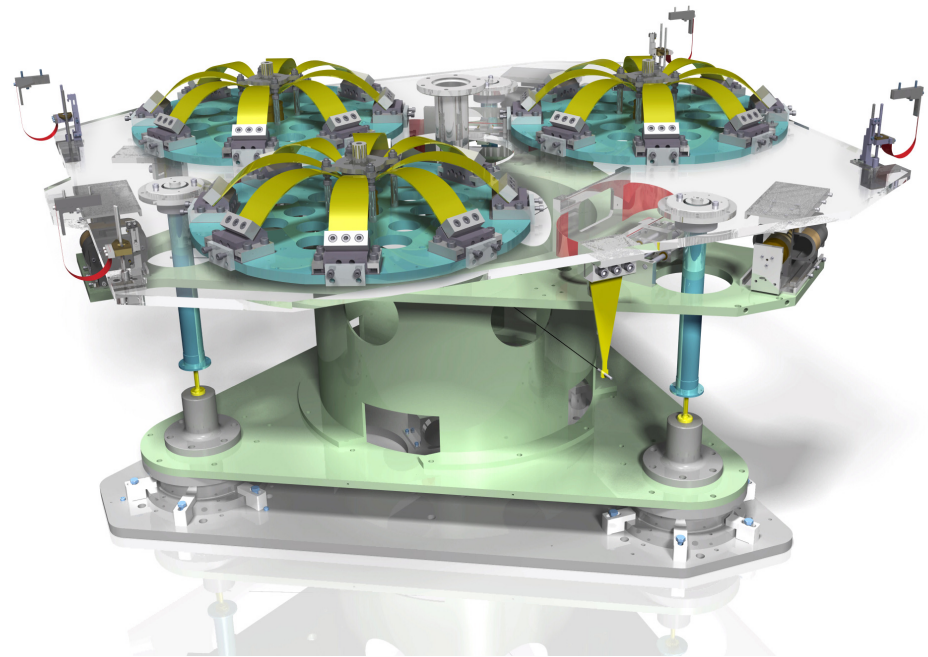
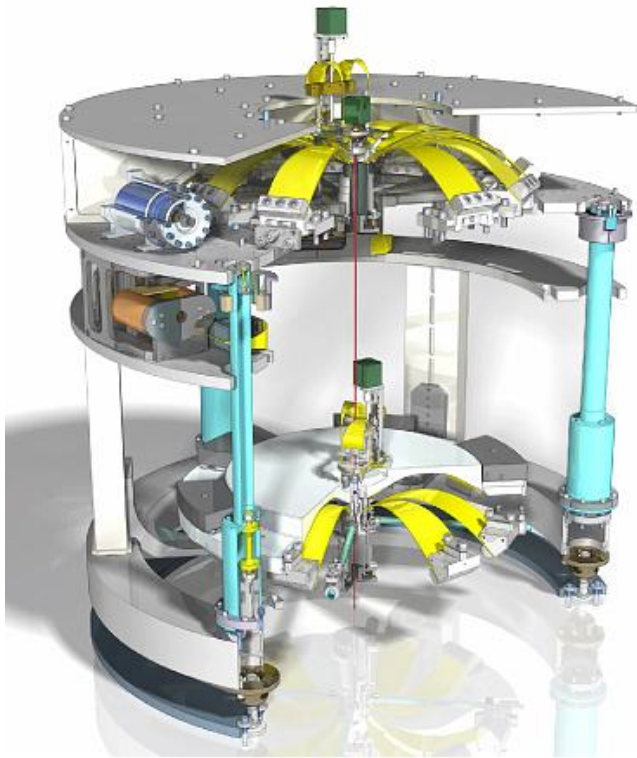


