







- As today, the total testing time of the workflow is 22 days.
  - Testing time means : at cold, with temperature stabilized
  - Detector reception : 1 day (w)
  - Detector mounting : 1 day (w)
  - Vacuum + Cooldown (with stable conditions): 1 ½ day
  - Test : 22 days
  - Warm-up+ dismount+ Package : 2 days (1w)

Grand total : 27 ½ day

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\rightarrow One batch of 4 SCS = 55 days (\approx40 working days)
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- Schedule is given by batch of 4 detectors as it is foreseen to be delivered by NASA
- Full testing time (reception, mount, cooling, test, warm up, dismounting) of 42 (working) days is assumed

				ct 16	15	Nov :	16	20 Déc	: 16	24 Jai	n 17	28	Fév 17	0	4 Avr :	17	09 Ma	ai 17	13 J	ui 17	1	8 Jul 1	.7	22 Aoû
Nom de la tâche 👻	Durée 👻	Début 👻	Fin 👻	26	10	25	10	25	09	24	80	23	10	25	09	24	09	24	08	23	80	23	07	22 0
<ul> <li>Detectors / SIDECARS</li> <li>PRODUCTION &amp;</li> <li>CHARACTERISATION</li> </ul>	171.88 jours	Lun 19/12/16	Mar 12/09/17				Г																	1
SCS FM for NI-DS FM	171.88 jours	Lun 19/12/16	Mar 12/09/17				Г																	
NASA DELIVERY date for 4 FM SCS N°1 to N°4	0 hr	Lun 19/12/16	Lun 19/12/16				•	19/1	2															
FM N°1 to N°4 detectors characterisation/calibration	42 jours	Lun 19/12/16	Mar 28/02/17				Ĭ	•																
NASA DELIVERY date for 4 FM SCS N°5 to N°8	0 hr	Lun 13/02/17	Lun 13/02/17								▲ 13	3/02												
FM N°5 to N°8 detectors characterisation/calibration	42 jours	Mar 28/02/17	Jeu 27/04/17									*												
NASA DELIVERY date for 4 FM SCS N°9 to N°12	0 hr	Ven 31/03/17	Ven 31/03/17											<b>◆</b> _3:	1/03	1								
FM N°9 to N°12 detectors characterisation/calibration	42 jours	Jeu 27/04/17	Lun 26/06/17													#				h				
NASA DELIVERY date for 4 FM SCS N°13 to N°16	0 hr	Mar 16/05/17	Mar 16/05/17														<b>+ 1</b>	6/05						
FM N°13 to N°16 detectors characterisation/calibration	42 jours	Lun 26/06/17	Mer 06/09/17																	*				
FM need date for NI-DS integration	0 jour	Mar 12/09/17	Mar 12/09/17																		•			4



- There is no margin in the schedule and any HW problem has a important impact
  - This impact has been minimized by having spare parts of sensitive items (Lakeshore, Keithley, vacuum pump..)
    - No spare cryocooler (but possible to borrow one in another IN2P3 lab)
    - No spare Markury (but possible to borrow at INAF)
- But in any case, a simple problem happening during test cost about one day (data taking interruption and restart)
- A serious problem with need to warm-up and cool-down is about 5 days (≈1 day data loss, 1 day warm-up, 1 day solving the problem, 1 ½ day cool down)
- If needed a revision of test plan is possible
  - By giving-up reference detector (testing 2 SCS at time in each cryo)
  - By shortening some tests