



Fall 2004 SGRO Readiness

Another Demark supported fall Steam Generator Replacement Outage (SGRO) has now entered the last phase - implementation. This SGRO was planned such that a majority of the work and resources are being applied late in the project because of legislative concerns with on site storage of spent fuel and the potential that this would prevent the plant from operating for the full license time period. The legislation to allow additional fuel storage on site was passed late in 2003. At that point, the race was on to complete the engineering activities to support the project.

The Replacement Steam Generators (RSGs) manufactured by Framatome-ANP (France) have arrived on site and are being stored in temporary facilities. The RSGs were provided in two pieces and will be welded together inside containment during installation. The effort of accepting the RSGs was extensively supported by Demark personnel from both on-site and off-site. This effort has included the review of all of the calculations, specifications, procedures and drawings associated with the design of the RSGs. In addition, review of all of the plant licensing analyses has been completed.

The Demark team on site has been involved in all aspects of preparation for the SGRO. The Project has completed all of the design change packages in support of the replacement. This was a considerable effort because of the compressed schedule and limited resources. The Demark team has also been actively involved in the recent development of the work packages that will provide the field implementation documentation. Over 200 work packages were completed through the planning process and provided to the craft for their walkdowns. The Unit 1 Steam Generator Replacement Outage is scheduled to begin in September, 2004 and is scheduled to complete in 58 days. The Demark team will be involved in field engineering oversight activities and plant

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interface activities. The Demark team includes Ray Rosten, Roger Ripp, Oley Nelson, Steve Vogel, Joe Calle, Jeff Smetters and Bob Waninski. Best of luck on a successful SGRO!

For more information contact Joe Calle, 678-576-7171.

Replacement Steam Generator Shop Loading

The 1Q04 edition of the Demark Download (visit the Demark website at www.demarkinc.com for copy) carried an article regarding the shop loading at the RSG suppliers and tubing manufacturers. Basically, the bottom-line is that shop loading is tight and long-lead time items such as tubing and forgings may be an issue. As stated in the 1Q04 newsletter "Demark believes that the shop loading at the RSG suppliers is such that the schedule for delivery of all three pending SGRPs can be met depending on the supplier(s) chosen. Tubing on the other hand could pose the bigger challenge." Most recently an additional set of Replacement Steam Generators has been identified as being awarded in a near term contract. It is Demark's understanding that in at least one case a separate contract for tubing has been awarded prior to the award of the supply of the RSGS in order to ensure timely tubing delivery. This is an industry first!

Unfortunately for US purchasers, in addition to the weak dollar, the law of supply and demand is pushing RSG prices higher.

For more information regarding shop loading contact either Joe Calle or Dave Van Pelt.



RSG Fabrication Oversight Continues

Demark continues to support two clients with fabrication oversight services at the Equipos Nucleares, SA (ENSA) facilities in Santander Spain. RSGs for one of our client's are approaching the clean room assembly stage. This is where the tube support plates and the tubes are installed in a controlled, clean environment. The Replacement Reactor Vessel Closure Head (RRVCH) for this client currently has all CRDM holes pre-machined and machining for the J-groove weld prep for the CRDM tube-to-head welds is underway.

Demark's other client is in the earlier phases of fabrication. Forgings have been received and machining has recently commenced.

The fabrication oversight scope includes quality assurance and control inspections and audits as well as general fabrication oversight, problem solving and expediting. This demonstrates Demark's ability to provide the complete cycle of Replacement Steam Generator Services including design specification preparation and certification, bid evaluation support, contract management, design and licensing review and approval support and finally fabrication oversight.

Supporting the fabrication efforts in Spain are Ed Netzel, John Bowyer and Chris Bostock

Demark Performs Readiness Review

Demark was recently requested to perform a project readiness assessment for a Steam Generator Replacement Project. The Demark team consisted of many of the same personnel that performed a similar assessment of the Calvert Cliffs SGRP after their first SGRO.

The assessment included an overall review of project status and, specifically, the state of readiness for the upcoming N-1 outage. The N-1 outage is a very important indicator for the overall success of the Steam Generator Replacement Project because a successful outage demonstrates, pre-SGRO, the Project and Plant ability to plan, execute, and complete planned modifications and evolutions.

The Demark team includes Richard Tuetken, Keith Schwartz, Dan Shamblin (S&L) and Joe Calle. For more information contact Mark Inserra, 815-341-7601.

QUOTE OF THE MONTH

Engineering problems are under-defined, there are many solutions, good, bad and indifferent. The art is to arrive at a good solution. This is a creative activity, involving imagination, intuition and deliberate choice.

- Ove Arup