



A Successful Emergency Response Plan: Lessons in the Controls Section of the ALBA Synchrotron

Guifré Cuní 10.10.2023 –**TU2AO**03

Contents





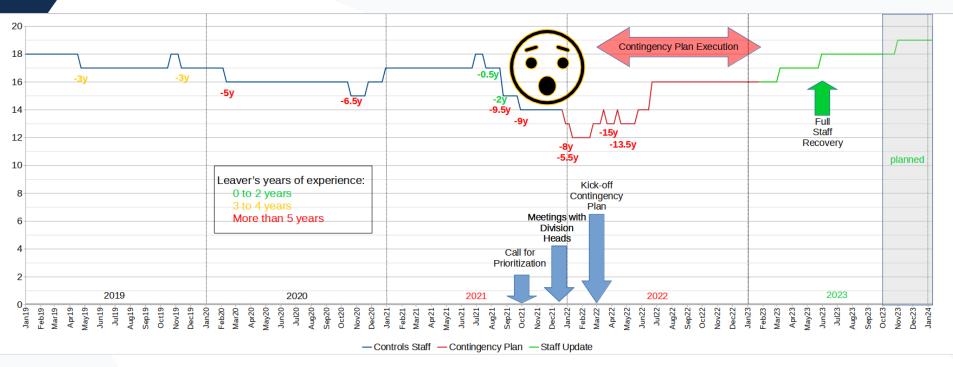
Contents of this talk:

- 1. Introduction (Trigger + Contingency Plan)
- 2. Who (Customer Units + Control System Team)
- 3. Organization (Service Support + Software Development)
- 4. Reporting + Monthly Follow-up
- 5. Wrap-up (Conclusions + Lessons Learned)

Trigger







Controls Contingency Plan 2022





Feb22 Contingency Plan for the Controls Section announced by the Director

Mar22 kick-off with Coordination Office (CO) + start

https://confluence.cells.es/display/CO/Controls+Contingency+Plan+2022

Work only on:

- 1. Incidents to assure operation
- 2. Assure progress in new BLs program
- 3. Few selected activities (EXP, ACE, COM)
- 4. Until Dec 2022

Assumptions:

- 1. Urgent tasks treated as Exceptions
- 2. Internal activities self-managed
- 3. Services reduced (no changes or new features)

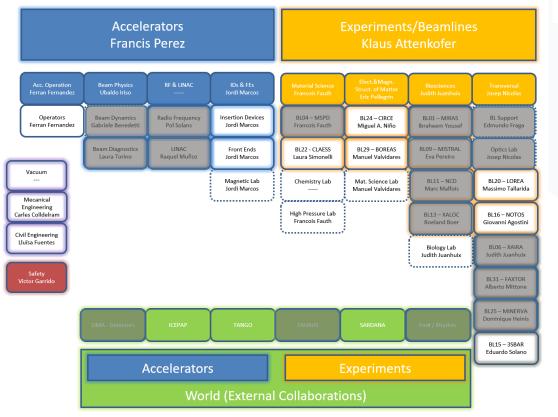
Exclusions:

- 1. PLC Team activities
- Activities related to International Collaborations, Students, Newcomers

Controls Section Customer Units







Areas of knowledge deeply affected

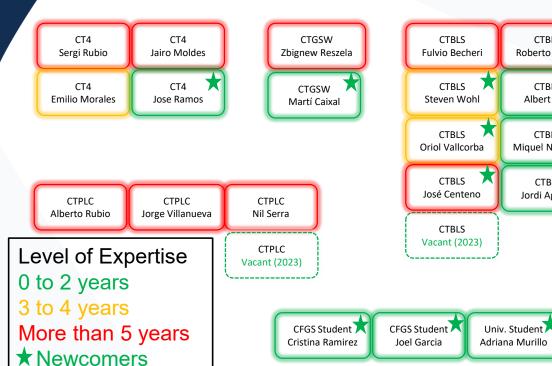
No direct contacts for any Customer Unit

Current Staff





Controls Section Teams



- 1. Priority in Newcomers[★] Knowledge transfer Gain expertise Mentoring **Training**
- 2. Improve guides/how-to docs
- 3. Expecting to have same level of operation by 2024-Q2

A Successful Emergency Response Plan: Lessons in the Controls Section of the ALBA Synchrotron - 10.10.2023 - TU2AO03 - ICALEPCS 2023

CTBLS

Roberto Homs

CTBLS

Albert Ollé

CTBLS

Miguel Navarro

CTBLS

Jordi Aguilar

Organization: Service Support (i)





https://confluence.cells.es/display/CS/CT+Service+Support

Pages / Control Systems 🚡 📑 1 Jira link

CT Service Support

Created by Zbigniew Reszela, last modified on May 17, 2022

- What is it?
- · When does it apply?
- · Who gives the support?
- What does the support person do?
 - Triage issues
 - Work on issues
 - · Note on notifying development team
 - · Monitor overall Control System status
 - Where to log the time spent on SS?
- · What do the rest of the Controls engineers?
- CS Service Support Kanban Board
 - Card
 - Columns
 - Swimlanes
- · What is considered a "service support task"?
 - · Note on deployment tasks
- TODOs

Service Support Role definition

Triage:

gather basic information and set priority predefined questions to requestors

Monitor:

check all subsystems and status

Mentor/train:

mentor, train newcomers in specific interventions

Document:

promote improvement of guides and how-to docs

Organization: Service Support (ii)





https://confluence.cells.es/display/CS/CT+Service+Support+-+role+calendar

CT Service Support - role calendar

Created by Guifré Cuní Soler, last modified by Zbigniew Reszela on Feb 17, 2022

How to fill the calendar?

