

Titan America ALLC

Titan America ALLC, formerly Tarmac America, has placed an order with FLSmidth for the expansion of its Pennsco plant located in Medley, Florida, USA.

FLSmidth is to expand the capacity of the plant to produce 4535tpd of clinker. The contract comprises machinery and equipment, engineering, training, mechanical erection and commissioning. The facility will utilise low energy consumption and will include a 5000tpd production line, which will replace the two wet kilns. The new line will consist of complete raw material preparation including an FRM 52 vertical mill, a five-stage preheater with two support Rotax kiln, a 4x5 SF cooler and an FRM 21 coal mill.

Vinacimex order

An order has been placed with FLSmidth by the state-owned Vietnam National Cement Trading Corporation via its import/export company Vinacimex, for a new production line. The contract comprises machinery and equipment, spare parts, civil construction drawings, structural steel, supervision and training.

Situated just north of the port of Haiphong, some 110km east of the capital of Hanoi, the production line will have a clinker capacity of 3000tph or 1Mta. The new plant will replace the existing and environmentally unsuitable works in Haiphong and will be fuelled by locally-sourced anthracite coal, which has a very low gas content. Vietnam has an annual cement production of 13-14Mt, which is sufficient for domestic consumption. Cement usage is expected to grow at an annual rate of 10-12 per cent, which means that 2005 is likely to see a total demand of nearly 20Mt of cement.

Cementos Atlantico, Spain

As part of the Cementos Portland Group, Cementos Atlantico has placed an order with FLSmidth for the expansion of its Alcalá plant located near Seville.

The order is booked to come on a pro-rata basis until 2003, following the deliveries of engineering services and equipment. Production capacity will expand by 1000tpd to a total clinker production

Temcor**St Lawrence Cement Co**

A 67m (220ft) Temcor aluminium dome was selected by the St Lawrence Cement Co in Hagerstown, Maryland, USA for its 16,000t limestone storage facility. The inherent advantages of an aluminium dome's lightweight and unique design were the answer to the site's bedrock elevation problem.

When the decision was made to build a new storage facility, St Lawrence specified a circular building in order to accommodate its stacker-reclaimer system, and it needed a building that was durable and required a



Temcor's dome at St Lawrence Cement

minimum of maintenance. The site itself presented a formidable challenge: bedrock near the surface would mean extraordinary costs if a typical foundation was used. Temcor was set the challenge to design a storage dome that required a reduced number of foundation supports, thereby saving construction costs. Temcor accepted the challenge, designing a lightweight dome that needed only 14 piers versus the traditional 42.

"The exceptional structural abilities of a Temcor aluminium dome give us the flexibility to design a storage facility that can meet both the requirements of the owner and the site itself," said Tom Mixer, Temcor's engineering manager.

"The all-aluminium building is right for us because the life expectancy is so long, and anything not aluminium would require more maintenance, steel rusts and cement cracks," said Bob Van Tassell at St

Lawrence. "Also, the aluminium panels of the Temcor system can be replaced if one gets broken by equipment."

The dome was designed to include an opening and canopy to accommodate the Ameco conveyor system and two truck door dormers for access, each with an electric operated door. The dome has been engineered to support a snow load of 35psf.

By Temcor designing the dome with only 14 rock anchors, St Lawrence Cement reaped substantial savings without compromising quality or performance. However, Temcor's bid was not the lowest, but the maintenance-free aspects of the dome, and Temcor's extensive experience with US cement plant installations made a Temcor dome the right choice.

The rapid erection time of just seven weeks using an average crew of 5-7 men added to the advantages. "Temcor was excellent to work with, very professional," continued Van Tassell. "The dome is a nice piece of architecture; very eye-pleasing."

Formosa Plastics, Taiwan

Temcor has also been contracted to supply an 11th storage dome at what was already the world's largest covered bulk storage project in existence.

Temcor previously supplied 10 massive aluminium domes, each 120m in diameter at the Formosa Plastics Group Number six Naptha cracking complex in Mai Liao, Taiwan. "Of the original 10 domes we built, nine are used for coal storage and one for salt," said Clark Margolf, Temcor's Executive Vice President.

"This latest dome, the same size as the previous ones, will also be used to store salt." With the completion of the 11th

dome, the plant's total combined storage capacity will be 1.6Mt of coal and 430,000t of salt.

The 11th dome is being manufactured at Temcor's own state-of-the-art



Temcor increases storage capacity at Formosa Plastics

manufacturing facility near Savannah, Georgia and will be shipped to Taiwan for erection by local crews in June, 2002. Total erection of the dome should be complete within approximately three months.