

Duane Arnold Energy Center



Site Vice President

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Corporate Media Line

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Safety Information

Built in a low-risk seismic zone: Duane Arnold is not located on an ocean and is in a very seismically stable area.

Constructed to withstand earthquakes: Despite the low risk from seismic events, the plant is designed to withstand earthquakes and other natural events stronger than ever recorded in the region.

Protected from flooding: The plant is elevated 20 feet above river level to protect against flooding.

- » During 2008's historic 500-year flood, the Cedar River crested 14 feet below the plant's design flood level
- » During this event, DAEC was able to continue safe and reliable operations

Seven-day power supply: Safety and cooling systems can be powered for seven days without requiring any offsite power or additional fuel.

Designed with multiple safety systems:

The Nuclear Regulatory Commission has mandated several structural improvements over time, enhancing Duane Arnold's ability to deal with significant events:

- » Four offsite power lines power the site's cooling system
- » Two diesel generators onsite can run for seven days without additional fuel
- » Multiple steam-driven cooling pumps are available to power cooling systems (do not require external power)
- » Back-up batteries for all critical cooling and control room systems are stored onsite
- » External cooling options (i.e. injection and fire pumps) are pre-staged onsite; can use river water for cooling

Highly trained plant operators: For one full week out of every six weeks, plant operators must prove their ability to safely operate the plant in a variety of worst-case scenarios that include earthquakes, severe storms, flooding, loss-of-power, and loss of reactor core cooling.

General Information

The Duane Arnold Energy Center (DAEC) is located in Palo, Iowa, approximately 9 miles northwest of Cedar Rapids. It is bordered by cornfields of neighboring farms and the banks of the Cedar River.

» Workforce

600 during normal operations; nearly 1,500 during outage operations.

» Salaries

Approximately \$85 million annually.

» Property taxes paid

Approximately \$3 million annually.

» Construction Permit granted

June 1970

» Full power operating license

February 1974

» Commercial operation

February 1975

System Information

| PRIMARY SYSTEM | |
|-------------------|--|
| Reactor Type | One General Electric Boiling Water Reactor with a net electrical output of 615 MWe |
| Reactor Core | 368 fuel assemblies |
| Reactor Vessel | 67' high; 15' wide |
| Reactor Design | General Electric Mark 1 |
| SECONDARY SYSTEM | |
| Turbine/Generator | General Electric |
| Cooling Towers | Mechanical draft type — 2 towers, 12 cells each, makeup water from Cedar River |

For More Information:

www.nei.org

www.nrc.gov

www.radiationanswers.org

www.epa.gov

www.NextEraEnergyResources.com