

## WORKSHOP

# The Security of Gamma Irradiation Facilities

11 NOVEMBER 2022

Avani+ Riverside Bangkok Hotel, Thailand

### Background

The radiation processing industry, which includes gamma irradiation facilities, is mature, heavily regulated and has an exemplary safety and security record. Nonetheless, radioactive cobalt-60 sources used for gamma irradiation do have the potential to cause great harm if they are not properly managed.

Gamma irradiation facilities operate under varying legal and regulatory frameworks and have their own internal arrangements and procedures. Meanwhile, threats, such as terrorism or a cyberattack, have evolved in recent years, and it is important that security arrangements are assessed and updated on a regular basis. There is a need for the radiation processing industry to take note of international best practices and operational experience.

The International Irradiation Association (iia) and the World Institute for Nuclear Security (WINS) have organised a workshop at the 20th International Meeting on Radiation Processing on the Security of Gamma Irradiation Facilities Used for Radiation Processing.

### Objectives

The objectives of the workshop are to share experience from strengthening gamma irradiator security by encouraging participants to discuss their lessons learned, good practices and remaining challenges in designing and implementing security arrangements for these facilities. In particular, it will be an opportunity to review credible threats to the radioactive sources in use at gamma irradiation facilities and review various approaches for mitigating the radiological security risk.

The event will discuss the importance of a robust organisational structure for security, key physical security features and the role of security awareness and culture amongst staff and managers. It will also explore evolving aspects of radiological security and will include presentations and discussions on innovative topics such as pool obscurant as extra layers of protection and cybersecurity measures for IT and OT systems.

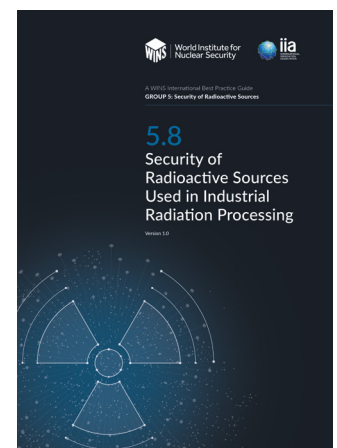
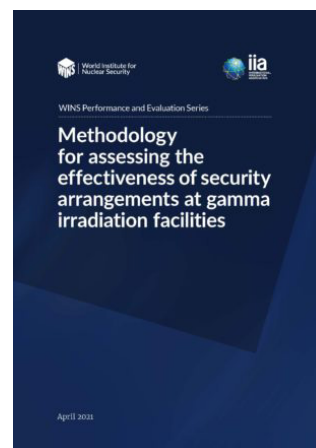
### Audience

The workshop is open to all organisations and individuals involved in the security of gamma radiators. Workshop costs will be met by WINS. No registration fee is required. Participants will be expected to meet their own costs for travel and accommodation. They will also be responsible for obtaining any visas and meeting all requirements for travel to Thailand.

### Process

The event will be interactive, with presentations from security experts, Q&A with irradiator operators, small group discussions to share experience, and electronic voting throughout the workshop.

Check out WINS/iia publications, *Methodology for assessing the effectiveness of security arrangements at gamma irradiation facilities* and Best Practice Guide 5.8 *Security of Radioactive Sources Used in Industrial Radiation Processing* available online, free to WINS members.



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