

Duane Arnold

Palo IA

Date	Reactor	Event Description
19680304		<i>Plans for the reactor were announced</i>
19681104		<i>The construction permit application was submitted</i>
19700622		<i>The construction permit was issued</i>
19740222		<i>The NRC issued an operating license</i>
19740227		<i>Workers began loading fuel into the reactor core.</i>
19740315		<i>Workers finished loading fuel into the reactor core.</i>
19740323		<i>Initial criticality of the reactor core achieved</i>
19740519		<i>Reactor output connected to the electrical grid for the first time</i>
19740731		<i>The operators shut down the reactor to repair leaking relief valves. The repairs took 10 days.</i>
19740810		<i>The AEC was notified that an estimated 1,650 gallons of radioactively contaminated water was discharged to the Cedar River when a valve failed to fully close during backflushing of the condensate demineralizers.</i>
19740831		<i>The operators shut down the reactor again to repair leaking relief valves. The repairs took 12 days.</i>
19750101		<i>The operators manually shut down the reactor for maintenance of circulating water pump.</i>
19750110		<i>The operators manually shut down the reactor for maintenance of circulating water pump.</i>
19750130		<i>The reactor automatically scrammed on high reactor pressure after a bypass valve malfunctioned during the weekly turbine control valve testing.</i>
19750201		<i>Unit placed into commercial operation</i>
19750208		<i>The operators manually scrammed the reactor for NRC-mandated inspections of core spray system piping. During the outage, a circulating water pump was replaced.</i>
19750301		<i>The operators manually shut down the reactor for maintenance to install a repaired circulating water pump.</i>
19750323		<i>The operators manually shut down the reactor for maintenance to repair recirculation discharge valve leaks.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19750325		<i>The gaseous radioactivity release exceeded the technical specification limit by nearly a factor of three when high pressure inside the offgas system blew out water seals in a six inch line from the air ejectors, providing a pathway for radioactivity to bypass the charcoal beds and HEPA filters.</i>
19750417		<i>Workers identified unexpectedly high wear on the fuel channels for fuel bundles.</i>
19750419		<i>The operators manually shut down the reactor for maintenance on the high pressure coolant injection (HPCI) system swing check and stop check valves.</i>
19750425		<i>The operators manually shut down the reactor for maintenance to repair a blown rupture disc in the steam jet air ejectors.</i>
19750502		<i>The operators manually scrammed the reactor for maintenance to repack motor-operated valves in the drywell.</i>
19750505		<i>The operators manually scrammed the reactor for maintenance to repair condenser tube leaks.</i>
19750531		<i>A fuel bundle was inadvertently released from the grapple and impacted another fuel bundle in the reactor core. The grapple had not been properly engaged.</i>
19750606		<i>The operators shut down the reactor for an inspection of the fuel channel boxes. All 134 fuel channel boxes were inspected and 63 channels were replaced due to excessive wear.</i>
19750606		<i>The operators manually shut down the reactor for voluntary inspections of in-core monitors and fuel channels. 119 fuel channels were replaced. One fuel bundle was dropped.</i>
19750719		<i>The reactor restarted following an amendment to the operating license that limited reactor power level to approximately 85 percent of rated. To minimize wear on the fuel channel boxes, an interim fix of plugging all 49 bypass holes in the lower core plate was implemented.</i>
19750719		<i>The unit was connected to the electrical grid to end a scheduled outage that began on June 6, 1975.</i>
19750802		<i>The reactor automatically scrammed on low water level in the reactor vessel after a condensate pump mechanical failure caused a feedwater pump to trip.</i>
19750814		<i>The reactor automatically scrammed when an electrical arc in a 480 volt emergency service water (ESW) pump breaker caused an instrumentation voltage transient.</i>
19750903		<i>The operators manually shut down the reactor for maintenance on feedwater check valve and main steam isolation valve (MSIV) packing leaks.</i>
19750929		<i>The reactor automatically scrammed due to turbine electro-hydraulic control (EHC) system malfunction during turbine control valve testing.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19751104		<i>The operators manually shut down the reactor for maintenance on a feedwater pump seal line.</i>
19751211		<i>The operators manually shut down the reactor for maintenance to repair a main steam isolation valve (MSIV) packing leak.</i>
19760214		<i>The operators manually shut down the reactor for refueling.</i>
19760416		<i>The reactor automatically scrammed due to low condenser vacuum caused by an improper valve lineup.</i>
19760418		<i>The operators manually shut down the reactor to repair condenser tube leaks.</i>
19760419		<i>The operators manually shut down the reactor for a control rod sequence exchange.</i>
19760519		<i>The operators manually shut down the reactor for a local leak rate test of the feedwater check valve.</i>
19760528		<i>The reactor automatically scrammed on average power range monitor (APRM) high flux due to recirculation pump flow control problems that caused pump speed to go to full speed when a scoop tube lockout was reset.</i>
19760531		<i>A fuel assembly slipped from the fuel grapple and dropped onto the reactor core. Two fuel assemblies and two fuel channels were damaged and replaced.</i>
19760626		<i>The operators manually shut down the reactor due to high turbine vibration.</i>
19760812		<i>The reactor automatically scrammed due to a turbine electro-hydraulic control (EHC) system card failure.</i>
19760814		<i>The reactor automatically scrammed during startup when an operator error caused low water level in the reactor vessel.</i>
19760828		<i>The reactor automatically scrammed on an intermediate range monitor (IRM) spike during a power reduction.</i>
19760909		<i>The operators manually shut down the reactor to repair leaks from the high pressure coolant injection (HPCI) and reactor core isolation cooling (RCIC) inboard isolation valves.</i>
19760910		<i>The reactor automatically scrammed when nitrogen pressure to the main steam isolation valves was lost.</i>
19760923		<i>The operators manually shut down the reactor due to excessive leakage from a high pressure extraction steam flange.</i>
19761023		<i>The operators manually shut down the reactor because main steam isolation valve (MSIV) leakage control system valves were not functioning properly.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19761120		<i>The operators manually shut down the reactor to adjust the main steam isolation valve (MSIV) leakage control system valve limit switches. Improper adjustment had caused incorrect position indications.</i>
19761123		<i>The reactor was shut down because of a leaking reactor water level instrument manifold rack shut-off valve.</i>
19770312		<i>The operators manually shut down the reactor for refueling.</i>
19770328		<i>During bench testing of the main steam line relief valves, six valves failed. Four of the valves failed to open altogether while two valves opened at pressure higher than their design setpoints.</i>
19770408		<i>The company informed the NRC that 13 mechanical snubbers were found to be inoperable because they were frozen. The cause was attributed to oxidation on internal parts.</i>
19770507		<i>During a refueling outage, a fire occurred when an electrical breaker relay failed.</i>
19770522		<i>The operators manually shut down the reactor to repair an Alterex bearing vibration problem.</i>
