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## **ETU009**

### **Apron Leak Testing using Detectors in The Radiology Installation of The General Hospital Dr. Soehadi Prijonegoro Sragen**

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**Introduction:** Aprons are radiation protective equipment that require good care and maintenance to prevent damage to internal fractures. In storage, the apron should not be folded, hung, and stacked because it will reduce the effectiveness of radiation protection. The frequency of apron testing is carried out periodically, namely once every 12-18 months to ensure optimal protection when used. In the Radiology Installation of Dr. Soehadi Prijonegoro Sragen Regional General Hospital, aprons were found to be stored in an improper manner, namely unfolded and stacked, and the last test was conducted in 2022. This study aims to determine the testing procedures, test results, and maintenance of aprons in the installation. **Methods:** This study used a mix-method approach with quantitative data from test results and qualitative data from interviews, documentation, and secondary sources such as laws and articles. Data collection was carried out in October 2024-April 2025 at the Radiology Installation of Dr. Soehadi Prijonegoro Sragen Regional General Hospital. **Results:** The results showed that the three aprons were stored stacked and cleaned using wet wipes or alcohol. Tests showed no leaks, but there were waves, dents and creases on the aprons. **Conclusions:** The third test of the apron was carried out by radiographic method, for the test results there were no leaks but there were visible waves and indentations or folds on the apron, the indentations on the apron were caused by improper storage such as being stacked.

**Keywords:** apron, test, maintenance