Keepin’ Cool at the Central Heating Plant:
New cooling System for Feed Water Pump

Presented by:
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2002 Projects

- Turbine (65 kW) Re-build
- Make-up Water Meter
- New “Polishing” Controls
- Cooling System for Boiler Feed-Water Pumps
Future Projects

- Lighting Upgrade / Retrofit (with Energy Efficient Lamps & Ballasts – new light switching)
- New Boiler Controls (current technology)
- Control Room Re-configuration / Design
- “Keep-Hot Coils tm” for Boilers (Cost-Savings for boiler operation and utilities)
Cooling System for Feed Water Pump: Project Goals

• Stop dumping waste-water down the drain. (We get charged for this -- $$!)  
• Sustain adequate cooling for all of the boiler feed water pumps; our “primary objective”.  
• Simple payback of less than 1.0 year for UVM.
“I-PAC™” Fluid Cooling Unit
Boiler Feed-water Pump Supply
Boiler Feed-water Pump Return
Estimated Water Savings

- Volume = 690,900 Cubic Feet (CF) / yr.
- Cost Savings = approx. $40,000 per year
- Simple Payback is less than 1.0 year for UVM. Will report back on *actual* savings.
**Special thanks to**

**the Project Crew**

- Lewis Zeno – *UVM Operating Engineer*
- Mike Wells – *UVM Supervisor & Operating Engineer*
- Richard Wolbach - *UVM Energy Mgmt. Engineer*
- Lenny Mongeon – *Technical Consultant with “Air Compressor Engineering, Inc.”*