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PRESS RELEASE

Nephros Files 510(k) Application for Hemodiafiltration System

RIVER EDGE, NJ ó August 11, 2011 - Nephros, Inc. (OTC Bulletin Board: NEPH), a medical device company developing and marketing filtration products for therapeutic applications, infection control, and water purification, today announced that on August 11, 2011 it filed a 510(k) application with the Food and Drug Administration (FDA) for clearance of its hemodiafiltration system.

On August 11, 2011 Nephros submitted a new 510(k) application to market its hemodiafiltration (HDF) system for end-stage renal disease. Upon issuance of a 510(k) application tracking number, the application will be subject to the FDA's standard 90-day review period. The application details Nephros's OLpur MD220 diafilter and Nephros's OLpur H₂H Hemodiafiltration module. Nephros's OLpur MD220 is a dialyzer designed expressly for HDF therapy that employs Nephros's proprietary Mid-Dilution diafiltration technology. Nephros's OLpur H₂H Hemodiafiltration module is designed to enable the most common types of standard dialysis machines to perform HDF therapy. Nephros believes that, if approved, its technology would be the first approved on-line HDF therapy available in the U.S.

“Nephros is pleased to have filed this new application for clearance of its hemodiafiltration system,” said Dr. Paul Mieyal, acting CEO of Nephros. “We thank King & Spalding for the firm's counsel during the process, and we look forward to the FDA's review of the new application.”

About Nephros, Inc.

Nephros, Inc., headquartered in River Edge, New Jersey, is a medical device company developing and marketing filtration products for therapeutic applications, infection control, and water purification.

The Nephros hemodiafiltration (HDF) system is designed to improve the quality of life for the End-Stage Renal Disease (ESRD) patient while addressing the critical financial

and clinical needs of the care provider. ESRD is a disease state characterized by the irreversible loss of kidney function. The Nephros HDF system removes a range of harmful substances more effectively, and with greater capacity, than existing ESRD treatment methods, particularly with respect to substances known collectively as "middle molecules." These molecules have been found to contribute to such conditions as dialysis-related amyloidosis, carpal tunnel syndrome, degenerative bone disease and, ultimately, mortality in the ESRD patient.

The Nephros Dual Stage Ultrafilter (DSU) is the basis for the Nephros line of water filtration products, which includes the MSU and SSU ultrafilters. The patented dual stage cold sterilization ultrafilter has the capability to filter out bacteria and, due to its exceptional filtration levels, filter out many viruses, parasites and biotoxins. The Nephros DSU, MSU, and SSU are FDA cleared for the filtration of biological contaminants from water and bicarbonate concentrate used in hemodialysis procedures. Nephros DSU ultrafilters are being evaluated at several major U.S. medical centers for infection control. Nephros ultrafilter technology has also been selected for further development by the U.S. Marine Corps for purification of drinking water by soldiers in the field.

For more information about Nephros, please visit the company's website at www.nephros.com.

Forward-Looking Statements

This press release contains certain "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. Such statements include statements regarding the efficacy and intended use of our technologies under development, the timelines for bringing such products to market and the availability of funding sources for continued development of such products and other statements that are not historical facts, including statements which may be preceded by the words "intends," "may," "will," "plans," "expects," "anticipates," "projects," "predicts," "estimates," "aims," "believes," "hopes," "potential" or similar words. For such statements, we claim the protection of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are not guarantees of future performance, are based on certain assumptions and are subject to various known and unknown risks and uncertainties, many of which are beyond our control. Actual results may differ materially from the expectations contained in the forward-looking statements. Factors that may cause such differences include the risks that:

- we may not be able to continue as a going concern;
- we may not be able to obtain funding if and when needed or on terms favorable to us in order to continue operations;
- we may not obtain appropriate or necessary regulatory approvals to achieve our business plan or effectively market our products including, without limitation, FDA approval of our HDF system;
- products that appeared promising to us in research or clinical trials may not demonstrate anticipated efficacy, safety or cost savings in subsequent pre-clinical or clinical trials;

- we may encounter problems with our suppliers and manufacturers;
- we may encounter unanticipated internal control deficiencies or weaknesses or ineffective disclosure controls and procedures;
- HDF therapy may not be accepted in the United States and/or our technology and products may not be accepted in current or future target markets, which could lead to failure to achieve market penetration of our products;
- we may not be able to sell our ESRD therapy or water filtration products at competitive prices or profitably;
- we may not be able to secure or enforce adequate legal protection, including patent protection, for our products; and
- we may not be able to achieve sales growth in Europe and Canada or expand into other key geographic markets.

More detailed information about us and the risk factors that may affect the realization of forward-looking statements, including the forward-looking statements in this press release, is set forth in our filings with the SEC, including our Annual Report on Form 10-K for the fiscal year ended December 31, 2010, as amended and our other periodic reports filed with the SEC. We urge investors and security holders to read those documents free of charge at the SEC's web site at www.sec.gov. We do not undertake to publicly update or revise our forward-looking statements as a result of new information, future events or otherwise, except as required by law.