

The U. S. Navy incorporates a significant amount of electronics onboard their surface ships for everything from navigation to fire control to surveillance to defensive and offensive weaponry to everyday ships operations.

The budget for these ships for electrical and electronic maintenance was growing each year. Transients were a major part of the problem with these systems failures and the Navy wanted a solution.

Surge Suppression Incorporated[®] won a three year, multi-million dollar contract to supply the surge suppressors to alleviate this problem. To determine the benefit of using the surge suppressors, the Navy conducted a study of the electrical/electronic maintenance costs for the first 23 ships which had the surge suppressors installed for a complete year.



**NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION
NAVAL SHIPS SYSTEMS ENGINEERING STATION**

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Annual Pre-Install Maintenance for the 23 ships:	\$7,814,718
TVSS Installed Cost for the 23 ships:	\$2,679,350
Annual Post-Install Maintenance for the 23 ships:	\$2,865,107
Yearly Maintenance Savings:	\$4,949,611
Payback Period in Years:	0.54
Return on Investment over expected life of the 23 ships	53.6:1
Total Estimated Payback:	\$141,047,596