While the columns keep increasing in height (nearly 50 meters high for the left artery and 24 meters high for the right artery of the building), teams from the Vichy (France), Protestant (Spain) and Hotel (French) companies have started working at ground level to assemble the elements at the foot for the large hall. With over 6,000 m² of surface area, the assembly building roof will support several assembly lifting tools: two 750 tonne cranes and a beam with a lifting capacity of 1,500 tonnes for the assembly of the larger components; two cranes with a lifting capacity of 500 tonnes each to assemble the smaller components. A heavy lift on the same axis as beam 1,500 tonnes will complement this facility. The company MNW Nigel (REEL group) will deliver the first lifting tools next Autumn.

The heart of the site
Given its dimensions (35 meters in diameter and over 35 meters high), the organic envelopes of the ITER tokamak is one of the most imposing structures. The entire tokamak building will be built on two levels starting from the first slab. The construction of the first of these levels started in February and will continue until the end of the year. This level comprises the part of the envelope which will support the cooling jacket of the installation called the "cryostat". It makes this step one of the most complex to implement. The end of this construction is scheduled for early 2018.

Assembly of components of the inspection robot currently being installed on the Chinese tokamak "East" within the framework of a French-Chinese collaboration.

This inspection robot (an articulated arm) was developed by teams from the Magnetic Fusion Research Institute (CEA) in the framework of a Franco-Chinese collaboration. Being installed on the Chinese tokamak « East » within the framework of a French-Chinese collaboration. The end of this commissioning in 2015. The inspection robot is on a production line established in France and in 2016. On July 17 of this year, the first robot was presented to the environments of ITER for the first time. A second robot will be delivered in 2018. The high level of precision required for the operation of these robots makes them ideal for the maintenance of tokamak technologies. This robot will be used as a service tool for maintenance operators. For the next seven years, our aim is to continue to develop our local expertise and therefore generate local partnership opportunities. We would like to strengthen our ties with ITER and F4E in the field of integrating and contributing teams to participate in the development of future tokamak technologies. In addition, the French company SAR SAS will be in charge of the remote-controlled handling system for one of the ITER heating systems (the neutral injection device). As part of the newly established cooperation, the French company SAR SAS will be responsible for providing a specific lifting tool called a "monorail crane".

Since 2007, Interfaces is edited by the Agence ITER France and freely distributed upon request. It provides information about the ITER construction site in Cadarache which is financed by Europe and runs in close collaboration with the local scientific and technological community. The primary approach to participate in the development of fusion, « For the next seven years, our aim is to continue to develop our local expertise and therefore generate local partnership opportunities. »

A WELL-WRAPPED HEART

Remote controlled system #56 / June-July 2015

FRANCO-BRITISH COLLABORATION

The Amec Foster Wheeler group working with Provençal companies.

The Amec Foster Wheeler company has reinforced the "BRCA" consortium that it manages. It has welcomed the French company SAR SAS (1,000 people around the world) as part of the new contracts concluded with the European agency Fusion for Energy (F4E) involving an amount of 120 million euros, to participate in the design, manufacture and integration of a remote-controlled handling system for one of the ITER heating systems (the neutral injection device). As part of this newly established cooperation, the French company SAR SAS will be in charge of the remote-controlled handling system for one of the ITER heating systems (the neutral injection device). As part of the new contracts concluded with the European agency Fusion for Energy (F4E) involving an amount of 120 million euros, to participate in the design, manufacture and integration of this system to maintain the ITER fusion reactor in the framework of the "BRCA" consortium managed by the Amec Foster Wheeler company (1,000 people around the world).
UPDATE

THE ITER PROJECT IS UNIQUE DUE TO THE SIZE OF THE BUILDINGS CONSTRUCTED, TECHNIQUES USED AND SITE COORDINATION NECESSARY.

The teams are now present. It’s time for an update with the site works, during which some of the Vinci-Ferrovial-Razel consortium’s (VFR) professionals coordinate from Perpignan. The Vinci-Ferrovial-Razel consortium (VFR) is responsible for the construction of the ITER building in Cadarache, France. The project is expected to be completed in 2025.

The ITER construction site is a complex project with several construction sites launched simultaneously. It is also a unique project due to the size of the buildings constructed, the techniques used, and the site coordination necessary.

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