

ECR on surface technical galleries at Point 1 and Point 5

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On behalf of WP17 and WP15

HL-LHC TCC, 17 January 2019





HL – LHC Engineering Change Request
MODIFICATION OF THE TECHNICAL GALLERIES AND BUILDING
INTERFACES AT HL POINT 1

ECR DESCRIPTION				
WP Originator	WP15	Process	Engineering, Integration	
Equipment	SF17, SHM17, SU17, SE17, SD17, SL105, SL106, SL17	Baseline affected	Cost	
Drawing	All concerning the above buildings in EDMS 1806989 V1.1 and related folders	Date of Issue	2018-12-12	
Document	in EDMS 1806989 V1.1 and related folders of detailed drawings	CI responsible	P. Fessia	
WPs Affected	WP9, WP17.2, WP17.3	Reference Document	TDR Version 0.1 Layout EDMS 1806989 V1.1	

Detailed Description

As consequence of the integration studies several changes have been identified and analyzed on the SMR id 10 EDMS 1864762 to guarantee a satisfactory installation of the services of WP17.2, WP17.3, WP9

Those changes were accepted by WP17 WPL and WP 15 WPL on 2018-12-12.







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HL – LHC Engineering Change Request MODIFICATION OF THE TECHNICAL GALLERIES AND BUILDING INTERFACES AT HL POINT 5

ECR DESCRIPTION				
WP Originator	WP15	Process	Engineering, Integration	
Equipment	SF57, SHM57, SU57, SE57, SD57, SL505, SL506, SL57	Baseline affected	Cost	
Drawing	All concerning the above buildings in EDMS 1807193 V1.1 and related folders	Date of Issue	2018-12-12	
Document	in EDMS 1807193 V1.1 and related folders of detailed drawings	CI responsible	P. Fessia	
WPs Affected	WP9, WP17.2, WP17.3	Reference Document	TDR Version 0.1 Layout EDMS 1807193 V1.1	

Detailed Description

As consequence of the integration studies several changes have been identified and analyzed on the SMR id 9 EDMS 1864761 to guarantee a satisfactory installation of the services of WP17.2, WP17.3, WP9 Those changes were accepted by WP17 WPL and WP 15 WPL on 2018-12-12.

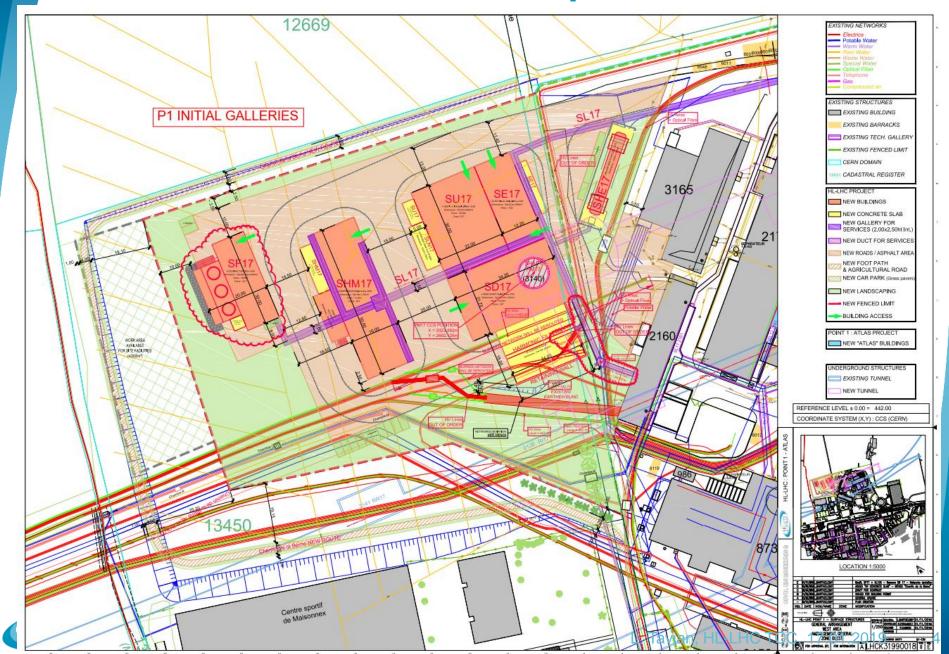


Context

- With respect to the CE tendering specifications, iterations on the integration of services and infrastructures has requested modifications in the design of the surface technical galleries and their interfaces with the buildings.
- SMRs (Space Modification Requests) have been issued to define new requests.
- This iteration process has impact on:
 - The civil engineering design (Consultant contracts)
 - The construction works (BoQ) (Main Contractor contracts)



