

TMP news



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Termomeccanica Pompe and Italy's new Nuclear Power Program

Despite the turmoil in the national political arena, the development plan for future nuclear activity is going ahead, albeit with a slight delay on initial plans.

Termomeccanica Pompe has implemented all necessary steps to gain qualification as one of the main Italian manufacturers of centrifugal pumps with the technical and organizational competences to tackle the nuclear market. The company is benefitting from the significant experience it gained during the establishment of the first nuclear power plants in Italy and, since then, from its work overseas.

Contacts with Enel which, in equal partnership with the French company EDF, has formed a company to study the feasibility of future Italian nuclear power plants are continuing with determination and a spirit of cooperation.

As far as the provision of pumps for the Conventional plants is concerned i.e. boiler feed water pumps, condensate extraction pumps and water circulation pumps, Termomeccanica Pompe already has the necessary qualifications, so there are no further formalities to be undertaken. With regard to the provision of pumps classified as pertaining to the BNI (Balance Nuclear Island) area of the plant, the qualification process of companies by Enel will start in the second half of this year.

Together with Enel/EDF, AREVA has also initiated a phase for the approval of Italian suppliers to supply equipment relating more specifically to the NSSS (Nuclear Island) section of the plant, for installations planned not only in Italy but also worldwide. Termomeccanica Pompe is among the first Italian companies to be contacted by AREVA for possible qualification; the process is currently in the initial RFI (Request for Information) stage. As is widely appreciated, AREVA is the company which owns the third generation technology for pressurized water nuclear power plants, known as EPR (European Pressurized Reactor) technology. Such technology has been adopted by the main European countries due to its very high level of security.

In order to provide an effective response to the demands of the nuclear power market, Termomeccanica Pompe has created a dedicated Task Force, coordinated by a "Nuclear Program Manager" and composed of leading figures from the various business functions - R&D, Design & Engineering, Procurement & Logistics and Production. Since the role of the Task Force will be primarily aimed at improving processes and organisation to ensure the highest level of quality standards, participation in the group of representatives from the Quality Assurance area is clearly anticipated.



Service Division Supervisors Reporting Software

As part of our ongoing efforts towards improved performance and complete customer satisfaction, the need became apparent for a database to hold reports of activity relating to the External Technical Assistance personnel of the Service Division. The project, initiated in early 2009, was completed and became operational in April 2010. Currently, the database contains more than 200 reports written by on-site personnel. The creation of a database accessible from every workstation arises from the difficulty of finding, in a single, quick-access "container", information on all machines installed and the type of interventions carried out. This frequent problem becomes more difficult with time.

The project objectives were, therefore, focused on:

- Monitoring and tracking of Service interventions;
- Full control of activities performed on-site by the group's various companies;
- Analytical tool for solving technical problems;
- Standardization of reports;
- Remote access to data.

Any engineer who returns from an on-site intervention has access to a PC workstation where he or she can access the database and complete a form with all the data relating to the machine(s) on which he or she has worked, including the time period, the type of intervention and other information necessary to track the activity. The database is completed by attaching the file containing the intervention report.

The database is searchable by all users of TMP through a web browser and it looks like a page from "Wikipedia". Here, users can carry out their own searches or, by means of the "Tag Cloud", they can click on a particular word which in turn leads to a page showing all records which contain that word. Constant attention to evolving technology is essential to meet the objectives set out in our corporate Mission, consistent with the philosophy of ARDE (Alla Ricerca Dell'Eccellenza - In Search of Excellence), the common thread underlying recent initiatives. The in-house publicity surrounding the creation of this database by the Initiative Competence Team as their "January-February 2011 Initiative" must also be noted.

TM.P. SpA Termomeccanica Pompe offers a wide range of products for the Power Generation Sector. For almost 60 years now, the company has been supplying pumps for thermal power plants of various technologies: conventional, combined cycle and geothermal.

TM.P. SpA Termomeccanica Pompe played a key role during the first phase of the Italian Nuclear program with the supply of pumps dedicated to the most critical services to all the national plants as well as a few plants in France.

This experience has allowed the company to develop its activities abroad too, more specifically in Argentina, Romania and, over the last few years, in India where pumps are in commissioning phase for the plants of Tarapur and Bhavini.

Within the New Italian Nuclear Program, Termomeccanica pompe has already begun the qualification procedures with ENEL/ EDF (EPR technology) and with Ansaldo/ Westinghouse (AP) 000 technology) so as to conform to the new national standards being issued.

With the know-how acquired as well as the operational facilities at its disposal on its production sites, the company is ready to significantly contribute to the new Italian Nuclear Program.

