TMP news

Project Reference Person
Aldo Sammartano
Editor TM.P. S.p.A. Termomeccanica Pompe
Project Developed in-house
Authorisation from the tribunal of La Spezia
N. 5/08 dtd. 02/12/2008

TM.P. S.p.A Termomeccanica Pompe
Via del Molo, 3 - La Spezia - Italy Tel. +39 0187 5521 - Fax 0187 552506
e-mail: pumps@termomeccanica.com - http: www.termomeccanica.com

September 2011, issue 03

TMP Participates to the MO.S.E. Project with Venice Naval Dockyard

As pre-announced in our April 2009 issue, the dock emptying pumping system supplied by our Service Division and delivered to the Customer at the end of 2009 was recently commissioned upon the completion of the overhauling works of the Venice Naval Dockyard's Middle Dry Dock.
The aim of such overhauling works was to make this dry dock fully efficient in view of the programmed maintenance works of the "MO.S.E." project's moveable bulkheads.
(**MO.S.E.** is an acronym for **MO**dulo **S**perimentale **E**lettromeccanica i.e. Experimental Electromechanical Module)

As is well known, MO.S.E., a project in progress, is an integrated system of protective works consisting of a series of foldaway moveable bulkheads able to isolate the Venice lagoon from the Adriatic Sea during high tides.
The acceptance tests of the system took place starting from April 18th 2011 and were witnessed by the Customer, operating the Dry Dock (Costruzioni Arsenale Venezia), and by the End User (Magistrato alle Acque – *Water Magistracy*).
During the weeks prior to such tests, our electrical and mechanical supervisors supported the Customer for the installation of the main pumps (TMP model 60 C1PPA 95), the bailing-out pump (TMP model CPP 200), the piping, the regulating and check valves as well as the control panel which includes the inverters regulating the rotation speed of the main pumps' motors.

The system is also set to work remotely from the control room, avoiding the necessity to go to the pumping room where the control panel is located.

The tests were divided into three sessions taking place over three days:

- During the first day, the dry dock was half-filled (-5.5m MSL) and the main pumps were consecutively started. The pumps functioned regularly until the water level of the dry dock reached the aspiration grilles of the pumps piping; at this point, as planned, the bailing out pump had to be activated and completely emptied the dry dock. This test's aim was to check the behaviour of the main pumps under critical aspiration conditions (minimum level).

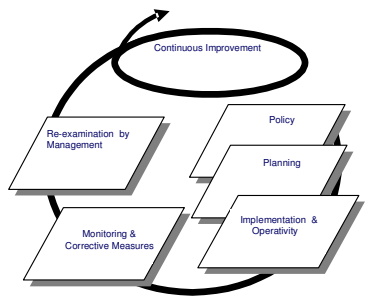
- During the second day, the dry dock was filled completely (0m MSL) and the main pumps were consecutively activated at full rotating speed. From the panel control, the Termomeccanica Pompe supervisor reduced the rotation speed according to the lowering of the dry dock water level. This test was performed manually so as to calibrate the automatic regulation of the inverter.

- During the third day, the entire system was tested under operating conditions: the dry dock was filled completely (0m MSL) and the main pumps were consecutively activated at full rotating speed, and, through the automatic regulation operated by the inverter, the pumps drained the dry dock up to the grilles level. The regulation of the rotating speed allows the pump to always work at the maximum efficiency level, with considerable savings in terms of electric consumption and of wear of the rotating parts.

The performances of the pumping system supplied by TMP, even in terms of hourly flow rate, have been fully satisfying: the completely filled dry dock gets emptied in less than 3 hours, cutting by half the time it took the previous pumps to perform the same operation.
The success of the installation has laid the grounds for a beneficial collaboration between Termomeccanica Pompe and Cantieri di Venezia regarding both the Global Service activities on the installed pumps and the future modernization of the Great Dry Docks, also planned in the works financed by the MO.S.E. project.

