RIZZO Associates provided integrated research, review, and subject matter experts, for the investigation for suitable sites for the location of a nuclear power plant (NPP). The Region of Interest (ROI) for the Project was the entirety of the State of Kuwait. An extensive literature search was conducted on the conditions in the ROI in the topical areas of geographic and physiographic setting, geologic setting, seismic activity and hazards, coastal environment and characteristics, climatic conditions and meteorological hazards, natural and environmental resources, population, and socioeconomic resources. As recommended by internationally accepted guidelines and regulations, Exclusionary Criteria were used to narrow the ROI to areas acceptable for an NPP. The Exclusionary Criteria selected for use in the siting process included: cooling water availability, plate boundaries and faults, seismicity, foundation conditions, and population. The result of this step was the delineation of Candidate Areas to which lower tier Avoidance and Suitability Criteria were applied to further screen discrete potential sites and/or site areas.

Following the identification of potential sites and site areas, a team of specialists visited Kuwait and performed a detailed reconnaissance of the potential sites via land, sea, and air, resulting in a clear understanding of the advantages and challenges posed by each potential site and site local area.

Continuing the site filtering process after the in-country visits, Avoidance Criteria was applied to the selection process related to environmental, security, and natural/manmade hazard parameters. Suitability Criteria was used in the selection process related to infrastructure, socioeconomic, and economic parameters. These Exclusionary, Avoidance, and Suitability Criteria were used in various decision-making tools, ranking the potential sites identified within the Candidate Areas, and resulting in recommended, preferred, and alternative site locations.

At the conclusion of the Project, RIZZO delivered a Siting Report detailing all research and findings, and ranking of the potential sites. The Report included a recommendation of preferred and alternate sites.