

Peter Kiewit Sons, Inc. ECO 24/7SM Case Study

Energy, Commissioning and Optimization Services

(completed in September 2006)

- » Implemented ECO 24/7 Fan Airflow Stations for AHUs
- » Optimized controls for air handling units
- » Commissioned all terminal boxes
- » Implemented dynamic airflow reset in terminal boxes
- » Implemented ECO 24/7 Pump Flow Stations for chilled water and condenser pumps
- » Optimized primary, secondary and condenser water pump control

Benefits

- » Reduced comfort complaints and maintained building comfort
- » Improved system reliability
- » Improved building pressure control
- » Improved indoor air quality

Annual Energy Savings

- » Reduced annual HVAC electricity consumption by **65%**
- » Reduced electricity demand by **18.6%**
- » Reduced natural gas consumption by **50%**



Peter Kiewit Sons, Inc.

Kiewit Plaza, Omaha, NE

- » Built in 1960
- » 237,000 square feet
- » 16-story office building
- » Eight VAV AHUs
- » Two centrifugal chillers
- » Five boilers
- » Advanced EMS system
- » Modern HVAC system