- 1. Click on "Add event" button or directly double click on a day cell in the calendar.
- 2. Choose the day you would like to make the role assignment.
- 3. In "What" field specify what role you are assigning: either "SS" (Service Support) or "backup" (backup for SS).
- 4. In "Who" field set yourself (or in case you make an assignment for another person then select him/her).

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shutdown	5	4	3	0
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→ Jorge Villanueva Cuenda: SS	ு Jorge Villanueva Cuenda: SS	△ Jorge Villanueva Cuenda: SS		.Q₊ Jorge Villanueva Cuenda: SS
⊶ Martí Caixal Joaniquet: SS	. ☐ Jairo Moldes Fuentes: SS	A Emilio José Morales Alejandre: SS:	i	.Q. Jordi Aguilar Larruy: SS JA
·		EM		
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♣ Fulvio Becheri: SS	JG	Alberto Rubio García: SS	🕰 Alberto Rubio García: SS	Alberto Rubio García: SS
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	A Roberto Javier Homs Puron: SS			
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⊶ Nil Serra Peinado: SS	BK:EM	JR	🕰 Nil Serra Peinado: SS	A Nil Serra Peinado: SS
Oriol Vallcorba Valls: SS: OV	A Nil Serra Peinado: SS	A Nil Serra Peinado: SS	🕰 Jose Antonio Ramos Andrades: SS:	.Q. Zbigniew Reszela: SS: ZR
	△ Miquel Navarro Fernández: SS	A José Gabriel Centeno Gabadinho: SS:	JR	
		JG		
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	A Fulvio Becheri: SS	A Nil Serra Peinado: SS	🕰 Jorge Villanueva Cuenda: SS	🕰 Zbigniew Reszela: SS
🔾 Jorge Villanueva Cuenda: SS	Alberto Rubio García: SS	A Roberto Javier Homs Puron: SS	A Steven Wohl: SS	

Organization: Service Support (iii)





https://jira.cells.es/secure/RapidBoard.jspa?rapidView=181

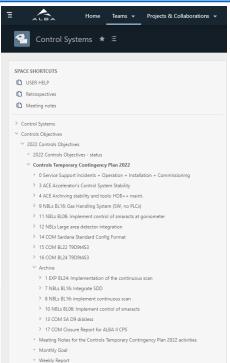
CT Service Support Kanban board												Board 🕶	e ⁿ
QUICK FILTERS: Unassigned	Unassigned Issues + My Issues	My Issues	Last Updated (-3d)	Recently Updated (-14d)								
TO DO 28	⚠ ✓ INTRIAGE 20	₼ ~	READY 6	å ~	IN PROGRESS 24	å ~	STALLED 9	& ~	WAITING FOR VERIFICATION 2	& ~	DONE 97 OF 18944	Release	å \
> Expedite 27 issues													
> Fixed Date 9 issues													
> Standard 143 issues													
> Maintenance 7 issues													

Organization: Software Development (i)





https://confluence.cells.es/display/CS/Controls+Temporary+Contingency+Plan+2022



Four Types of Activities (with JIRA filters):

Type 1 Service Support Incidents

Type 2 Assure Operation, Installation and Commissioning

Type 3 Coordination Office Contingency Plan Activities

JIRA filter + Confluence Page

<u>Description</u> + <u>Committed People</u>

Monthly Goal + Weekly report

Meetings Summary

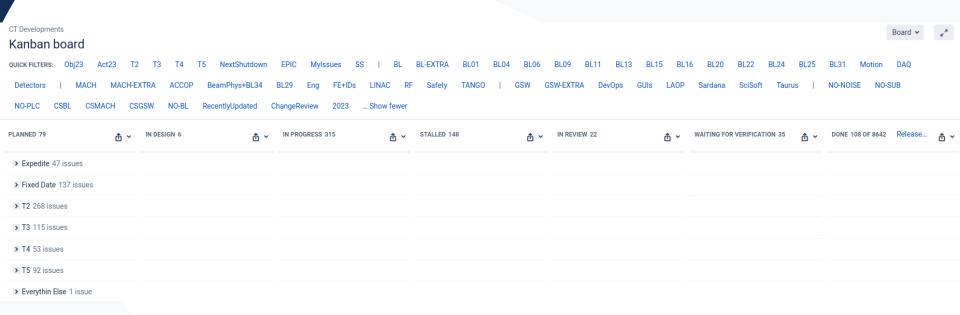
Type 4 Other activities (Internal)

