

Pilgrim

Plymouth MA

Date	Reactor	Event Description
20130530	Unit 1	<i>The unit was connected to the electrical grid at 4:24 am to begin operating cycle 20.</i>
20130529	Unit 1	<i>The operators achieved criticality of the reactor at 2:53 am.</i>
20130524	Unit 1	<i>The operators completed insertion of all control rods during a controlled shutdown initiated as the result of degrading condenser vacuum caused by a leaking main condenser dogbone.</i>
20130522	Unit 1	<i>The operators achieved criticality of the reactor at 4:41 pm.</i>
20130520	Unit 1	<i>The operators manually scrammed the reactor due to main turbine auxiliary pump A being on fire.</i>
20130520	Unit 1	<i>The operators achieved criticality of the reactor at 2:02 am.</i>
20130414	Unit 1	<i>The operators shut down the reactor to enter refueling outage 19.</i>
20130329	Unit 1	<i>The operators reduced the reactor power level from 94 percent to 89 percent in response to indications that safety relief valve SRV-203-3B was experiencing first stage pilot valve leakage. The leakage apparently stopped at the reduced power level.</i>
20130226	Unit 1	<i>The operators reduced the reactor power level to 94 percent in response to indications that safety relief valve SRV-203-3B was experiencing first stage pilot valve leakage. The leakage apparently stopped at the reduced power level.</i>
20130217	Unit 1	<i>The operators restored the reactor power level to 100 percent.</i>
20130215	Unit 1	<i>The reactor was connected to the electrical grid at 10:39 pm to end a 169.37 hour forced outage.</i>
20130212	Unit 1	<i>Workers restored offsite power to the site at 4:05 am.</i>
20130210	Unit 1	<i>Offsite power to the site was lost at 2:02 pm.</i>
20130209	Unit 1	<i>Workers restored offsite power to the site at 6:09 pm.</i>
20130208	Unit 1	<i>The reactor automatically scrammed at 9:17 pm when a blizzard caused offsite power to be lost.</i>
20130203	Unit 1	<i>The operators reduced the reactor power level to 81 percent in response to indications that safety relief valve SRV-203-3B was experiencing first stage pilot valve leakage. The leakage apparently stopped at the reduced power level.</i>

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20130123	Unit 1	<i>The reactor was connected to the electrical grid at 11:21 am to end a 53.6 hour forced outage.</i>
20130121	Unit 1	<i>The operators manually inserted all the control rods by 9:01 am to repair safety relief valve SRV-203-3B.</i>
20130116	Unit 1	<i>The reactor was connected to the electrical grid at 6:12 pm to end a 146.63 hour forced outage.</i>
20130115	Unit 1	<i>The operators manually inserted all the control rods by 4:20 am to repair 4-HO-39.</i>
20130114	Unit 1	<i>The operators achieved criticality of the reactor core at 9:40 am.</i>
20130110	Unit 1	<i>The operators manually scrammed the reactor per procedures after both recirculation pumps tripped while an instrumentation and control surveillance test was being performed.</i>
20120922	Unit 1	<i>The operators reduced the reactor power level to 66 percent when supply to instrument power bus Y1 was temporarily interrupted during a transfer to its backup power source. The operators returned the reactor power level to 100 percent about nine and a half hours later.</i>
20120702	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>
20120702	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>
20120630	Unit 1	<i>The operators reduced the reactor power level to 34 percent due to a main generator field ground alarm.</i>
20120529	Unit 1	<i>The NRC approved license renewal.</i>
20120525	Unit 1	<i>The unit was connected to the electrical grid to end a 69.67 hour forced outage.</i>
20120522	Unit 1	<i>The operators manually scrammed the reactor from 35 percent power at 1:11 pm due to increasing condenser pressure. The operators began reducing the reactor power at 4:08 am for a scheduled thermal backwash of the condenser. During the backwashing, condenser vacuum began to be lost.</i>
20111231	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>
20111230	Unit 1	<i>The unit was connected to the electrical grid at 1:08 pm to end a 83.5 hour forced outage.</i>

