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# Technical Galleries Consolidation

## 1<sup>st</sup> Project Board

### Meeting minutes 12.11.2021

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**Present:** E. Delachenal, S. Evrard, S. Kleiner, A. Lopez, M. Nonis, R. Steerenberg,  
A. Alonso, A. Filinis, I. Krautzstrung, O. Prouteau.

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#### PRESENTATIONS

All the presentations given during the meeting can be found in Indico.  
Link to the Indico page: <https://indico.cern.ch/event/1094648/>

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#### Scope, Organization & status of the project

*Speaker: S. Evrard*

##### Discussion

Budget spending profiles will be updated during the next years. M. Nonis notices that the Project needs to be ready to confirm the budget of the coming years in March 2022 for the MTP 2022 exercise. S. Evrard informs that the first Cost and Schedule Review will be possible at the end of 2022 as earlier it would be too unsure to confirm more accurately this information, but S. Evrard assures that the current spending profile will change and be assessed again and presented at the May 2022 Project Board.

M. Nonis explains the informal agreement between SCE (previous Department head) and TG-CONS project made in the past. In case of budget shortage on one of the sides, both parties can decide to help each other using the TG-CONS general budget or SCE consolidation budget where activities are consistent with the objective of each project. N.Lopez reports that she is not aware of this agreement.

N. Lopez expresses her concern about common activities with NA-CONS. S. Evrard responds that the costs of installations belonging to their scope should be covered by NA-CONS. However, as the overall goal of TG-CONS is to treat whole galleries and installations, if some systems are not covered by NA-CONS and they run through the galleries under the NA-CONS area, they should be included in the scope of TG-CONS.



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## Pilot galleries and global risk register

*Speaker: A. Filinis*

### Discussion

A. Filinis clarifies that his presentation presented a work progress for the Work Package 19 – Integrated Safety. Part of the effort is the creation of a global document listing all the possible risks, which will be later identified and assessed for every gallery to be consolidated. The parallel step is creation of access plan to all galleries in Meyrin and Prévessin sites, indicating the preferred, safest entrances. M. Nonis comments that, as both documents are quite useful also once the consolidation completed, they will need to be constantly updated in the future and suggests contacting and passing this responsibility to SCE.

**Action1:** Contact SCE regarding the Integrated Safety documents update.

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## Quality

*Speaker: I. Krautztrung*

### Discussion

S. Kleiner and M. Nonis comment that the detailed scope of the project needs to be defined, otherwise TG-CONS will receive enormous amount of Consolidation Work Requests and Engineering Change Requests.

**Action 2:** Define the detailed scope of the TG-CONS Project.

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## Schedule

*Speaker: I. Krautztrung*

### Discussion

M. Nonis shares his opinion regarding SCE & CV piping works scheduled for 2022. M. Nonis believes that some of them can be performed simultaneously, on the contrary to presented constraints, which could be achieved by engaging just one contractor – such a solution would allow saving a lot of time. It will be further considered by S. Evrard as a PL.

M. Nonis points out that in his opinion water pipes systems surveys (with the exception of mapping of consumption) shouldn't take as much as 1 full year since SIG is supposed to have the updated plan of the whole network (drinking and firefighting). Regarding the drinkable water systems, the only information needed is if these systems need to be fully



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replaced or not, so M. Nonis suggests that the work could start earlier than in 2023 as currently scheduled.

**Action 3:** Consider rearrangement of SCE and CV piping works.

Contact SIG to get the updated water network plan, if not available at CERN.

*Additional topic:*

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- 1) *It is clarified that a ECR shall be made anytime there is a modification wrt to the baseline; this means that the replacement of an existing pipe with one of a different diameter, needs to be object of an ECR.*
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**Action 4:** Distribute specific guidelines to clarify the ECR process.

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## Budget and resources

*Speaker: S. Evrard*

### Discussion

N. Lopez comments that what she misses is the global view of what is included in the project budget and how it was calculated. M. Nonis explains that the budget was assessed rather quickly when he was still a PL without having a reliable inventory available. The cost was estimated using the standard cross-section per 1 m of gallery and services' refurbishment. Two factors were distinguished additionally: it was assumed that not all the galleries require 100% replacement of installations and have the same number of systems, which could decrease the cost. However, the second factor – rising the costs – is represented by the compensatory measures to be put in place during the ongoing works. S. Evrard admits that we have a good overview on heating pipes or access but EL and CV installations overview is still missing.