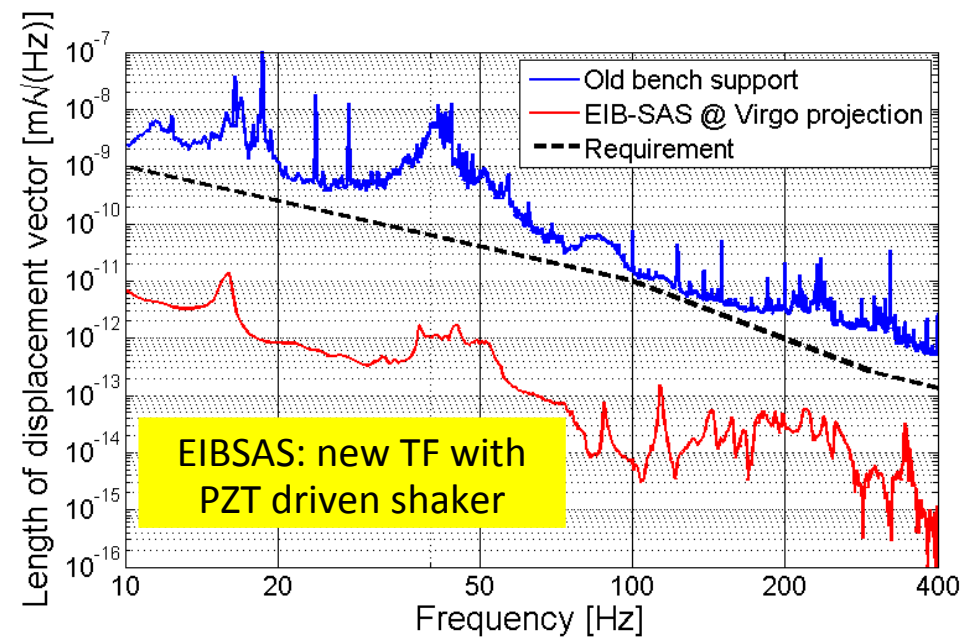
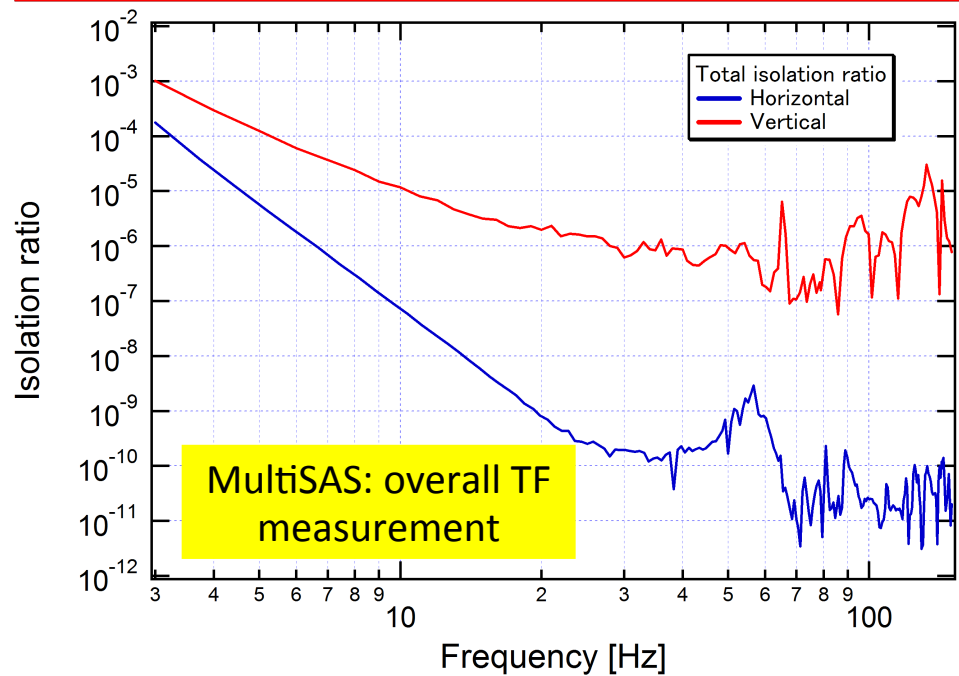
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# SBE status

