

Navy SBIR/STTR Success



Title: Advanced Solid State High Repetition Rate Modulator



"Mean time between failures of the AN/SPG-60 radar transmitter has increased from 300 hours to over 50,000 hours, significantly reducing both repair costs and maintenance manpower requirements."

Upgraded AN/SPG-60 Radar Transmitter

About the Technology:

- The purpose of this project was to develop high-voltage switching modules, gate drives, and interface electronics for the purposes of modernizing a wide range of existing Navy radar systems.
- One of the major successes of this SBIR effort is the deployment of the upgraded AN/SPG-60 fire control radar transmitter (pictured above) to the fleet. The major benefit to the warfighter is the increased reliability of this critical weapon guidance/fire control system.
- The technology developed under this SBIR has enabled an entire class of radar upgrades, allowing the Navy and other services to extend the operational life of critical radar systems, while simultaneously reducing operating and maintenance costs.
- Upgrade kits have been installed on each of the operational AN/SPG-60 radars in the U.S. Navy fleet and are operating very successfully. These successes led directly to upgrade programs for other critical weapon systems, including the AN/SPQ-9A radar, the AN/SPN-41 landing system, and the COBRA JUDY radar systems on-board the USNS Observation Island.
- Since this SBIR effort began, DTI's radar system products have grown to more than \$7M in annual sales (~\$70M total since the SBIR was completed), representing the largest portion of DTI's revenues.

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► Topic:
N98-003

► SBIR
Investment:
\$1.2M

► Project
Revenue:
\$42M

► SYSCOM:
ONR

► Published:
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