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20111227	Unit 1	<i>The operators shut down the reactor to comply with technical specifications for inoperable safety relief valve SV-203-3D (excessive leakage).</i>
20111125	Unit 1	<i>The unit was connected to the electrical grid at 6:24 am to end a 176.4 hour forced outage.</i>
20111117	Unit 1	<i>The operators shut down the reactor to comply with technical specifications for inoperable feedwater check valve 6-CK-62B (excessive leakage).</i>
20110512	Unit 1	<i>The unit was connected to the electrical grid to begin operating cycle 19.</i>
20110510	Unit 1	<i>The reactor automatically scrammed on high-high flux on the intermediate range monitors during startup.</i>
20110510	Unit 1	<i>The operators achieved criticality of the reactor in an attempted startup.</i>
20110417	Unit 1	<i>The reactor was shut down to enter refueling outage 18.</i>
20110223	Unit 1	<i>The unit was connected to the electrical grid to end a 78.57 hour forced outage.</i>
20110220	Unit 1	<i>The reactor was shut down to comply with a 72 hour limiting condition for operation in the technical specifications for a leaking tube in reactor building closed loop cooling water heat exchanger B.</i>
20100708	Unit 1	<i>The company reported that a sample from a new monitoring well near the condensate storage tank indicated a tritium concentration of 11,072 picocuries per liter.</i>
20100501	Unit 1	<i>The operators reduced the reactor power level to 56 percent after feedwater regulating valve B drifted shut. After locking the valve, the operators returned the reactor power level to 100 percent later in the day.</i>
20091022	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>
20091021	Unit 1	<i>The operators reduced the reactor power level to 45 percent for main condenser thermal backwashing.</i>
20090518	Unit 1	<i>The unit was connected to the electrical grid at 10:38 pm to begin operating cycle</i>
20090417	Unit 1	<i>The reactor was shut down to enter refueling outage</i>
20090213	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>

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20090212	Unit 1	<i>The operators reduced the reactor power level to 54 percent in response to a request from the New England Independent System Operator as a contingency measure following failure of 345 kilovolt transmission line protective relaying.</i>
20081223	Unit 1	<i>The unit was connected to the electrical grid at 2:51 am to end a forced outage.</i>
20081222	Unit 1	<i>The operators took the reactor subcritical at 7:55 am due to high temperature in the condenser hotwell. Workers identified that a condensate minimum flow valve had failed closed, causing the high temperature condition.</i>
20081221	Unit 1	<i>The operators achieved reactor criticality at 5:21 pm in an attempt to restart from a forced outage.</i>
20081219	Unit 1	<i>The reactor automatically scrammed when a winter storm caused icing in the main switchyard.</i>
20080407	Unit 1	<i>The unit was connected to the electrical grid to end a 46.5 hour scheduled outage.</i>
20080404	Unit 1	<i>The operators manually shut down the reactor to enter a planned outage to replace the pilot valve on safety relief valve 3C.</i>
20071212	Unit 1	<i>The unit was connected to the electrical grid at 6:40 pm to end a 51.28 hour scheduled outage.</i>
20071210	Unit 1	<i>The operators manually shut down the reactor for a planned outage to replace the pilot operated relief valve for safety relief valve 3B.</i>
20070913	Unit 1	<i>The operators reduced the reactor power level to 46 percent after fish impingement on the intake traveling screens.</i>
20070913	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>
20070713	Unit 1	<i>The unit was connected to the electrical grid at 2:35 pm to end a 66.68 hour forced outage.</i>
20070710	Unit 1	<i>The reactor automatically tripped at 7:54 pm due to an incorrectly set condenser vacuum trip sensor during a downpower for main condenser thermal backwash.</i>
20070703	Unit 1	<i>The operators returned the reactor power level to 100 percent at 10:40 am.</i>
20070702	Unit 1	<i>The reactor power dropped to 34 percent at 2:38 pm after recirculation pump A tripped due to a loose wire on the generator differential overcurrent relay A phase input lead.</i>

