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PRESS RELEASE

SECOND LIFE FOR AN OLD REACTOR. RUSSIAN ENGINEERING COMPANY “NIIK” HAS COMMISSIONED A NEW UREA PRODUCTION UNIT WITH ITS OWN UNIQUE URECON®2006 TECHNOLOGY

NIIK is a modern Russian engineering company implementing the advanced concepts and technologies for urea production, which is one of the most popular fertilizer types in the world, for more than 65 years.

For the first time in the company’s history NIIK has commissioned a new urea production unit based on NIIK’s patented URECON®2006 technology. The project was completed in November 2018 at the Acron Group site in Veliky Novgorod (Russia). URECON®2006 is an improved liquid recycle technology, which has been successfully realized for the revamping of low capacity units. This process uses brand new solutions with optimized hydrodynamics and highly efficient heat and mass transfer. One of the most important features of the technology is a single high-pressure vessel – a urea synthesis reactor.

The main principle of the project is based on the use of existing equipment having the longest lead-time, mainly synthesis reactor and pneumatic pumps. The new urea unit utilizes a backup synthesis reactor from the existing production unit, which initially had a design capacity of 270 TPD. In order to intensify the process, NIIK equipped it with a unique Set of Internal Devices (SID), thus increasing capacity to 620 TPD. Moreover, NIIK procured the licensed key equipment within the shortest time period.

Highly qualified NIIK’s engineers managed to realize the project within one year. The Customer believes that the completion in such a record-breaking time was possible due to the exceptional quality of design documentation provided by NIIK requiring no revisions. The project implementation in Veliky Novgorod was witnessed by several local and foreign companies that are willing to build similar production facilities based on NIIK’s license.

The management and staff of Acron have noted the high level of NIIK’s specialists and are looking forward to continued cooperation in future projects.