

Implementation of the Reference Designation System to the Equipment Database

1. Introduction

To structure the devices, locations, points of installation, signals, and many others properly, the Reference Designation System (RDS) is used for the NICA-MPD experiment. The structuring principles come from various standards and need to be correctly applied. After the correct structuring, in the form of the technical documentation, it needs to be implemented to the existing Equipment Database (EqDb). Another difficulty in implementing those structuring rules is the fact that the EqDb and RDS are not fully connected with each other, which gives the opportunity to present their own solutions and ideas to one of the essential parts of the NICA-MPD experiment.

2. Description

The student participating in the project will be responsible for:

- Familiarizing with the EqDb
- Learning the RDS and norms that it is based on
- Preparing the technical documentation (P&ID diagrams, electrical diagrams, MS Excel spreadsheets, descriptions of the used RDS codes)
- Presenting own solution of implementing the created records to the EqDb
- Preparing the required manuals for the newly created structures in the EqDb

3. Requirements

- Good English knowledge
- The ability to read P&ID diagrams would be advantageous
- Experience with databases would be advantageous

4. Supervisor

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