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20070509	Unit 1	<i>The unit was connected to the electrical grid at 4:40 pm to begin operating cycle</i>
20070508	Unit 1	<i>The operators achieved reactor criticality at 6:22 am.</i>
20070406	Unit 1	<i>The operators manually shut down the reactor to enter refueling outage</i>
20070320	Unit 1	<i>The unit was connected to the electrical grid to end a forced outage.</i>
20070317	Unit 1	<i>The operators manually scrammed the reactor at 4:55 pm due to an increasing trend in unidentified drywell leakage. Workers identified the source to be packing leakage from reactor water cleanup (RWCU) system inlet valve MO-1201-85.</i>
20070128	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>
20070126	Unit 1	<i>The operators reduced the reactor power level to 53 percent for power suppression testing.</i>
20060315	Unit 1	<i>The unit was connected to the electrical grid to end a forced outage.</i>
20060313	Unit 1	<i>The operators manually scrammed the reactor at 6:08 pm due to increasing temperature in the augmented offgas system recombiner caused by failure of the pressure control valve supplying steam to the recombiner.</i>
20060311	Unit 1	<i>The operators reduced the reactor power level to 13 percent and took the generator offline at 4:42 am to re-connect the unit auxiliary transformer. The unit was connected to the electrical grid at 6:32 pm.</i>
20060127	Unit 1	<i>The NRC received an application for license renewal.</i>
20060127	Unit 1	<i>The NRC received an application for license renewal.</i>
20060112	Unit 1	<i>The operators reduced the reactor power level to 17 percent and took the generator offline at 3:42 am to disconnect the unit auxiliary transformer. The unit was connected to the electrical grid at 7:59 pm.</i>
20051027	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>
20051026	Unit 1	<i>The operators reduced the reactor power level from 100 percent to 55 percent for power suppression testing.</i>
20050714	Unit 1	<i>The NRC issued a notice of violation and proposed civil penalty of \$60,000 for a control room supervisor sleeping in the control room and the licensed reactor operator noticing the sleeping but not taking steps to correct the situation.</i>

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20050512	Unit 1	<i>The unit was connected to the electrical grid at 6:19 pm to begin operating cycle 16.</i>
20050418	Unit 1	<i>The operators manually shut down the reactor to enter refueling outage</i>
20050219	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>
20050217	Unit 1	<i>The operators reduced the reactor power level to 55 percent for power suppression testing.</i>
20050217	Unit 1	<i>The operators reduced the reactor power level to 55 percent for power suppression testing.</i>
20040325	Unit 1	<i>The unit was connected to the electrical grid at 11:05 am to end a maintenance outage.</i>
20040322	Unit 1	<i>The operators manually shut down the reactor to enter a maintenance outage for replacement of the pilot valves on two main steam relief valves.</i>
20031202	Unit 1	<i>The operators returned the reactor power level to 100 percent.</i>
20031201	Unit 1	<i>The reactor power level dropped from 100 percent to approximately 30 percent after a recirculation pump motor generator set tripped during a surveillance test.</i>
20031011	Unit 1	<i>The unit was connected to the electrical grid at 0:51 am following an outage to reconnect the unit auxiliary transformer.</i>
20030930	Unit 1	<i>The reactor was manually shut down to enter a maintenance outage to reconnect the unit auxiliary transformer.</i>
20030603	Unit 1	<i>The unit was connected to the electrical grid at 6:00 am to end a forced outage.</i>
20030601	Unit 1	<i>The reactor automatically tripped at 8:50 am due to a generator trip signal.</i>
20030520	Unit 1	<i>The unit was connected to the electrical grid at 2:41 pm to end a forced outage.</i>
20030519	Unit 1	<i>The reactor automatically scrammed due to spurious operation of the turbine bypass valves.</i>
20030518	Unit 1	<i>The unit was connected to the electrical grid to end a forced outage.</i>
20030516	Unit 1	<i>The operators manually shut down the reactor due to high leakage in the drywell.</i>
20030513	Unit 1	<i>The unit was connected to the electrical grid at 3:35 pm to begin operating cycle</i>

