

## The Benefits of Security Culture for Improving Physical Protection Systems at Detection and Radiation Measurement Laboratory

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**Abstract :** Security function that is called as Physical Protection Systems (PPS) has functions to detect, delay and response. Physical Protection Systems (PPS) in Detection and Radiation Measurement Laboratory needs to be improved continually by using internal resources. The nuclear security culture provides some potentials to support this research. The study starts by identifying the security function's weaknesses and its strengths of security culture as a purpose. Secondly, the strengths of security culture are implemented in the laboratory management. Finally, a simulation was done to measure its effectiveness. Some changes were happened in laboratory personnel behaviors and procedures. All became more prudent. The results showed a good influence of nuclear security culture in laboratory security functions.

**Keywords :** laboratory, physical protection system, security culture, security function

**Conference Title :** ICNMNS 2019 : International Conference on Nuclear Materials and Nuclear Security

**Conference Location :** Boston, United States

**Conference Dates :** April 24-25, 2019