

2019 Ammunition Hall of Fame Inductee

MR. CURTIS ANDERSON, JR.



Mr. Curtis Anderson, Jr. provided 48 years of federal service at Picatinny Arsenal. Mr. Anderson exhibited exceptional program management and leadership skills as well as organizational vision. He executed numerous pilot plant and production scale energetic materials processes and conventional ammunition life-cycle programs that provided significant readiness and monetary benefits to the DoD and the highest quality state-of-the-art ammunition to the U.S. Warfighter. Specific notable program accomplishments include, but are most certainly not limited to, the following:

Reclamation, Recycle and Reuse (R3) of TNT for Artillery and Mortar Munitions Items: The U.S. organic base production capability for TNT was once produced at several Government-Owned, Contractor-Operated (GOCO) facilities across the ammunition industrial base. Mr. Anderson initiated a major effort to reclaim, recycle and reuse TNT from munitions items in the demilitarization inventory. As a direct result of his efforts, the Armaments Research, Development and Engineering Center (ARDEC) developed a TNT reclamation process which was implemented at McAlester Army Ammunition Plant. As a result of Mr. Anderson's efforts, ARDEC developed specification requirements for requalification of reclaimed TNT with an approved Value Engineering validated savings of \$30M.

Rework and Reuse of TNT Supplementary Charges for the Production of 155mm High Explosive (HE) Loaded Projectiles: A major step in the process of downloading TNT from unserviceable conventional munitions is the removal of the TNT supplementary charge for placement into the stockpile for demilitarization in a separate incineration process. Mr. Anderson saw an opportunity to recycle supplementary charges from projectiles and mortars into new 155mm munitions items. A test and evaluation program confirmed that the performance of the downloaded supplementary charges was not affected by aging. Samples were tested with a direct comparison between recently manufactured supplementary charges. An approved Value Engineering program validated savings of \$10M was generated.

Development of the Controlled Cooling Process for Loading 155mm M795 Projectiles: Mr. Anderson successfully developed and demonstrated a new, state-of-the-art controlled cooling process for TNT that resulted in zero defects when loading 155mm projectiles.

Demilitarization Research & Development Technology Program and Design for Demilitarization: Mr. Anderson established the Demilitarization R&D Technology Program at Picatinny Arsenal to develop and demonstrate new, innovative technologies for the safe, cost effective, and environmentally acceptable demilitarization of conventional munitions items. Several developmental initiatives were successfully demonstrated and transitioned to production scale demilitarization processes for conventional munitions items. Mr. Anderson established a "Design for Demilitarization" initiative which required that demilitarization procedures be

considered and demonstrated during the design and production of new conventional munitions items. It is now mandatory for Integrated Product Teams (IPT) to address demilitarization up front for all end items.

Qualification of a New Resin System for Mortar Increment Containers: Mr. Anderson was directly responsible for initiating a program to qualify a new resin for the production of several propelling charge mortar increment containers. A program was executed that performed laboratory studies, pilot plant manufacture of mortar increment containers with several candidate replacements (including chemical and physical evaluations), production process prove-out, and end item rough handling and ballistic testing. End item testing was successfully completed and an Engineering Change Proposal (ECP) issued to update the technical data package.

Red Phosphorus: Mr. Anderson demonstrated a new technology for the reclamation, recycle and reuse of red phosphorus, creating a validated savings of \$4.4M.

In addition to Mr. Anderson's significant professional contributions to the Warfighter, he continually gave back to the community and served as a role model for the local Picatinny Arsenal community. He was a Founding Father of the Morris County Youth Football league and has served as President, Secretary and Treasurer of this organization. Mr. Anderson coached in the Wharton, NJ area for more than 50 years where he mentored hundreds of football players over the years. In addition to coaching football, he was President of the Wharton Amateur Athletic Association for 15 years and was the Treasurer for 25 years. Mr. Anderson also served as an Officer in the Junior Knights Amateur Athletic Association, promoting, football, wrestling, and cheerleading within the Borough of Wharton and towns of Mine Hill and Rockaway, NJ. Mr. Anderson was honored by the National Football Association for his many years of outstanding community service with induction into the Morris County Hall of Fame. Finally, as ultimate recognition for his community service, the Borough of Wharton named "Anderson Road" for him. A large percentage of the youth with the local community have prospered as a direct result of Mr. Anderson's dedication, determination and untiring efforts.

Mr. Anderson served as a model of dedication and commitment to those under his direction and provided the highest level of leadership that ensured successful project execution and implementation.