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20030509	Unit 1	<i>The NRC approved a 1.5 percent increase in the maximum licensed power level.</i>
20030419	Unit 1	<i>The operators manually scrammed the reactor to enter refueling outage 14.</i>
20030301	Unit 1	<i>The unit was connected to the electrical grid at 5:55 pm to end a forced outage.</i>
20030226	Unit 1	<i>The NRC denied enforcement discretion from the technical specification requirement to shut down the reactor within 24 hours with one of two reactor recirculation loops inoperable. The company sought and the NRC denied 7 additional days to operate the reactor while repairs to the motor generator set for a recirculation pump were performed. The NRC's denial was primarily based on equipment at the plant not being designed to accommodate single loop operation.</i>
20030221	Unit 1	<i>The operators manually scrammed the reactor at 4:24 am to repair recirculation pump A that had tripped at 5:24 am on February 20, 2003.</i>
20011230	Unit 1	<i>The unit was connected to the electrical grid at 11:03 pm to end a forced outage.</i>
20011227	Unit 1	<i>The reactor automatically scrammed at 1:21 pm due to an unexpected trip of both recirculation pumps during a routine test of the anticipated transient without scram (ATWS) circuitry.</i>
20010818	Unit 1	<i>The unit was connected to the electrical grid to end a short maintenance outage.</i>
20010813	Unit 1	<i>The reactor automatically scrammed due to procedural error during a 4160 volt bus protective relay functional test.</i>
20010519	Unit 1	<i>The unit was connected to the electrical grid to begin operating cycle 14.</i>
20010421	Unit 1	<i>The operators manually shut down the reactor to enter refueling outage 13.</i>
20001110	Unit 1	<i>The operators declared an Unusual Event due to a fire lasting longer than 10 minutes. The fire was started by workers grinding in the radwaste truck lock igniting material beneath the floor.</i>
20001008	Unit 1	<i>The operators returned the reactor power level to 100 percent at 4:30 am.</i>
20001006	Unit 1	<i>The unit was connected to the electrical grid at 1:12 am to end a forced outage.</i>
20001005	Unit 1	<i>The operators achieved reactor criticality at 3:28 am.</i>
20001001	Unit 1	<i>The operators shut down the reactor at 5:15 am to repair a leaking tube in a 5th point feedwater heater.</i>

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20000916	Unit 1	<i>The operators returned the reactor power level to 100 percent at 10:09 pm.</i>
20000914	Unit 1	<i>The operators reduced the reactor power level to 40 percent for condenser waterbox and intake structure cleaning.</i>
20000909	Unit 1	<i>The operators returned the reactor power level to 100 percent at 8:47 pm.</i>
20000908	Unit 1	<i>The operators reduced the reactor power level to 90 percent due to increasing condenser backpressure. Later, the operators reduced the reactor power level to 50 percent power for a thermal backwash of the condenser.</i>
20000905	Unit 1	<i>The operators returned the reactor power level to 100 percent at 2:40 am.</i>
20000904	Unit 1	<i>The operators reduced the reactor power level to 90 percent due to increasing condenser backpressure. Later, the operators reduced the reactor power level to 45 percent power for a thermal backwash of the condenser.</i>
20000828	Unit 1	<i>The unit was connected to the electrical grid at 6:11 am to end a 149.7 hour forced outage.</i>
20000824	Unit 1	<i>The operators achieved reactor criticality at 5:04 am.</i>
20000822	Unit 1	<i>The operators shut down the reactor due to low lube oil sump level for recirculation pump B. Workers entered the containment drywell and restored the oil level to the proper range.</i>
20000529	Unit 1	<i>The operators reduced the reactor power level to 63 percent at 8:30 am for replacement of a mechanical actuator on one of the four main condenser vapor valve.</i>
20000529	Unit 1	<i>The operators returned the reactor power level to 100 percent at 4:14 am.</i>
20000529	Unit 1	<i>The operators returned the reactor power level to 100 percent at 11:45 pm.</i>
20000526	Unit 1	<i>The operators reduced the reactor power level to 40 percent for maintenanece on the recirculation pump motor generator sets.</i>
20000227	Unit 1	<i>The operators returned the reactor power level to 100 percent at 4:50 am.</i>
20000225	Unit 1	<i>The unit was connected to the electrical grid at 5:40 am.</i>