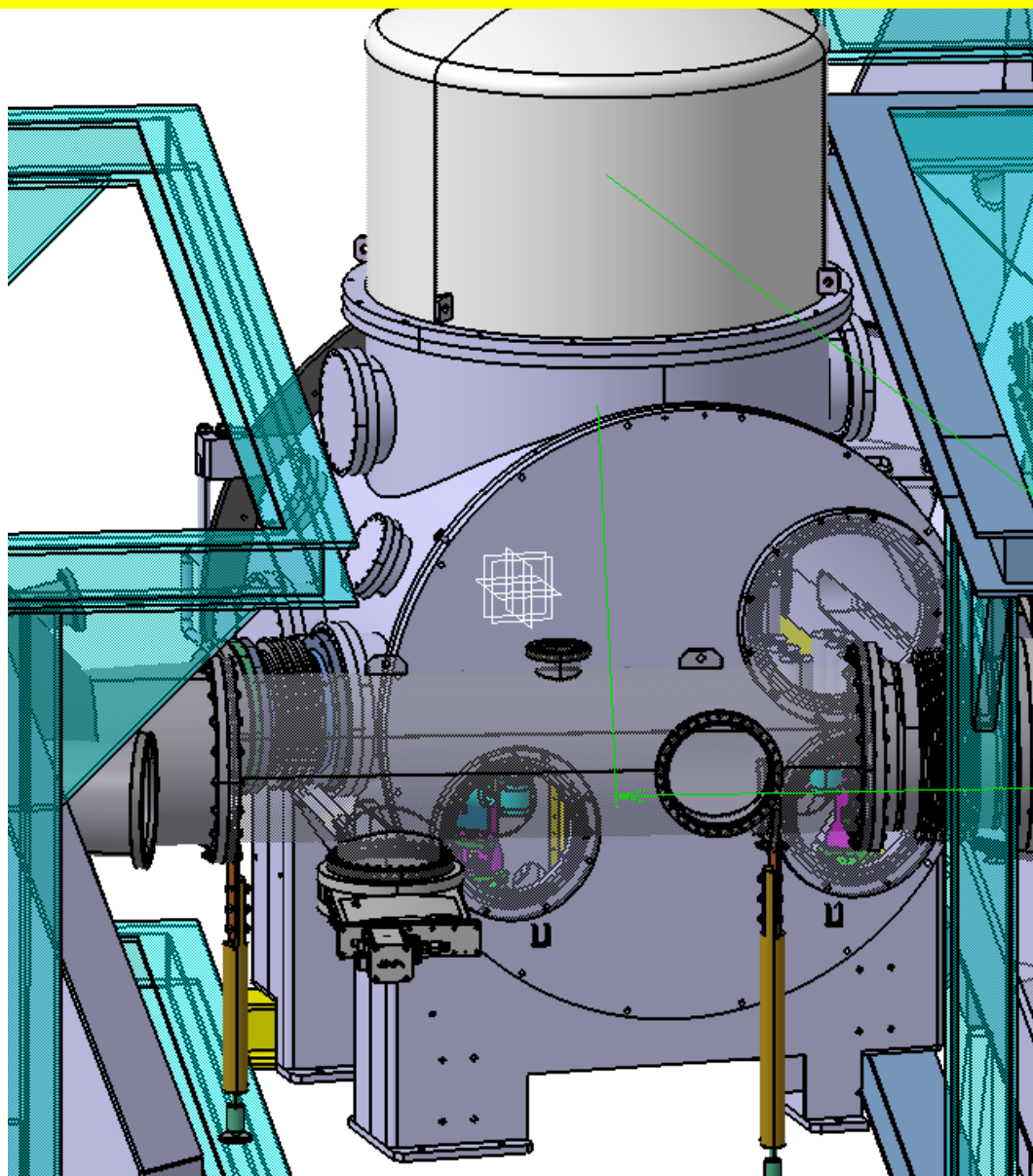
A. Bertolini (Nikhef)  
on behalf of SBE subsystem



# SBE status – Summer highlights



PR Pick-off minitower: design completed and order placed



# SBE status – Planning and budget

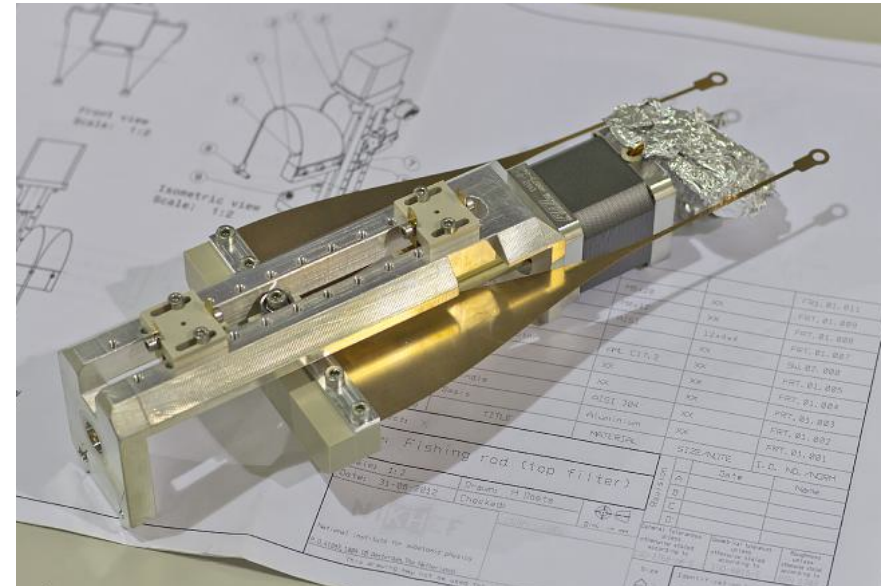
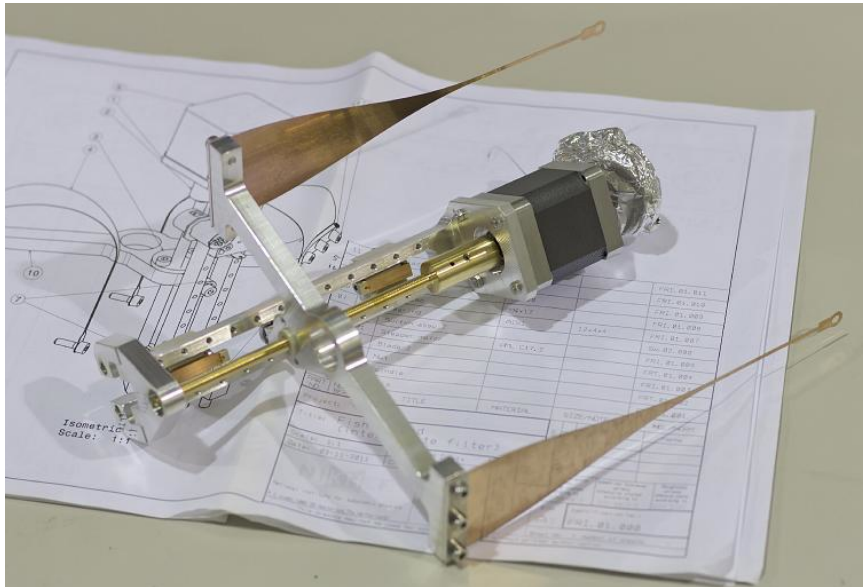
	A	B	C	D	E
4	<b>SS</b>	<b>Milestone</b>	<b>Original</b>	<b>New</b>	<b>Done</b>
5	SBE	SBE: EIB-SAS pre-commissioned	02/2012	02/2012	100%
6	SBE	SBE: First two minitowers order placed	03/2012	03/2012	100%
7	SBE	SBE: First two minitowers delivered	12/2012	01/2013	100%
8	SBE	SBE: MultiSAS production drawings ready	02/2013	03/2013	100%
9	SBE	SBE: Other minitowers design ready	04/2013	06/2013	100%
10	SBE	SBE: Other minitowers order placed	07/2013	07/2013	100%
11	SBE	SBE: MultiSAS for end benches construction finished	11/2013	11/2013	0%
12	SBE	SBE: EIB-SAS installed	09/2013	12/2013	0%
13	SBE	SBE: MultiSAS for SPRB, SDB2, SIB2 construction finished	09/2013	01/2014	0%
14	SBE	SBE: Minitowers for Central building installed	05/2014	05/2014	0%
15	SBE	SBE: SIB2 MultiSAS installed on site (pre-tuning done at Nikhef)	06/2014	06/2014	0%
16	SBE	SBE: Minitowers for end benches installed	06/2014	06/2014	0%
17	SBE	SBE: SPRB MultiSAS installed on site (pre-tuning done at Nikhef)	07/2014	07/2014	0%
18	SBE	SBE: SDB2 MultiSAS installed on site (pre-tuning done at Nikhef)	08/2014	08/2014	0%
19	SBE	SBE: SWEB MultiSAS installed on site (pre-tuning done at Nikhef)	07/2014	10/2014	0%
20	SBE	SBE: SNEB MultiSAS installed on site (pre-tuning done at Nikhef)	08/2014	10/2014	0%
21					

