Dated: 05/08/01

EXHIBIT III
Concepts List and Supporting Information

Mars Ascent Vehicle Concept Study Options

Mission Phase	Options
Ascent from Mars Surface	Return Profile (Sample Return Approaches) – Mars Orbit Rendezvous (MOR) – Deep Space Rendezvous (DSR) – Direct Return/Entry to Earth (DEE) – Direct Return to Low Earth Orbit MAV Concepts • Mars Ascent Vehicle – Solid propellant – Gels – Liquid propellant – Hybrid (Liquid/Solid) • Unguided • Guided • Mars Ascent Vehicle/Lander – Orientation – Environmental protection – Interfaces (mechanical, electrical, command and data handling) • Options for ground asset survival after MAV launch