

## Holtec and Ameren Complete Major Civil Construction at Callaway Paving the Way for the Inaugural Loading Campaign of HI-STORM UMAX in Late Summer

The arrival of spring in Missouri coincides with the completion of major civil work on the HI-STORM UMAX ISFSI at Ameren's Callaway Nuclear Power Plant. The transformation from the support pad with the 48 Cavity Enclosure Containers (CECs) at the bottom of a 25 foot deep excavation in November of 2014, to the current state of completion with the ISFSI Pad, curbing and apron completed and 6 HI-STORM UMAX lids ready for installation is truly a credit to Ameren/Holtec teamwork. The heavy haul path from the Fuel Building to the ISFSI pad is also complete.



*ISFSI Pad, Apron, and Heavy Haul Path completed (April 2015)*





*Support Pad complete with 48 CECs set and ready for grouting in November, 2014*

The work on the HI-STORM UMAX performed over the Winter at Ameren’s Callaway Nuclear Power Plant consisted of placement of over 10,000 cubic yards of concrete (Controlled Low Strength Material CLSM) to fill the space surrounding the CECs for the entire 17 foot height of the CECs. A typical pour day would place approximately 500 cubic yards over a 10 to 12 hour day, under the cold weather provisions of the (ACI) American Concrete Institute code.



*CLSM pour at the approximate halfway point in December of 2014*

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*CLSM Topped Off (December 2014)*

The final major civil work involved setting the reinforcing steel for the ISFSI and pouring the ISFSI concrete pad. The pad was poured in 3 segments, completing on January 22, 2015.



*Rebar for the Top Pad (January 2015)*

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*ISFSI Pad Concrete Pour Completed (January 2015)*

The new security system cable tie-ins to the plant security system are complete and tested allowing power/data to be provided to the new devices. Ameren performed the installation and terminations of all the new security devices. The high mast luminaire tie-ins are also complete and tested. Ameren also successfully performed the security diesel run time with the new panel loads. All cameras and microwave devices are installed, terminated and complete. The final acceptance test for all cameras and devices was successfully completed by Ameren's security department.

The new Protected Area (PA) and Nuisance fence tie-ins to the existing plant PA fence lines are complete. Ameren security department performed final inspections of the construction area which was expanded to become part of the existing PA.

The HI-STORM UMAX Project has begun transitioning to the Pool-to-Pad Loading activities, with Dry Runs scheduled for May-June, 2015 and loading of the first 6 MPCs scheduled for July, 2015.

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Ameren Missouri is the owner and operator of Callaway Energy Center located near Reform, Missouri. Callaway consists of a 1284 MW Pressurized Water Reactor of the Standardized Nuclear Unit Power Plant System (SNUPPS) type design. The HI-STORM UMAX ISFSI provides a total of 48 CECs, with a capacity to store 37 spent fuel assemblies each, enabling storage of a total of 1776 spent fuel assemblies.

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