Honeywell is the first choice in process automation for the fertilizer industry. Our experience and expertise in providing automation solutions to the fertilizer industry spans 30 years. Whether you are a small ammonia producer in China or Eastern Europe or a world-scale nitrogen-based fertilizer complex in the Middle East or India, Honeywell’s control system technology, applications and services can improve your company’s business performance and ease your peace of mind.

Benefits
Honeywell helps you realize measurable improvements such as:

- Increase effective capacity by 1-4%*
- Reduce energy consumption 1-2%*
- Improve yields of most valuable products by 1-2%
- Reduce catalyst consumption by up to 1%

Honeywell has extensive expertise in fertilizer industry including:

- Process Automation
- Advanced Control
- Operator Training Simulation
- Alarm Management
- Production Management
- Operations Management
- Supply Chain Management
- Performance Monitoring

Higher prices, higher feedstock costs and increased competition
Fertilizer producers face this situation today. Rising prices have followed higher feedstock costs making it imperative that you focus on improving the performance of existing assets and sustaining these improvements. The challenge comes from increased capacity coming on-line in regions with significant natural gas cost advantage, forcing you to focus relentlessly on reducing costs while serving customers better. You may have already de-bottlenecked the plant, improved energy performance by better heat integration, improved reactor design and changed to more advanced catalysts. But as you push the plant closer to its limits, you do so with fewer and often less experienced operators while facing the need to address ever more stringent environmental and safety mandates. Now Honeywell has the process automation systems, applications and services that will turn data into information and bring knowledge from all over the plant to help you achieve and sustain real business improvements.

Experion Systems
The Experion platform provides the foundation for the Experion™ Process Knowledge System (PKS), integrating all process control and safety management (including Honeywell and non-Honeywell systems) into a unified architecture. Robust and scalable, the Experion platform can be used for single ammonia plants or using Honeywell’s Distributed System Architecture (DSA) can connect thousands of points in nearby Urea and Ammonium Nitrate plants into one large system – at very little additional cost. Experion takes customers well beyond Distributed Control System capabilities by providing next generation automation control through embedded decision support and diagnostic technology. Experion drives information to the decision maker. The safety system (like Safety Manager providing emergency shutdown logic for critical items such as the reformers) maintains the security of an independent environment from the mainline control system, increasing security and system dependability. The result is a unified automation platform that elevates safety and process availability, as well as production and profitability.
Experion applications allow you to tackle problems more intelligently

Experion applications are a broad portfolio of advanced software applications designed to improve business performance and peace of mind. Applications are uniquely configured to capture the domain knowledge of people and display it in a systematic and useful way.

Honeywell’s solution for Fertilizers focuses on improvement in the following areas:

- Business Agility
- Process Performance
- Asset Effectiveness
- People Effectiveness

Increased Business Agility comes from applying Honeywell’s decision making tools and best practices to improve visibility across the supply chain. If urea granules sell best in one region, while anhydrous ammonia for industrial use sells best in another region, this knowledge helps set warehouse distribution planning and aligns production with customer demand.

A key component of increasing manufacturing efficiency is improved Process Performance. Minimizing inerts in the synthesis gas loop while pushing up against compressor and refrigeration constraints effectively increase production capacity. Other applications are tailored to your process whether it is controlling steam/carbon ratio in the primary reformer, or balancing production targets for ammonia and urea across your fertilizer production complex.

Honeywell helps improve Asset Effectiveness by providing tools and applications that focus on detecting problems early before they cause upsets. Continuous and active monitoring of steam turbine-driven synthesis gas compressors using Turbo-suite, improves effective capacity by reducing the number and impact of incidents as well as ensuring peak operating performance.

People are your most important asset, and when used effectively you realize consistent, safe, and reliable operations. Applications such as UniSim™ simulation and training incorporating specific fertilizer process models, Abnormal Situation Management (ASM) approved graphics, and Workcenter PKS can increase your People's Effectiveness in operator knowledge, process operations, and business/process interactions.

Experion Services

Better Delivery means quicker startup and faster return on investment

When it comes to rapid, safe and successful deployment of automation solutions, 98% on time and on budget of all projects is just about all you need to know regarding Honeywell’s services capability. There are more than 3000 service professionals in over 90 countries (Honeywell has implemented fertilizer solutions in more than 30 of them) to ensure that you get experienced personnel focused on delivering real results to your business.

Better Lifecycle support allows you to decide when it is necessary to upgrade

Services also provide lifecycle support to help customers sustain the benefits from their investment in Honeywell technology. Experion services support easy migration from previous Honeywell systems and third-party systems. Continuous evolution to Experion is made easy, allowing the functionality of previous Honeywell systems to be fully maximized. No other vendor protects your investment like Honeywell – we are the only vendor that supports products dating back 30 years that are controlling fertilizer plants today and at the same time allow them to be integrated into our latest platform. This means you need only upgrade when it makes sense for your business.

Turn Resources into Results

Honeywell’s solution for Fertilizers provides measurable benefits in business decision making and manufacturing execution. These results can be seen in improvements in effective capacity, yield, product quality and energy costs. Let Honeywell show you the way to better performance and greater peace of mind.
More Information
For more information on Fertilizers Solution, visit our website www.honeywell.com/ps, or contact your Honeywell account manager.

Automation & Control Solutions
Process Solutions
Honeywell
2500 W. Union Hills Dr.
Phoenix, AZ 85027
Tel: +1-602-313-6665 or 877-466-3993
www.honeywell.com/ps