

# Nuclear Heat Exchangers

## Shell & Tube Heat Exchangers

Super Radiator Coils is a NUPIC-audited manufacturer of small and medium-sized safety and non-safety related heat exchangers for the nuclear power industry. Common applications include: EDG lube oil, air and jacket water coolers, motor lube oil coolers, refrigerant evaporators and condensers, and stator coolers, which often feature upgraded construction to extend service life. Whether a new installation or replacement retrofit - **If it has to be perfect, it has to be Super.**



### PWR Nuclear Power Station

R-134a Chiller Condensers

## Features of the Project

### R-134A Chiller Condensers



### In-Process Shell/Bundle Assembly

- R-134a safety related chiller-condensers
- ASME Section III, CL 3, N-stamped on shell side
- ASME Section VIII, U-stamped on shell side
- Stainless steel tube sheets and bonnets
- Painted carbon steel shell
- Enhance surface copper tubes
- Complete ASME design and seismic analysis
- Sized for 155 ton (2) and 188 ton (2) chiller sets

### Bonnet Head Machining



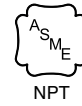
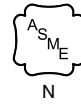
NPT-3 Appurtenances  
for ESW Piping Interface



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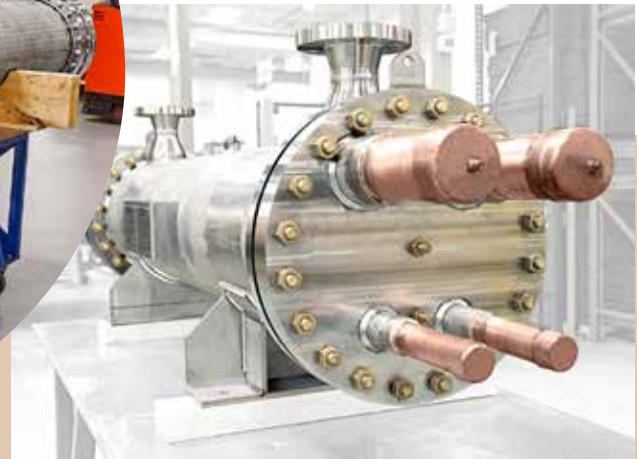
# Selected Applications

## Certifications



### Replacement Stator Coolers (2)

ASME VIII, U-stamp, non-safety related  
Upgraded to all stainless steel with AL6XN® tubes



### R-134a Chiller Evaporators (2)

ASME III, Class 3, N-stamp, safety related  
All stainless steel with enhanced copper tubes



### Compressor Seal Water Coolers (2)

ASME III, Class 3, N-stamp, safety related  
All stainless steel and performance tested



### Replacement R-22 Condensers (4)

ASME VIII, U-stamp, safety related  
Reverse engineered & expedited schedule



**SUPER  
RADIATOR  
COILS™**

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