 Nal detector 	USD 50.000
	 Gas injection manifolds incl. gas injection 	
	mechanisms, vacuum pumps and tubing	
	 Heating oven, spare parts and tools 	
	This equipment is used during IFE14 to facilitate the	
	implementation of a scientifically credible scenario by	
TT 1. 1 TZ1 1	control team.	
United Kingdom	 Mobile field laboratory (containerized) fully 	USD 400.000
	equipped including HPGe detectors, lab support	
	equipment and auxiliaries	
	The field laboratory is used to conduct analysis of	
	environmental samples (solids, liquids and gases)	
United States	collected in the inspection area.	UCD 100 000
United States	 Subsurface augering systems Transportable OSI laboratory containers (TOSIL) 	USD 100.000
	 Transportable Usi laboratory containers (TUSIL) Transportable Venen detection system 	USD 260.000
	- Transportable Action detection system	030 030.000
	 Photomultiplier tube base 	USD 10 000
	 Subsurface gas samplers 	USD 75 000
	 Substituce gas samplers Sodium iodide crystals 	USD 10 000
	 HPGe detector 	USD 140 000
	 HPGe handheld detector 	USD 90.000
	 High volume air samplers 	USD 35.000
	 Auxiliary items including tablet computer 	USD 15.000
	The transportable OSI laboratory containers are used	
	to house the noble gas processing and analysis	
	systems. The other equipment is used to conduct	
	collect and analye environmental samples (solids,	
	liquids and gases) collected in the inspection area	
	including analysis of radioxenon noble gas (TXL)	
	during an OSI.	
European Union (through Council	 Radioxenon field detection system (SAUNA) 	USD 2.000.000
Decision 2010/461/CFSP of 26 July	The equipment is used to detect radioxenon noble gas	
2010	isotopes that may be released as a result of a nuclear	
	explosion. It is a field tailored and improved version of	
	the radioxenon system used at IMS.	
European Union (through Council	 Multispectral imaging array 	USD 500.000
Decision 2012/699/CFSP of 13	The equipment is used in combination with other CiK	
November 2012	equipment to acquire information in different parts of	
	the spectrum, primarily in the visible and thermal	
	regions for identifying observables related to	
	preparatory activities related to an underground	
	nuclear explosion or features related to a detonation	
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