



*RF Power Sources
for
Project X
Update*

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Fermilab
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TECHNICAL NOTE 3



August 2013 Progress Report

Project N° (Internal Reference) : EDP12008

BLA75000 CW 162,5MHz FERMILAB

Purchase Order Number (Fermilab Reference) :

607298



Actions closed @ Report Date :

- 1) Validation of the 700W/162.5MHz pre-serie Circulators
→ OK on 2013/01/07
- 2) Validation of the 20kW 8 to 1 Combiner
→ OK on 2013/01/08
- 3) Validation of the 162,5MHz RF base pallet
→ OK on 2013/01/31
- 4) Validation of the RF module new cooling plate on a prototype
→ OK on 2013/02/08
- 5) Mechanical conception of the 40kW 2 to 1 Combiner
→ OK on 2013/03/11
- 6) Mechanical conception of the 75kW 2 to 1 Combiner
→ OK on 2013/03/27
- 7) Mechanical conception of the Driver
→ OK on 2013/06/28
- 8) Mechanical conception of RF side bay
→ OK on 2013/06/28
- 9) Fabrication and Test of the 20kW 8 to 1 Combiners
→ OK on 2013/07/31



Actions in progress @ Report Date :

- 1) Modification-improvement of the Command /Control system
→ Started on 2013/04/15
- 2) Mechanical conception of RF central bay
→ Started on 2013/07/01
- 3) Fabrication and Test of the 40kW 2 to 1 Combiners
→ Started on 2013/07/15. *On Time*
- 4) Fabrication and Test of the 75kW 2 to 1 Combiners
→ Started on 2013/07/15. *On Time*
- 5) Supplying of parts (Mechanics, Cabling) to manufacture the RF Side Bays
→ Started on 2013/07/15. *3 Months delay because of parts supplying issues (Mechanics, Cabling)*
- 6) Fabrication and Test of the RF modules
→ Started on 2013/08/12. *3 Months delay because of parts supplying issues (Mechanics, Cabling)*
- 7) Fabrication and Test of the DC Power supplies
→ Started on 2013/08/19. *3 Months delay because of parts supplying issues (Mechanics, Cabling)*



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Actions to begin @ Report Date :

- 1) RF Side Bays assembling
→Planned to begin on 2013/06/17. *Postponed to 2013/09/16*
- 2) First Test at 2x20kW
→Planned to begin on 2013/06/24. *Postponed to 2013/09/30*
- 3) First Test at 1x40kW
→Planned to begin on 2013/07/01. *Postponed to 2013/09/30*
- 4) First Test at 1x75kW
→Planned to begin on 2013/07/08. *Postponed to 2013/10/07*
- 5) Qualification Tests for 75kW Amplifier N°1
→Planned to begin on 2013/07/15. *Postponed to 2013/10/14*
- 6) Qualification Tests for 75kW Amplifier N°2
→Planned to begin on 2013/09/03. *Postponed to 2013/11/25*



Issues encountered since April 2013 :

Due to the change of the ERP (Enterprise Resource Planning) software going from Bruker to SigmaPhi , we planned that our activity were reduced for one month.

We had to face many problems with the configuration and use of the new ERP. Our activity has been reduced for 3 months.

→Consequently, all of our projects schedules were delayed by 2 months.

When those ERP issues were solved, Bruker, which became one of our parts suppliers, decided suddenly to stop the production of cabling, electronic and mechanic parts for SigmaPhi. Our Purchasing team had to find quickly new suppliers for such type of parts. This second issue is solved for mechanic parts, and will be solved at the end of 2013 for electronic boards and mechanical parts.

→Consequently, some of our projects schedules were delayed additionally by 1 month.

