

Dynasil Corporation Announces Patent Approvals For Advanced Radiation Detection and Increased Detector Production Capacity

WATERTOWN, MA - March 23, 2011 -- (BUSINESS WIRE) -- Dynasil Corporation (NASDAQ GM:DYSL), announced today that its research division, Radiation Monitoring Devices, Inc. (RMD), also of Watertown, was granted additional U.S. patent claims for advances in a detector material capable of responding independently to both neutron and gamma radiation. This advancement is of critical national importance because the most commonly available technology for detecting neutrons in Homeland Security applications, specifically neutron detectors based on gaseous Helium-3, is becoming impractical because of serious limitations on the availability of this gas.

To make this advanced detector technology available to the government and commercial markets as quickly as possible, Dynasil concurrently developed specialized production furnaces designed to make the crystals in large volumes. The initial furnaces have now been deployed and additional ones are expected to be placed into service over the next several months.

Whereas the Research Division in Watertown has the capability of producing the crystals and resulting detectors in prototype quantities, a production facility for this technology is being installed at Dynasil's Hilger Crystals Division in Margate, England, the first step in a major capacity expansion designed to allow that division to produce not only this particular type of crystal, but also a line of additional, unique, neutron and gamma ray sensitive crystals which are now in development in Watertown. The choice of locating the production at Hilger reflects the fact that the Hilger facility has a long history of supplying reliable and high-quality detectors for general nuclear radiation detection, screening of baggage and cargo and for advanced medical imaging. It is expected that Hilger will be ready to supply production volume shipments of these new radiation detectors during the quarter ending September 30.

Dynasil recently expanded its patent protection over its dual mode radiation detection technology with the approval of additional patent claims that cover methods of detecting both neutron and gamma radiation using RMD's proprietary scintillator compositions. This patent reinforces RMD's earlier patent which provides other protection relating to various scintillator compositions and detectors.

RMD has a number of additional patent applications pending which cover other aspects of detection technology and expects to secure a broad range of patent protection in this area. Based on recent events which highlight the need for highly effective radiation detection and emergency preparedness, the company is confident that its new nuclear detector technologies will help make the world a healthier and safer place.

About Dynasil Corporation of America (NASDAQ:DYSL)

Dynasil is a provider of technology, products, services and solutions aimed at making the world safer and healthier. The Company supplies a broad range of customers by serving their specific needs in the medical, industrial, and homeland security/defense markets. Dynasil has operations in Massachusetts, New Jersey, New York and the UK.

This news release may contain forward-looking statements usually containing the words "believe," "expect," "plan", "target", "intend" "designed to" or similar expressions. These statements are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act. Future results of operations, projections, and expectations, including those related to future markets, equipment performance, shipments and patent grants, involve certain risks and uncertainties that could cause actual results to differ materially from the forward-looking statements. Factors that would cause or contribute to such differences include, but are not limited to, the anticipated market demand and acceptance of the Company's dual mode detectors, the Company's ability to develop and deploy additional furnaces that can produce sufficient quantities of crystals, the Company's success in developing the new neutron and gamma ray sensitive crystals, the Company's ability to secure patent protection, the factors detailed in the

Company's Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, as well as in the Company's other Securities and Exchange Commission filings, continuation of existing market conditions and demand for our products.

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