

Scope of the 3rd ESAC review

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External Scientific Advisory Committee:

Giorgio Ambrosio (Fermilab) (Chair)

Chairman Shlomo Caspi (LBNL)

Pasquale Fabbricatore (INFN Genova)

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Yukikazu Iwasa (MIT)

Tatsushi Nakamoto (KEK)

Lucio Rossi (CERN)

The 3rd ESAC review



- This will be the last review before the end of EuCARD on 31 March
- We need the review:
 - For our technical progress
 - To assure we do not oversee something
 - To be able to present the EC with an independent view of our work
- The review is on the 2 most important (in volume, difficulty and potential impact) tasks of the work-package: the 13 T dipole and the HTS insert
- After EuCARD we want to continue the collaboration and thus will call new review(s) with the same committee: we want / need / insist on finishing the dipole and the insert and to harvest the result.

Charge of the third EuCARD review



Task 3, The dipole:

1. Is the study of the mechanical design sufficient?
2. Is the magnet construction process sufficiently studied to start coil construction?
3. Are there risks which have not been covered?
4. Is the schedule credible? (technically)

Task 4, The insert :

1. Is the conductor design adequate?
2. Is the study of the protection completed?
3. Are there risks which have not been covered?

Agenda, Day 1



Welcome - (09:00-09:10)

- Presenters: DE RIJK, Gijs; Mr. RIFFLET, Jean-Michel

Closed session 1 - (09:10-09:30)

Scope of the review - (09:30-09:45)

- Presenters: DE RIJK, Gijs

Task 3: The dipole - (09:45-18:20)

time	[id] title	presenter
09:45	[2] Responses to the recommendations of the second ESAC dipole review	Mr. RIFFLET, Jean-Michel
10:00	[3] discussion	
10:05	[4] Magnet design latest version	FERRACIN, Paolo MUNOZ GARCIA, Jorge Enrique
10:25	[5] Discussion	
10:30	Coffee	
10:50	[12] Structure assembly	PEREZ, Juan Carlos
11:10	[8] Discussion	
11:20	[14] FE model results and strain gauge measurements	MUNOZ GARCIA, Jorge Enrique FERRACIN, Paolo
11:40	[10] Discussion	
11:50	[11] Thermal models of the dipole,	Dr. PIETROWICZ, Slawomir
12:15	[49] Discussion	
12:25	Lunch	
13:55	[9] Magnet protection	FAZILLEAU, philippe
14:20	[13] Discussion	
14:30	[7] Conductor, status and performance of strand and cable	OBERLI, Luc-Rene
14:45	[15] Discussion	
14:55	[16] Coil manufacturing	RONDEAUX, Francoise
15:15	[17] Discussion	
15:25	[18] Preparatory tests for winding to reaction	DURANTE, Maria
15:45	[19] Discussion	
15:55	Coffee	
16:15	[20] Coil manufacturing from reaction, impregnation and instrumentation, RMC	PEREZ, Juan Carlos
16:45	[21] Discussion	
16:55	[22] Test station design and planning	BAJKO, Marta

Agenda, Day 1



ESAC Review, CEA Saclay, 27th February to 1st March 2013 / Programme

Wednesday 27 February 2013

17:15	[23] Discussion	
17:25	[24] Cryostat design and fabrication	VANDE CRAEN, Arnaud
17:45	[25] Discussion	
17:50	[26] Manufacturing plan	DURANTE, Maria
18:05	[27] Discussion	

Transport to dinner place, Transport back to Paris will be provided - (18:25-18:45)

Agenda, Day 2



Task4: The insert - (09:00-15:10)

time	[id] title	presenter
09:00	[35] General description of the insert task	TIXADOR, Pascal
09:30	[37] Discussion	
09:40	[39] Electromagnetic and mechanical design	DEVAUX, Melanie
10:10	[38] Discussion	
10:25	coffee	
10:45	[43] Technology development for the insert	REY, Jean-Michel
11:15	[40] Discussion	
11:25	[41] Quench protection , insert and combined insert-outsert	SORBI, Massimo
11:50	[42] Discussion	
12:05	[45] Past and future tests for the inserts	CHAUD, Xavier
12:25	[44] Discussion	
12:35	Lunch	
14:05	[36] Conductor for the insert	FLEITER, Jerome
14:30	[46] Discussion	
14:40	[47] Manufacturing planning	DURANTE, Maria
14:55	[48] Discussion	

