

## **Wind Persistence Studies Performed for Exelon Emergency Preparedness**

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### **ABSTRACT**

NUREG-0654 Supplement 3, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants provides guidelines for performing wind persistence analysis to determine appropriate modifications to protective action strategies. Using NUREG-0654 as a basis and meteorological tower data, ChemStaff prepared and documented the methodology to determine how many degrees and downwind sectors constitutes one standard deviation of the maximum wind movement in conjunction with site-specific Evacuation Time Estimates. This data was then presented to Exelon Emergency Preparedness for their use in improving their current Protective Action Recommendations program.

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