



# PSEG: SALEM & HOPE CREEK NUCLEAR PLANTS

## CASE STUDY

Google

Reference: *Nuclear Plant Journal*, September/October, 2018. Volume 36 No. 5

## CASE STUDY SUMMARY

# AVERT **PS**

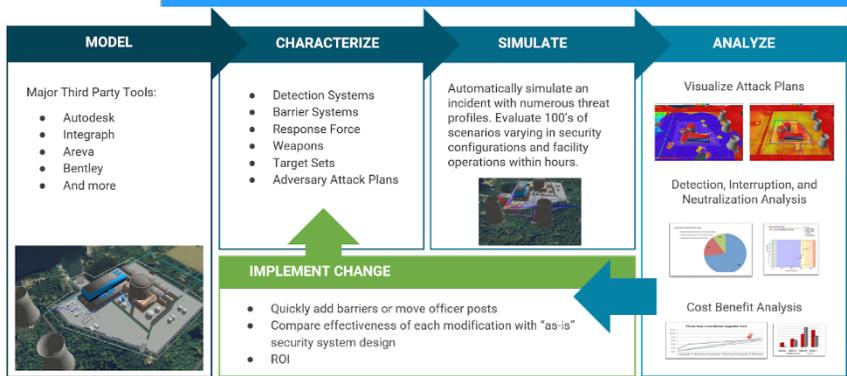
**PHYSICAL SECURITY**

AVERT Physical Security (AVERTPS) is unique Security Risk Assessment (SRA) software used to perform a Vulnerability Assessment (VA) of the facility along with providing the capability to visualize, quantify, assess and optimize security posture. This solution's holistic and integrated approach, delivers accurate, measurable, and repeatable assessments of physical security design and operations.

## OBJECTIVE

*“Early in 2016, the rising costs of security and DNP Efficiency Bulletin (SEC040) made it necessary for Salem-Hope Creek to challenge and examine the defensive strategy employed at the site utilizing the PEP model as well as the ARES/Avert software model.”*

# SOLUTION



*"In the case of Salem Hope Creek, the ARES/Avert software and model was chosen...to assist the security management team in data informed defensive strategy modifications and decision making. Where previously, the only information provided in the decision making process were the results and analysis of table top drills, limited scope drills, and annual Force on Force (FOF) exercises included in the PEP or the evaluations of Subject Matter Experts (SME) and Industry Peers, the computer model and software has provided the Salem Hope Creek team with the ability to make physical and security staffing changes to the site (in the computer model) and obtain multiple and repeatable data sets based on these changes.*

## RESULTS



**SAFETY-** *"With safety as the number one priority during the execution of FOF activities at Salem Hope Creek, the ARES/Avert software provided the ability to conduct multiple attack simulations."*



**COST SAVINGS-** *"The reduction of 11 security posts accounts for a monetary savings of approximately 7.1 million dollars annually."*



**ROI-** *"The return on investment (ROI) of computer simulation or modeling software is easily realized when security projects can be tested theoretically in the model before a shovel is placed in the ground or a hammer strikes a nail. The ROI for Salem-Hope Creek occurred within 18 months."*