Termomeccanica Pompe
La Spezia - Italy
THE POWER OF A GROUP
Engineered Pumps & Global Service for
Power Generation
Water
Oil&Gas

Think innovative

Plant: Bhavani Nuclear Power Plant
Flow rate: 49,000 m³/h • Head: 20m • Power: 2,500 kW

TM.P. advertorial in the Environmental Monitoring special issue released with Il Mondo n.12 - april 2011

Termomeccanica Romania: Centre of Excellence for Engineering and Procurement of the Termomeccanica Pompe Group

Romania is a country with a long history of agriculture and industry resulting in a significant level of demand for energy. In this context, Termomeccanica Pompe, with its products and its expertise, entered the Romanian market in the '80s as both a supplier of rotating machines & systems equipment and a customer for local manufacturers who provide the components for the pumps which the company produces. Today, Termomeccanica Pompe is present in Romania with its machines installed inside the largest energy generation plants, be they nuclear like CNE Cernavoda, or conventional like CE Rovinari, CE Isalnita and CE Craiova II.



Cernavoda Nuclear Power Plant
Booster Pumps - pump type 400 DP 80

In early 2005, the experience gained in Romania and the possibilities that this could open up to Termomeccanica, created awareness of the opportunity to establish a local company. This would enable a more dedicated and qualified presence in the area and, at the same time, provide support for both the Engineering and Procurement Departments of the head office. With this in mind, in August 2005 **TM.P Termomeccanica Romania** was born, with its headquarters in Bucharest. Over the years, the company has grown and today it has some 15 staff members involved in commercial activities, engineering and scouting, as well as qualification and management of suppliers in Eastern Europe. More specifically, we can now say that the **Engineering Department** has completed the initial training phase. This covered

both knowledge of our products and also of the various software packages we use. Our Designers in Bucharest are now able to design the full range of Termomeccanica pumps. This represents an essential support for both the Engineering Department handling the engineered pumps range as well as the one involved in API610 pumps.

Procurement activities have, on the other hand, been focusing primarily on procurement of various types of fabricated items, such as basements, foundation rings, columns, discharge elbows, motor stools and equipment for test centre, etc. If these components were initially provided only in carbon steel, today, as a result of training and direct cooperation between Termomeccanica Romania and qualified Romanian suppliers, fabricated items are also being made using other, more notable, materials such as stainless steel, duplex and super duplex. These components are delivered to the plant in La Spezia fully machined, certified & tested, and ready to enter "free pass" into the workshop for final assembly into our machines.

At this point, we are ready for a further step forward in Bucharest which will involve the creation of a true Centre of Excellence for "fabrication", where collaboration between designers, technologists, SQE (Safety Quality Environment) and our Romanian partners will allow us to optimize design, sheet metal cutting and engineering techniques in order to obtain top quality components, both structural and geometric, at lower cost.



Discharge elbow made of mix of carbon steel and stainless steel, type 316L, to be installed in a Pakistan plant

A.R.D.E. Project Reaching for Excellence Year 2011 Program



Commitment to the A.R.D.E. Project continues. During the course of the first months of the year, the new training activities have been initiated. The new editions of the **English Language** courses have started and soon the updates on **Safety in the workplace** will continue. As for the **path to Cultural change**, developed with the support of I.E.N. (European Institute of Neurosystemics), a plenary session focused on updates on the initiative took place last February 10th. The Competence Teams, the groups "guarding" the five company competences, were the leading protagonists of such meeting. They presented the projects they already carried out as well as the ones in progress. Further to the competence workshops organized by the Responsibility, Initiative and Team Work teams from December 2010 to January 2011, the Foreseeing & Solving Problems team has launched the blog area of the company "wiki" and the Focus on Company Objective team also started working on an internal customer satisfaction project.

flash news

Latest Order Acquisition

Termomeccanica Pompe has been awarded by Ansaldo Energia a contract for the supply of no. 2 Boiler Feed Water Pumps, type MESD 150.10, and no. 2 Condensate Extraction Pumps, type CEXD 250.5. Such pumps are to be installed in a power plant located in Sousse, Tunisia, with delivery expected in 2012.

This is a single-shaft combined cycle plant with total power of 400 MW, owned by the Société Tunisienne de l'Electricité et du Gaz (STEG).

As for the Service Division, this year has had an excellent start, with the acquisition of important contracts during the first trimester.

In Russia, in fact, the collaboration with the Volzhskij Pipe Plant continues. Volzhskij Pipe Plant is the flagship of its owner TMK, the world leader in the production of pipelines.

The latest order placed with TMP, which provides a technological upgrading and modernization of the plant, follows those already made over the recent years, all related to the replacement plan of TMP's old vertical pumps installed during the early eighties and still running today.

As for the African market, Termomeccanica Pompe will supply Warri petrochemical plant in Nigeria, owned by Nigeria National Petroleum Corporation (NNPC), with the upgrading of both materials and performances of the circulation pump unit, type 600DD56.

Participation to International Exhibition

Termomeccanica Saudia Co. Ltd. will participate to WEPOWER 2011 as an Exhibitor. WEPOWER, taking place from May 14-16, 2011 in Dammam, located in the industrial heart of the KSA, is one of the most important Conference & Exhibition of the Middle East focused on Water, Electricity & Power Generation.

The editors of this issue are:

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Our mission

To contribute to the success of our customers through our experience and know-how. We pursue this goal giving the utmost consideration to the hard work and commitment of employees and suppliers, respecting Environment and complying with expectations of our Shareholders.

