

St. Lucie Nuclear Generating Station

INDUSTRY: **Nuclear**

APPLICATION: **Spent Fuel Cask Handling**

PRODUCT: **Two (2) Single Failure Proof 150 Ton Cask Handling Cranes**

SERVICES: **Design, Manufacture, Installation, Quality and Load Testing**

THE CHALLENGE

To upgrade two (2) cranes to meet regulatory standards, along with increased capacity requirements necessary for dry spent fuel storage.

THE SOLUTION

American Crane designed, manufactured, installed, tested and provided training for the complete rebuild of these two (2) 150 ton single failure proof cask handling cranes.

THE RESULT

This specific design complied with all mandated nuclear and regulatory codes and standards including, but not limited to, NUREG-0554, NUREG-0612, ASME NOG-1 and 10 CFR 50, Appendix B. Related activities included structural analysis of crane runway and building structure, including identification of required building modifications to accommodate the increased loadings imposed on the building as a result of the crane upgrade.