Visit to the CEA workshops - (15:10-16:30)

Question and Answer session - (16:50-17:45)

transport from CEA to Paris - (18:00-18:45)

Agenda, Day 3



Closed session, report writing and discussions - (09:00-12:00)

time	[id]	title	presenter
10:30		Coffee	

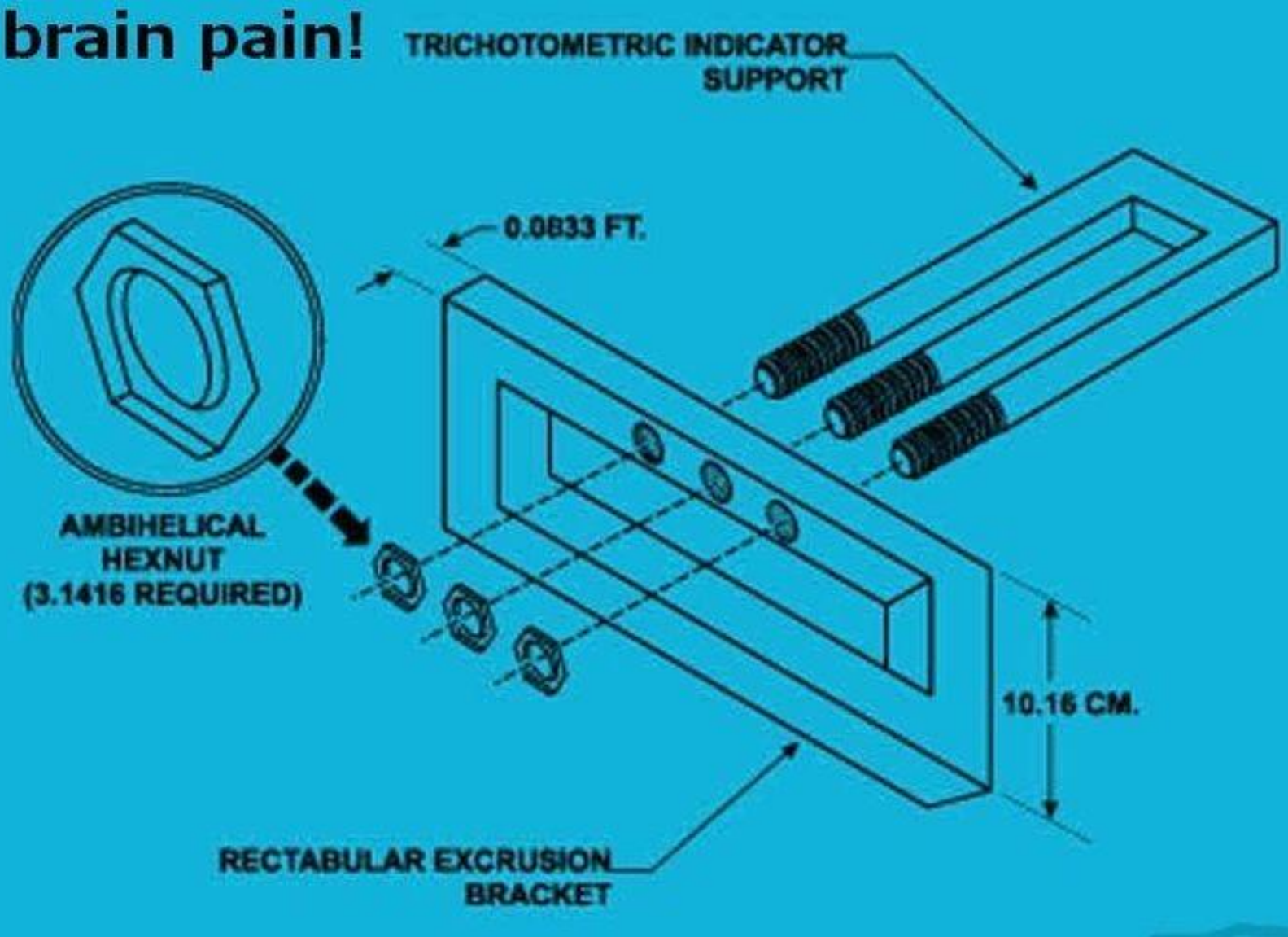
Closeout - (13:30-14:30)

transport from CEA to RER station - (14:45-15:00)

You will see lots of technical progress



brain pain!



Looking forward to your recommendations...

