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Sub-PSP code	Work Package	Next Milestone	Achievements	Current Activity	Critical Items	Schedule Status
		Long-duration				
		measurements; systematic				
		target optimisation; test of	Full vertical setup and operation	Tests with different nozzles. Target		
	Cluster target generator (A.	highest target thickness and	with scattering chamber and final	beam adjustment and beam	From 07/2015: No funding by	
1.4.1.02.1.1	Khoukaz, WWU Münster)	vacuum situation	beam dump	optimisation studies.	BMBF/Germany for invest	on time
	Roots Pumping system (A.	Installation of a new control			From 07/2015: No funding by	
1.4.1.02.1.2	Khoukaz, WWU Münster)	panel	Fully in operation	routine operation	BMBF/Germany	on time
	Electronic rack for cluster					
	generator (A. Khoukaz, WWU					
1.4.1.02.1.3	Münster)		Installation of main components			on time
	Communication line between					
	cluster target components (A.		Full direct and remote control of			
1.4.1.02.1.4	Knoukaz, WWU Munster)		target devices	Update of PLC routines		on time
	Test of the cluster target at the		Work loods defined. Drenegal for	Dreportion for installation at MACA at	From 07/2015. No funding by	
1 1 1 0 2 1 5	Mult Münster)	Installation at COSV	work loads defined; Proposal for	COSV torget place	PMPE/Cormony	on time
1.4.1.02.1.5	Slow control for local cluster target	Full direct and	beam time at COST accepted		BivibF/Germany	
	tests in Münster (A. Khoukaz	remote/automatic control of				
1 / 1 02 1 6	W/W/L Münster)	target devices	Full access to all target devices	Slow control program developments		on time
1.4.1.02.1.0	Gas supply system (1 Zmeskal		Cluster target in operation with a	Design of the final PANDA gas supply		
1 4 1 02 2 1	SMI Vienna)		test das supply system	system	Funding by Austria	on time
1.4.1.02.2.1		Signing tripartite In-Kind		System		
		Contract FAIR-NCBJ-UJ		Work on the Contract draft to convert		
	Slow control system (B	Krakow for the Slow control	Draft of the In-Kind Contract in an	it into an accepted document by both		
1.4.1.02.3.1	Zwieglinski, NCBJ Warsaw)	system	advanced stage	FAIR and UJ-Krakow administrations		on time
		Adaption to PANDA: design				
		studies on vacuum chamber				
		+ frame modification;			One turbo pump broken (no spare	
	Beam dump (A. Khoukaz, WWU	installation of monitoring	First version of cluster beam dump		device). From 07/2015: No funding	
1.4.1.02.4.1	Münster)	devices	available	Tests with cluster beam at Münster	by BMBF/Germany	on time

Risk item	Probability	Damage	Description	Impact	Mitigation measures	Remarks
Vacuum Situation at the PANDA Interaction Point	possible (po) <20%	moderate (mo)	Residual gas at the PANDA interaction point, originating from both the target sources as well as from the target beam dump due to back streaming, must be reduced as much as possible. A too high gas ackground can introduce antiproton beam losses and background events.	Residual gas at the IP reduces the antiproton beam lifetime and gives parasitic interactions with the accelerator beam increasing the experimental background.	Test of the beam dump at the PANDA cluster target generator. Improvement of the pumping speed and/or reduction of orifice diameters.Introduction of additional pumping stages.	