S. Evrard confirms that 3.9 M CHF budget for 2022 includes the cost of compensatory measures already defined.

E. Delachenal expresses opinion that the currently estimated budget can be too much for 2022. She notices that it is important to ensure that the manpower is available for the scheduled work.

**Action 5:** Prepare M2P request for MTP exercise.

M. Nonis asks how reliable the budget for 2022 is, taken into consideration that surveys are not finished yet. S. Evrard responds that almost all the groups released their estimated cost for works foreseen for 2022 but the budget can vary by 20-30%.

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## Questions to the Steering Committee

*Speaker: S. Evrard*

### Discussion

#### ***What is the project «lifecycle» expectation for this renovation: 30 or 60 years?***

S. Kleiner asks if it would be possible to map all the services in order to assess the lifecycle expectancy of refurbished galleries. When deciding whether the lifecycle should be equal to 30 or 60 years, Project Team should also take into consideration official French/Swiss regulations on how often specific systems must be replaced. M. Nonis notices that the choice of materials used in the galleries is mainly determined by the budget, meaning that it can be the limited budget, which will determine the possible and affordable lifespan of renovated galleries and systems. Another important point is accessibility in the new gallery arrangement which can give us the information if the replacement after a part of desired lifecycle will be even possible or if it is better to remove this pipe and install a new one now.

**Action 6:** Check the official French/Swiss regulations on how often specific systems must be replaced.

#### ***Desired temperature range of heating system (currently overheated water 125°C-105°C)?***

S. Kleiner adds that the temperature range of heating system was probably already decreased in Meyrin site. Energy Management Panel (EMP) and Environment Protection Steering Board (CEPS) could be concerned by this topic. The decision has to be taken jointly by SCE-SAM, CV, and other services (e.g.: HSE), this is not a decision of the TG CONS project; they should be contacted to confirm this matter.

**Action 7:** Contact SCE, CV and other relevant services (e.g.: HSE) regarding desired temperature range of heating system.

#### ***Gallery handled one by one or area by area?***

Galleries should be handled case by case, treating whole areas is acceptable and needed in certain cases.

N.Lopez considers that treating the galleries “one by one” only makes sense if an exhaustive survey of the installations (and their condition) and a detailed study of the necessary work are carried out beforehand for the entire area where the galleries are located. This would allow for a better overall vision of the project and more precise budget/schedule estimates.

#### **Orphan systems**

M. Nonis answers that the galleries are under SCE responsibility as tertiary premises and the responsibility of the system goes accordingly if orphaned systems are identified. This



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should be firstly discussed within the representatives in the Project, then, in case of no agreement with respective GLs, and then with DH.

### **Maintenance and Operation after renovation completion**

S. Evrard reminds that the maintenance and operation are not part of the Consolidation Project, therefore their costs are not included in the Project budget. M. Nonis notices that every group has its own maintenance budget and should be informed of every proposed change/improvement which could have an impact of future M&O costs. This is a mandatory step to assess if particular systems should be installed or not. It would be worth consideration to create a global, common maintenance budget request for different involved departments presenting a plan of additional budget needed to maintain installations during the next X years.

**Action 8:** Create a global budget request regarding maintenance and operation after the completion of galleries' renovation.

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### **Action List:**

<b>Action no.</b>	<b>Description</b>
1	Contact SCE regarding the Integrated Safety documents update.
2	Define the detailed scope of the TG-CONS Project.
3	Consider rearrangement of SCE and CV piping works.
4	Distribute specific guidelines to clarify the ECR process.
5	Prepare M2P request for MTP exercise.
6	Check the official French/Swiss regulations on how often specific systems must be replaced.
7	Contact SCE, CV and other relevant services (e.g.: HSE) regarding Desired temperature range of heating system.
8	Create a global budget request regarding maintenance and operation after the completion of galleries' renovation.

Minutes prepared by I. Krautztrung