19770527		<i>The operators manually shut down the reactor to repair a leaking feedwater check valve.</i>
19770803		<i>The reactor automatically scrammed when an instrument and control (I&C) technician disturbed reactor pressure instruments during surveillance testing.</i>
19770902		<i>The operators manually scrammed the reactor to inspect inaccessible hydraulic shock suppressors.</i>
19770911		<i>The reactor automatically scrammed due to failure of the recirculation pump A motor-generator set scoop tube positioner.</i>
19770922		<i>The reactor automatically scrammed due to a generator lockout during phase fault relay installation.</i>
19771014		<i>The reactor automatically scrammed due to high vibration in the generator Alterex bearings.</i>
19771101		<i>The reactor automatically scrammed when an instrument and control (I&C) technician caused a false high water level in the reactor vessel that tripped the turbine.</i>
19771118		<i>The operators manually scrammed the reactor to inspect inaccessible hydraulic shock suppressors.</i>
19771121		<i>The reactor automatically scrammed due to nitrogen supply problems for the main steam isolation valves (MSIVs).</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19771121		<i>The reactor automatically scrammed during startup when the A feedwater regulator valve malfunctioned, causing low water level inside the reactor vessel.</i>
19780109		<i>The operators manually scrammed the reactor after misaligned air compressor controls caused a loss of plant air pressure.</i>
19780110		<i>The reactor automatically scrammed during startup due to a feedwater regulating valve malfunction.</i>
19780112		<i>The reactor automatically scrammed due to malfunction of a turbine control valve.</i>
19780318		<i>The operators manually shut down the reactor for refueling.</i>
19780427		<i>The reactor began operating cycle</i>
19780504		<i>The operators manually shut down the reactor due to an Alterex bearing vibration problem.</i>
19780524		<i>The operators manually shut down the reactor because the drywell equipment drain sump pump discharge valve would not open.</i>
19780617		<i>Workers found an 8-inch long crack extending 3/4 of the way around a 10-inch diameter recirculation system pipe to jet pumps.</i>
19780617		<i>The reactor was shut down due to a through wall crack in a recirculation system inlet nozzle safe end.</i>
19790310		<i>The reactor restarted from a lengthy outage for recirculation piping replacements. The outage was extended when pieces from a lead shielding plug installed in one of the recirculation pipes could not be recovered.</i>
19790321		<i>With the reactor operating at 70 percent power, workers found the strainers in both emergency service water systems plugged. The strainers were cleaned within 2 1/2 hours.</i>
19790331		<i>The operators manually shut down the reactor to repair the reactor water cleanup (RWCU) system isolation valve and replace a section of RWCU system piping.</i>
19790505		<i>The operators manually shut down the reactor to repair the high pressure coolant injection (HPCI) system check valve.</i>
19790521		<i>The reactor automatically scrammed during recirculation system flow instrumentation testing.</i>
19790718		<i>The reactor automatically scrammed when the turbine tripped due to high temperature in the exhaust hood.</i>
19790917		<i>The operators reduced the reactor power level to conserve fuel consumption for winter peak loads. The voluntary derate lasted until late October.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19791024		<i>The operators manually shut down the reactor to repair the seal water line on feedwater pump B.</i>
19791031		<i>The reactor automatically scrammed on indication of low turbine electro-hydraulic control (EHC) system pressure.</i>
19791108		<i>The reactor automatically scrammed on main steam line high radiation caused by an N-16 spike due to air in the feedwater from an improperly vented condensate demineralizer unit placed in service.</i>
19791110		<i>The reactor automatically scrammed due to a turbine trip caused when the mechanical trip valve linkage came loose.</i>
19791126		<i>The NRC reported that workers found the differential pressure instrument for the core spray leak detection system reading downscale. The instrument was scaled from 0 to 24 psid and its parameter was used to indicate a core spray pipe break in the annulus region of the reactor vessel. The high pressure side of the dP instrument was connected to the vessel level reference leg. The low pressure side was connected to the core spray piping outside of the reactor vessel but inside the drywell. The dP instrument was intended to measure the pressure difference between the top and bottom of the reactor core. Workers had calibrated the dP instrument in the cold condition with an alarm setpoint at 5 psid increasing. When the reactor reached rated pressure and temperature conditions, the density differences drove the dP indication hard downscale. The problem was corrected by reversing the high and low pressure connections.</i>
19800111		<i>A safety relief valve stuck open.</i>
19800210		<i>The operators shut down the reactor to enter refueling outage</i>
19800304		<i>At approximately 10:00 pm, local law enforcement officers arrested an on-duty contract watchperson on charges of possession of a controlled substance with intent to deliver. Her arrest followed a police raid earlier in the day at her residence that resulted in three arrests and the seizure of a quantity of marijuana.</i>
19800312		<i>The NRC was notified that approximately 540 gallons of radioactively contaminated water was inadvertently transferred from the main condenser hotwell to the circulated water pit through two leaking condenser tubes. The water from the circulating water pit was discharged to the river.</i>
19800418		<i>The unit was connected to the electrical grid to begin operating cycle</i>
19800423		<i>The operators manually scrammed the reactor for a test of the recirculation pump trip logic. The outage lasted 28 hours.</i>
19800426		<i>The reactor automatically scrammed as part of testing the recirculation pump trip logic. The outage lasted 15.6 hours.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19800430		<i>The operators shut down the reactor for a 151 hour outage for repairs to a recirculation pump motor.</i>
19800517		<i>The operators shut down the reactor to put recirculation loop A back in service. The outage lasted 21.3 hours.</i>
19800529		<i>The operators shut down the reactor due to low oil level for the motor of Recirculation Pump B. The outage lasted 16.4 hours.</i>
19800630		<i>The operators shut down the reactor for a 135 hour outage for control rod drive system checks.</i>
19800921		<i>The reactor automatically scrammed when low nitrogen pressure cause main steam isolation valves to drift to less than 90 percent open. Improper resetting of a containment isolation signal left the nitrogen supply to the valves isolated. The outage lasted 8.8 hours.</i>
19801031		<i>The operators shut down the reactor to replace the seals on recirculation pump A.</i>
19801106		<i>The operators shut down the reactor so the seal on Recirculation Pump A could be replaced. The restart was delayed when Main Steam Relief valve FSV-4405 was opened and failed to reclose. The outage lasted 220.8 hours.</i>
19801127		<i>The reactor automatically scrammed due to an improperly set Average Power Range Monitor setpoint. The outage lasted 8.2 hours.</i>
19801219		<i>The reactor automatically scrammed when the main turbine tripped on loss of condenser vacuum. The outage lasted 20.2 hours.</i>
19810212		<i>The operators manually shut down the reactor after recirculation pump B was shut down due to an oil level alarm on the motor.</i>
