



**Program Executive Office
Assembled Chemical Weapons Alternatives**

MEDIA TOOLKIT

Static Detonation Chamber 2000

**Blue Grass Chemical Agent-
Destruction Pilot Plant**

Updated: June 1, 2023

Video Footage: Blue Grass Chemical Agent-Destruction Pilot Plant Operations

The Blue Grass Chemical Agent-Destruction Pilot Plant, known as BGCAPP, is safely destroying the chemical weapons stockpile stored at the Blue Grass Army Depot near Richmond, Kentucky.

The following video clips show the Static Detonation Chamber (SDC) 2000 facility where containerized, drained rocket warheads; overpacked M55 rockets; overpacked, undrained rocket warheads; and palletized M55 rockets containing GB nerve agent are being destroyed. Portions of this footage have been blurred in accordance with Department of Defense guidelines.

Blue Grass Chemical Agent-Destruction Pilot Plant SDC 2000 Started Processing in January 2023

SDC 2000: On Jan. 27, 2023, operators at BGCAPP began destroying containerized rocket warheads drained of GB nerve agent using the SDC 2000.

- Depalletizing Robot (0:00 - 0:12)
 - A robot removes containerized Assembled Chemical Weapons Alternatives (ACWA) test equipment from a pallet during systems testing.
- Containerized Rocket Warhead Delivery (0:12 - 0:17)
 - A truck brings pallets of containerized rocket warheads drained of GB nerve agent from the BGCAPP main plant.
- Workers Unload Pallets (0:17 - 0:46)
 - Workers use a forklift to unload pallets of containerized rocket warheads from a flatbed truck.
- Workers Inspect Pallet (0:46 - 0:51)
 - Workers inspect a pallet of containerized rocket warheads prior to taking them inside the Static Detonation Chamber 2000 facility.
- Workers Move Pallets (0:51 - 1:36)
 - Workers use a forklift to move a pallet of containerized rocket warheads into the vestibule.
 - Workers use a forklift to move a pallet of containerized rocket warheads inside the Static Detonation Chamber 2000 facility and place the pallet in the staging area.
- Workers Sets Pallet in Depalletizing Station (1:36 - 2:10)
 - Workers use a forklift to place a pallet of ACWA test equipment in the depalletizing station during systems testing.
- Depalletizing Robot (2:10 - 3:03)
 - A robot removes containerized ACWA test equipment from a pallet during systems testing.
 - The automated system places the containerized ACWA test equipment into a processing box during systems testing.
- Workers Unload Enhanced On-site Container (3:03-3:27)
 - Workers use a forklift to unload rocket warheads overpacked inside single round containers from an Enhanced On-site Container.

- Workers Load the Processing Line (3:27 - 4:01)
 - Workers manually load single round containers into a processing box on the conveyor line.
- Workers Load Overpacked Rockets (4:01 - 4:28)
 - Workers manually load overpacked M55 rockets containing GB nerve agent into a processing box on the conveyor line.
- Workers Load Containerized Rocket Warheads (4:28 - 5:02)
 - Workers manually load containerized rocket warheads drained of GB nerve agent into a processing box on the conveyor line.
 - Workers tape the boxes shut.
 - Workers advance the boxes to the chamber elevator for processing with the automated system.
- Closed Circuit Television (CCTV) Footage of Static Detonation Chamber Elevator (5:02 - 5:53)
 - An elevator moves a processing box containing two containerized rocket warheads to the Static Detonation Chamber 2000 loading chamber.
 - The box is pushed into the first loading chamber.
- CCTV Footage of Inside Loading Chamber One (5:53 - 6:04)
 - A processing box containing two containerized rocket warheads is pushed inside the first loading chamber.
- CCTV Footage of Inside Loading Chamber Two (6:04 - 6:18)
 - The second loading chamber rotates to drop a processing box into the chamber for destruction.
- Locking Ring (6:18 - 6:30)
 - The hydraulic locking ring on the chamber unlocks to allow it to drop down. This footage has been sped up.
- Detonation Chamber Rotates (6:30 - 6:44)
 - The chamber rotates for destruction inspection and to dump the scrap. This footage has been sped up.
- CCTV Footage of Scrap Emptying (6:44 - 6:59)
 - After the containerized rocket warheads are destroyed, the scrap metal is emptied into the shaker conveyor and collected in the scrap metal bin.

Questions regarding images contained in this media toolkit can be directed to the Blue Grass Chemical Stockpile Outreach Office staff at bgoutreach@iem.com or 859-626-8944.