SS Statistics	%done	Committed	Cost	Man-years
Used today	###	1113	1113	#MACRO?
Total SS			1315	#MACRO?

# SBE status – MultiSAS construction – Inverted pendulum

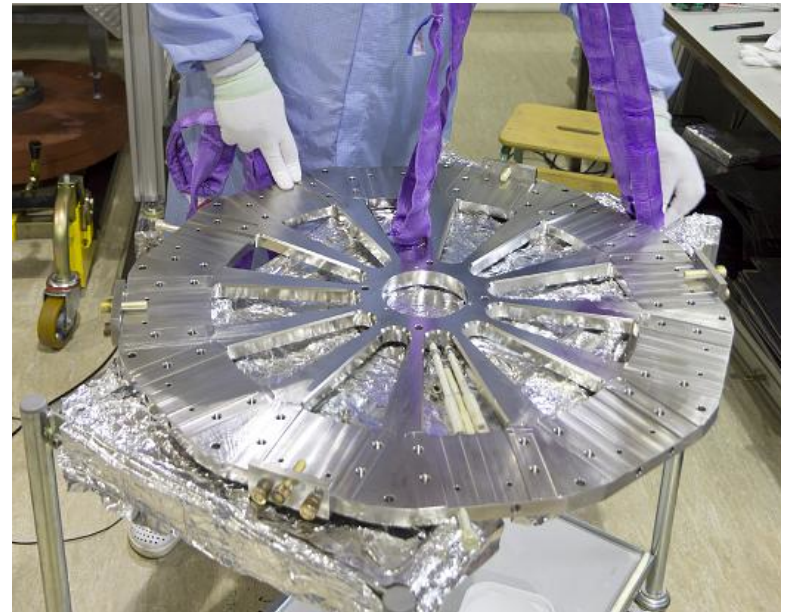
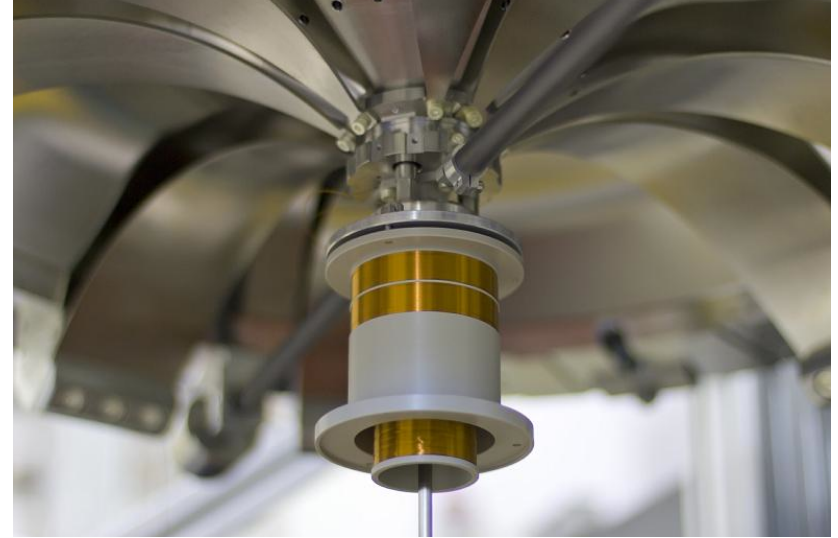
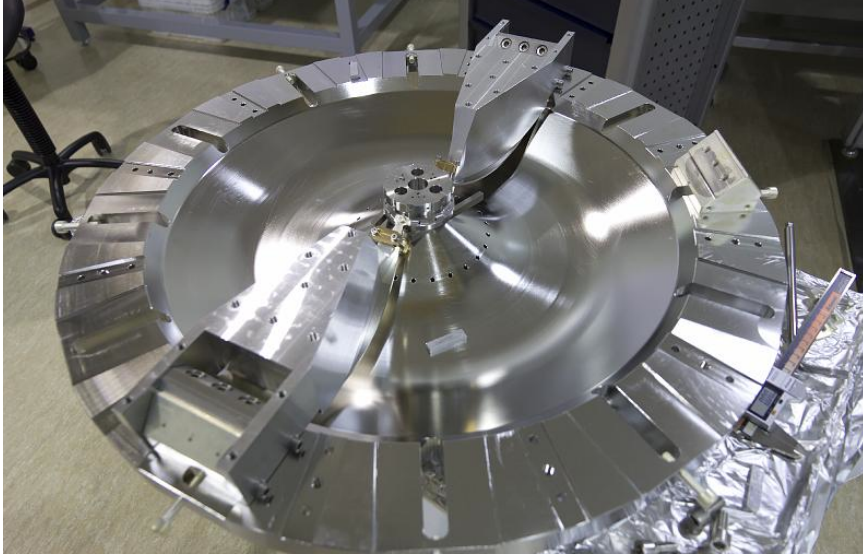