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20000222	Unit 1	<i>The operators reduced the reactor power level to 15 percent and took the generator offline at 10:03 pm due to abnormal noise from the B phase of the isophase system connecting the generator to the main transformer.</i>
19990913	Unit 1	<i>The operators manually scrammed the reactor from 27 percent power at 6:25 pm due to degrading condenser vacuum. The loss of condenser vacuum was caused by failure of the augmented offgas system train B condenser level control system and AOG air purge flow, which combined to exceed the capacity of the main condenser air ejector system.</i>
19990805	Unit 1	<i>The reactor automatically scrammed from 100 percent power when the turbine tripped on high water level in moisture separator A. Workers determined that the controller for the moisture separator drain valve malfunctioned causing the high water level condition.</i>
19990713	Unit 1	<i>Entergy Nuclear purchased the reactor from Boston Edison Company for \$81 million.</i>
19990518	Unit 1	<i>With the reactor shut down for refueling, the operators declared an Unusual Event due to a call out to the local fire department for assistance putting out a fire at the main transformer. The main transformer was disconnected from the electrical distribution system for hi-pot testing when the fire broke out. The fire was extinguished in 203 minutes (3 hours, 23 minutes).</i>
19980828	Unit 1	<i>The NRC exercised enforcement discretion by not issuing a notice of violation and by proposing a civil penalty for a non-conservative setting for the degraded voltage time delay relay.</i>
19980807	Unit 1	<i>The NRC exercised enforcement discretion by not issuing a notice of violation and by not proposing a civil penalty for incorrect plant configuration during torus inerting operations that could have led to the suppression pool being bypassed in event of a loss of coolant accident.</i>
19980519	Unit 1	<i>The NRC issued a notice of violation and proposed civil penalty of \$55,000 for ineffective corrective actions for repetitive failures of security equipment forming part of the protected area assessment system.</i>
19980427	Unit 1	<i>The NRC exercised enforcement discretion by not issuing a notice of violation and by not proposing a civil penalty for non-conservative thermal overload relay trip settings for the salt service water (SSW) pumps that could have caused the common-mode failure of all pump and loss of all SSW cooling in event of an accident. The NRC based the discretion on the problem being identified as part of corrective actions for an earlier violation of similar cause.</i>

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19980427	Unit 1	<i>The NRC issued a notice of violation and proposed civil penalty of \$165,000 for seven examples of inadequate corrective actions involving the emergency core cooling systems (ECCS), the emergency diesel generators (EDGs), and other electrical equipment.</i>
19971206	Unit 1	<i>The reactor automatically scrammed from 75 percent power at 9:07 am when the turbine tripped on high water level in the reactor vessel. Feedwater regulating valve A opened fully due to misalignment of the valve clip inside the pilot valve assembly of the positioner unit.</i>
19971123	Unit 1	<i>The operators shut down the reactor after two main steam isolation valves were declared inoperable due to slow closing times. Workers attributed the slow travel times to main closure spring relaxation.</i>
19970215	Unit 1	<i>The operators manually scrammed the reactor from 20 percent power at 12:38 am due to increasing water level in the reactor vessel during a controlled shut down to enter a refueling outage.</i>
19960918	Unit 1	<i>The operators shut down the reactor to comply with technical specifications after the 'B' reactor building closed cooling water heat exchanger was declared inoperable. The heat exchanger developed a through-wall leak on the seawater side.</i>
19960419	Unit 1	<i>The reactor automatically scrammed at 22 percent power at 10:16 am as power was being reduced for a planned outage. During the power reduction, vibration in a portion of the newly installed low pressure turbine caused an automatic turbine and reactor trip. The low pressure turbine rotors have a monoblock design with smaller clearances between the rotor and the turbine casing diaphragm.</i>
19950606	Unit 1	<i>The unit was connected to the electrical grid to begin operating cycle 11.</i>
19950324	Unit 1	<i>The reactor was shut down due to a main generator stator cooling malfunction. The company transitioned into refueling outage 10.</i>
19941130	Unit 1	<i>The unit was connected to the electrical grid to end a lengthy outage for generator repairs.</i>
19940829	Unit 1	<i>The reactor automatically scrammed due to a generator load rejection caused by main generator failure.</i>
19940501	Unit 1	<i>The unit was connected to the electrical grid to end a 24.4 hour forced outage.</i>
19940430	Unit 1	<i>The operators manually shut down the reactor to repair a steam leak at the 2nd point feedwater heater.</i>

