ECR/Documents for Information and Approval

Giulia Romagnoli and Natalya Kahn for BE-EA, 2024-12-17

EA Documents - Agile Board - CERN Central Jira





LIST OF DOCUMENTS for Info

FOR INFORMATION EATM				
Summary	Reporter	EA Projects	EDMS number	EDMS Status
Clean Room Functional Specification	Krystian Sidorowski	North Area	3189466 - SPSX-J-SPC-0004	Under Approval
GHN2 Fire Protection Safety Tests	Filipa Duque Carvalho	North Area	3203830 – SPSX-S-RPT-0006	Under Approval
FISC Motor Consolidation	Inaki Ortega Ruiz	North Area, NACONS	3173084	Under Approval
Multi-Wire Proportional Chambers - Critical Spares	_	North Area, NACONS	3173094	Under Approval
MarXdiscap Power Converter for AD injection SMI5306 septum	Todor Todorcevic	AD	<u>2679021</u> – AD-R-ES-0006	Engineering check
Assembly Procedure for the Fast FISC		Experimental Areas	3178861	Under Approval
Finite Element Analysis for the MCB vacuum chamber in F61		Experimental Areas	3162570	Under Approval
ntegration Study of the Cooling Cells Demonstrator in TT7		Experimental Areas	3200071	Engineering check



LIST OF DOC for FUTURE APPROVAL

Summary	Reporter	EA Projects	EDMS number	EDMS Status
Low-energy Beams in the T10 Beamline of the East Area	Maarten Van Dijk	East Area	3174332 – PSZ-L-EC-0003	In Work
Creation of New Lorry and Personnel Doors in Building 911	Jean-Louis Grenard	North Area, HI- ECN3	3173295 – SPSX-J-EC-0008	Engineering check
GIF++ extension	Sylvain Girod	North Area		In Work
GIF++ gas balcony	Sylvain Girod	North Area		In Work
Installation of a New Hydrogen Buffer outside EHN1 for the NA61/SHINE Experiment	Bartosz Maksiak	North Area	3197663 – SPSX-J-EC-0009	In Work
Additional Platform above ALPHA Local Control Room in AD Hall	Francois Butin	AD	2897943 – AD-LJ-EC-0023	Engineering check



LIST OF DOCs for APPROVAL

Summary	Reporter	EA Projects	EDMS number	EDMS Status
AUG installation EHN2+ AUL removal EHN1, GIF++/H8 and EHN2/M2/BA82	,	North Area	3178530 - SPSX-SF-EC-0016	Under Approval
PPE144 patch panel installation with passarelle modification	Sylvain Girod	North Area – NACONS	3121860 – SPSX-J-EC-0006	Under Approval
Asset Replacement Request - Magnet replacement	Philip Schwarz	North Area	3168416 – SPSX-M-ARR-0002	Under Approval



SPSX-SF-EC-0016 Version **0.2**

By Marcin Szewczyk

AUG installation EHN2+ AUL removal EHN1, GIF++/H8 and EHN2/M2/BA82

"Arrêts d'urgence locaux" (AUL) will be removed from EHN1 and EHN2 and its security function will be replaced by existing "arrêts d'urgence généraux" (AUG). In EHN2, new AUG buttons will be added.

In line with the strategy agreed with HSE, EP, EN-EL and BE-EA, AULs are being removed and replaced by AUGs. In EHN1 and EHN2 in particular, this is due to faulty MN coils and non-compliance with IS-5 requirements. Obsolete NANO PLC systems will also be removed.

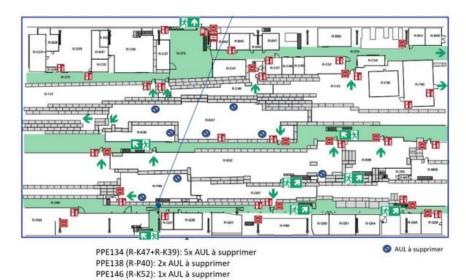
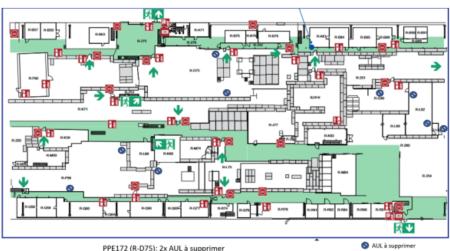


Figure 1: AUL removal in PPE134, PPE138 and PPE146 in EHN1 [2].



PPE172 (R-075): 2x AUL à supprimer PPE164 (R-909, R-192/95): 4x AUL à supprimer PPE158 (R-P58): 2x AUL à supprimer PPE158 (R-175): 1x AUL à supprimer

'e 2: AUL removal in PPE172, PPE164, PPE158 (R-P58) and PPE158 (R-L75) in EHN1 [2].

