



TRIGGER AND ALERT SONOBUOY SYSTEM

About Guide Star Engineering, LLC

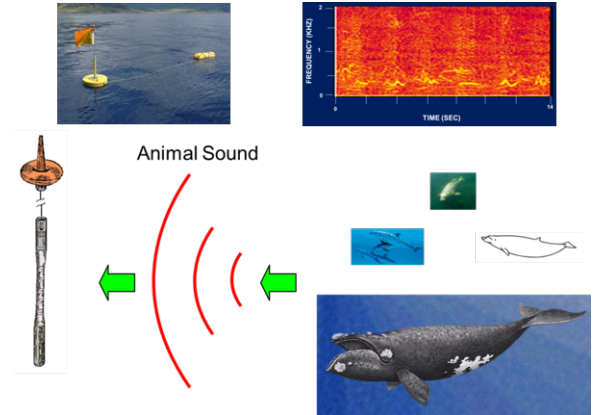
GSE (est. 2006) is a technology based engineering company. Our staff has over 100 years experience of management, design, development and fabrication skills to meet the needs of government and industry. Our technical disciplines include: Electrical Engineering, Environmental Engineering, Personal Protective Equipment, Mechanical Engineering, Industrial Engineering, Computer and Software Engineering.

North American Industry Classification System (NAICS):

- 334290 - Other Communications Equipment Manufacturing
- 334310 - Audio and Video Equipment Manufacturing
- 334511 - Search, Detection, Navigation, Guidance, Aeronautical, Nautical System & Instrument Manufacturing
- 541712 - Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology)
- 517919 - All Other Telecommunications
- 541512 - Computer Systems Design Services
- 541330 - Engineering Services
- 541519 - Other Computer Related Services
- 541990 - All Other Professional Scientific, and Technical Services
- 541690 - Other Scientific and Technical Engineering Consulting Services
- 237130 - Power and Communication Line Related Structures Construction
- 517410 - Satellite Telecommunications
- 541620 - Environmental Consulting Services
- 512290 - Other Sound Recording Industries

TASS for Marine Mammal Mitigation

Remote sensor products group developed a solution to the problem of disturbing marine mammals during at-sea exercises and operations. The solution required a reliable unattended sensor system to perform at sea.



Guide Star Engineering's TASS remote sensor provides reliable data collection, recording, and in-sensor signal processing in real time and for post-processing. Advanced work is being investigated that will give the buoy the ability to automatically detect, classify, and determine the direction and depth of animals.

Solution

- TASS sonobuoys operates in at-sea conditions
- Marine mammal monitoring
- Mitigate negative impact to marine animals
- Compliance with environmental regulations

Technologies

- In-sensor digital signal processor (DSP)
- Automatic detection of humpback whales songs
- Automatic reporting of Detect, Health, and GPS data messages

Advantages (Features)

- Electronics conforms to A-size specification
- Transmit signal on standard sonobuoy RF channel
- Compatible with existing airborne and surface ship sonobuoy processing systems
- Low cost

Business Codes

- DUNS: 785149787
- SBA 8(a): Yes
- DBE: Yes

- Minority Owned: Yes
- VOB: Yes
- CAGE Code: 4K0S3

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