19810213		<i>The unit was connected to the electrical grid to end a 16.4 hour forced outage.</i>
19810315		<i>The reactor automatically scrammed on high average power range monitor flux during turbine control valve testing.</i>
19810316		<i>The unit was connected to the electrical grid to end a 22.5 hour forced outage.</i>
19810321		<i>The operators manually shut down the reactor to enter refueling outage</i>
19810531		<i>The operators took the generator offline due to main steam relief valve pilot assembly leakage. During the power reduction, the reactor scrammed on high intermediate range monitor level.</i>
19810531		<i>The unit was connected to the electrical grid to begin operating cycle</i>
19810602		<i>The unit was connected to the electrical grid to end a 48.3 hour forced outage.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19810603		<i>The operators took the generator offline due to drywell-to-torus vacuum breaker problems. During the power reduction, the reactor scrammed on high intermediate range monitor level.</i>
19810606		<i>The unit was connected to the electrical grid to end a 75.4 hour forced outage.</i>
19810609		<i>The reactor automatically scrammed when reactor protection system motor-generator set B tripped.</i>
19810609		<i>The unit was connected to the electrical grid to end a 17.4 hour forced outage.</i>
19810615		<i>The operators were reducing the reactor power to allow a drywell inspection. During the power reduction, the reactor scrammed on high intermediate range monitor level.</i>
19810618		<i>The unit was connected to the electrical grid to end a 77.5 hour forced outage.</i>
19810703		<i>The reactor automatically scrammed on high average power range monitor flux during turbine control valve testing.</i>
19810704		<i>The unit was connected to the electrical grid to end a 23.8 hour forced outage.</i>
19810715		<i>The reactor automatically scrammed when the turbine tripped during overspeed testing.</i>
19810716		<i>The unit was connected to the electrical grid to end a 22.2 hour forced outage.</i>
19810817		<i>Workers found a pinhole leak in the body of the reactor core isolation cooling full flow test valve MOV-2515. The original 600-pound Class 2 valve was replaced with a 1500-pound Class 1 valve.</i>
19811004		<i>The operators manually shut down the reactor to inspect a recirculation system piping weld per an NRC requirements. The outage was extended for repairs to the reactor water cleanup system and the feedwater check valve.</i>
19811029		<i>The unit was connected to the electrical grid to end a 607.3 hour scheduled outage.</i>
19811205		<i>The reactor automatically scrammed on high average power range monitor flux during turbine control valve testing.</i>
19811205		<i>The unit was connected to the electrical grid to end a 9.9 hour forced outage.</i>
19811219		<i>The operators manually shut down the reactor for repairs to the feedwater pump B seal water return line.</i>
19811220		<i>The unit was connected to the electrical grid to end a 22.3 hour forced outage.</i>
19820401		<i>The operators manually shut down the reactor for a planned maintenance outage.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19820416		<i>The unit was connected to the electrical grid to end a 368.6 hour scheduled outage.</i>
19820423		<i>The reactor automatically scrammed due to a loose connection on the auxiliary transformer.</i>
19820423		<i>The unit was connected to the electrical grid to end a 14 hour forced outage.</i>
19820504		<i>Workers discovered the B residual heat removal service water pump discharge check valve V-46-11 leaking. Workers disassembled the valve to find an eroded set screw that allowed the hinge pin to loose and the valve to move from its proper seat position.</i>
19820509		<i>The reactor automatically scrammed due to loss of field for the generator.</i>
19820511		<i>The unit was connected to the electrical grid to end a 53.4 hour forced outage.</i>
19820516		<i>The reactor automatically scrammed following failure of the emergency bearing oil pump for the turbine.</i>
19820522		<i>The unit was connected to the electrical grid to end a 152.9 hour forced outage.</i>
19820602		<i>The operators manually shut down the reactor. The operators had failed to follow the procedure for opening the main steam isolation valves and the ensuing pressure transient cracked two hydraulic speed control cylinders.</i>
19820726		<i>The unit was connected to the electrical grid to end a 1281.5 hour forced outage.</i>
19820807		<i>The operators manually shut down the reactor for inspections inside the drywell and condenser bay.</i>
19820808		<i>The unit was connected to the electrical grid to end a 19.3 hour forced outage.</i>
19820826		<i>The reactor automatically scrammed after the turbine tripped on high water level inside the reactor vessel.</i>
19820828		<i>The unit was connected to the electrical grid to end a 57 hour forced outage.</i>
19821105		<i>The operators manually shut down the reactor to repair core spray valve.</i>
19821116		<i>The unit was connected to the electrical grid to end a 267.5 hour forced outage.</i>
19830212		<i>The operators shut down the reactor to enter refueling outage</i>
19830214		<i>Approximately 30 gallons of radioactively contaminated water spilled onto the ground and into a storm sewer than a barrel tipped over.</i>
19830506		<i>The unit was connected to the electrical grid to begin operating cycle</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19830523		<i>The high pressure coolant injection system and Train B of the residual heat removal service water system were concurrently inoperable.</i>
19830603		<i>The reactor scrammed on low water level in the reactor vessel after feedwater pump B tripped on low suction pressure. The outage was extended by turbine vibration caused by the No. 2 bearing being wiped and the journal scored.</i>
19830629		<i>The unit was connected to the electrical grid to end a 630.2 hour forced outage.</i>
19831002		<i>The operators shut down the reactor to replace HFA electrical relays.</i>
19831021		<i>The unit was connected to the electrical grid to end a 444.1 hour outage.</i>
19840107		<i>The reactor scrammed when a broken air supply line caused a feedwater recirculation valve to fail to open and an unrelated problem caused a safety relief valve to open.</i>
19840110		<i>The unit was connected to the electrical grid to end a 82.5 hour forced outage.</i>
19840123		<i>The reactor scrammed when the power supply for local power range monitors failed.</i>
19840128		<i>The unit was connected to the electrical grid to end a 108.6 hour forced outage.</i>
19840229		<i>The NRC proposed a \$20,000 civil penalty for security violatiosn involving uncontrolled access to a vital area on December 20-21, 1983.</i>
19840413		<i>The operators shut down the reactor to repair packing leaks on a bypass valve and vent valve on a recirculation pump.</i>
19840430		<i>The unit was connected to the electrical grid to end a 411.7 hour outage.</i>
19840517		<i>The operators shut down the reactor to repair the inboard main steam isolation valve for main steam line C. Workers found the valve's disc separated from its piston and rotated 90 degrees from its normal position.</i>
19840607		<i>The reactor automatically scrammed on low water level in the reactor vessel due to an operator error causing a loss of feedwater. A second operator error opened a safety relief valve.</i>
19840615		<i>The unit was connected to the electrical grid to end a 698.2 hour outage.</i>
19840617		<i>Emergency diesel generator B tripped on high crankcase pressure caused by failure of a scavenging air blower. The replacement air blower also failed to operate.</i>
19840625		<i>The operators shut down the reactor for repairs to emergency diesel generator B.</i>
