RF PLC - User story #2554

Review documentation of present control system of RF

08.04.2025 09:22 - Angela Salom

Status:	New	**Start date:**	08.04.2025
Priority:	Normal	**Due date:**	28.04.2025
Assignee:	Iago Dapena	**% Done:**	10%
Category:		**Estimated time:**	160.00 hours
Target version:	Architecture definition V1.0	**Spent time:**	1.00 hour
Git branch (link):		**SVN commit (link/?p=rev):**	
Git merge to develop (link):			

Description

- Review signals controlled by PLC
- Review and understand state machine implemented in EPICS SNL
- Review and understand interfaces between different sub-systems of RF control:
    - PSYS
    - PLC
    - LLRF
    - Microbox
    - Others

History

#1 - 08.04.2025 09:24 - Angela Salom

- Target version set to Architecture definition V1.0

#2 - 09.04.2025 17:40 - Iago Dapena

- % Done changed from 0 to 10

PLC IO List exported and completed from extracted comments from PLC code

#3 - 14.04.2025 10:17 - Angela Salom

Reviewed up to FSM. Reviewing details of each state. Now analysing the list of signals. There are no many symbols and reverse engineering them and adding more information.
PLC logis:
- read input and outputs
- EPICS reads them
- control on power supply

States of the TDK power supply sometimes cannot be recovered from the Control System (filament, control, screen and drive anode). They get un-responsive. Problem to be analysed.