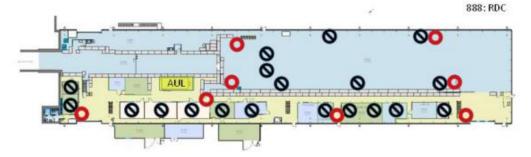


SPSX-SF-EC-0016 Version **0.2**

AUG installation EHN2+ AUL removal EHN1, GIF++/H8 and EHN2/M2/BA82

By Marcin Szewczyk

In EHN2, one AUL zone will be retained (marked in Figure 3).

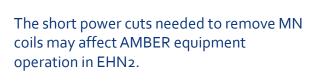


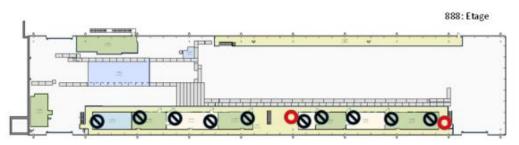
Synthèse: Démontage 29 AULs (+ MN's associes), rajoute de 10 AUG sur chaine existant AUL retenu dans 1 zones indiques: Cage convertisseurs.

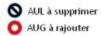
AUL à supprimer

AUG à rajouter

Figure 3: AUL removal and AUG installation in EHN2 (ground floor) [3].







6

Figure 4: AUL removal and AUG installation in EHN2 (first floor) [3].



SPSX-SF-EC-0016 Version **0.2**

AUG installation EHN2+ AUL removal EHN1, GIF++/H8 and EHN2/M2/BA82

By Marcin Szewczyk

Seen by LA MENDOLA Saverio (HSE-OHS)

▲ Accepted with Warning by VAXELAIRE Didier (EN-AA)

Quels sont les details à fournir concernant le sEIS Acces?

- Seen by CHARVET Thierry (EN-EL)

Je ne comprend pas mon rôle dans cette opération, dont je ne connais pas la teneur.

▲ Accepted with Warning by KADI Yacine (BE-EA)

One AUL will remain in operation in EHN2 zone R-0009, however the NANO PLC system will be removed entirely. How will this impact the functioning of the remaining AUL?

Seen by GENILLON Xavier (SY-EPC)

Seen

- Seen by BEYNEL Alexandre (BE-GM)
- Seen by EBN RAHMOUN Aboubakr (BE-EA)

Seen

- Seen by AHDIDA Claudia Christina (HSE-RP)

Seen

▲ Accepted with Warning by BERTOLASI Stefano (EN-EL)

- Minor comments provided by email on10.12.2024
- Document to be approved also by TSO of EHN1/EHN2

✓ Accepted by SZEWCZYK Marcin (EN-EL)

Concerning the EIS system no details are required.

With reference to Yacine's comment the remaining AUL will be directly wired to corresponding breaker or we will provide AUL interface in case it has to actuate more than one breaker.

- Seen by FERNANDEZ Julien Mickael (EN-PAS)
- ✓ Accepted by GIROD Sylvain (BE-EA)

ok

Seeking approval from EATM



17-12-2024 179th EATM Meeting

SPSX-J-EC-0006 Version **0.2**

By Sylvain Girod

PPE144 patch panel installation with passarelle modification

This document describes the modification of the shielding bridge inside the PPE144 experimental area in order for NA64 experiment to install big detectors.

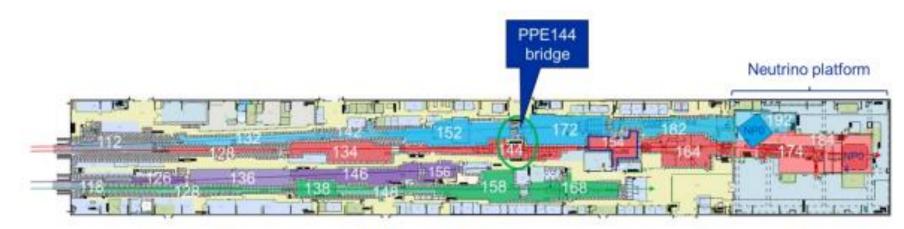


Figure 1: Location of PPE144 zone inside EHN1. The bridge in question is shown inside the green circle.

The bridge in question is the one leading to PPE144 transversing also PPE152 and PPE172 on the Jura side of the building.

This change will allow a large straw tracker station to be moved closer to the third magnet of the NA64 experiment and significantly increase their acceptance for dimuons.

Additional space will be also free for the installation of the new moveable platform that will reduce the time needed for the HCAL calibration. The safety of personnel against ionizing radiation will be improved.



SPSX-J-EC-0006 Version **0.2**

PPE144 patch panel installation with passarelle modification

By Sylvain Girod

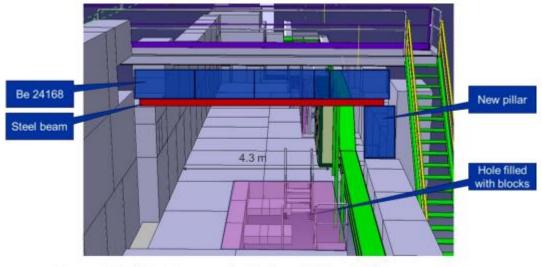


Figure 4: Modifications needed in the shielding bridge area.