OHSAS 18001:2007 Certification for the Companies of the Termomeccanica Group

The following companies of the Termomeccanica Group of La Spezia
TM.E. S.p.A. Termomeccanica Ecologia,
TM.P. S.p.A. Termomeccanica Pompe,
TM.C. S.p.A. Termomeccanica Compressori e la TM.P. Termomeccanica Service Sud (Massafra – Taranto), already certified ISO 9001:2008 and ISO 14001:2004, have implemented a Safety Management System (SMS) integrated with the Environment Management System (EMS), thus obtaining last July the OHSAS 18001 certification from Lloyd's Register Quality Assurance.
The OHSAS 18001:2007 standard and the relative OHSAS 18002 "Guideline for the implementation of the OHSAS 18001issued by the BSI (British Standard Istitute) have been developed to respond to the customers need for a Health & Safety management system for the workplace with which to check and certify their own management systems.
While the Legislative Decree 81/2008 "Consolidated Act on Health & Safety in the workplace" is a legally binding norm and as such must imperatively be respected, the OHSAS 18001 provides the guidelines to operationalize an organizational-managerial system which:
- is in compliance with the obligations deriving from the decree itself (article 30), thus excluding the administrative responsibility of legal persons (legislative decree 231/01) and
- allows to prevent risks for workers, reducing industrial accidents & diseases and therefore reducing insurance premiums.
All of which through a prior evaluation of risks and their reduction by means of preventive actions deriving from a "continuous improvement" plan.



The L'OHSAS 18001:2007 has been developed so as to be compatible with the standards of the ISO 9001:2008 (Quality) and ISO 14001:2004 (Environment) management systems and so as to facilitate the integration of the Management Systems related to Quality, Environment and Health & Safety in the workplace.
The Termomeccanica Group considered the new Safety-Environment Management System an essential requisite to reinforce its position on the market.
We report below, as supporting evidence of what said above, the statistical data relative to the certified Italian companies (October 2010 update)

CERTIFICATION	ISO 9001	ISO 14001	OHSAS 18001
ItalY	115.190	12.981	2.609
Liguria Region	2.541	452	102

This data brings out the fact that the companies of the Termomeccanica Group have become part of the restricted group of Italian companies possessing all the main certifications relative to their own management systems.
Furthermore, a recent in-depth economic analysis related to the adoption of a new organizational model by the Group, taking into consideration the prevention, implementation and maintenance costs of the system as well as the resulting benefits, has revealed that the return on investment was to be expected within a much more favourable period than originally evaluated.

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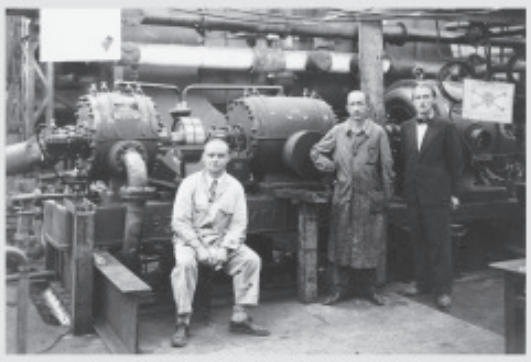
pumps@termomeccanica.com
www.termomeccanica.com

Initiative Competence Team : Suggestions for Termomeccanica's 100th Anniversary

The Initiative Competence Team (CT) has proposed, through the use of the existing company's "suggestion boxes", the collection of suggestions and initiatives related to the 100th anniversary of Termomeccanica to be celebrated in 2012.
The initiative was launched on May 1st and ended on May 30th , resulting in the collection of more than 20 suggestions from the entire TMP organization. The suggestions were forwarded to the CT on forms specifically created for the occasion.Such a positive response from the personnel of the company reflects their willingness to actively participate to next year's celebrations.
Management is in charge of examining the suggestions collected and their possible implementation. It has already expressed its appreciation related to the number and quality of the suggestions made, such as, for example, the organization of an ***"Open Day"*** during which the company would open its doors not only to the families of its personnel but also to the city of La Spezia as well as to Customers and other Partners.