# SBE status – MultiSAS construction - Controls



# SBE status – MultiSAS construction – GAS filters

- All the 5 Bottom filters have been assembled and tuned to  $290 \pm 15$  mHz.
- The 'magic wands' have been tuned and  $> 80$  dB isolation is achieved between 30-100 Hz.



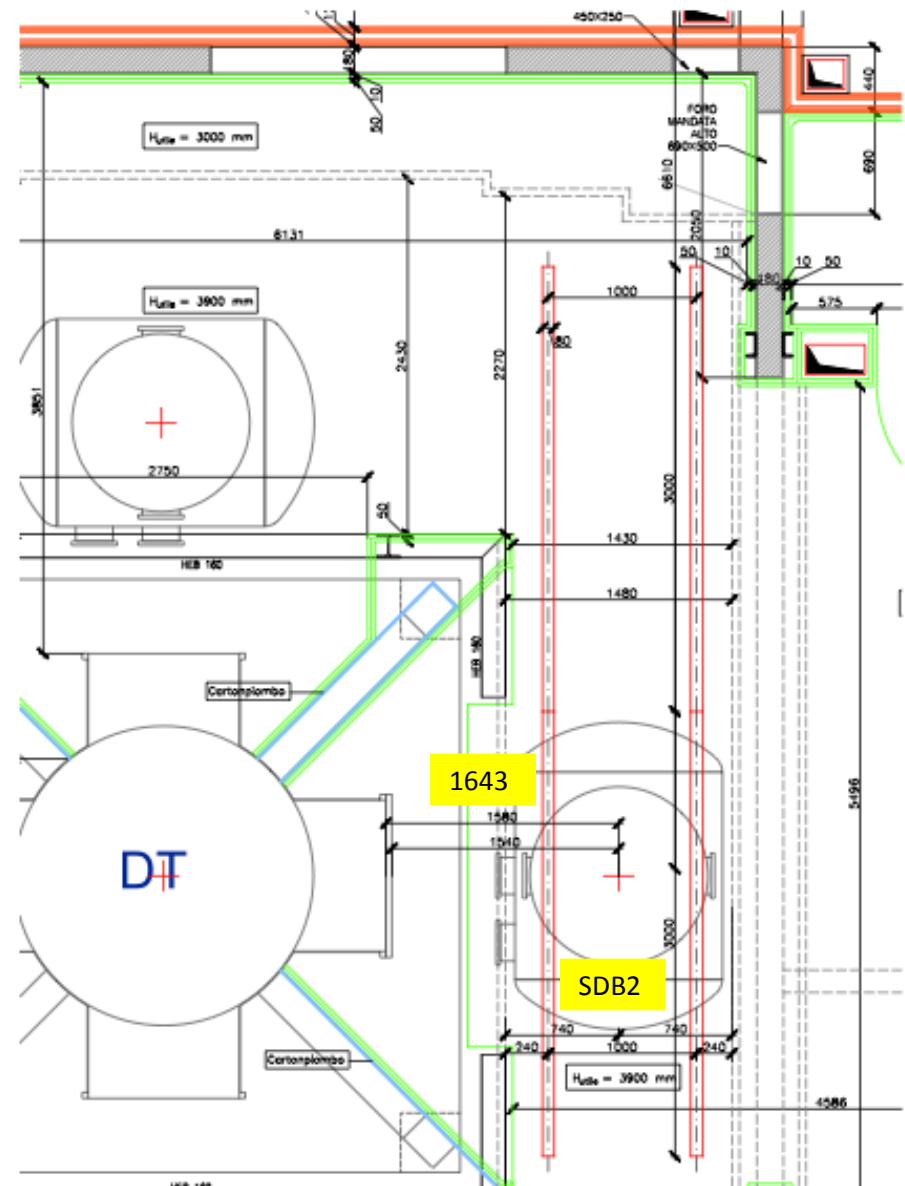
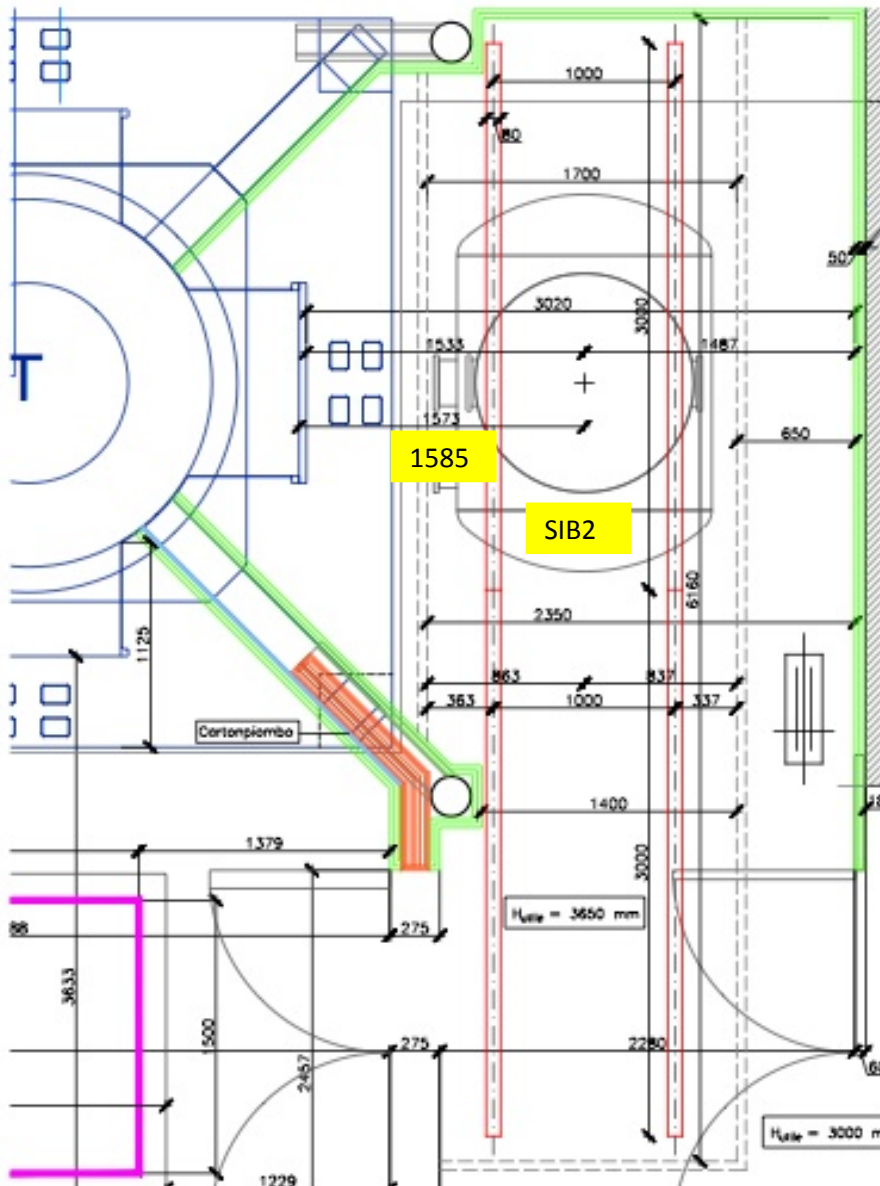
	Working point (kg)
BF1	310.60
BF2	307.19
BF3	308.31
BF4	309.36
BF5	309.78

