



APRIL 21, 2010 FOR IMMEDIATE RELEASE:

Nitto Denko/Hydranautics Announces Adelaide Project Award

Oceanside, California – Nitto Denko/Hydranautics is pleased to announce it has been selected to supply SWC5 MAX, SWC6 and ESPA2 MAX elements for both the first and second phases of the Adelaide SA seawater desalination plant located in Port Stanvac, SA. The first phase of this plant is scheduled to begin operating in December of 2010 at a rate of 39.62 MGD (150,000 m³/d), and will be expanded so that by the end of 2012, production will be twice that amount. The purpose of this plant is to ensure adequate water supply especially during drought conditions. The production of this water will be completed while meeting the highest standards of environmental performance.

The Adelaide desalination plant will utilize a hybrid seawater element design, where two types of seawater elements are staged in the same vessel. This novel design, along with the use of Hydranautics' high performance elements, will ensure that the product water will meet the specifications of less than 80 ppm chloride, 0.2 ppm Br, and 0.5 ppm boron, while operating at the lowest possible energy consumption.



Hydranautics' ESPA2 MAX (Energy Saving Polyamide) membrane provides exceptional salt rejection at lower pressures. The SWC5 MAX and SWC6 seawater thin film polyamide membranes are designed to provide high salt rejection at a higher rate of flow with an increased boron rejection. In addition, the RO systems designed with the MAX technology use 10% fewer elements than the systems designed with standard 400 ft² elements, resulting in lower capital costs for the end user. Through the use of advanced manufacturing automation, these elements consist of high active membrane surface area, which provides a high performance solution with lower costs for the sea water desalination plants.

SWC5, SWC6 and the ESPA2 family of products are part of the comprehensive Hydranautics line of seawater and low energy membranes that are used worldwide with an installed capacity

of more than 850 MGD (>3,215,000 m³/day) operating successfully. The performance record of these products demonstrates Hydranautics' position as the preferred supplier of technologically advanced spiral wound reverse osmosis elements around the world.



Nitto Denko/Hydranautics is a global leader in research, development and manufacture of water filtration membranes including reverse osmosis, nanofiltration, ultrafiltration, and microfiltration. Our membranes products (SWC, CPA, ESPA, HYDRAcap, and HYDRAsub) are used extensively in municipal & industrial water and wastewater treatment.

Nitto Denko, through Hydranautics acquisition in 1987, has been in the membrane technology arena for more than 40 years and remains committed to bringing innovative membrane technologies to provide clean water to a thirsty world. Our global membrane division's headquarters are located in Oceanside, California with three manufacturing sites located in Oceanside, CA; Shiga, Japan; and Shanghai, China with combined manufacturing site in excess of 131,000 m² (1,400,000 ft²). Our world-wide sales and customer service offices are located throughout Europe, Asia, Middle East, North America, and South America.

We invite you to learn more about our dynamic company. Please visit us online, www.membranes.com, call us, 1-800-CPA-PURE, or email us, info@hydranautics.com. Hydranautics is here to help you meet all your water treatment requirements. Solutions you need. Technologies you trust.

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