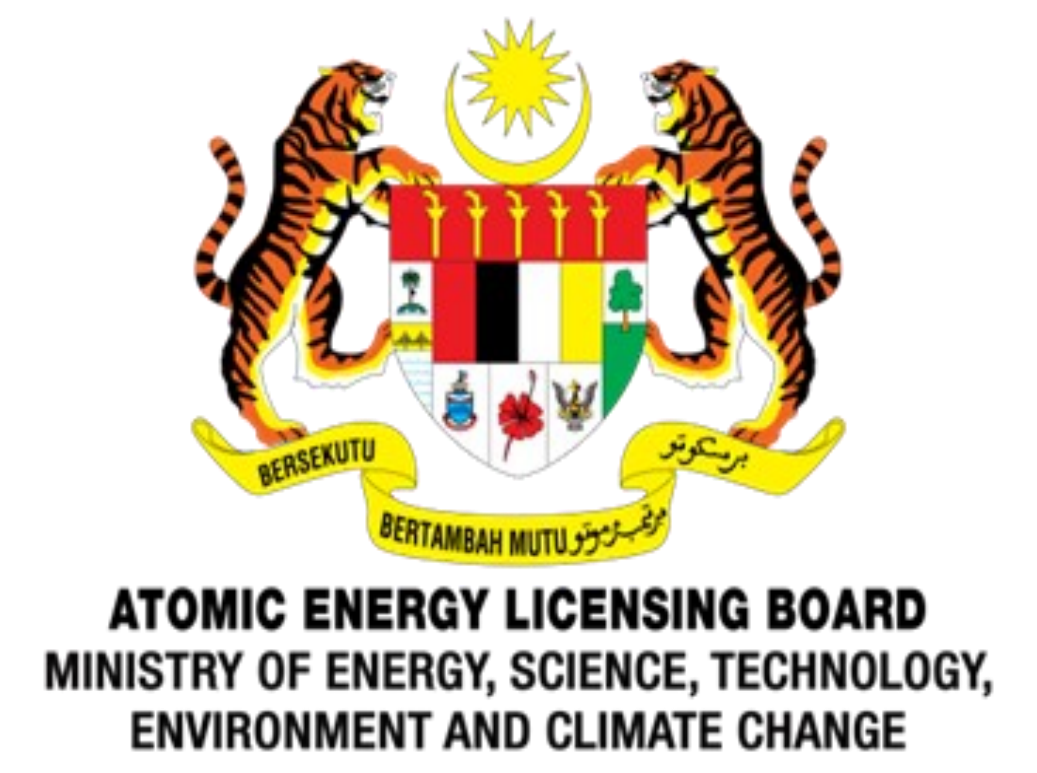


IAEA
International Atomic Energy Agency

Physical Protection Laboratory Roles and Function in Strengthening National Nuclear Security Strategy in Malaysia

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INTRODUCTION



The Atomic Energy Licensing Board (AELB) seek to strengthen the capabilities and knowledge in nuclear security through the enhancement of roles and functions of our national Nuclear Security Support Centre (NSSC) with the support and cooperation from the International Atomic Energy Agency (IAEA). Through this effort and cooperation, a Physical Protection Laboratory for Radioactive Sources facilities was established at the AELB's Headquarters (the "Laboratory"). The laboratory is expected to expand Malaysia's NSSC capabilities in providing better and practical training on physical protection for authorised facility.

AIM & APPROACH

The laboratory is equipped with nuclear security instruments to fulfil the objectives of the physical protection system (PPS) in preventing sabotage and/or theft of nuclear materials and other radioactive materials at the facility.

The installation at the laboratory will provide practical and hands-on guidance in order to accomplish nuclear security objectives either through deterrence or a combination of detection, delay and response mechanism.

