

Topic: NSWC-5

## NSWC Crane

### Perchlorate Free Flares

Pyrotechnics are used in a variety of applications including fireworks and colored signal flares. Currently available fireworks and signal flares use perchlorate oxidizers to produce their desired colors. Residual perchlorates from pyrotechnic devices may leach into groundwater and cause widespread contamination that requires remediation. NSWC has reformulated pyrotechnic compositions for red, yellow, and green to remove perchlorate ingredients, while maintaining or improving performance. Compositions have been developed, prototyped and tested with documented results.

### Technology Category Alignment:

Manufacturing Technology for Affordability

Propulsion

### Contact:

Technology Transfer Office

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**SYSCOM:** NAVSEA

**Contract:** ORTA-5

# Department of the Navy SBIR/STTR Transition Program

Statement A: Approved for Release. Distribution is unlimited.

Topic # NSWC-5  
Perchlorate Free Flares  
NSWC Crane

## WHO

**SYSCOM:** NAVSEA

**Sponsoring Program:**

**Transition Target:**

**TPOC:**

**Other transition opportunities:**



## WHAT

**Operational Need and Improvement:**

**Specifications Required:**

**Technology Developed:**

**Warfighter Value:**

## WHEN

**Contract Number:** ORTA-5

| Milestone | Risk Level | Measure of Success | Ending TRL | Date |
|-----------|------------|--------------------|------------|------|
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## HOW

**Projected Business Model:**

**Company Objectives:**

**Potential Commercial Applications:**

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