Contract Crystal Growth (R & D)

- World's largest supplier of crystal materials with over 100 Czochralski growth stations
- World's largest Hydrothermal growth facility for non-linear optical materials
- Experts in growing crystals by the Czochralski, Flux, LPE and Hydrothermal methods
- Excellent engineering support for contract growth, fabrication and coating
- State of the art growth equipment
- Experienced scientist and engineers with a history of advanced crystal R & D

The following is a sample of materials under development at this time:

Material	Concentration	Wavelength	Application
Yb:YAG	0.5 - 20% Yb	1030 nm	various
Yb:S-FAP	0.5 - 1.0% Yb	1047 nm	laser amplifier
Nd:GGG	1.5% Nd	1060 nm	slab lasers
Tm,Ho:YAG	2 - 10% Tm, 0 - 1% Ho	2000 nm	diode pump

Miscellaneous:

Magneto Optic Garnet films on GGG substrates

Optical Garnet films on YAG substrates

Ce:LuA10, scintillators

Co:Spinal Passive Q-switches

Specifications and information are subject to change without prior notice. © 2003 Northrop Grumman Corporation MSG1031 02/02

