Project:
Spray Polyurethane Foam (SPF) ROOF SYSTEM FOR FREEZER COMPLEX

U.S. Cold Storage Facility
SACRAMENTO, CALIFORNIA

Central Coating Company, Inc.
Sacramento:
Storage Capacity: 2.5 million cubic feet  
Roof Area: 160,000 square feet

Union City:
Storage Capacity: 4.4 million cubic feet  
Roof Area: 234,000 square feet

**ISSUES:**
- ✓ Vapor Barrier Failure
- ✓ Roof Leaks
- ✓ Reduced Energy Efficiency

**System Installed:**
- 1.5 in. sprayed polyurethane foam
- 2 coats of vapor barrier coating
- White topcoat and white granules

This photo shows several steps of the vapor barrier repair process.

- Roof and insulation have been removed to expose the concrete parapet wall and the roof deck.
- Failed vapor barrier has been removed from the concrete wall.
- New sprayed-on vapor barrier and new insulation board have been installed.
Existing AC Units on wood blocks before new roof installation.

AC units are remounted on platform supported galvanized sheet metal pans. Conduit has been remounted on fiberglass reinforced plastic “C” channel blocks.
The existing scuppers were the source of both water and moisture vapor leaks. All new GSM scuppers were installed.

Open joints were injected with foam and the entire repair area was sealed with sprayed-on foam.

The final vapor barrier coating is installed over the foam and tied onto the wall to complete the continuous wall-to-roof vapor barrier. This area is ready for the white topcoat and white granules.

The field of the roof in the background has been primed and foamed (yellow area). The black area has received the first coat of the vapor barrier coating system.
Finished Details: COOLING TOWER COMPLEX

- Pipes going through the freezer wall are permanently sealed.

- Plastic/wood walkways protect the roof system in high traffic areas.

- Complex penetrations are easily sealed.
Here’s what the facility engineers have to say:

From Union City:
"As soon as they finished installing the new foam roof we were able to shut down one of our 200 H.P. screw compressors."

From Sacramento:
"It’s only 3 months and already the ice on the ceiling is dissipating."

From Union City:
"This foam really works, the temperature has dropped 5 degrees in the Phase II area."

Any technology is only as good as the service behind it. For over 35 years, Central Coating Company, Inc. has been leading the roofing industry in Sprayed Polyurethane Foam Roofing Systems by consistently delivering:

- Unparalleled workmanship and on-time installation.
- Innovative solutions to a wide range of roofing and insulation challenges.
- Long-term, well-trained employees.
- Full time service department providing customer service you can count on year after year.
- Commitment to safety; developed contractor safety and product stewardship program - an industry model.