19840701		<i>The unit was connected to the electrical grid to end a 134.2 hour outage.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19840712		<i>The reactor automatically scrammed at 9:02 am from 99 percent power. Workers erecting scaffolding in the reactor building drop a 6-foot section of pipe that fell against an instrument rack support member. The reactor high pressure switches were jarred, causing them to pick up and trip the reactor on a false signal of high pressure.</i>
19840714		<i>Degraded voltage on the electrical grid caused a loss of offsite power lasting about 1 minute</i>
19840714		<i>The unit restarted from a 2 day outage.</i>
19840928		<i>The operators shut down the reactor to enter a scheduled maintenance outage. The outage was extended for repairs to the main condenser.</i>
19840929		<i>The reactor automatically scrammed from 0.2 percent power on high flux on intermediate range monitors E and F. The post-trip review concluded tha the signals were not legitimate and may have been caused by spurious electrical noise.</i>
19841025		<i>The unit was connected to the electrical grid to end a 629 hour outage.</i>
19841029		<i>The NRC proposed a \$25,000 civil penalty for an event in July 1984 in which the standby liquid control system was disabled.</i>
19841104		<i>A fire occurred in a transformer in the switchyard. The fire propagated to the turbine building. The reactor was shut down.</i>
19841111		<i>The unit was connected to the electrical grid to end a 177 hour forced outage.</i>
19841123		<i>The reactor automatically scrammed when the fire protection deluge system for the main transformer spuriously actuated. The water spray caused arcing between the phase 2 bushing and the top of the transformer tank.</i>
19841126		<i>The unit was connected to the electrical grid to end a 82.9 hour forced outage.</i>
19850202		<i>The operators shut down the reactor to enter refueling outage</i>
19850327		<i>The NRC approved a 4.1 percent increase in the maximum licensed power level.</i>
19850720		<i>The unit was connected to the electrical grid to begin operating cycle</i>
19851015		<i>The operators reduced the reactor power level to 68 percent to conserve fuel.</i>
19860315		<i>The power reduction for fuel conservation, begun in October 1985, ended.</i>
19860315		<i>The operators shut down the reactor for a scheduled maintenance outage.</i>
19860406		<i>The unit was connected to the electrical grid to end a 541.4 hour outage.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19860528		<i>The reactor was shut down after a motor generator tripped due to pitted, dirty exciter slip rings.</i>
19860530		<i>The unit was connected to the electrical grid to end a 45.7 hour forced outage.</i>
19860608		<i>The operators shut down the reactor for the installation of a new auxiliary</i>
19860613		<i>The operators manually scrammed the reactor during startup due to feedwater level control problems.</i>
19860613		<i>The operators achieved reactor criticality during startup from a scheduled maintenance outage.</i>
19860617		<i>The unit was connected to the electrical grid to end back-to-back outages.</i>
19860806		<i>The operators reduced the reactor power level to 7 percent so workers could enter the main steam tunnel and rewire motor operated valves for environmental qualification reasons.</i>
19860814		<i>The operators returned the reactor power level to 100 percent.</i>
19860923		<i>The operators manually shut down the reactor due to high bearing temperatures on one of the recirculation pumps.</i>
19861005		<i>The unit was connected to the electrical grid to end a 315.9 hour outage.</i>
19861006		<i>The operators shut down the reactor due to steam leaks from the head spray connection flanges on the reactor vessel head.</i>
19861009		<i>The unit was connected to the electrical grid to end a 89 hour outage.</i>
19861015		<i>The operators declared an Unusual Event at 11:00 am because both trains of the Control Room Ventilation System were declared inoperable. Workers were checking the ventilation system's charcoal bed temperature sensor would actuate the deluge system control valve. The deluge system had been isolated during the test. After the test was completed, the procedure failed to ensure the control valve was reset and the deluge system flood the charcoal beds. The inoperability of both trains of the Control Room Ventilation System placed the reactor in a 24-hour limiting condition for operation and the operators shut down the reactor.</i>
19861016		<i>The operators manually shut down the reactor because the Control Room Ventilation System was declared inoperable.</i>
19861019		<i>The unit was connected to the electrical grid to end a 84.8 hour outage.</i>
19861209		<i>The operators shut down the reactor due to questions about the environmental qualification of nylon insulated control cable splices (Thomas and Betts) in drywell junction boxes.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19861222		<i>The unit was connected to the electrical grid to end a 315.9 hour outage.</i>
19870312		<i>The operators shut down the reactor to enter refueling outage</i>
19870527		<i>The electric power system was unavailable.</i>
19870605		<i>Workers discovered that many electrical relays had not been tested as required by technical specifications. Fifty-one special logic tests were performed, which extended the outage three weeks.</i>
19870630		<i>The unit was connected to the electrical grid to begin operating cycle</i>
19870705		<i>The operators shut down the reactor for repairs to outboard main steam isolation valve A. The MSIV would not fully open.</i>
19870713		<i>The unit was connected to the electrical grid to end a 198 hour outage.</i>
19871017		<i>The operators shut down the reactor to repair leaks in the turbine electro-hydraulic control system.</i>
19871103		<i>The unit was connected to the electrical grid to end a 408.8 hour outage.</i>
19880330		<i>FEMA informed NRC that it "can no longer determine that there is reasonable assurance that the offsite radiological emergency plan (at Duane Arnold) is adequate to protect the health and safety of the public in the event of an accident at the site."</i>
19880724		<i>The reactor shut down when the turbine tripped on high vibration. The vibration signal was caused by a failed vibration sensor.</i>
19880727		<i>The unit was connected to the electrical grid to end a 68 hour outage.</i>
19880929		<i>The operators shut down the reactor to enter refueling outage</i>
19881011		<i>Two potential tampering events were discovered. A power supply wire to the breaker charging motor for the control rod drive pump was found pulled out of its crimped lug connector. And a microswitch was found mispositioned.</i>
19881013		<i>The company informed the NRC about three potential acts of tampering with safety-related equipment. Workers found that two power supply wires to the charging motor for the essential service bus feeder breaker to an emergency diesel generator had been pulled out of their crimped lug connections. Further investigation found a wire pulled from a neighboring feeder breaker for a control rod drive pump and a mercury switch for the charging motor for a startup transformer feeder breaker mispositioned. The company contacted the Federal Bureau of Investigation.</i>
19881013		<i>Workers found apparent tampering of the power supply wire to the essential service bus feed breaker for an emergency diesel generator (EDG).</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19881015		<i>The company informed the NRC about another act of tampering. The wires that had been pulled from the feeder breaker for the emergency diesel generator that had been repaired on October 13, 1988, were found to be cut. The FBI arrived onsite for investigation.</i>
