

# Emergency Mobile Clarification Trailers Keep Midwest Refinery Up And Running

A planned outage allows this refinery to keep its water treatment system running at peak performance during peak season. However, when a system fails, Siemens Water Technologies, formerly USFilter, responds to their emergency with mobile clarification to avoid costly production downtime.

## Challenge

Timing is everything when it comes to a scheduled plant outage. But sometimes even the best plans are derailed when a piece of water treatment equipment fails. That's what happened at a Midwest refinery when its conventional clarification system broke down before the plant's scheduled shutdown. The refinery had planned for one clarifier to be taken off-line for the outage, and for three Siemens temporary mobile clarification trailers to be installed and operational well before that time.

Two weeks before the outage was to begin, a meeting was scheduled to finalize the details of the trailer installation. But before the meeting even happened, the customer informed Siemens Water Technologies that the conventional clarifier had failed, and they needed the trailers sooner than planned to avoid costly production downtime.

## Solution

The customer asked Siemens Water Technologies to provide mobile clarification on an emergency basis to treat the refinery's water while the facility repaired the conventional clarifier. Within five days, Siemens delivered three 1,000-gallon-per-minute (gpm) mobile clarification units to the site, had them operational, and making water that met the refinery's specification. Combined, the three clarifiers delivered approximately 2,900 gpm of treated water for boiler feed water and other uses.

Siemens Water Technologies' technical service and field support personnel worked with the customer on this fast-track project, overcoming variable inlet water turbidity levels, and a less than ideal tie-in to the customer's existing system. Siemens provided the installation manpower, as well as on-site operation support to ensure that the units were running in top condition and producing the desired results.

## Results

Siemens Water Technologies mobile clarification units remained on site for six weeks, allowing the customer to repair its failed clarifier without having to shut down the plant before the normally scheduled outage.

The mobile clarifiers performed extremely well, even with the variable inlet water turbidity level. The mobile clarification technology is ideal for this type of application, as it can handle high turbidity, as well as variable turbidity in the feed water source.





Siemens Water Technologies North America Service Network

### North America Service Network

Our North America service network is backed by more than 80 offices staffed with certified technicians and applications experts who can solve your problems. In addition, Siemens Water Technologies provides response flexibility through either a lease or capital purchase option, and the company offers assured liability protection through environmentally safe waste destruction.

### Services Available

- Activated carbon supply, removal and reactivation services
- Filter media supply and removal
- Ion exchange resin supply
- Membrane supply and cleaning programs
- Parts and expendables
- Service contracts
- Temporary/emergency water systems

### Technologies Available

- Reverse Osmosis (RO) membrane filtration
- Conventional clarification and filtration
- Oil/Water separation
- Granular activated carbon adsorption
- Demineralization
- Inorganic metals removal
- Chemical addition

Siemens Water Technologies delivers cost-effective, reliable systems guaranteed for quality, safety, and compliance. Our trained service staff is available to make sure your systems is running at peak performance and to your specification. For your water treatment system, choose the partner that is committed to taking care of the world's water...and yours.

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