



# ADF Engineering

PROBLEM SOLVED

## ADF Q3 Client Update

### 4 Tips for Recovering from a Plant Emergency

Many times over the years, ADF has been called in to help companies recover from emergencies and disasters such as fires, explosions, and chemical spills. Consistently, we've noticed that the companies with the best laid plans also have the best recoveries.

Here are some tips based on what we've learned.

- 1. Failing to plan is planning to fail.** We know that most of you already have your required facility and OSHA contingency and recovery plans, but when an emergency strikes and it's time for action, you'll need to rely on planning, training, and established resources to respond. Before, during, and after an incident occurs, you should enlist responsible employees to take ownership over sections of your immediate disaster response plans. More importantly, have a good communication plan and use outlets like social media to provide timely information to your employees and their families, contractors, federal and local agencies, and news outlets.



- 2. Phone a friend.** ADF's local fire district marshal in Miamisburg, Ohio, shared that they frequently get calls from industrial facilities to ensure that they have current documentation

on file: building layouts, employee headcounts, material safety data sheets, and organizational response plans. Having prepared first responders can shave off precious minutes when it counts.

3. **Assess the damage.** You may also consider involving proper resources to help you subjectively assess any damages. ADF president Alex Fishman was called to a client site after a major fire to verify if the building was structurally sound enough for a Hazmat crew to enter and contain the resulting chemical spill. Working with first responders, he had to act fast to provide his assessment and worked with contractors to install temporary supports for safe building entry.
4. **Think outside the box.** Newer technologies are making assessment and damage control easier than ever. “There are ways to attach a camera or a laser scanner to a drone, then pilot it around a facility,” Fishman said. “This reduces risk for first responders, employees, and clean-up crews. We can get a real look at the damage, build a model, and then use virtual reality as a visual tool. And it’s all without the danger of sending people into an unknown environment.”

For more resources on planning your emergency responses:

- <https://www.ready.gov/business/implementation/emergency>
- <https://www.osha.gov/Publications/osha3088.html>
- [www.adfengineering.com](http://www.adfengineering.com)

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## Keys to a Successful Brownfield Design

While brownfield projects can save time and money by avoiding new building construction, these each come with unique challenges that require consideration during the design process.

ADF Structural Department Manager Derek Jacobs recently wrote a white paper about the three things that help make a brownfield project a success: precision field measurements, operational understanding, and thinking constructability.

[Read the white paper here.](#)



## See Photogrammetry in Action

We love 3D laser scanning, but sometimes it isn't the best choice for a situation.

Photogrammetry is an alternative to 3D laser scanning that takes normal, digital photos and turns them into 3D models that can be navigated and modified. Some benefits of photogrammetry include not needing any specialized equipment, more accurate representation of textures and colors, and less investment of modeling time and resources.

[Click here](#) to see how we turned a series of photos like those below into a 3D model.



## ADF News & Updates

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### **Food Engineering's 39th Annual Plant Construction Survey**

ADF was proud to participate in Food Engineering Magazine's 39th Annual Plant Construction Survey.

Results showed new construction projects were 9.29% greater than in 2014, while renovations and expansions were up nearly 14%.

[Read the report here.](#)

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### **Coming Soon: Waste Water Treatment Services**

Did you know that ADF has applied experience in offering industrial water and waste water treatment services? Waste water treatment design and construction can be bundled with other project work, saving time and money by completing them together.

Be on the lookout for expanded information on the offerings soon. If you have any questions about our capabilities in this area, email mechanical department manager [Rakesh Patel.](#)

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