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19940428	Unit 1	<i>The unit was connected to the electrical grid to end a 144.7 hour forced outage.</i>
19940422	Unit 1	<i>The operators manually shut down the reactor for maintenance on control rod drive hydraulic control unit solenoid valves.</i>
19940313	Unit 1	<i>The unit was connected to the electrical grid to end a 22.1 hour forced outage.</i>
19940312	Unit 1	<i>The operators manually shut down the reactor for repair a leak in the generator stator cooling system.</i>
19940304	Unit 1	<i>The unit was connected to the electrical grid to end a 221 hour scheduled outage.</i>
19940223	Unit 1	<i>The operators manually shut down the reactor for a planned outage to repair main steam isolation valves.</i>
19931109	Unit 1	<i>The unit was connected to the electrical grid to end a 104.9 hour scheduled outage.</i>
19931105	Unit 1	<i>The operators manually shut down the reactor for a planned outage to repair the 4th point feedwater heater.</i>
19930912	Unit 1	<i>The unit was connected to the electrical grid to end a 43.7 hour forced outage.</i>
19930910	Unit 1	<i>Loss of offsite power lasting 10 minutes</i>
19930910	Unit 1	<i>The reactor automatically scrammed after lightning strikes caused switchyard breakers to open.</i>
19930902	Unit 1	<i>The unit was connected to the electrical grid to end a 54.2 hour forced outage.</i>
19930831	Unit 1	<i>The operators manually shut down the reactor for maintenance to potential transformer A5.</i>
19930825	Unit 1	<i>The unit was connected to the electrical grid to end a 27.4 hour forced outage.</i>
19930824	Unit 1	<i>The operators manually shut down the reactor for repairs to main steam isolation valve AO-203-2B.</i>
19930726	Unit 1	<i>The unit was connected to the electrical grid to end a 107.4 hour scheduled outage.</i>
19930722	Unit 1	<i>The operators manually shut down the reactor for a planned outage to repair a leak from a weld on a 2-inch diameter drain line from the vessel in the drywell.</i>
19930603	Unit 1	<i>The unit was connected to the electrical grid to end a 71.4 hour forced outage.</i>

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19930531	Unit 1	<i>The reactor automatically scrammed after the turbine tripped due to a unit auxiliary transformer lockout signal.</i>
19930531	Unit 1	<i>The reactor automatically scrammed after the turbine tripped due to a unit auxiliary transformer lockout signal.</i>
19930531	Unit 1	<i>The unit was connected to the electrical grid to begin operating cycle 10.</i>
19930531	Unit 1	<i>The unit was connected to the electrical grid to end a 4.6 hour forced outage.</i>
19930403	Unit 1	<i>The operators manually shut down the reactor to enter refueling outage 9.</i>
19930317	Unit 1	<i>The unit was connected to the electrical grid to end a 84.5 hour forced outage.</i>
19930313	Unit 1	<i>Weather-related loss of offsite power lasting 1 minute</i>
19930313	Unit 1	<i>The reactor automatically scrammed on a generator load rejection caused by flashovers in the switchyard due to wind-packed snow during blizzard conditions.</i>
19921223	Unit 1	<i>The unit was connected to the electrical grid to end a 75.9 hour forced outage.</i>
19921220	Unit 1	<i>The reactor automatically scrammed due to an incorrect setpoint on main steam line high radiation during hydrogen injection.</i>
19921218	Unit 1	<i>The unit was connected to the electrical grid to end a 116.4 hour forced outage.</i>
19921213	Unit 1	<i>The reactor automatically scrammed on a generator load rejection caused by flashovers in the switchyard due to salt deposits during a severe storm.</i>
19921124	Unit 1	<i>The unit was connected to the electrical grid to end a 736.7 hour scheduled outage followed by a 22 hour forced outage for replacement of the accumulator for control rod 38-51.</i>
19921024	Unit 1	<i>The operators manually shut down the reactor for a planned midcycle maintenance outage.</i>
19920413	Unit 1	<i>The unit was connected to the electrical grid to end a 429.5 hour forced outage.</i>
19920326	Unit 1	<i>The operators manually shut down the reactor for repairs to MOV 1301-16.</i>

