

Appendix B

Detailed Statement of Task

The study required by this statement of work will be performed following contract award. The study will address four basic areas and they will be worked at simultaneously. The study will consider the viability of adding tracer elements to explosives for the purpose of detection, the viability of adding tracer elements to explosives for the purpose of identification, the feasibility and practicability of rendering inert common chemicals used to manufacture explosives materials, and the feasibility and practicability of imposing controls on certain precursor chemicals used to manufacture explosive materials.

The study will focus on issues in science and technology, with the goal of framing the issues for furnishing a report that provides a clear description of the technical options that exist. The report will provide advice that will facilitate decisions by officials of the Bureau of ATF on which to base recommendations to Congress. It will also clearly set forth any opinions and findings obtained as a result of consultation with other Federal, State and local officials and regulated industry members of fertilizer research centers. Once the study is initiated, discussions will be held with Bureau officials at three (3) month intervals to report progress.

Task 1. Viability of Adding Tracer Elements to Explosives for Detection. The purpose of this task is to explore and define methods, materials and technologies that are available today, as well as in research and development, that might be used to enhance the detectability of concealed explosives.

- Subtask 1.1. Materials recommended as candidates for inclusion as detection elements shall not pose a risk to human life or safety.
- Subtask 1.2. Materials recommended for inclusion as detection elements shall not substantially impair the quality and reliability of explosives for their intended lawful use. At least three organizations that are capable of conducting testing to validate the study findings shall be identified.
- Subtask 1.3. The study will evaluate the utility to law enforcement, to include susceptibility to countermeasures, problems of cross-contamination, and ease of detection, analysis and survivability, of all materials which will provide substantial assistance that are recommended as candidates for inclusions in explosives as detection elements.
- Subtask 1.4. Materials recommended for inclusion as detection elements shall not have a substantial adverse effect on the environment.
- Subtask 1.5. The study shall include an assessment of costs associated with the addition of tracer elements which will not outweigh the expected benefits of all materials that are recommended as candidates for inclusion in explosives.

Task 2. Viability of Adding Tracer Elements to Explosives for Identification. The purpose of this task is to explore and define methods, materials and technologies that are available today, as well as in research and development, that might be utilized to enhance the traceability of illegal explosives after detonation.

- Subtask 2.1. Materials recommended as candidates for inclusion as identification elements shall not pose a risk to human life or safety.
- Subtask 2.2. Materials recommended for inclusion as identification elements shall not substantially impair the quality and reliability of explosives for their intended lawful use. At least three organizations that are capable of conducting testing to validate the study findings shall be identified.
- Subtask 2.3. The study will evaluate the utility to law enforcement, to include susceptibility to countermeasures, problems of cross-contamination, and ease of identification, analysis and survivability, of all materials which will provide substantial