19881015		<i>Workers found the wires to the control rod drive pump feeder breaker damaged. The same wires involved in the October 11, 1988, event were cut this time. Twelve potential suspects were denied further access to the switchgear room. The FBI investigated four apparent tampering events but developed no prime suspects.</i>
19881121		<i>During a refueling outage, workers identified a pinhole leak in a control rod drive system insert line inside the drywell. Workers identified two additional leaking lines and 30 lines with crack indications among the 178 control rod drive insert and withdrawal lines.</i>
19881231		<i>The unit was connected to the electrical grid to begin operating cycle</i>
19890118		<i>The operators shut down the reactor due to a leak on a turbine electro-hydraulic control system supply line.</i>
19890125		<i>The unit was connected to the electrical grid to end a 176.4 hour outage.</i>
19890304		<i>A reactor scram with containment isolation was complicated by the reactor core isolation cooling system out of service.</i>
19890305		<i>The reactor automatically scrammed at 7:22 am as workers were adjusting the main steam line radiation monitors before performing hydrogen injection testing. A main steam isolation valve in the B steam line closed, causing high flow in the remaining three lines that produced the reactor trip signal.</i>
19890316		<i>The unit was connected to the electrical grid to end a 264 hour outage.</i>
19890612		<i>The reactor automatically scrammed on an average power range monitor trip caused by radio interference.</i>
19890615		<i>The unit was connected to the electrical grid to end a 86.4 hour outage.</i>
19890826		<i>The reactor scrammed during testing of the power/load unbalance circuit.</i>
19890828		<i>The unit was connected to the electrical grid to end a 53.6 hour outage.</i>
19890915		<i>The operators shut down the reactor for a scheduled maintenance outage.</i>
19891024		<i>The unit was connected to the electrical grid to end a 928 hour outage.</i>
19891108		<i>The operators shut down the reactor to repair a check valve in the high pressure coolant injection system that had a bonnet gasket leak.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19891112		<i>The unit was connected to the electrical grid to end a 435 hour outage.</i>
19891116		<i>The operators shut down the reactor for repairs to a relief valve in the automatic depressurization system.</i>
19891126		<i>The operators shut down the reactor to repair a malfunctioning main steam line relief valve.</i>
19891126		<i>The operators achieved reactor criticality during reactor startup.</i>
19900329		<i>The operators manually scrammed the reactor due to loss of instrument air in the turbine building. Workers had incorrectly closed an air system manual valve in preparation for maintenance.</i>
19900331		<i>The unit was connected to the electrical grid to end a 67.9 hour forced outage.</i>
19900401		<i>The reactor automatically scrammed during startup when a failed local power range monitor caused a false neutron flux spike on average power range monitors C and D.</i>
19900402		<i>The unit was connected to the electrical grid to end a 21.2 hour forced outage.</i>
19900617		<i>The operators reduced the reactor power level to 60 percent after water leaked in through the hatch in the intake structure roof during heavy rain and caused circulating water pump B to trip.</i>
19900628		<i>The operators shut down the reactor to enter refueling outage 10.</i>
19900907		<i>The unit was connected to the electrical grid at 2:30 pm to begin operating cycle 11.</i>
19900909		<i>The operators shut down the reactor due to failure of the permanent magnet generator.</i>
19900910		<i>The reactor automatically scrammed on high pressure in the reactor vessel after the turbine tripped on high water level in the moisture separator reheater when workers mispositioned a valve associated with the level instrument for the moisture separator reheater.</i>
19900910		<i>The unit was connected to the electrical grid to end a 19.8 hour forced outage.</i>
19900912		<i>The unit was connected to the electrical grid to end a 55.3 hour forced outage.</i>
19900913		<i>The operators manually scrammed the reactor due to problems controlled the water level in the reactor vessel. Workers found a failed soldered joint in an instrument air dryer inlet pipe.</i>
19900914		<i>The unit was connected to the electrical grid to end a 18.8 hour forced outage.</i>
19900918		<i>The reactor automatically scrammed when three inboard main steam isolation valves closed unexpectedly during surveillance testing.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19900923		<i>The unit was connected to the electrical grid to end a 116.1 hour forced outage.</i>
19901001		<i>The unit entered single loop operation with recirculation pump B tripped due to a short in its motor-generator set drive motor.</i>
19901019		<i>Electricians troubleshooting a fault on recirculation motor generator drive motor B pulled what they thought was its potential transformer. Instead, it was a transformer providing power to the condensate demineralizer control circuit. Three of the four inservice demineralizer units isolated following the de-energization of their control circuits. The reactor automatically scrammed on resulting low level in the reactor vessel.</i>
19901021		<i>The unit was connected to the electrical grid to end a 56 hour forced outage.</i>
19901209		<i>The operators shut down the reactor for a planned outage to repair generator to exciter coupling vibration.</i>
19901215		<i>The unit was connected to the electrical grid to end a 146.2 hour scheduled outage.</i>
19910106		<i>The operators manually scrammed the reactor due to a steam leak in the heater bay. Workers found that a two-inch diameter extraction steam drain line failed just below the welded joint attaching the drain line to a 12-inch diameter extraction steam line.</i>
19910108		<i>The unit was connected to the electrical grid to end a 49.1 hour forced outage.</i>
19910115		<i>The operators shut down the reactor for a planned outage for maintenance on various extraction steam drain lines.</i>
19910122		<i>The unit was connected to the electrical grid to end a 175.4 hour scheduled outage.</i>
19910209		<i>The reactor automatically scrammed due to sensed low control oil pressure at the turbine control valves. Workers determined the cause to be induced electrical noise in the turbine electro-hydraulic control system.</i>
19910213		<i>The unit was connected to the electrical grid to end a 102.7 hour forced outage.</i>
19910622		<i>The reactor was shut down due to fitting leaks on the header supplying nitrogen to the outboard isolation valve on main steam line B. The loss of nitrogen pressure allowed the valve to close. The outage was extended by planned repairs to leaks on the nitrogen line to the isolation valves in main steam line C.</i>
19910630		<i>The unit was connected to the electrical grid to end a 54.7 hour forced outage followed by a 139.5 hour scheduled outage.</i>
19911231		<i>The reactor operated at an average capacity factor of 89.0 percent, its highest performance to date.</i>
19920227		<i>The reactor was shut down to enter refueling outage 11.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19920322		<i>During a special test of the CO2 fire suppression system in the cable spreading room, CO2 leaked into the control room. Control room operators had to put on self-contained breathing apparatus.</i>
19920425		<i>The unit was connected to the electrical grid to begin operating cycle 12.</i>
19920817		<i>The reactor automatically scrammed when electro-magnetic signal noise reduced the setpoints for the average power range monitors below the current power level.</i>
19920823		<i>The unit was connected to the electrical grid to end a 89 hour forced outage followed by a 58.7 hour scheduled outage.</i>
