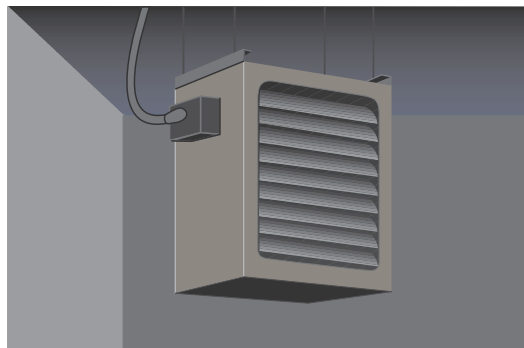




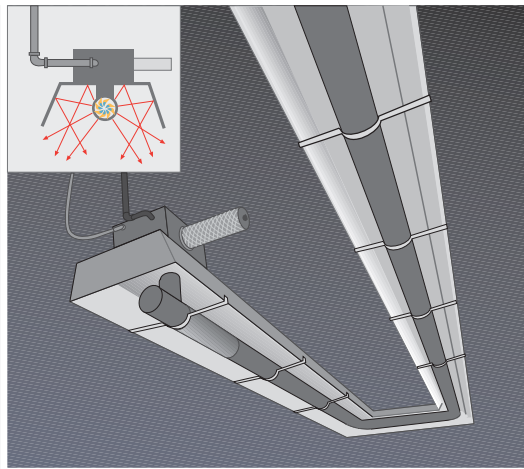
Infrared Heat

MSD has learned through experience that converting to natural gas heating has multiple benefits: lower cost, better air quality and improved staff comfort. Because this gas-fired infra-red heating system was so successful at our Cabel Street facility, it was also used in the new maintenance garage at our Okolona facility.



Old System - Ceiling-mounted electric-resistance unit space heaters

- The electric system's heat naturally rose to the high ceiling, well above the mechanics working below.
- In the winter, the mechanics could stay chilled the rest of the day after opening the garage door to exchange vehicles.



New System - Gas-fired infrared heating system

- A vacuum at one end of the ceiling-mounted distribution pipe pulls the heat from the gas burner at the other.
- Infrared heat naturally sinks to the thermal mass below: the mechanics and the concrete floor on which they work.
- Now, staff warms up quickly. MSD believes that improved comfort boosts productivity.
- Including capital costs, the pay-back period was less than 3 years!
- The switch greatly reduced air pollutants.

Anticipated Savings

Net annual savings of about \$17,000 in LG&E tariff and energy savings
Greenhouse gases (CO₂) were reduced by 80% and priority pollutants (SO₂ and NO₂) were almost eliminated!