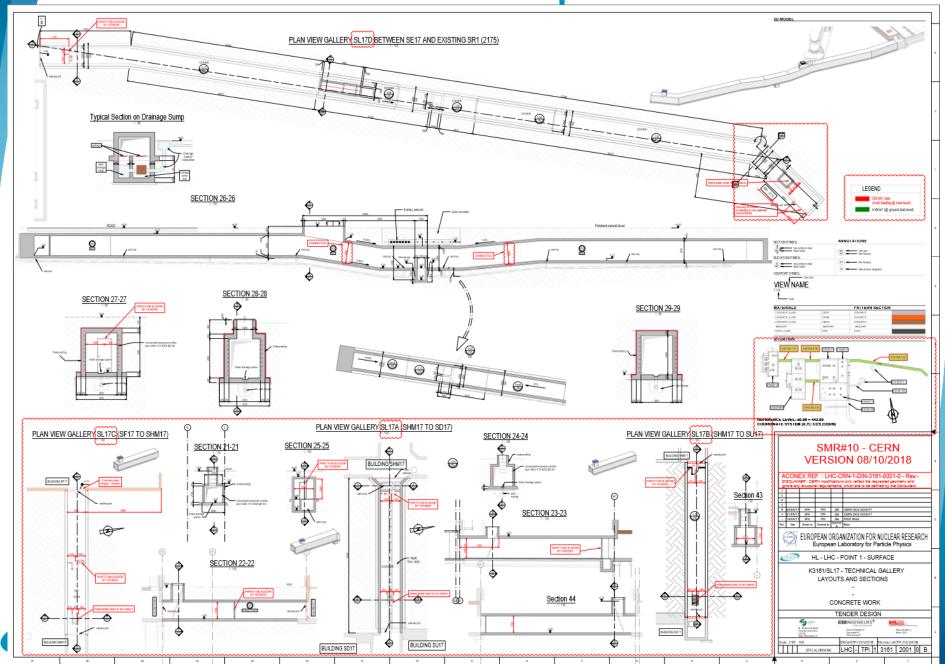
Point 1 before SMR process



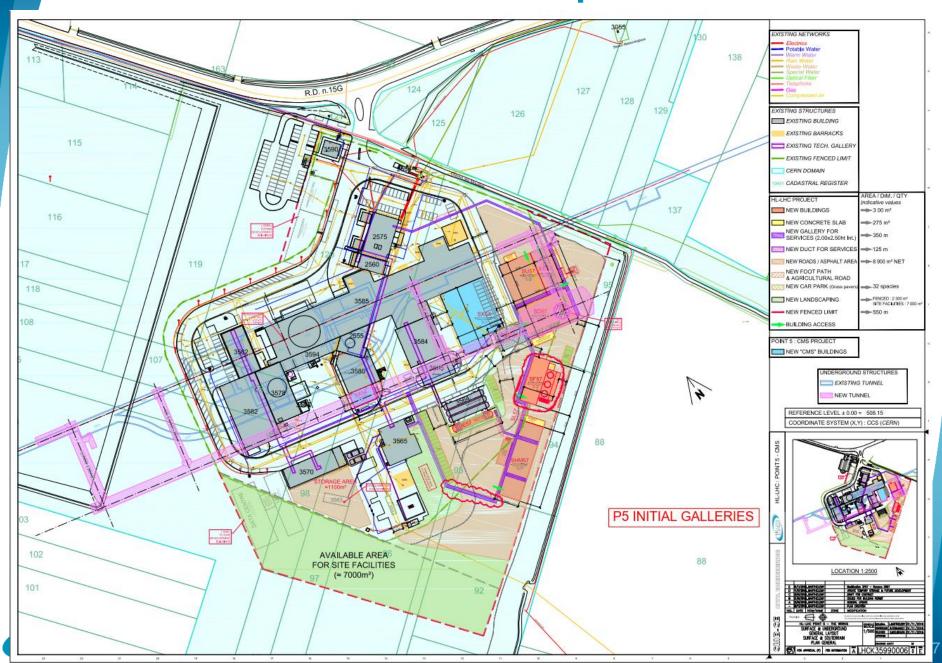
Point 1 after SMR process



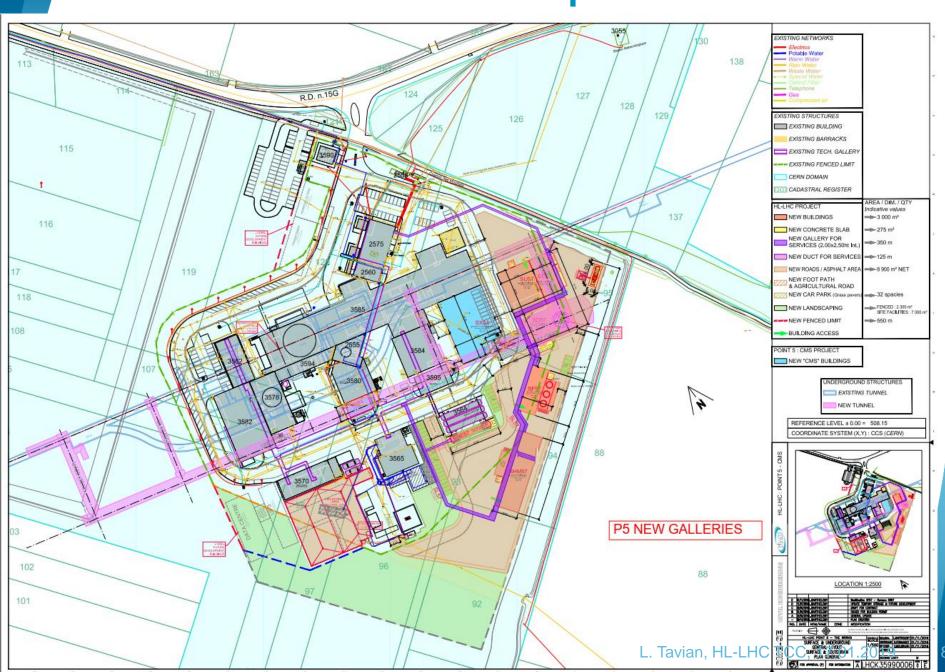
Point 1 after SMR process



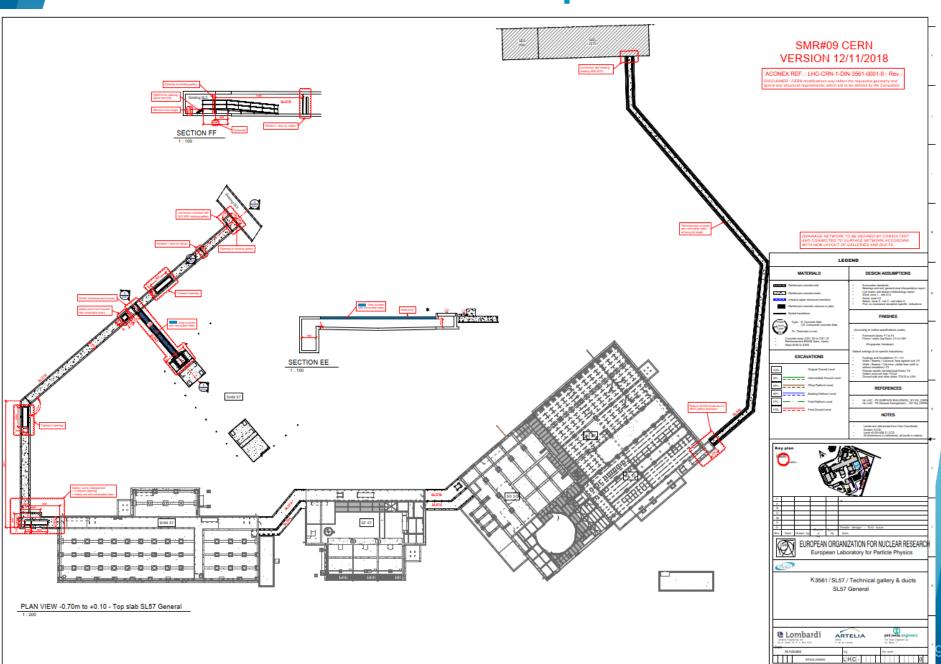
Point 5 before SMR process



Point 5 after SMR process



Point 5 after SMR process



Impacts

- Impact on HL performance → no impact (big impact if we do not apply the changes, as the integration of all services was not possible).
- Impact on schedule → no impact (not anymore the case for further requests)
- Impact on cost (Scope +)
 - P1 design: 46 kCHF
 - P5 design: 50 kCHF
 - P1 construction: 401 kCHF
 - P5 construction: 247 kCHF
 - Total: 744 kCHF





Thank you!