19921113		<i>The reactor automatically scrammed on low condenser vacuum. A shaft failed on a circulating water pump. The shaft failure allowed flow from the remaining circulating water pump to short cycle back to the pump pit and reduce flow to the condenser.</i>
19921117		<i>The unit was connected to the electrical grid to end a 89.7 hour forced outage.</i>
19930124		<i>The operators shut down the reactor for a planned outage to reconnect a circulating water pump.</i>
19930129		<i>The restart of the reactor was delayed 8 hours by very high winds that created the potential for damage to the cooling tower fill from ice buildup.</i>
19930130		<i>The unit was connected to the electrical grid to end a 182.4 hour scheduled outage.</i>
19930729		<i>The operators manually scrammed the reactor to enter refueling outage 12.</i>
19931010		<i>The unit was connected to the electrical grid to begin operating cycle 13.</i>
19931026		<i>The reactor automatically scrammed due to an electrical ground in the control circuit for the turbine steam control valve.</i>
19931028		<i>The unit was connected to the electrical grid to end a 50.2 hour forced outage.</i>
19940529		<i>The reactor was shut down when a fatigue induced weld crack on the electro-hydraulic control oil supply line to turbine control valve #2 was found. A leak of 0.5 gallons per minute was found from the cracked weld.</i>
19940604		<i>The unit was connected to the electrical grid to end a 16 hour forced outage followed by a 125.3 hour scheduled outage.</i>
19940710		<i>The reactor was shut down to repair a cracked oil supply line to a turbine control valve.</i>
19940716		<i>The unit was connected to the electrical grid to end a 147.9 hour forced outage.</i>
19941116		<i>The reactor was shut down to permit workers to enter the containment drywell to identify and repair leakage.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19941201		<i>The unit was connected to the electrical grid to end a 351.6 hour scheduled outage.</i>
19950224		<i>The operators shut down the reactor to enter refueling outage 13.</i>
19950419		<i>The unit was connected to the electrical grid to begin operating cycle 14.</i>
19950514		<i>The reactor automatically tripped on low water level in the reactor vessel after feedwater pump B tripped. Workers found stripped internal gears between the coupling of the feedwater pump shaft and its lube oil pump.</i>
19950517		<i>The unit was connected to the electrical grid to end a 77.8 hour forced outage.</i>
19950601		<i>The reactor was shut down to identify and plug a leaking tube in the condenser.</i>
19950606		<i>The unit was connected to the electrical grid to end a 119.1 hour scheduled outage.</i>
19960117		<i>Recirculation pump B tripped. The reactor power level was reduced to 39 percent until the pump could be returned to service.</i>
19960120		<i>The operators returned the reactor power level to 100 percent.</i>
19960318		<i>The operators reduced the reactor power level to test control rod drive hydraulic control units and replace Viton diaphragm material as needed.</i>
19960516		<i>The reactor power level was reduced following trip of the motor generator set for Recirculation Pump B.</i>
19961011		<i>The reactor was shut down to enter refueling outage</i>
19961116		<i>The unit was connected to the electrical grid at 8:21 pm to begin operating cycle 15.</i>
19961202		<i>The operators reduced the reactor power level when Recirculation Pump A tripped due to maintenance testing on a breaker.</i>
19961203		<i>The operators returned the reactor power level to 100 percent.</i>
19961213		<i>The operators reduced the reactor power due to spiking of flow through the A Feedwater Regulating Valve.</i>
19961214		<i>The operators returned the reactor power level to 100 percent.</i>
19961225		<i>The operators reduced the reactor power level after Recirculation Pump A tripped due to a broken slip ring connector on its motor-generator set.</i>
19961229		<i>The operators returned the reactor power level to 100 percent.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19970111		<i>The operators shut down the reactor so workers could repair a body-to-bonnet let in a manual isolation valve in the residual heat removal system. Unidentified leakage inside the drywell had been 0.4 gallons per minute and increased to 0.8 gallons per minute when the decision was made to shut down and find the leak and repair it.</i>
19970117		<i>The unit was connected to the electrical grid at 5:21 am to end a 133 hour and 39 minute forced outage.</i>
19970314		<i>The operators shut down the reactor to enter a planned maintenance outage to resolve inceasing unidentified leakage inside the drywell., The leak rate eached 4.12 gallons per minute, below the Technical Specification limit of 5.0 gallons per minute. Workers identified the source of the leakage as coming from a weld on the inlet to the 3B Drywell Cooler.</i>
19970318		<i>The unit was connected to the electrical grid at 11:37 pm to end a 140.15 hour scheduled outage.</i>
19970518		<i>During the quarterly main steam isolation valve trip/closure test, the inboard MSIV in main steam line C failed to indicated full closed. The valve was declared inoperable and the outboard MSIV was closed to comply with technical specifications.</i>
19970523		<i>The operators shut down the reactor so workers could repair position indicaiton problems on a main steam isolation valve.</i>
19970526		<i>The operators achieved criticality of the reactor at 8:34 pm in an attempted startup.</i>
19970527		<i>Workers discovered a bad packing leak on a main steam drain isolation valve. The operators took the reactor subcritical at 2:55 pm to allow all the main steam isolation valves to be closed while the leak was repaired.</i>
19970529		<i>The unit was connected to the electrical grid at 6:00 am to end back to back forced outages.</i>
19970531		<i>The operators returned the reactor power level to 100 percent at 11:12 pm.</i>
19970717		<i>The operators educed the reactor power level so workers could repair a leaking manway cover on the 1st Stage Moisture Separator Reheater Drain Tank.</i>
19970823		<i>The operators shut down the reactor so workers could repair a leaking condenser tube.</i>
19970828		<i>The unit was connected to the electrical grid to end a 96 hour forced outage.</i>
19970909		<i>The operators manually scammed the reactor from 25 percent power to repair a cracked weld joint on a 2-inch diameter reducer to the leakage control system.</i>
19970914		<i>The unit was connected to the electrical grid to end a 105.7 hour forced outage.</i>
19980403		<i>The reactor was shut down to enter refueling outage 15.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
19980522		<i>The unit was connected to the electrical grid at 12:24 am to begin operating cycle 16. During the outage, workers performed 270 surveillance tests, 157 in-service inspections, 1,623 maintenance tasks, two torus suction strainer modifications, overhaul of th</i>
19980527		<i>The operators reduced the reactor power to 50 percent so workers could repair an oil leak on the motor on Feedwater Pump A.</i>
19981215		<i>The operators shut down the reactor so workers could repair a feedwater heater bypass piping leak.</i>
19981220		<i>The unit was connected to the electrical grid to end a 116 hour, 9 minute forced outage.</i>
20000105		<i>The reactor automatically scrammed due to a false indication of low water level in the reactor vessel caused when a level transmitter was returned to service following calibration.</i>
20000110		<i>The unit was connected to the electrical grid to end a 117.48 hour forced outage.</i>
