



**The Honorable Bob Hall**

*Texas State Senator, District 2*

Senator Bob Hall is an electrical engineer whose experience in protecting electrical and electronic equipment against the ElectroMagnetic Pulse (EMP) threat began soon after the phenomenon was identified as a threat to the US Minuteman II Strategic Missile System during the cold war in the 1960s.

Senator Hall graduated from The Citadel in Charleston, South Carolina with a degree in Electrical Engineering and received a Regular Commission as a 2nd Lieutenant in the US Air Force. While a cadet at the Citadel, he received numerous awards for his leadership. He was the only Air Force Cadet selected to be a Battalion Commander and was awarded the coveted Wade Hampton saber as the graduating cadet who had contributed the most to the Citadel during the four years he was a cadet.

Upon graduation, Senator Hall began his active duty as a Systems Engineer working to develop the Minuteman Missile System during the Cold War at Norton AFB in California. Here is where he achieved the rank of Captain. It was during his service at Norton AFB that Senator Hall led a project team of engineers to harden the Minuteman Missile System II from the Soviet Union's nuclear based electromagnetic pulse (EMP) first strike capability, known as the "pin-down" threat. In addition to working to hardening the minuteman missile system, Senator Hall was instrumental in the successful development of the military's air and ground based EMP detection devices.

Senator Hall designated electric grid security as a top legislative priority and authored the first ever grid security bill in Texas legislative history. His bill required the state to conduct a vulnerability assessment on the EMP threat to the electric grid infrastructure in Texas and report its findings.