



## AFFILIATED CONSULTANTS, ENGINEERS

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### POSITION PAPER – Nuclear Power 19 January 2012

ETHICS = SOCIAL JUSTICE Professional Engineers hold the public welfare paramount.

The heritage of William S. Lee, PE Chief Engineer of Lee Engineering and president of Duke Power Co. has been forgotten by naming an atomic power plant after him.

The total cost to society of using uranium for boilers is even more than that of any other fuel, including coal. Uranium processing is very energy intensive and adds to it's carbon footprint.

Nuclear plants add to global warming during construction and operation. The waste heat released heats up the earth and depletes the waterways.

Toxins and radiation have a cumulative effect on health. Radiation, air and water pollution are a potent carcinogen. They kill slowly with stealth – the perfect crime of murder.

Let's lower defense costs by docking nuclear ships and feeding their electricity to the grid.

Retrofit existing plants with solar collectors and windmills at a lower first cost and better ROI than rebuilding burners with best available technology.

Nukes are not sustainable but their waste will last  $10^6$  years unless an accident wipes out everything.

Keep Americans working at home. Let us build offshore wind power plants and solar collector plant retrofits with products and labor from the Carolinas.

Philip J. Bisesi, P.E.