20000623		<i>The reactor automatically scrammed from 100 percent power at 4:17 pm due to a turbine trip. A loose terminal connection caused high resistance and high voltage potential in a current transformer that resulted in a generator differential current trip. Following the reactor scram, four safety relief valves opened momentarily to control the pressure rise.</i>
20000625		<i>The operators achieved reactor criticality at 10:24 am.</i>
20000625		<i>The operators began reactor startup at 4:20 am.</i>
20000626		<i>The operators took the generator offline at 4:02 am and maintained the reactor critical. Instrumentation identified the location of the loose terminal connection in the current transformer and the generator was taken offline for repairs.</i>
20000626		<i>The unit was connected to the electrical grid at 1:19 am to end a 57 hour forced outage.</i>
20000628		<i>The unit was re-connected to the electrical grid at 11:08 am to end a 65.1 hour forced outage.</i>
20000630		<i>The operators returned the reactor power level to 100 percent.</i>
20000901		<i>The operators reduced the reactor power level to 96 percent for 4 hours due to high condenser backpressure caused by hot weather conditions.</i>
20000920		<i>The operators reduced the reactor power level from 100 percent to 50 percent power to remove feedwater pump B from service to repair a leaking casing bolt.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
20000921		<i>The operators reduced the reactor power level from 55 percent to 50 percent after additional casing bolt leaks were identified on feedwater pump B.</i>
20000922		<i>The operators reduced the reactor power level from 85 percent to 50 percent after additional casing bolt leaks were identified on feedwater pump B.</i>
20000924		<i>The operators returned the reactor power level to 100 percent at 2:00 am.</i>
20001231		<i>The reactor operated at an average capacity factor of 94.9 percent, its highest performance to date.</i>
20010412		<i>The operators manually shut down the reactor to enter refueling outage 17.</i>
20010527		<i>The unit was connected to the electrical grid to begin operating cycle 18.</i>
20010615		<i>The operators reduced the reactor power level to 40 percent to repair a body-tp-bonnet leak on a feedwater regulating valve.</i>
20010702		<i>The operators rapidly reduced the reactor power level to 74 percent due to low water level in the reactor vessel caused by feedwater regulating valve "A" oscillations. The operators inserted control rods into the reactor core to further drop the reactor power level to 52 percent. Feedwater pump "A" was removed from service.</i>
20010704		<i>After a degraded power supply was replaced, the operators returned feedwater pump "A" to service and returned the reactor power level to 100 percent.</i>
20010724		<i>The operators reduced the reactor power level to 85 percent due to the minimum flow valve on feedwater pump "A" drifting open. The 85 percent power level was chosen because it was believed that the minimum flow valve fully opening would not result in an automatic scram on low water level in the reactor vessel at that power level.</i>
20010727		<i>The operators reduced the reactor power level to 47 percent and removed feedwater pump "A" from service so the span ratio for the feedwater pump minimum flow valve could be adjusted.</i>
20010728		<i>The operators returned feedwater pump "A" to service and restored the reactor power level to 100 percent.</i>
20010812		<i>The operators manually scrammed the reactor at 7:46 am after the minimum flow valve on feedwater pump B failed open.</i>
20010815		<i>The unit was connected to the electrical grid at 1:32 am to end a forced outage.</i>
20011017		<i>The operators manually scrammed the reactor due to decreasing water level in the reactor vessel. An inverter failure caused de-energization of an instrument bus that tripped feedwater pump A.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
20011023		<i>The unit was connected to the electrical grid at 4:41 pm to end a forced outage. During the outage, workers replaced a degraded recirculation pump seal and two intermediate range monitors.</i>
20011106		<i>The NRC approved a 15.3 percent increase in the maximum licensed power level.</i>
20011107		<i>The NRC issued license amendment 243 increasing the maximum reactor power level to 1,912 megawatts.</i>
20020304		<i>The operators manually scrammed the reactor at 3:40 am (having taken the generator offline at 2:05 am) to enter a maintenance outage to identify and repair unidentified leakage inside the drywell.</i>
20020309		<i>The unit was connected to the electrical grid at 2:07 pm to end a short maintenance outage.</i>
20020519		<i>The operators manually shut down the reactor to repair a condenser tube leak.</i>
20020523		<i>The unit was connected to the electrical grid at 8:08 am to end a scheduled outage.</i>
20020806		<i>The operators manually scrammed the reactor at 5:09 pm because the residual heat removal service water (RHRSW) subsystems were declared inoperable due to high strainer differential pressure. Workers identified excessive algae buildup as the cause of the high strainer differential pressure.</i>
20020812		<i>The unit was connected to the electrical grid.</i>
20020830		<i>The operators manually scrammed the reactor at 8:56 am because of high unidentified drywell leakage rates. The unidentified drywell leakage rate was 1.98 gallons per minute (5 gpm Technical Specification limit) and the identified leakage rate was 1.52 gpm.</i>
20020901		<i>The operators achieved reactor criticality.</i>
20020902		<i>The operators manually scrammed the reactor from 8 percent power due to reactor core isolation cooling (RCIC) system oil leakage problems.</i>
20020909		<i>The unit was connected to the electrical grid at 4:32 am to end back-to-back outages.</i>
20021124		<i>The operators received indications that the east warehouse sprinkler system had initiated. Seconds later, operators received indications that electric fire pump 1P-48 had automatically started. The fire brigade responded and observed the sprinkler system in operation. The fire brigade leader entered the east warehouse and found the source of the fire to be a popcorn machine located in the break room.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
20030201		<i>The operators manually scrammed the reactor at 2:33 am due to high conductivity in the hotwell caused by a suspected condenser tube leak. Workers found that a deflector plate downstream of the 1E-5B low pressure feedwater heater dump valve CV-1340 broke loose and punctured a condenser tube and dented several other tubes. The deflector plate failed after approximately four months of continuous use of CV-1340 instead of the drain valve for heater level control.</i>
20030215		<i>The unit was connected to the electrical grid at 2:02 pm.</i>
20030324		<i>The operators manually scrammed the reactor at 1:39 am to enter refueling outage 18.</i>
20030419		<i>The operators manually shut down the reactor for replacement of a leaking main steam relief valve.</i>
20030420		<i>The unit was connected to the electrical grid at 8:33 pm to begin operating cycle 19.</i>
20030422		<i>The unit was connected to the electrical grid at 11:35 pm.</i>
20031103		<i>The operators manually shut down the reactor to repair a condenser tube leak.</i>
20031106		<i>The unit was connected to the electrical grid at 5:31 pm.</i>
20031107		<i>The operators manually scrammed the reactor from 46 percent power at 1:34 am due to high conductivity of the reactor water caused by resin intrusion from the condensate demineralizers.</i>
20031109		<i>The unit was connected to the electrical grid at 12:57 pm.</i>
20031118		<i>The operators manually shut down the reactor to repair excessive condenser inleakage and fix a problem with condensate demineralizer E.</i>
