

**March 29, 2004 — Northrop Grumman's AstroMesh Reflector Successfully Deployed on Mobile Broadcasting Corporation MBSAT Satellite**

CARPINTERIA, Calif. – March 29, 2004 – Northrop Grumman Corporation's (NYSE: NOC) AstroMesh deployable reflector system successfully deployed aboard the MBSAT satellite early today. Japan's Mobile Broadcasting Corporation satellite (MBSAT) launched in March from Cape Canaveral, Fla.

Following a series of release commands by ground controllers, the twelve-meter (forty-foot) diameter AstroMesh furlable mesh reflector and boom support system, built for Space Systems/Loral by Northrop Grumman's Astro Aerospace unit, was successfully deployed and attained its correct shape as indicated by satellite telemetry.

The MBSAT satellite was manufactured by Space Systems/Loral for Mobile Broadcasting Corporation (MBCO) of Japan (MBCO) and SK Telecom (SKT) of Korea. MBSAT will enable MBCO and SKT to provide pioneering digital multimedia broadcasting information services such as high CD-quality audio, MPEG-4 video and data to mobile users throughout Japan and Korea who are equipped with receivers in cars, ships, trains, handheld terminals, cellular phones and home portables.

“This achievement underscores our commitment to reliable space-deployable products,” said Susan Fuhs, general manager of Astro Aerospace. “Our AstroMesh reflector product is an enabling technology for new space-based services.”

The twelve-meter (forty-foot) diameter AstroMesh furlable mesh reflector Reflectors are a key component of the MBSAT satellite's antenna systems, reflecting S-Band radio frequency energy and focusing it into a pattern on the ground. Over the next several weeks, on-orbit testing will confirm the satellite antenna system and AstroMesh reflector performance. AstroMesh reflectors provide large diameter antennas with accurate surfaces that result in enhanced ground performance in a lightweight package.

Astro Aerospace, based in Carpinteria, is a business unit of Northrop Grumman's Space Technology sector, a leader in the development of space, defense and electronics systems. For more than 40 years, Astro Aerospace has pioneered the technology of space deployable structures including AstroMesh furlable antennas and reflectors, truss masts, telescopic booms, storable tubular extendible members, solar arrays and deep truss structures. It has a 100 percent success rate on hundreds of flight-specific deployable units.

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