First Training Session on DISCO Software for the Engineering and R&D Team of Termomeccanica Compressori

The first training session on "DISCO" was held at City of London University from July 26th to August 1st , software which aim is the parameterization and design of the profiles for screws used on TMC compressors.
The DISCO software, created by Prof. Nikola Stosic and his team, is a latest generation tool able to calculate the theoretical performances of a screw compressor based on an existing profile, or, vice-versa, given the expected performances, to supply a potential profile applicable to a compressor.
The software was originally designed and continues to be developed based on the exchange of information and collaboration with user companies like Termomeccanica Compressori.
Feedback on the results obtained when interfacing DISCO with design software available on the market such as Solid Edge® is particularly useful.
The collaboration project with the City of London University falls within a one of Termomeccanica Compressori's outstanding Research projects, project for which the support and involvement of local Universities is also of great relevance and value.
In this specific case, TMC activities have indeed been carried out with the help of the University of Genoa, with which the company has initiated a Research Doctorate project. Such project has already lead to the admission of PhD students inside Termomeccanica Compressori.
The relationships established with the City of London University and the University of Genoa offer a company like TMC the opportunity to provide the scientific world with a "practical" know-how, resulting from years of on the field applications.
Vice-versa, the collaboration with such two Universities gives TMC a more accurate and comprehensive vision on design processes and approaches.
In conclusion, collaborating with national and international institutions on Research & Development represents for Termomeccanica Compressori a key resource for its competitiveness on the market.

**In the picture (from right to left):
Eng. Enrica Argentini (PhD student from UNIGE at TMC), Eng. Mauro Chiappini (TMC's R&D Manager), a lab technician from City of London (CL), Prof. Nikola Stosic (CL), Eng. Simone Carluccio (TMC)**

Foreseeing & Solving Problems (FSP) Competence Team: Sponsor of TMP's Company Blog

The promotion of the Blog area of the Company's Wiki is one of the projects being implemented by the FSP Competence Team.
To refresh memories: TMP's Wiki is the tool which was born a few years ago from the necessity, especially with regards to technical issues, to gather and make available to all users the information representing the company's know-how.
The Wiki, as a Management tool of Company Knowledge, is structured as an interactive encyclopedia, in which the user can not only search a topic of his/her own interest but also contribute to the enrichment of the contents related to such topic.
Given the sensitivity and highly technical aspect of the issues discussed, the Company Wiki is currently dedicated to the Technical Area only.
However, the FSP Competence Team has recognized in the Wiki's Blog section a tool with the potential to contribute to the divulgation throughout the company of the experience(s) gained in solving operational problems, which are not only confined to the Technical Area.
At the beginning of 2011, the Blog area has therefore been activated as a Wiki section accessible to all TMP personnel in which discussions can be suggested on any company topic.
To date, there are 3 active discussions, namely:

- Job-site equipment management
- Left-over stock of materials at end of job
- List of recurring problems in the Production Area.

flash news

TM.P. wins an important contract in Turkey for the Power Generation sector

The contract is related to 4 boiler feed water pumps to be installed in the 865MW combined cycle plant which will be built by Ansaldo Energia in the city of Gebze, located in the industrial district of Istanbul. The owner of the plant is Yeni Elektrik Uretim AS, a company in which Ansaldo Energia holds an equity stake of 40%.
The 10-stage ring section type pumps, with first impeller of double section type, will be equipped with hydraulic turbo-coupling (which will allow rotation speed variation based on the Power Plant workload), minimum recycle valve and suction filter.
Deliveries are planned for August 2012.

The editors of this issue are:

G. Bongiorno
S. Carret
M. Lombardo
A. Maianti
F. Orsini
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A. Stoppelli
F. Torpia