



Quick Payback

**Customer:** United States Naval Bases

**Location:** West Coast, US

**Scope of Work:** The federal government established a mandate to save energy dollars through the reduction of steam and condensate losses. Working as a subcontractor to a west coast Energy Services Provider Company, Armstrong International provided energy savings recommendations (with paybacks well within the government's criteria), project definition, and a firm lump sum turnkey price for the projects identified. The paybacks, calculated on an average cost of \$2.50/1000 lb. of steam (considerably lower than the area average), provided an excellent return on investment.



**Upgrade Projects:** Contracts for audit and turnkey projects have been initiated at four bases.

After initial steam trap and condensate return audits were completed, the following products have been installed:

- Steam traps and manifolds
- SteamEye® transmitters, repeaters, receivers, and software integration into Johnson Metasys and Siemens building management systems
- Armstrong pumping traps for condensate recovery projects
- Armstrong sump ejectors for base distribution manholes water pumping

**Benefits:** The naval bases have reduced steam and condensate losses. Because Armstrong's products and turnkey projects have such short paybacks, the customer is able to bundle other needed infrastructure projects with Armstrong and still have an overall payback that meets government criteria.

