Environmental and Energy Technology Implementation Plan for the Industrial Base (Task N.0827)

Statement of Need

The ammunition industrial base is comprised of two components – the production industrial base and the demilitarization industrial base. Current industrial operations at both ammunition production and demilitarization facilities continue to be a significant consumer of energy and produce waste streams that require treatment. To minimize the resulting environmental impact, an analysis is required of the industrial base. This will lead to greater effectiveness and efficiencies in environmental, safety, occupational health and energy (ESOHE) areas.

Technical Approach

The purpose of this overall Task is to leverage accomplishments under previous NDCEE Task Orders 0707 and 0800 to create an Environmental and Energy Technology Implementation Plan for the Industrial Base. The purpose of the Environmental and Energy Technology Implementation Plan is to make recommendations for greater effectiveness and efficiencies in ESOHE areas within the lifecycle of the ammunition industrial base operations through implementation of new and innovative technologies. To establish the recommendations for the industrial base, this Task will first develop the baseline conditions for both the ammunition production and demilitarization facilities. This baseline information will then be utilized to perform economic and life-cycle analyses of current and proposed technologies at Holston Army Ammunition Plant (HSAAP), Radford Army Ammunition Plant (RFAAP) and Lake City Army Ammunition Plant (LCAAP). Both production and demilitarization computer models will be created to house the baseline information and allow for more efficient decision making. Several technologies recommended under the previous tasks will be analyzed and technology transition plans will be developed. These efforts will then be summarized into the final deliverable, Environmental and Energy Technology Implementation Plan for the Industrial Base.

Anticipated Results and Benefits

Government POC
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Status
Ongoing

It is anticipated that this Task will generate baseline information for the ammunition production and demilitarization facilities. This baseline information will be utilized to create an Environmental and Energy Technology Implementation Plan that provides recommendations for effectiveness and efficiencies within ammunition production and demilitarization. The Environmental and Energy Technology Implementation Plan will provide transition plans for new technologies and will provide cost benefit analysis to support implementation of technologies which reduce cost of production.

Technology Transfer and Outreach

It is anticipated that this task will provide recommendations for technologies that allow ammunition production to be more efficient by modernizing the facility. It is also anticipated that the task will result in recommendations that will implement closed disposal technology for demilitarization.