

## CASE STUDY

### NCR Corporation

#### Project: Global Energy Manager

- Duties include energy audits, QA services on new construction, development of energy procurement programs, implemented nationwide utility bill consolidation and payment system for 40+ sites

**Client:** NCR Corporation

**Scope:** Sample for new construction QA Services:

Mr. Halpin has reviewed a number of designs for new construction or major renovation projects around the world for his client NCR Corporation.



- For the **Amsterdam, Netherlands** facility: Mr. Halpin reviewed the plans, specifications, and design calculations for this new 100,000 square foot distribution center. His recommendations for higher efficiency heating units, improved controls, and occupancy sensor controlled warehouse aisle lighting resulted in significant savings.
- For the **Tempe, Arizona** facility: In early 2002, NCR leased an existing warehouse, and planned to convert it to a paper processing plant for its ATM and cash register receipt printing operations. Mr. Halpin inspected the site, met with the design/build team, reviewed his ideas for energy saving design features, calculated savings, received estimates from the builder for the upgrades, and then reviewed the plans prior to construction. Energy conservation measures (ECMs) included higher SEER heat pumps, compressed air system improvements, and lighting controls.
- For the **Dundee, Scotland** facility: In late 2002, Mr. Halpin was asked to review the architects' schematic plans and design briefs for NCR's new state-of-the-art customer call-in center, "EuroCentral". Mr. Halpin reviewed the design briefs, and schematics, and made recommendations for cost-effective measures such as incorporating demand controlled ventilation, use of VFDs, and occupancy sensors, that would modestly improve the energy efficiency of the facility without delaying the project, or causing cost overruns.

**Results:** Total accumulated savings +\$1 million dollars over the lifetime of the facilities

**Customer Contact:** Robert Martinello  
Director of Facilities Management Services  
3900 South Patterson Highway  
Dayton, OH  
(937) 445-2105

