Owen Oil Tools is pleased to announce the release of the new Green Det™ for use in Owen Cutter systems. This new addition to the Pipe Recovery Detonator family allows users to safely communicate at the well site without worry of RF hazards, welding, stray current/voltage, and static electricity. The Green Det™ is a low energy, RF-Safe, Reactive Semiconductor Bridge (RSCB) detonator that allows safer communication during well site operations while still providing the industry’s highest reliability rate. Due to its compact size, it can be used in hardware where most RF-Safe detonators can’t and does not require an external Fireset. It is a RF-Safe drop-in replacement for most resistorized detonators.

**Key Features:**
- RF-Safe per RP-67 – tested by Franklin Applied Physics Laboratory
- Temperature rating = 400°F / 12 hours
- No special firing panel or Fireset required
- 55V No-Fire / 300V All-Fire
- Cobalt based CLCP lead free energetic material
- 99.99% Initiation Reliability @ 95% Confidence
- Hermetically sealed

For Owen Cutter products (ACE, NT Segmented, etc.), the green rubber retainer accessory (P/N DET-0100-013) must be used in order for the detonator to properly fit into the cutter hardware. This rubber boot may be ordered separately or the full detonator assembly with boot may be ordered under Owen Part # DET-3050-409. Many customers will notice that this Green Det™ rubber retainer looks very similar to Owen’s DET-3050-009L resistorized detonator. It has been designed as a RF-Safe alternative to the DET-3050-009L. Please consult the User Manual (Owen Document # MAN-DET-RF) and Technical Data Sheet (Owen Document # DET-3050-409-DS) for more information regarding the Green Det™ for Cutter applications. Should you have any questions or concerns, then please do not hesitate to contact myself or an Owen representative.

Sincerely,
Ben Potter – Design Engineer – Initiation Systems
Email: Ben.Potter@corelab.com
Phone: 817-551-0540
## Technical Specifications:

### Application:
Cobalt based CLCP (lead free, non-primary energetic material) initiating detonator. Used in wireline operations to initiate pipe recovery products with a 99.99% initiation reliability @ 95% confidence level.

### Resistances:
- **All-Fire Level:** 300 Volts (DC)
- **No-Fire Level:** 55 Volts (DC)

### Static Sensitivity:
MIL-DTL-23659F

### Ratings:
- **Temperature Rating:**
  - 400°F (200°C) for 12 hours
  - 300°F (150°C) for 400 hours

### Electrical Specifications:
- **Resistance:** 0.800 MΩ - 1.100 MΩ
- **All-Fire Level:** 300 Volts (DC)
- **No-Fire Level:** 55 Volts (DC)
- **Static Sensitivity:** MIL-DTL-23659F

### Explosives:
- **Base Charge:** 5.12 grains (CLCP)
- **Primary Explosive:** None

### Packaging:
- **Quantity Per Box:** 10
- **Net Explosive Weight:** 5.12 grains (0.332 grams)
- **Net Item Weight:** 21 grams
- **Total Package Weight:** 9 lbs
- **Box Dimensions:** 13.4 in. X 6.7 in. X 6.9 in.
- **Shelf Life:** 5 years from DOM (in original packaging)
- **Package Type:** 4G fiberboard box

### Important Notes:
- Rubber Retainer included with DET-3050-409 assembly or sold separately.
- Detonator was certified RF-Safe by Franklin Applied Physics Laboratory. Will withstand up to 10 GHz @ 100 V/m and conforms to API RP-67.
- Note: Detonator should be electrically connected with red wire to hot lead and blue wire to ground.

This detonator with the rubber retainer accessory (P/N DET-0100-113) is designed for use in non-exposed systems to initiate Pipe Recovery (Cutter) products (ACE, NT Segmented, etc.). For Cutter products, the user must order DET-3050-409 for the complete assembly. The Green Det™ is also compatible with Owen Split Shot pipe recovery products without the rubber retainer accessory and may be ordered under part number 2-300750-1. The rubber retainer may be purchased separately. Please reference the manual (MAN-DET-RF) for more details.