

PLANNING AND DELIVERABLES OF THE R&D STUDY FOR A HIGH POWER SPL

	2010			2011				2012				2013				2014				2015			
	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
SM18 - 2K Cryogenics (vertical cryostats)						x																	
Design and procurement of critical components			x																				
Construction and installation					x																		
SM18 - 2K Cryogenics (bunker)											x												
RF power																							
SM18 modulator											1*											2*	
SM18 - 704 MHz High Power RF												x											
Accessories																							
High Power RF couplers								4(8)															>8
HOM coupler design			x																				
Tuner									4														
Diagnostics																							
2 nd sound			x																				
T-mapping/inspection equipment							x																
High pressure rinsing eq't			x																				
Ultrapure water equipment (252)		x																					
Electro-polishing eq't																							
Clean room refurbishment						x																	
Superconducting Cavities + HOM couplers + tank He (Industry, CERN)							2	2														8	
Design SC cavities+ tank He			x																				
Technical specification			x																				
Sample cavity vert. test			x																				
Cu cavities				1																			
Procurement Nb				x																			
Manufacture SC cavities							2	2														4	
Manufacture tank He (Ti)							2	2														4 (3+1 SS)	
SC cavities vertical tests											x												
Tooling for string assembly in clean room											x												
Assembled string of 4 cavities + He tank												x											
Short cryomodule (4 cavities)											x												
Equipped short cryomodule												x											
High power RF tests in short cryomodule													x										
Assembled string of 8 cavities																						x	
8 cavities cryomodule																							
Equipped cryomodule																							x
High power RF tests in full CM																							x

x= finished

* Modulator 1: Scandinova

Modulator 2: CERN