



Project name	Project Name. Ex: "LIU PS Electron Cooler Powering System"										
Project owner	Name.1stname – SY-EPC-LPC										
Project back-ground	Context History (revision)	1.0 > 1.1 Re-integrating precision, earthing knowledge and last decision up to 2019-08. Replace the project in its current context: which machine, which converter used for what purpose. Ex: "In 2003, more than 750 60A-converters were installed in the machine, based on internal design."									
	Current issues	What is the problem the project intends to solve the pre-history, or current situation. It helps to understand the project foundations, and not to lose the reason for it. Ex: "In 2015, several radiation trips were encountered, all being located close to cell n°14. After many converter rotation, it becomes clear the level of radiation as this place is higher than in other place, and converter suffers from a radiation sensitivity".									
	Hypothesis guess, basis	It is possible to highlight the doubt, or unclear situations, even if starting a project. Also, an important meeting can be joined, if important in the foundation. Ex: "It was not possible to test the converter in a dedicated facility with a proper neutron beam, but it is highly suspected the converter is too weak, and especially on one dedicated card."									
	Preferred solution	Coming from a pre-study phase, or deduced from experience or even possible synergy with other project, the preferred solution should be indicated, as an initial - to be consolidated basis, or as a solid basis if the case. Ex: "Instead of redesigning the whole converter, the project is based on modifying only the inverter card...."									
	Identified challenges	Already identified challenges, at the date of writing of this document can indicate the risk level of this project. Ex: "Charm is OFF for the next two years, with the use of an external facility to be chosen and to work with for qualifying the new design."									
Project purpose	Ultimate purpose	The purpose of the <u>project stays unchanged</u> during the project duration. If the purpose of the project changes, the project is cancelled & another one take place.									
	Project Deliveries	Reference Unit		Qty op.	Qty sp.	Due Date	Circuit Name	Purpose			
		dfdfd		10	02	2017-01	RPMBB.				
Project Activities	Manage, Specify		Request, Purchase		Design, Study		Produce, Upg^d		Test, Validate		Install, Commission
	X	Plan, follow, report, specificity.	X	Order, request ext. / internal.	X	Design, study, evaluate.	X	Manufacture, build, upgrade.	X	Test, qualify, validate.	X
Project budget (estimation)	<p>76 000 CHF (58 000 CHF.op + 18 000 CHF.sp) on budget code XX XXX; it shall precise what is included in the cose, and represents the best estimation at this doc creation date.</p> <ul style="list-style-type: none"> • 04 000 CHF for 1.op CUTE/CANCUN Rack, not equipped with power converters. • 10 000 CHF for 2 (1.op +1.sp) <u>polarity switch modules</u> (4 kCHF / unit + 2 kCHF for re-design). • 04 000 CHF for 1.op <u>set of DCCT + ctrl elec. units (Crate,FGC, RegFGC cards)</u> for Cobalt Converter. • 05 000 CHF for manpower (TTE) and unexpected expenses. • The cost doesn't include FGCEther Units (Gateway, FGCEther EPI & Switch) nor the service infrastructure installation or work required (manpower) to actually connect the converter or racks to machine services or other required systems (interlock, FGCEther...). 										

Project scope Included (managed directly or delegated)	Managed directly by Project Owner	I _{m.1}	It clarifies the responsibilities of the project, what is included from it. It is certainly a highly critical point to validate at CERN, between different actors (installation phases).
		I _{m.2}	Ex-1: “The request to CCE for the required FGC/RegFGC3 material and HPM for DCCTs”.
		I _{m.3}	Ex-2: “Follow the project, and the different steps (progress), give status”.
		I _{m.4}	Ex-3: “Provide an installation procedure for the two units for easing EPC-OMS work”.
		I _{m.5}	Ex-4: “The purchase of all power sources, COBALT, CUTE”.
	Delegated to others by Project Owner	I _{b.1}	It clarifies the work which naturally enters the project, <u>but which is entirely or partially delegated and not fully followed by the Project Owner</u> , which can relies on internal or other section services for these specific tasks. For each, responsible is clearly stated & informed.
		I _{b.2}	Ex-1: “ All services request: AC, DC, Interlock, Field Bus in PS (EPC-OMS): Project owner will only give the “installation procedure of the converters”, the baseline.”
		I _{b.3}	Ex-2: “ The possible modification of FGC3 software if required (EPC-CCS): Information will be given to TE-EPC-CCS regarding the use of this converter in PS.”
		I _{b.4}	E-3: “ The installation of converters at their final location in PS (EPC-OMS): TE-EPC-OMS is in charge of the installation. Power Converter (Power Rack & Power Module) will be placed on Building 287 ready to be taken to final location by TE-EPC-OMS.”
Project scope Excluded (adding clarity to project purpose)		E.1	It's all about managing stakeholder or initial requester possible expectations, regarding the project purpose mainly. In clear, it represents some <u>surrounding activities or deliveries which could be added to the initial purpose of the project, but which is or must be excluded from it, giving ideally the reason. Exclusion has to be linked / connected to the purpose description.</u>
		E.2	
Constraints applied to the project (enhanced data for risk analysis)		L.1	It clearly defines the constraints placed on the project which can limit, re-orientate it, or which can also re-inforces its purpose: time, budget, acceptable actions or unacceptable solutions. Info here can allows to perform some quick risk analysis, focusing on main issues.
		L.2	Ex-1: “The delivery date cannot change, and no delay can be accepted. End of 2016 remains the ultimate deadline, even if installation could be foreseen before if possible.”
		L.3	Ex-2: “The project is tightly linked to the existing EPC converter; TE-EPC takes the unit from its operational spares. This converter cannot be changed, upgraded or other.”
		L.4	E-3: “The project is tightly linked to the matching between the final load + its use in operation and the converter limitations. Clearly, if the matching is incorrect, project is canceled.”
		L.5	