

# **SOUTHERN NUCLEAR SECOND SIMULATORS**

**POWERPLANTSIM 2019**

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Me, panhandling for lunch money at 14,148'.



**In late 2014, the Southern Nuclear CNO proclaimed that SNC needed second simulators, with new training buildings for their three nuclear plants, Hatch, Farley and Vogtle.**



**Danny Bost  
Executive Vice  
President &  
Chief Nuclear Officer**

**He observed that his operators and trainers needed the extra facilities since the original simulators were fully booked, being used nights and weekends for training. Additionally, planned training was continually delayed by such things as JITT, retraining/re-exam and maintenance.**

**Oh, and have it done by 2016...**

## **TIME LINE FOR SNC SECOND SIMULATORS**

**Late 2014 – A corporate Project Manager was named and the project kicked off. Due to small staffs and heavy work loads, we sought outside help.**

**March 2015 – Exitech Corporation was contracted by SNC Corporate Office to prepare a specification for three new simulators.**

**December 2015 – GSE Systems selected to be vendor.**

**March 2016 – Contract Awarded to GSE Systems. Three separate Purchase Orders issued with a three month delay between the start of each simulator**

**Summer 2018 – Hatch ships (approximately 3 months behind initial schedule, mostly due to unique Hatch issues, imho).**

**Late Summer 2018 – Farley ships (on the revised schedule).**

**January 2019 – Vogtle ships (on the revised schedule).**

## **Where we are today:**

- **The Hatch Simulator has been delivered, building complete, testing complete, certification in progress.**
- **The Farley Simulator has been delivered, SAT is complete, building completion is in progress. Certification in progress.**
- **The Vogtle Simulator has been delivered and installation is in progress.**

## Farley Sim B



**FARLEY – SAT Complete. Final building construction is in progress. Cert is in progress and is scheduled to be complete in February, 2019.**

## **Other project consideration:**

**The overall project includes three new buildings as well as the simulators.**

**More classroom space is provided.**

**New training supplied for simulator staff.**

**All simulator documentation updated.**

**All three sites have a common platform.**

**All three simulators received a new containment model in support of the integration of the MAAP code addition.**

## **Lessons Learned**

**High ranking project sponsor is beyond helpful.**

**Use a second simulator as an opportunity to fix legacy issues found in the current simulator.**

**Plan for the stresses that a full scope simulator project will have on the existing staff.**

**In a multiple simulator procurement be aware that there will be common issues that require participation from all sites.**

**The new simulator facility has as much risk of impacting the delivery schedule as does the simulator.**

**Design basis data is not an easy task...place the burden of data collection on the simulator vendor.**

**High ranking project sponsor is beyond helpful.**

**Design building such that the simulator can be moved in with as little construction left to do as possible and don't move in until this point is reached.**

**Review fab drawings carefully. Details are everything.**

**Don't overlook the fire protection design. The vendor's design at Farley was found to be unsatisfactory by the installers and had to be re-worked causing significant delays in finishing the simulator area. We probably wouldn't have caught this with better review of the drawings. But, we should have had discussions with the vendor to make sure they had a better understanding of what the architectural drawings were trying to convey.**

**Details. While installing the instructor booth glass, the installer asked, "why didn't you specify three big panes of glass, instead of nine smaller panes." That was a very good question.**

**Questions?**