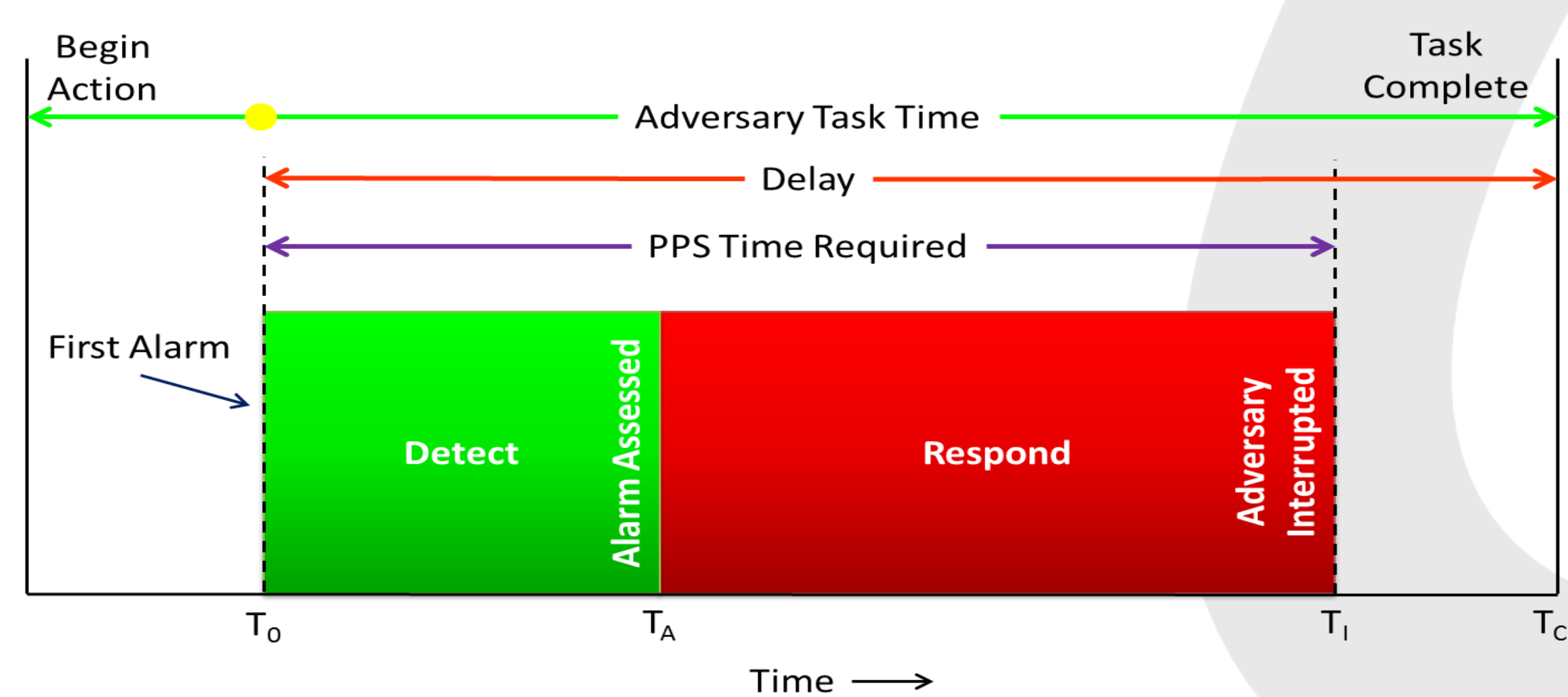
Detection

Delay

Response



PHYSICAL PROTECTION LABORATORY FACILITIES



- System detection and response time must be less than adversary task time to increase system success probability
- Detect intrusion earlier
- Increase adversary task time
- Reduce assessment time
- Reduce response time

CONCLUSION

The laboratory is expected to compliment the Authorised User Training programme offered under NSSC Malaysia and can be used to offer demonstrations of the operation, hands-on training, maintenance and practical exercises on working principles of physical protection equipment. Malaysian's NSSC, through enhancement of this technical capabilities at the Laboratory intends to host national and/or regional training courses on physical protection introduction and security measures training for Regulators, Operators/licensees, Security Personnel and University academics involved in Physical Protection application and Studies.

