



EPICS BASED TOOL FOR LLRF OPERATION SUPPORT AND TESTING

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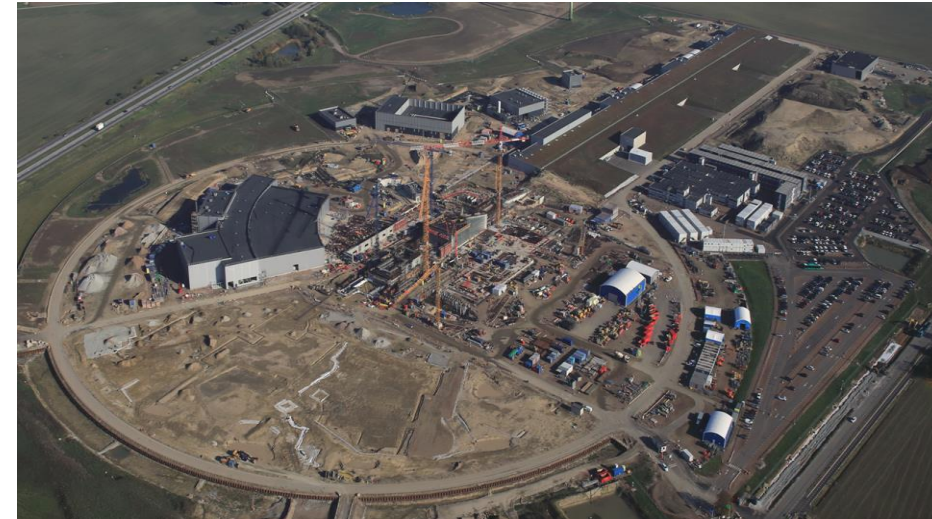
Problem

- The crucial aspect of the accelerator's functioning is its availability.
- Availability means:
 - operating under various conditions and in different operating modes,
 - operating without failures or minimizing them,
 - less time-consuming recovery and maintenance.
- Any interruptions can cause a significant downtime that results in loss of time and money.
- The broader set of operational conditions offered the bigger number of potential users of the facility and the wider set of experiments.

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Parameter	Units	Value
Energy	GeV	2.0
Current	mA	62.5
Pulse length	ms	2.86
Pulse repetition frequency	Hz	14
Average power	MW	5
Power during pulse	MW	125



Solution

- One of the potential solutions is **automation:**
 - it reduces human intervention,
 - it improves the control's quality,
 - it makes the system more flexible.
- **EPICS Based Tool for LLRF Operation Support and Testing** is a software to automate tests and support procedures of the LLRF control system.

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Date: 2023-07-20 14:45:03

Final result: **Success**

username: kacper

system ID: 1

IP address: 10.1.3.194

Step motor parameters	
Name	Value
Sensitivity	15.0 Hz/step
Polarity	Positive [-]
Backlash	10.0 Hz
Hysteresis	10 steps

