



IAEA Incident & Trafficking Database (ITDB)

IAEA information system on incidents of nuclear and other radioactive material out of regulatory control

INCIDENT NOTIFICATION FORM

☒ Initial Notification

ITDB Key: 2024-07-002

☐ Update on Previous Incident

WebINF Key: SAF-24-001

PART I – Basic Info and Material Involved

Information provided in Part I will be disseminated by the IAEA to all States participating in the ITDB programme and selected International Organizations.

Incident Date:	1 May, 2024	Country:	South Africa
Incident Type:	Theft	Location:	Cape Town
Malicious Use:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Latitude / Longitude:	-33.922 / 18.423
Trafficking:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Location Details:	Transport Depot, Caledon Street, Cape Town
Incident Group:	Group III		

Materials involved in the incident

NUCLEAR MATERIAL

Nuclear Material	Isotopic Content	Quantity	Chemical Description	Physical Form	Application
Depleted uranium	U-235	13 kg			Shielding

SEALED RADIOACTIVE SOURCES

Nuclide	Activity Level	Dose Rate	Additional Details <i>Device, Material Application, Notes</i>	Category (RS-G-1.9)
Ir-192	555 GBq		Application: Industrial - Radiography (gamma camera) Notes: EXETUS DUAL 120 PROJECTOR	3

ADDITIONAL COMMENTS ABOUT THE MATERIAL

MATERIAL RECOVERY / REGULATORY CONTROL

Based on the latest available information, was the material recovered, seized or otherwise placed under regulatory control? (please leave blank if not applicable)

☒ Yes ☐ Partially ☐ No

*If marked "Yes", the information provided in this section will be distributed to ITDB participating States.
If marked "No", the ITDB participant States will only receive the information provided in Part 1.*

☒ Yes ☐ No

The industrial Gamma Projector was reported stolen a week later from the canopy of the bakkie parked on the high security premises in the Transnet Depot at Caledon Street, Cape-Town. On the 1st May 2024 four armed men attacked security and broke into two bakkies parked at the premises and got away with the contents among them there was EXETUS DUAL 120 PROJECTOR with Ir-192 source (555 GBq) at the time). The source was found and was retrieved from the rubble at the Mega Metals scrap yard on 6 May 2024.

Unauthorized Cross Border Movement: ☐ Yes ☒ No ☐ Unknown
(fill out only if Border Detection is No)

☒ Information Alert ☐ Instrument Alarm

<input checked="" type="checkbox"/> Inventory check	<input type="checkbox"/> Inspection / Regulatory activity	<input type="checkbox"/> Inadvertent discovery
<input type="checkbox"/> Investigative lead / Tip-off	<input type="checkbox"/> Routine check / Random Search	<input type="checkbox"/> Other

☐ Customs / Border Guard
 ☐ Law Enforcement / Security Service
 ☐ Fire and Rescue Services
☐ Regulatory Body
 ☒ Operator/Licensee
 ☐ Non-Licensed Company
☐ Private Citizen
 ☐ Other

The source was detected by radiation portal monitor as truck was about to enter smelting company from the scrap metal.

LOCATION		
5. Please specify the characteristics of the last known facility/site/location in which the material was under regulatory control? <i>Leave blank if not applicable, otherwise select all options that apply.</i>		
<input type="checkbox"/> Nuclear R&D <input type="checkbox"/> Storage area <input type="checkbox"/> Industrial (Nuclear Fuel Cycle) <input type="checkbox"/> Aircraft/Airport area <input type="checkbox"/> Ship/Harbour area	<input type="checkbox"/> Non-Nuclear R&D <input checked="" type="checkbox"/> Vehicle <input type="checkbox"/> Industrial (Non-nuclear Fuel Cycle) <input type="checkbox"/> Train/station area <input type="checkbox"/> Unknown	<input type="checkbox"/> Military <input type="checkbox"/> Waste or dump <input type="checkbox"/> Process/use location <input type="checkbox"/> Medical <input type="checkbox"/> Other
Additional information about the facility, site or location where the material was under regulatory control High security area with security guards and CCT cameras.		
THEFT CHARACTERISTICS <i>Only relevant for Theft incidents</i>		
6. What were the characteristics of the theft?		
<input type="checkbox"/> The material was the only item stolen <input checked="" type="checkbox"/> The material was stolen along with non-nuclear/non-radioactive items <input checked="" type="checkbox"/> The material was stolen from the vehicle in which it was transported/stored <input type="checkbox"/> The material was stolen along with the vehicle in which it was transported/stored <input checked="" type="checkbox"/> The theft involved a threat, use of force or another form of intimidation <input type="checkbox"/> The stolen material was, or probably was, the intended target <input type="checkbox"/> Other		
Additional details about the theft None		
MATERIAL RECOVERY <i>Only relevant for Theft, Loss or Missing incidents when material has been recovered</i>		
7. Please describe the circumstances of the material recovery		
What type of entity/organization found the stolen, lost or missing material? <i>(select only one)</i>		
<input type="checkbox"/> Customs / Border Guard <input type="checkbox"/> Regulatory Body <input type="checkbox"/> Private Citizen	<input type="checkbox"/> Law Enforcement / Security Service <input type="checkbox"/> Operator/Licensee <input type="checkbox"/> Other	<input type="checkbox"/> Fire and Rescue Services <input checked="" type="checkbox"/> Non-Licenced Company
How was the recovered material detected? <i>(select only one)</i>		
<input type="checkbox"/> Investigative Lead <input type="checkbox"/> Electronic Tracking	<input type="checkbox"/> Inadvertent Discovery <input checked="" type="checkbox"/> Other	<input type="checkbox"/> Search
Additional information on how the material was recovered <i>Please provide any additional relevant information on how the material was recovered</i>		
The source was found and was retrieved from the rubble at Mega Metals scrap yard on 6 May 2024		
MATERIAL MOVEMENT		
11. Is there any information pertaining to the transport route including its intended destination and mode of transport?		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable		
OTHER INFORMATION		

12. Please provide a description of any associated container, packaging and/or labelling. Industrial Gamma Projector
13. If an analysis of the material was made, please identify the laboratory at which this was performed. If possible provide the type of measuring equipment used Nuclear Energy Corporation South Africa (NECSA) loaded the Ir-192 source (1386 GBq; 31 Jan 2024) on the projector
14. Please describe any criminal charges, convictions or any enforcement actions resulting from the incident. Embargo was placed on the company authorization. Additional conditions were added on their licence.
15. Additional information and comments. Yes, regulator has requested corrective actions to be addressed by the responsible company, no indication that this incident is related to another ITDB incident.
<div><div>Phineas Mahlangu</div><div>_____</div><div>Authorised Person Submitting Notification</div></div> <div><div>12 July, 2024</div><div>_____</div><div>Date</div></div>