

Procedure/checklists for the CACTUS Operator

DUNE Photosensor WG Meeting (DUNE-SP-PDS)

May 7th, 2024

The Production Readiness Review team visited us on March 13 and 14 at the CACTUS facilities in Bologna and Milan.

Production Readiness Review Team

Name	Title
Terri Shaw	Senior Principal Engineer
Linda Bagby	Senior Engineering Physicist
Jim Mateyack	DUNE Senior Quality Assurance Engineer

The purpose was to perform a visual inspection and observation of the SiPM board testing and handling process.

Recommendation:

Develop a document with the procedure and checklist for the CACTUS operator.

Goal: the CACTUS operator can quickly verify the step by step and be sure that no steps are skipped.

- Last week, I shared the updated document in the Slack channel: [#sipm-testing](#) and attached it in Indico.
- The quenching resistance interval updated and calculated with the root mean square value and standard deviation. Our results from Milan and some of the results reported from the other CACTUS sites were used, collecting data from 5 boxes (12000 SiPM).

Rq Room T (115,4±21,9) Ω

Rq LN2 T (386,6±26,5) Ω

We appreciate any comments or suggestions on this document.

Thanks!!