Amplify Your Facility’s Return: Adapting to the Demands of Your Evolving Business

The **AMINE MANAGEMENT℠ Program** is a comprehensive service program that targets the gas treating amine systems to achieve environmental compliance while improving reliability, reducing energy costs and preserving the integrity of assets.

This proactive approach to managing an amine system can enhance a facility’s **economics** and **performance** by:

- Reducing energy use
- Increasing unit capacity
- Maximizing solvent life
- Reducing amine consumption
- Restoring operational reliability
- Reducing contaminants and corrosion

Dow Oil & Gas will send a team of experienced technical service engineers who will:

- Perform an initial survey of the amine system, including sample and data collection
- Run computer simulations using real data collected from the amine unit
- Customize a proposal to help optimize performance
- Supervise the implementation of the proposed solutions
- Provide training and start-up support
- Periodically visit the site to review process data and provide optimization recommendations
- Provide on-call support

In the face of changing environmental regulations and evolving market demands, refineries deal with complex and growing challenges. For example, varying crude slate, in conjunction with tightening environmental regulations for sulfur and CO₂ emissions, can put substantial pressure on refineries to meet margin expectations. You can rely on Dow Oil & Gas to help turn these challenges into profitable opportunities through solutions that can improve an operation’s competitiveness, preserve its physical assets and reduce its operating costs.
How Does the AMINE MANAGEMENT℠ Program Work?

Dow Oil & Gas provides customers with more than just products and services; we collaborate with them to improve amine plant performance and help sustain performance gains over the long term. We work closely with a facility’s operational team to help ensure that the gas treating facility is operating at optimal performance.

The AMINE MANAGEMENT℠ Program...

maximizes value!
Advanced Offerings That Produce Exceptional Results

Dow Oil & Gas combines in-depth industry knowledge, chemistry expertise and advanced innovation capabilities with deep application expertise in solvents for superior acid gas removal and amine system operation. Our amine-related offerings also include:

- Dow technicians – utilizing a proprietary simulation tool backed by data collected from more than 800 gas-treating plants worldwide – can assist in optimizing gas treating systems, providing great value to a facility
- A best-in-class analytical lab that performs thousands of customer analyses annually, while providing a remarkable turnaround time versus the industry average
- An in-depth selection of UCARSOL™ Specialty Solvents that provide superior performance, allowing for tailored contaminant removal and reduced energy consumption

UCARSOL Specialty Solvents can help meet operational objectives identified through AMINE MANAGEMENT™ Program. Solvents from Dow Oil & Gas include:

- UCARSOL HS Solvents for Selective Acid Gas Treating in a wide variety of gas treating and LPG applications
- UCARSOL LE Solvents for Refinery Gas and LPG Treating in fuel gases, recycle gases and/or cracked LPG feeds
- UCARSOL™ NH Concentrate for Aggressive Acid Gas Removal, offering significant operating cost benefits over solvents normally used in gas treating facilities overall performance

UCARSOL DHM Neutralizer, specifically designed to safely and efficiently neutralize heat stable amine salts
- UCARSOL GT Antifoams provide specialized foam control in amine-solvent to improve overall performance

UCARSEP™ Process for Heat Stable Salt Management can help:

- Avoid downtime with on-line reclamation
- Extend solvent life
- Reduce corrosion potential
- Achieve sulfur specifications
Addressing Environmental Concerns
The increased demand for energy worldwide has pushed refiners to increase crude processing flexibility to tolerate heavier, more sour crudes. At the same time, environmental regulations require refiners to emit less sulfur. To successfully deal with sulfur, the refineries must undergo expensive retooling, which increases their complexity.

UCARSOL™ Specialty Solvents have become an industry standard for the most complete removal of H₂S and trace sulfur. Dow Oil & Gas will work with our customers to help their facilities meet stricter environmental regulations, while also helping operations run more efficiently – resulting in an environmentally compliant, cost-effective solution.

Advocating for Better Engineering
Our experienced technical team can also help with the engineering design of new and revamped facilities by:
• Providing a mass and energy balance as input to preliminary process engineering
• Incorporating a state-of-the-art pilot plant that can be used to generate data to support preliminary design
• Recommending solutions to reduce capital and operational expenditures
Dow Oil & Gas and You: Together, We’ve Got Good Chemistry

Dow Oil & Gas is committed to maximizing value for our customers by offering innovative, customized solutions tailored to the evolving needs of the oil and gas industry. Backed by the proven resources of The Dow Chemical Company, Dow Oil & Gas offers advanced chemical innovation, intimate industry knowledge and exceptional service. For more information, visit: www.DowOilandGas.com.

Dow has been at the forefront of gas treating technology for more than 65 years. From computer simulations to hands-on operations support and analytical evaluations, the Dow Oil & Gas team is with you every step of the way to meet your everyday gas treating challenges.
To Learn More...

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*Toll free service not available in all countries.

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For more information, visit www.DowOilandGas.com.

** This guide is designed as a general product overview. Please contact your local Dow Oil & Gas representative for up-to-date, detailed technical information including registrations and use limitations and to discuss individual applications or requirements.

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