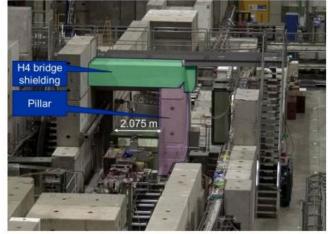


Figure 2: The shielding bridge discussed in the present document. The shielding is shown in green, and the supporting pillars also are marked in purple.



179th EATM Meeting

9

SPSX-J-EC-0006

PPE144 patch panel installation with passarelle modification

Version 0.2

By Sylvain Girod

✓ Accepted by HERTY Andreas (BE-ASR) Comments to version 0.1 integrated. Thank you.	Created on 2024-09-03, 13:49
Seen by SCHWARZ Philip (TE-MSC)	Created on 2024-09-03, 14:49
⚠ Accepted with Warning by MORTON Richard Francis (HSE-OHS) The structural aspect of the concrete blocks must be assessed, HSE can assist with the seismic checks and arrangement on the existing structures.	Created on 2024-09-03, 14:57 I advise on effects of the new
✓ Accepted by ABERLE Frederic Lionel (HSE-RP) Nothing to add compared to v.01. Thanks!	Created on 2024-09-03, 15:13
Seen by VAXELAIRE Didier (EN-AA)	Created on 2024-09-03, 16:34
Seen by VENDEUVRE Camille (BE-GM)	Created on 2024-09-03, 17:22
Seen by KADI Yacine (BE-EA) the proposed wall to be installed upstream of the bridge should be validated against seismic risks. Not sure YETS 24/25 which is foreseen for these modifications. In several occasions, one is referring to shielding improvements but there is no reference to any shielding caperformed?	
Seen by BEYNEL Alexandre (BE-GM)	Created on 2024-09-04, 12:13
Seen by GENILLON Xavier (SY-EPC) Seen	Created on 2024-09-04, 14:05

Seeking approval from EATM



SPSX-J-EC-0006

Version **0.2**

By Sylvain Girod

PPE144 patch panel installation with passarelle modification

Accepted by CHARITONIDIS Nikolaos (BE-EA) No impact on the beam delivery, it will however help a lot the installation	Last modified on 2024-09-09, 16:16 Created on 2024-09-09, deinstallation and improve the physics results for NA64e!
 Seen by ANDREINI Marco (HSE-OHS) At disposal to assess the seismic stability of the new bridge configuration 	Created on 2024-09-10,
✓ Accepted by POLYAKOV Vladimir (EP-UFT) This modification is improved our acceptance for the measurement of mu	Created on 2024-09-10, ons and is very important for NA64e.
✓ Accepted by PIRA Yann Pierre (HSE-RP) OK	Created on 2024-09-10,
Accepted with Warning by BERTONE Caterina (EN-HE) First of all, please don't forget to consult me for each ECR circulating in the	
Have the structural resistance of the red beams been verified ? in particu	lar for the addiction ox extra vertical shielding.
Please ask to M. Andreini a seismic verification as he proposes. Has the crane passage after addiction of extra shielding been verified?	lar for the addiction ox extra vertical shielding.
Please ask to M. Andreini a seismic verification as he proposes.	lar for the addiction ox extra vertical shielding. Created on 2024-11-06,
Please ask to M. Andreini a seismic verification as he proposes. Has the crane passage after addiction of extra shielding been verified?	

Seeking approval from EATM



17-12-2024 179th EATM Meeting 11

ARR for Approval

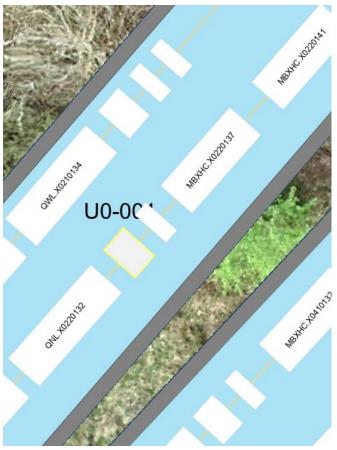
SPSX-M-ARR-0002 Version **0.1**

Asset Replacement Request - Magnet replacement

By Philip Schwarz

Due to a coil leak, LSX.Xo220134 must be replaced.







ARR for Approval

SPSX-M-ARR-0002 Version **0.1**

Asset Replacement Request - Magnet replacement

By Philip Schwarz

 Seen by GENILLON Xavier (SY-EPC)
 Created on 2024-11-2

 Seen
 Seen by BEYNEL Alexandre (BE-GM)

 ⚠ Accepted with Warning by KADI Yacine (BE-EA)
 Created on 2024-11-2

I believe one should be a bit more detailed in explaining the reason and the features of the location (TCC2) with a picture or two.

Seeking approval from EATM



Thank you!



