

Summary of LS2 ECRs LIU-PSB Scope

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LIU-PSB meeting 6th March 2018



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Information

- The following slides cover only LIU-PSB scope. However, we do also require ECRs for other activities where a change impacts on “Form, Fit or Function”
- Please use the correct template for ECRs, available here: <https://quality.web.cern.ch/templates>
- Where relevant, integration studies must be done and contained within the ECR, in advance of the formal ECR approval process:
 - Please contact the integration team (Jean-Pierre Corso)
 - ICL (integration) meeting once every ~2 weeks (Wednesday)
- If you have an LIU-PSB activity that is missing from the lists, and you think an ECR may be needed, please contact me

LIU-PSB LS2 ECRs

TE-ABT will write this, but support needed from other impacted groups

TE-ABT

Description	Group	Responsible	ECR Reference	ECR Status
Upgrade of the BTP Line	All	Wolfgang Bartmann		Needed
Replace extraction kicker BEr.KFA14L1 <i>(same size, but potential implications on impedance)</i>	TE-ABT	Luc Sermeus		Needed
Add a new BPM on the BI line (upstream of BI.SMV10)	TE-ABT / BE-BI	Lars Soby / TE-ABT	<i>SRR approved PSB-LJ-EC-0013</i>	Needed
Installation of Upgraded PSB Recombination Septa BT.SMV10 (BT1 and BT4)	TE-ABT	Michael Hourican	1459318 PSB-MSMIC-EC-0001	Released
Installation of Upgraded PSB Recombination Septum BT.SMV20	TE-ABT	Michael Hourican	1459320 PSB-MSMID-EC-0001	Released
Exchange KSW magnet in 16L4, 1L1 and 2L1	TE-ABT	Luis Coralejo	1422350 PSB-MKKSW-EC-0001	Released
New distributor BI.DIS10	TE-ABT	Wim Weterings	1518483 PSB-MSMIA-EC-0001	Released
New Septum BI.SMV10	TE-ABT	Michael Hourican	1561343 PSB-MSMIB-EC-0001	Released
New injection region in the Booster 1L1	TE-ABT	Wim Weterings	1422358 PSB-L-EC-0001	Released

LIU-PSB LS2 ECRs

TE-MSC

Description	Group	Responsible	ECR Reference	ECR Status
BT Line magnet upgrades and consolidation (including BT.BHZ10 and BR.BHZ151)	TE-MSC	Antony Newborough / TE-VSC	<i>SRR approved (BT.BHZ10) PSB-LJ-EC-0010</i>	Needed
Upgrade of the BHZ Main unit bending magnets (including injection bending magnets and reference magnet)	TE-MSC	Antony Newborough		Needed (in work)
Replace BTM.BHZ10 by a larger magnet	TE-MSC	Antony Newborough	<i>SRR approved PSB-LJ-EC-0011</i>	Needed
Damping Resistors on PSB Bending and Quad Magnets	TE-MSC	Antony Newborough	1817987 PSB-M-EC-0001	Under Approval
Booster Injection Transfer Line Magnet Upgrades and Consolidation	TE-MSC	Antony Newborough	1494503 PSB-LJ-EC-0001	Released

ECR title is misleading
and will be updated for
the next version

LIU-PSB LS2 ECRs

TE-EPC

Description	Group	Responsible	ECR Reference	ECR Status
Upgrade of PS Booster Corrector and Quadrupole Power Supplies	TE-EPC	Louis De Mallac	1874665 PSB-R-EC-0005	Under Approval
Booster Power House (BHP) Converters Upgrade	TE-EPC	Serge Pittet	1868992 PSB-R-EC-0003	Under Approval
Consolidation and upgrade of the power converters of the LT and LTB lines	TE-EPC	David Nisbet	1851780 PSB-R-EC-0006	Under Approval
Installation of the power converters for BI.SMV10 magnets for LIU PSB injection	TE-EPC	Jean-Marc Cravero	1887658 PSB-R-EC-0007	Under Approval
Installation of new Power Converters for PSB injection Qstrip, Correctors, Quad.	TE-EPC	Serge Pittet	1821166 PSB-R-EC-0004	Under Approval
New MPS for LIU Booster (POPS-B)	TE-EPC	Fulvio Boattini	1643409 PSB-LJ-EC-0008	Released

LIU-PSB LS2 ECRs

BE-BI

Description	Group	Responsible	ECR Reference	ECR Status
New BLMs Installation in the LT, LTB and BI Lines for H- exchange monitoring	BE-BI	Christos Zamantzas		Needed
Installation of new BLMs on the PS Booster extraction lines	BE-BI	Christos Zamantzas		Needed
Wire Scanners (x8) in the PSB 4L1 and 11L1	BE-BI	Raymond Veness	<i>SRR approved</i> PSB-LJ-EC-0004	Needed
Relocation of BI.BTV30	BE-BI	Stephane Burger	1572803 PSB-LJ-EC-0006	Released
Relocation of BT2.BTV10 and BT3.BTV10 in the PS Booster	BE-BI	Stephane Burger	1494819 PSB-LJ-EC-0002	Released

Plus contribution of information for the BT, BTP Line and the new BPM in the BI Line (with TE-ABT)

BE-RF

Description	Group	Responsible	ECR Reference	ECR Status
The New PS Booster RF System (Finemet Cavities)	BE-RF	Mauro Paoluzzi	1733551 PSB-ACWFB-EC-0001	Approval Closed

To be discussed if they could be combined into one ECR

LIU-PSB LS2 ECRs

EN-STI

Description	Group	Responsible	ECR Reference	ECR Status
Removal of 2 beam stoppers (BI.STPFA and BI.STPSW) on the BI line	EN-STI	Edouard Grenier-Boley	1835875 PSB-LJ-EC-0012	In Work
New PS Booster Absorber in Period 8	EN-STI	Inigo Lamas Garcia	<i>SRR approved</i> PSB-LJ-EC-0007	Needed

EN-CV

Description	Group	Responsible	ECR Reference	ECR Status
HVAC system in the PS Booster	EN-CV	Gabor Petrika		Needed
Booster chilled water cooling plant consolidation (b. 361)	EN-CV	Gabor Petrika		TBC
Consolidation of the cooling plant for the Booster (b. 237?)	EN-CV	Gabor Petrika		TBC

EN-EL

Description	Group	Responsible	ECR Reference	ECR Status
New ERD1*7A switchboard	EN-EL	James Devine		Needed

LIU-PSB LS2 ECRs

EN-ACE

Description	Group	Responsible	ECR Reference	ECR Status
New LBE line plus infrastructure	EN-ACE	Aurelio Berjillos	1805620 CPS-LJ-EC-0005	Under Approval
Partial dismantling of Linac2	EN-ACE	Aurelio Berjillos	1688400 CPS-LJ-EC-0003	Under Approval
Connection of Linac4 to BHZ20	EN-ACE	Aurelio Berjillos	1688387 CPS-LJ-EC-0002	Under Approval



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Thanks for your attention