Organization: Software Development (ii)





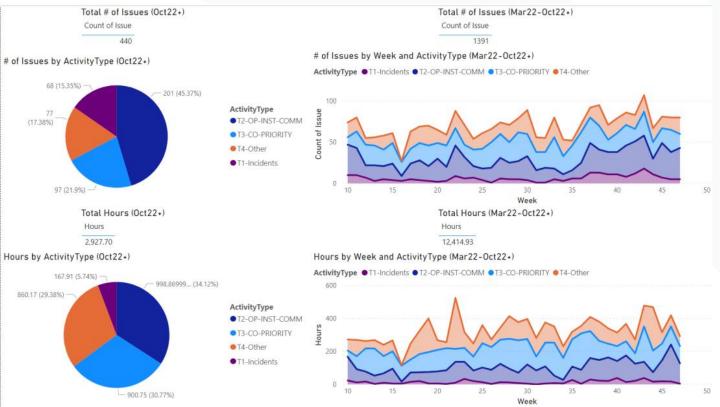
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Monthly follow-up with the CO (i)



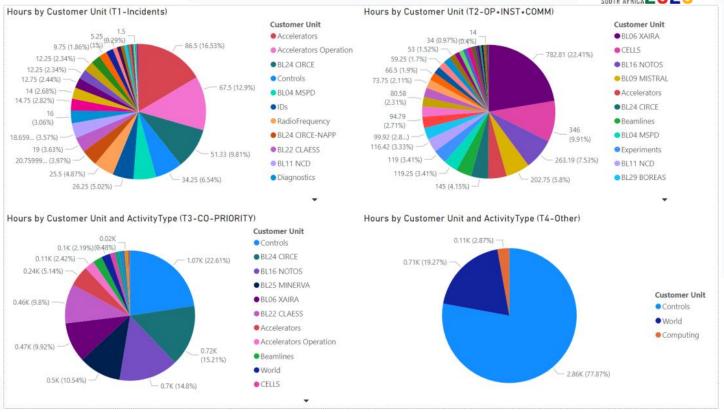




Monthly follow-up with the CO (ii)



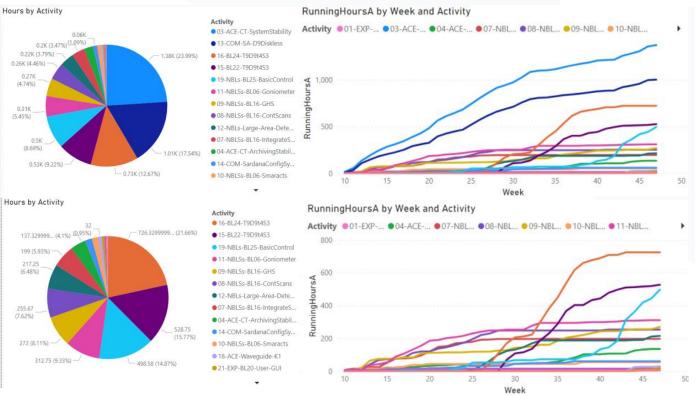




Monthly follow-up with the CO (iii)







Results and insights





- JIRA system provides enough data for follow-ups, reviews, reports, and analysis
- Incidents and P1 requests
 - Around 5% of our time
 - But there are still direct calls not following the Service Desk which are not Incidents or P1 requests and should be issued via our Service Desk Portal
- The number of stalled issues in our backlogs increased
 - some tasks were unblocked and treated as exceptions based on the cost/benefit ratio
- Newcomers onboarding is a high priority investment
- Coordination, Planning, and Prioritization is key for the Performance and Efficiency of the Controls Software Developers
 - Once this Controls Contingency Plan finished, an extended coordination in order to improve organization, planning, dependencies, and scope of the work of several support groups will be implemented (hopefully in 2024)

Conclusions and Lessons Learned





Culture

- Implementing a culture of reporting on all activities and progress centrally, including the time invested, is crucial (not just distributing responsibilities)
- This culture will be the foundation for any urgent structural change needed
- The culture cannot be changed in the middle of an emergency
- Automatic processes for compiling information is valuable
- Reporting publicly is of great worth
- Less context-switching is good for the Development Team and for the quality delivered
 - The description of the activities must clearly state when the work is considered as finished and accepted
 - A rotating Service Support role among all the developers helps the transfer of knowledge and avoids context switching

Alignment

 Checking periodically the alignment of the Developers' efforts with the facility-wide Divisions' priorities helps everybody

Service Level

- Service Level can be reduced (of course, at a cost that needs to be accepted)
- By announcing a Contingency Plan with transparent rules publicly, clients' pressure of new requests can be reduced





Thanks,

to You for your time to ALBA Management for their involvement and commitment to Controls People for the effort and flexibility

Questions and Feedback are very welcome!