

IMPROVISED EXPLOSIVE DEVICE EFFECTS SIMULATOR, INCREMENT 1 (IEDES 1), NON-PYROTECHNIC SCALABLE SIGNATURE DEVICE (NPSSD)



NPSSD (side view)



NPSSD (discharge port view)

Training Category/Level Utilized:
Engineer/Level 3

Logistic Responsible Command, Service, or Agency:
PEO-STRI, Orlando FL

Source and Method of Obtaining:
Available through local TSC

Purpose of Trainer:
The Non-Pyrotechnic Scalable Signature Device (NPSSD) is a major component of the IEDES 1 training system. The NPSSD is designed to train key tasks of Explosive Hazards (EHs) defeat in support of full spectrum operations and conflicts including Homeland Security. EH defeat consists of the ability to predict, prevent, detect, classify, neutralize, mark, report, and record EH; and to protect personnel, equipment, and facilities from EH effects

Functional Description:
The NPSSD is capable of providing small through large Improvised Explosive Device (IED) signature effects, and firing multiple cartridges simultaneously (small - large). The NPSSD is initiated by the IEDES 1 Module Control Unit (MCU) and Electronic Common Interface Device (ECID). The NPSSD can be wirelessly initiated when connected to an IEDES ECID, and can be manually initiated when connected by hardwire to an MCU. The NPSSD is controlled by the IEDES Non-Pyrotechnic Controller (NPC). CO₂ gas is used to propel a special powder that provides a visual smoke signature, and a strobe light provides flash concurrently. Commercial plastic cups

are used to provide an aural signature. The NPSSD CO₂ tanks are refilled using the provided Fill Station tanks.

Physical Information:
NPSSD Dimensions: 27" x 11" x 4.5" Weight: 31.6 lbs.

Equipment Required, Not Supplied:
None

Special Installation Requirements:
None

Power Requirements:
None

Applicable Publications:
Operators Manual: 05-6920-703-10
System Maintenance Manual: 05-6920-703-24& P

Reference Publications:
None

Training Requirements Supported:
Individual Training: Any MOS with a mission requirement to operate in an environment where the Improvised Explosive Device threat is likely. Operators may also include military civilians and contractors.