20031125		<i>The operators manually scrammed the reactor at 3:22 pm due to decreasing condenser vacuum caused by excessive condenser inleakage.</i>
20031125		<i>The unit was connected to the electrical grid at 11:40 am.</i>
20031127		<i>The operators achieved reactor criticality. The reactor was maintained at 5 percent power during the search for the source of the condenser inleakage. On November 29th, workers found a problem with a welded joint seam in the high pressure condenser loop seal.</i>
20031130		<i>The operators manually shut down the reactor for repairs for condenser inleakage.</i>
20031205		<i>The unit was connected to the electrical grid at 1:15 am.</i>
20050328		<i>The operators manually shut down the reactor to enter refueling outage 19.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
20050503		<i>The unit was connected to the electrical grid at 3:38 pm to begin operating cycle 20.</i>
20061106		<i>The reactor automatically scrammed from 10 percent power at 1:10 am during testing of the overspeed trip logic for the main turbine.</i>
20061110		<i>The unit was connected to the electrical grid at 0:40 am.</i>
20070203		<i>The operators manually shut down the reactor to enter refueling outage 20.</i>
20070318		<i>The unit was connected to the electrical grid at 10:23 am to begin operating cycle 21.</i>
20070320		<i>The operators manually scrammed the reactor at 4:45 pm due to reactor coolant water chemistry being out of specification.</i>
20070322		<i>The unit was connected to the electrical grid at 4:20 am to end a forced outage.</i>
20070331		<i>Reactor listed in the Regulatory Response Column</i>
20070402		<i>The reactor automatically scrammed at 11:25 am due to loss of the 4 kilovolt electrical bus 1A2.</i>
20070404		<i>The operators achieved reactor criticality at 12:19 pm.</i>
20070405		<i>The unit was connected to the electrical grid at 8:19 am to end a forced outage.</i>
20070408		<i>The operators returned the reactor power level to 100 percent following a forced outage.</i>
20070630		<i>Reactor listed in the Regulatory Response Column</i>
20070930		<i>Reactor listed in the Regulatory Response Column</i>
20081001		<i>The NRC received an application for license renewal.</i>
20081102		<i>An emergency diesel generator failed during a test due to breaker failure. The degraded condition was estimated to have existed for 180 days.</i>
20090201		<i>The operators manually scrammed the reactor during a controlled shut down to enter refueling outage 21. The schedule change was prompted by a failed riser pipe on a cooling tower.</i>
20090304		<i>The unit was connected to the electrical grid to begin operating cycle 22.</i>
20090403		<i>The reactor automatically scrammed when the turbine tripped on high water level in the reactor vessel during maintenance on a water level recorder.</i>
20090405		<i>The unit restarted from a 51.85 hour forced outage.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
20090630		<i>Reactor listed in the Regulatory Response Column</i>
20090930		<i>Reactor listed in the Regulatory Response Column</i>
20091008		<i>The reactor automatically scrammed on a false indication of low reactor vessel water level caused by maintenance crew errors when valving in an instrument.</i>
20091231		<i>Reactor listed in the Regulatory Response Column</i>
20100426		<i>During a controlled shutdown for a planned maintenance outage to repair well water leaks inside the drywell, the operators manually scrammed the reactor earlier than planned due to high vibration on turbine bearing #6.</i>
20100503		<i>The unit was connected to the electrical grid to end a scheduled maintenance outage.</i>
20101023		<i>The operators shut down the reactor to enter refueling outage 22.</i>
20101209		<i>The unit was connected to the electrical grid to begin operating cycle 23. The refueling outage was extended by main generators repairs, repairs to safety relief valve PSV4402, and a calibration of the reactor core isolation cooling system.</i>
20101216		<i>The NRC approved license renewal.</i>
20110811		<i>The operators shut down the reactor after both RWS subsystems were declared inoperable. Both traveling screens at the intake structure were unable to rotate due to sand intrusion.</i>
20110817		<i>The unit was connected to the electrical grid to end a 148.98 hour forced outage.</i>
20120731		<i>The operators reduced the reactor power level three times during July due to condenser backpressure caused by high ambient temperatures.</i>
20121006		<i>The reactor was shut down to enter refueling outage 23.</i>
20121127		<i>The unit was connected to the electrical grid to begin operating cycle 24. The outage had been extended due to a secondary containment damper problem.</i>
20121201		<i>The reactor was shut down due to a main generator field ground indication. Workers cleaned and vacuum the field.</i>
20121207		<i>The unit was connected to the electrical grid to end a 145.83 hour forced outage.</i>
20130930		<i>Reactor listed in the Regulatory Response Column</i>
20131218		<i>The NRC issued a White finding for inadequate maintenance performed October 18, 2012, that caused the failure of Standby Diesel Generator A during a maintenance run on March 8, 2013. Workers replaced the SDG lube oil heat exchanger during the October 2012</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
20131231		<i>Reactor listed in the Degraded Cornerstone Column</i>
20140211		<i>The NRC issued a White finding for the Reactor Core Isolation Cooling (RCIC) system being inoperable for 64 days, longer than the 14 days permitted by the technical specifications. On June 21, 2013, workers identified a degraded speed indicator in the main</i>
20140331		<i>Reactor listed in the Degraded Cornerstone Column</i>
20141004		<i>The operators shut down the reactor to enter refueling outage 24.</i>
20141126		<i>The unit was connected to the electrical grid to begin operating cycle 25. During the refueling outage, workers replaced the feedwater pumps.</i>
20150108		<i>The operators restored the reactor power level to 100 percent after feedwater pump B was restored to service.</i>
20150331		<i>Reactor listed in the Regulatory Response Column</i>
20150630		<i>Reactor listed in the Regulatory Response Column</i>
20161003		<i>The reactor was shut down to enter refueling outage 25.</i>
20161031		<i>The unit was connected to the electrical grid to begin operating cycle 26.</i>
20171022		<i>The operators shut down the reactor due to excessive leakage in the drywell.</i>
20171025		<i>The unit was connected to the electrical grid to end a 76.97 hour forced outage.</i>
20180904		<i>The reactor was shut down to enter its final Refueling Outage.</i>
20181019		<i>The reactor automatically scrammed on low water level in the reactor vessel following closure of the B feedwater regulating valve.</i>
20181021		<i>The unit was connected to the electrical grid to end a 55.25 hour forced outage.</i>
20190420		<i>The operators manually scrammed the reactor after both feedwater pumps tripped on low suction pressure. Workers determined the cause to be failure of the condensate demineralizer air supply filter.</i>
20190422		<i>The unit was connected to the electrical grid to end a 48.25 hour forced outage.</i>
20200810		<i>A Derecho caused a grid disturbance leading to a reactor shut down and loss of offsite power. The high winds damaged the reactor building, FLEX building, and non-safety-related cooling tower. Debris propelled by winds clogged the intake screens, causing a reduction of cooling water flow to an emergency diesel generator.</i>

Monday, December 22, 2025

Duane Arnold

Palo IA

Date	Reactor	Event Description
20200810		<i>The reactor automatically scrammed when offsite power was lost due to a Derecho Storm. Management opted not to restart the reactor and to permanently shut down the plant.</i>