

### Early Lessons from a Tragedy

On April 20, 2010, an explosion on the Deepwater Horizon drilling rig, operating in the Gulf of Mexico off of the coast of Louisiana, killed 11 workers and injured 17 others. Approximately 36 hours later, the rig sank. The resulting oil spill from the damaged well head is the largest in U.S. history. This incident has been a major news story throughout the world. As this Beacon is being written in late June, oil continues to leak from the well. It is too soon to know the specific causes of this incident, and there will be numerous investigations in the months ahead.

However, it is not too early to think about what we can all learn about the importance of understanding what can go wrong in our own plants, and how we can be better prepared to respond to an emergency. Emergency procedures and equipment are not used very often – after all, emergencies are rare events. But, they can happen, so we must always ensure that we understand how to recognize warning signs of an incident, be sure that emergency equipment is in good working order, and practice emergency procedures frequently.



▲ The oil spill from space on May 24, 2010. Photo courtesy of NASA.



▲ The Deepwater Horizon fire. Photo courtesy of U.S. Coast Guard.

### What Can You Do?

- Find out and understand the worst things that can go wrong in your plant.
- Learn to recognize warning signs of a potential major incident.
- Make sure that you know your role in preventing a major incident if you observe any of its warning signs.
- Know how to maintain equipment intended to protect against major incidents in your plant.
- Familiarize yourself with critical procedures intended to protect against major incidents in your plant.
- Know what to do after an incident, both to protect yourself and others and to minimize damage.
- Ensure there are frequent emergency drills that practice emergency procedures at your plant, so you are familiar with what to do if a real incident occurs.

***Do you know how to respond to an emergency in your plant?***

AIChE © 2010. All rights reserved. Reproduction for non-commercial, educational purposes is encouraged. However, reproduction for the purpose of resale by anyone other than CCPS is strictly prohibited. Contact us at [ccps\\_beacon@aiche.org](mailto:ccps_beacon@aiche.org) or 646-495-1372.

The Beacon is usually available in Afrikaans, Arabic, Chinese, Danish, Dutch, English, French, German, Greek, Gujarati, Hebrew, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Malay, Marathi, Norwegian, Persian, Polish, Portuguese, Russian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Urdu and Vietnamese.

Circle 103 on p. 59 for a free electronic subscription to the Beacon.