NEXTera® ENERGY
DUANE ARNOLD

Fact Sheet

Duane Arnold Energy Center

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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.

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

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

For More Information:

www.nei.org
www.nrc.gov
www.radiationanswers.org
www.epa.gov
www.NextEraEnergyResources.com