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FOR IMMEDIATE RELEASE

Harper Delivers Complete State-of-the-Art Carbon Fiber Processing Line for FISIFE

Buffalo, NY – Harper International, leader in the design of thermal processing solutions for advanced materials, has installed a full pilot scale carbon fiber (CF) process line for FISIFE, S.A., an international leader in specialty acrylic fibers for technical applications. Additionally, Harper and FISIFE, S.A. have developed a collaborative agreement in which the pilot process line in Lavradio, Portugal is available as an open reference and capabilities demonstration to other select Harper clients.

Harper was chosen as the primary partner for engineering, process equipment, installation supervision and startup for a complete pilot scale CF line rated for production of carbon fibers from 24k to 320k from PAN based precursor. Harper's process equipment solution incorporates their proprietary multi-flow oxidation oven, advanced LT and HT slot furnaces rated for 800°C and 1800°C respectively, surface treatment and waste gas abatement systems, and winders.

"FISIFE partnered with Harper due to their background in carbon fiber process equipment," stated José Miguel Contreiras, Commercial Manager / Board Member, FISIFE, S.A. "Harper offered to us the most credible proposition and we are extremely confident that our collaborative agreement will be mutually beneficial."

During the installation phase, Harper deployed a field team consisting of a supervisor as well as ancillary engineering and manufacturing resources to support erection and start-up activities on site. Harper worked directly with the client's contractors and internal staff for field installation of electrical and mechanical interconnect.



"At Harper, we seek to partner collaboratively with clients as they develop, refine and scale up their process technologies," commented Charles Miller, Jr., President, Harper International. "Our depth of expertise and unique ability to create solutions enables firms like FISIFE to optimize their R&D investments and achieve their goals more swiftly and successfully."

About Harper International

Harper International is a global leader in complete thermal processing solutions, as well as technical services essential for the production of advanced materials. From concept to commercialization, from research scale to full production line operations, Harper is perpetually on the cutting edge. Since our founding in 1924, we have pioneered some of the world's most innovative, customized systems, with a focus on processing materials at high temperature and in non-ambient atmospheres. For additional information about Harper, please visit www.HarperIntl.com or email us at info@HarperIntl.com.

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