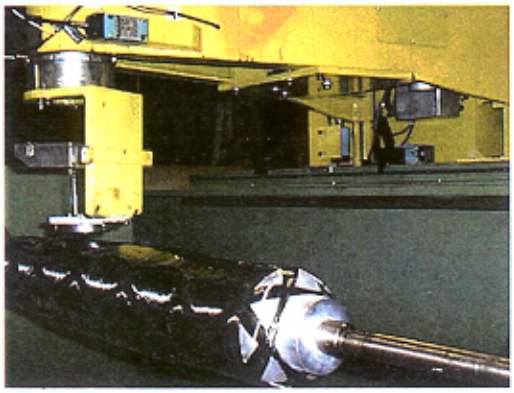
Propulsion and Structures Directorate

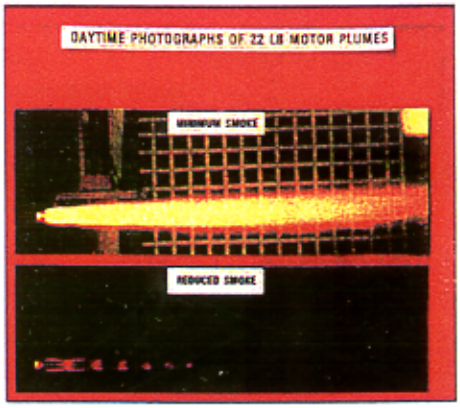
CORE CAPABILITIES

Materials engineering	Thermal / structural / dynamic analysis
Lethality studies	Energetics chemistry
Demilitarization	Propulsion design and test
Launcher design / analysis	Prototyping
Systems integration	Service Life assessment

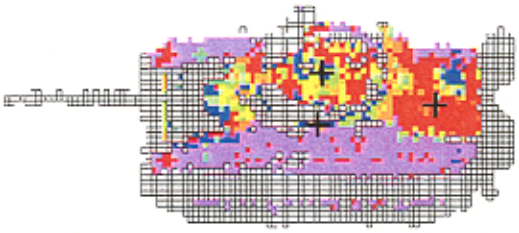


High strength, light weight materials permit significant improvements in performance, transportability, and survivability. The Directorate is involved in the understanding of materials, design parameters, and fabrication methods for new components.

Integration of systems and demonstration of operability is the "proof of the pudding". Adaptation of current and future weapons systems onto current and future vehicles demonstrate firepower advantages for the soldier of the future.



High energy chemistry and hardware design come together in the development of new minimum signature, intensive rocket motors. The Directorate's capabilities include propellant formulation and manufacture, motor loading and static testing



Weapon lethality studies address the target's vulnerable areas and seek to capitalize on these. Lethal energy delivered to the target is being enhanced through the development of the Compact Kinetic Energy Missile (CKEM).