

## Value Delivered

- ✓ Enhanced emergency response programs consider & respond to unique meteorological conditions
- ✓ Identification of the need to allow for onshore wind emergency action measures
- ✓ Clear, functional guidance for how to identify a breeze occurrence
- ✓ Practical instruction for what actions to take in the event of an on shore wind

## Industry Challenge

NRC Regulatory Guide 1.23, Revision 1, discusses special considerations for complex terrain sites. Sites near large bodies of water may require particular meteorological studies, given the relatively large temperature differences between water and land, resulting in onshore winds. Licensees often have the responsibility to determine the impact that large water bodies have on the general wind regime at a given site. To determine the probability and potential frequency of a sea or lake breeze, on-site meteorological data can be used. Knowing the probability of a sea or lake breeze can help personnel better establish emergency preparedness practices for locations affected by these onshore winds.

## ChemStaff Solution

The trusted experts at ChemStaff can meet this challenge. With leverages extensive meteorology and nuclear power emergency preparedness experience, ChemStaff specialists to provide comprehensive support for analysis of sea and lake breeze analysis s and their any potential impact to on site emergency response plans. ChemStaff provides delivers data quality assurance and carefully evaluates historical meteorological data to determine the probability of the occurrence of a sea or lake breeze occurrence by month and time of day. We also and provide targeted identification of the sectors most likely to be impacted affected by such an onshore wind. With this insight, This the determinations can then be integrated into site emergency response procedures with simpleclear, specific guidance for accurately determining whether and precisely how emergency measures need to be altered due to the presence of a sea or lake breeze. when a sea or lake breeze occurs.

