



## Sampling and Testing of M28 Propellant Grains Downloaded from M67 Rocket Motor Assemblies Final Report - Section 1 - Umatilla Chemical Depot; Section 2 - Pine Bluff Chemical Activity

By Department of the Army, U S Army Chemical Materials Agency

Createspace Independent Publishing Platform, United States, 2013. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The Umatilla Chemical Agent Disposal Facility (UMCDF), Umatilla, Oregon has had fires in the Explosive Containment Rooms (ECRs) during the shearing operation of GB M-55 rockets. Additionally, the Pine Bluff Chemical Agent Disposal Facility (PBCDF, Pine Bluff, Arkansas) has also had fires in their ECRs (Table 1). These M55 rockets are small field units designed and built in the early 1960 s. The warheads were filled with the chemical agent Sarin (GB). These rockets have been stored awaiting destruction as outlined in the Chemical Weapons Convention, signed in 1993 and ratified in 1997. The Chemical Materials Agency (CMA) formed an ECR Rocket Fire Working Group to better understand what was causing the fires. The group consisted of several organizations and subject matter experts to assist the United States Army during the investigation. At the request of the CMA, (Edgewood, MD), ARDEC (Picatinny Arsenal, NJ) was tasked to perform compositional analyses, compatibility, and sensitivity (friction, impact and electrostatic discharge) testing to determine if the M28 propellant is a possible root cause of the fires experienced during...

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