# SBE status – MultiSAS construction

	A	B	C	D	E	F	G
1	<b>MultiSAS construction status</b>						
2							
3	Legend						
4							
5		ready					
6		ongoing					
7		to be done					
8							
9	Last update	11/19/13					
10							
11	Subsystem	SIB2	SDB2	SPRB	SNEB	SWEB	Comment
12	IP legs						
13	IP leg damper						
14	IP base and safety frame						
15	Horizontal LVDT/actuator mechanics						
16	Horizontal LVDT/actuator wiring						
17	Horizontal motorized springs mechanics						
18	Horizontal motorized springs wiring						
19	Horizontal geophone assembly						
20	Horizontal geophone leak test						
21	Top filter mechanics						
22	Top filter tuning						
23	Top filter baking under stress						
24	Top filter fishing rod mechanics						
25	Top filter fishing rod wiring						
26	Intermediate filter						
27	Intermediate filter tuning						
28	Intermediate filter baking under stress						
29	Intermediate filter fishing rod mechanics						
30	Intermediate filter fishing rod wiring						
31	MSAS full mechanical assembly						
32	Cable construction						
33	Cable installation						
34	MSAS test in-air						

- Some delay in wiring and cabling due to temporary lack of manpower. Now being solved.
- Top filter platforms needed partial re-machining. Back to Nikhef last week.

