

## Reliable Replacement Warhead Improved Security, Safety & Manufacturability of the

### High Explosive:

prevent accidental detonation Insensitive High Explosives to Reduced manufacturing and Conventional replaced by

assembly constraints

#### Secondary:

- Reduced quantities of nuclear material
- Fewer parts

#### Detonator:

Advanced safety technologies

#### Interstage

- Toxic, brittle material replaced
- Expensive, "specialty" material replaced, eliminating need for unique facilities
- Modern security features added to render useless in the wrong hands

Security/Use Control:

## Radiation Case:

- Simplified design to enable easier processes
- Significantly more manufacturable material
- Greatly reduced hazardous waste

# Assembly and disassembly

hazardous scrap and radiation exposure

Alternate processes to reduce

manufacturing steps

Simplified designs to eliminate Toxic, brittle material replaced

Fire resistance added

Processes simplified