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Towards the completion of the CEA Contributions to the Broader Approach Projects

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The CEA contributions to the Broader Approach projects, IFERC, IFMIF and JT-60SA which included the deliveries of components and services are now approaching completion. For IFERC, the supercomputer Helios, provided by CEA, will perform until the end 2016 its last runs after 5 years of operation close to its nominal capabilities. For IFMIF, the CEA contributions include the deliveries and the commissioning of the prototype injector, of the beam diagnostics and beam control system which are now ready at Rokkasho and the prototype of the high energy SRF LINAC for which the manufacturing and delivery of most components will be completed end 2016. For JT-60SA, the firsts TF coils have been produced and are now being tested at the cold test facility at CEA Saclay. The JT-60SA Cryogenic system is now being commissioned at Naka. The five superconducting magnet power supplies, in charge of CEA, have performed successfully the factory acceptance tests and will be delivered at Naka mid-2016. The first units of the mechanical structures of the JT-60SA magnetic field system, Outer Intercoil Structures and Gravity Supports were manufactured in 2015. This report synthesizes the achieved performances for all of these components manufactured and starts to draw the manufacturing and operation feedbacks gained by CEA in association with its industrial sub-contractors.

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Primary author: Dr VALLET, Jean-Claude (CEA)

Co-authors: Mr BOLZON, Benoît (CEA); Mr RENARD, Bertrand (CEA); Dr HOA, Christine (CEA); Mr MAYRI, Christophe (CEA); Mr GOUGNAUD, François (CEA); Mr ROBIN, François (CEA); Mr DISSET, Gael (CEA); Mr DAVID, Jacques (CEA); Mr MARRONCLE, Jacques (CEA); Mr NOÉ, Jacques (CEA); GENINI, Laurent (CEA); Mr BAZIN, Nicolas (CEA); Mr CHAUVIN, Nicolas (CEA); Mr BAULAIGUE, Olivier (CEA); Mr DECOOL, Patrick (CEA, IRFM, F-13108 St-Paul-lez-Durance, France); Mr BREDY, Philippe (CEA); GOBIN, Raphaël (CEA); Mr GONDÉ, René (CEA); Mr CHEL, Stéphane (CEA); Mrs LAMAISON, Valérie (CEA); Mr ABDEL-MAKSOUUD, Walid (CEA)

Presenter: Dr VALLET, Jean-Claude (CEA)

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