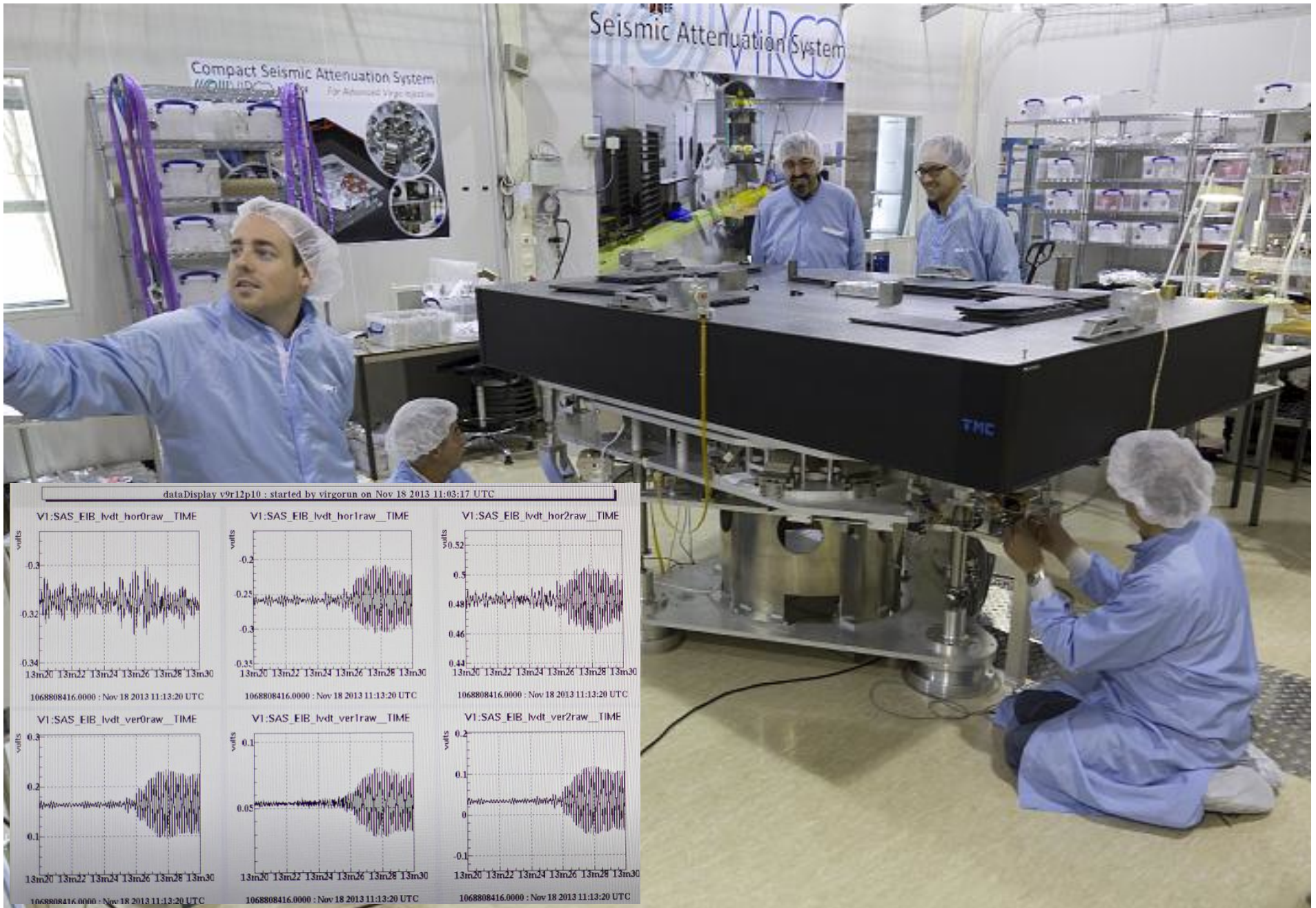
# SBE status – MultiSAS installation



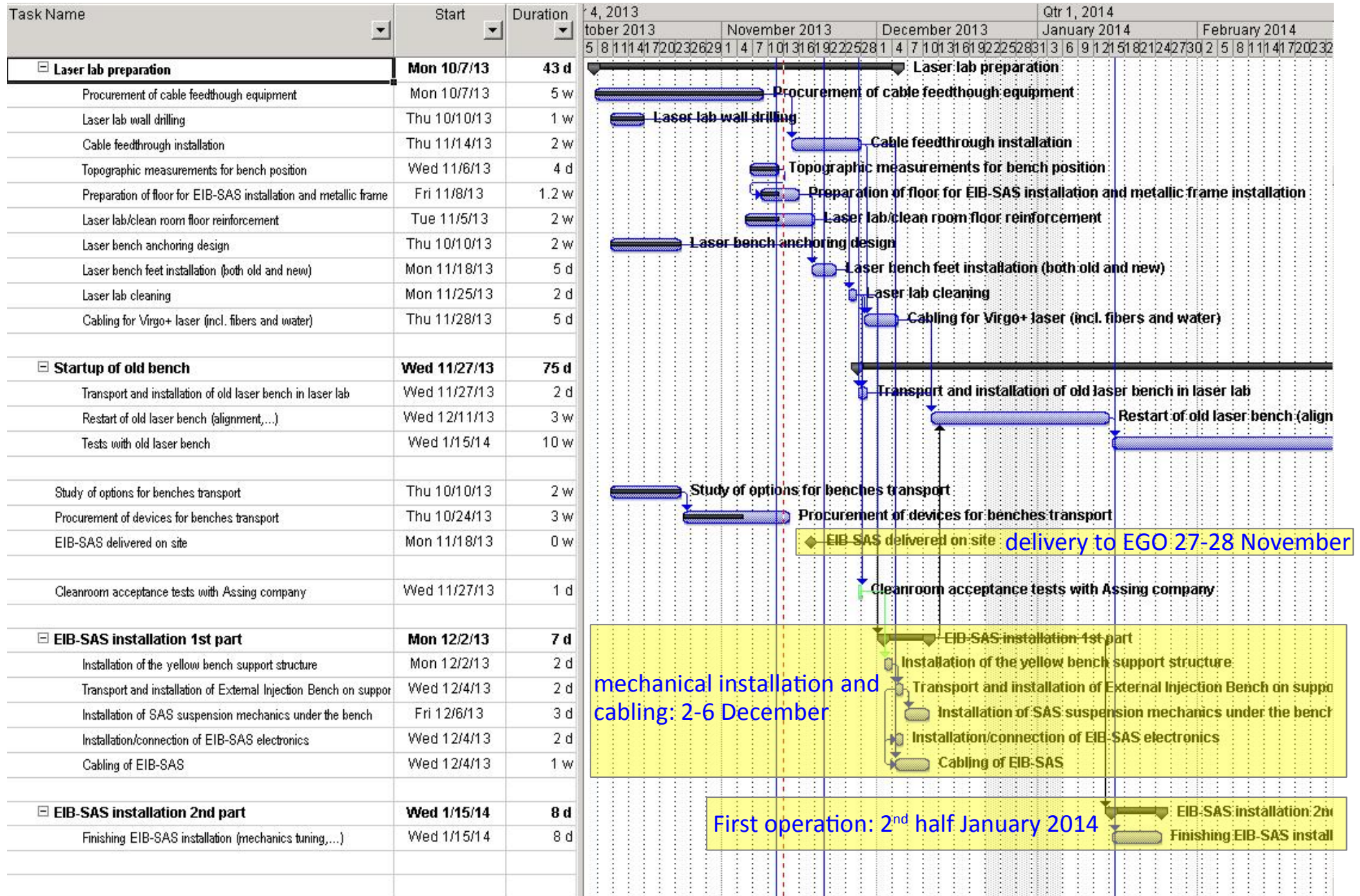
Positioning and installation procedure for the rails of the cupola lifting device in INJ and DET clean rooms has been discussed and defined with INF, DET, INJ and EGO.



# SBE status – EIB-SAS installation – Finishing touches



# SBE status – EIB-SAS installation



### Minitowers

- **SIB2** and **SDB2**: contract signed on July with SDMS.

Lead time: 6 months+holidays. Should make the task deadline of 19<sup>th</sup> March 2014.

- **SPRB**: awarded to Sominex on 17<sup>th</sup> September. Ready perhaps slightly later, but without impact on the planning.

### MultiSAS

- Construction of the 5 MultiSAS in progress at Nikhef.
- Orders for LVDT/actuator boards and feedthroughs placed.

### EIB-SAS

- Installation imminent !!!