Estimated delivery date :

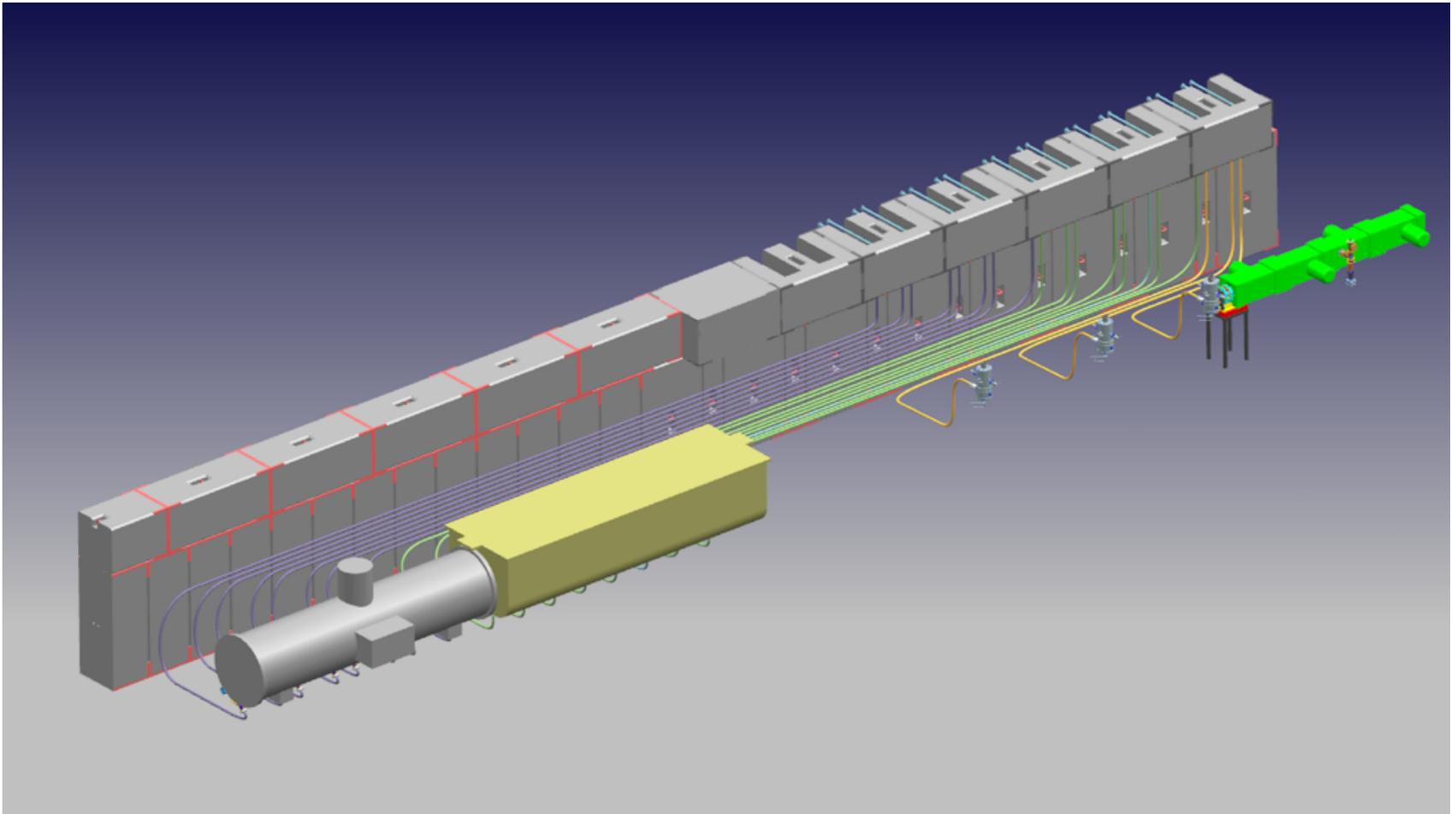
Unfortunately, this project is concerned by both issues. We are working hardly to reduce the 3 months delay to 2 months.

The estimated delivery date is Week 51 (December 2013).

Next State Report : We propose to send you monthly reports from end of September to December 2013.



PXIE RF Distribution with 1-5/8" Heliax





PXIE RF Distribution with 1-5/8" Heliax