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19911122	Unit 1	<i>The unit was connected to the electrical grid to end a 545.4 hour forced outage. The outage was extended by the installation of new inverters for the high pressure coolant injection and reactor core isolation cooling systems having a high trip setpoint and an automatic reset function.</i>
19911030	Unit 1	<i>Weather-related loss of offsite power lasting 120 minutes</i>
19911030	Unit 1	<i>The operators shut down the reactor when a severe storm blew seaweed into the intake structure, clogging the circulating water pumps, and causing a loss of condenser vacuum.</i>
19910717	Unit 1	<i>The unit was connected to the electrical grid to begin operating cycle 9.</i>
19910531	Unit 1	<i>As a fuel bundle was being lowered into a storage rack in the spent fuel pool. The grapple prematurely disengaged. There was no apparent damage to the fuel assembly.</i>
19910429	Unit 1	<i>The operators manually shut down the reactor to replace the seal on recirculation pump B. The company transitioned into refueling outage 8.</i>
19900924	Unit 1	<i>The unit was connected to the electrical grid to end a 530.6 hour forced outage.</i>
19900902	Unit 1	<i>The reactor was shut down due to reactor vessel water level control problems.</i>
19900729	Unit 1	<i>The operators reduced the reactor power level and manually tripped the generator for 11.8 hours to repair turbine stop valve No. 2.</i>
19900711	Unit 1	<i>The unit was connected to the electrical grid to end a 191.8 hour forced outage.</i>
19900703	Unit 1	<i>The operators manually shut down the reactor to comply with technical specifications when the motor-generator set for recirculation pump A was out of service longer than 24 hours.</i>
19900522	Unit 1	<i>The unit was connected to the electrical grid to end a 43.9 hour forced outage.</i>
19900520	Unit 1	<i>The reactor was shut down for repairs to the turbine control system.</i>
19900515	Unit 1	<i>The unit was connected to the electrical grid to end a 42.5 hour forced outage.</i>
19900513	Unit 1	<i>The reactor automatically scrammed due to a generator load rejection.</i>
19900427	Unit 1	<i>The unit was connected to the electrical grid to end a 1152.6 hour scheduled outage.</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19900311	Unit 1	<i>The operators manually shut down the reactor to enter a planned midcycle maintenance outage.</i>
19900222	Unit 1	<i>NRC drops Pilgrim from its Watch List</i>
19891212	Unit 1	<i>The unit was connected to the electrical grid to end a 108 hour outage.</i>
19891208	Unit 1	<i>The reactor automatically scrammed on low water level inside the reactor vessel. Workers replaced a faulty ball valve on a traversing in-core probe during the outage.</i>
19891108	Unit 1	<i>The unit was connected to the electrical grid to end a 638.8 hour outage.</i>
19891013	Unit 1	<i>The operators manually shut down the reactor as part of a test to demonstrate the capability of the remote shutdown panel.</i>
19891010	Unit 1	<i>The operators achieved 100 percent power of the reactor.</i>
19891006	Unit 1	<i>The NRC authorized 100 percent reactor power operation.</i>
19890907	Unit 1	<i>The unit was connected to the electrical grid to end a 183 hour outage.</i>
19890830	Unit 1	<i>The reactor automatically scrammed on high pressure in the reactor vessel after the main generator voltage regulator potential transformer failed coincident with a main generator voltage balance relay malfunction.</i>
19890821	Unit 1	<i>The operators achieved 75 percent power of the reactor.</i>
19890818	Unit 1	<i>The NRC authorized the reactor to operate up to 75 percent power.</i>
19890726	Unit 1	<i>The unit was connected to the electrical grid to end a 191 hour outage.</i>
19890718	Unit 1	<i>The operators manually tripped the reactor from 35 percent power in response to decreasing condenser vacuum. A procedure deficiency initiated the loss of vacuum as operators were reconfiguring the steam jet air ejectors in the main condenser gas removal system.</i>
19890718	Unit 1	<i>The operators manually scrammed the reactor due to loss of condenser vacuum during re-alignment of the steam jet air ejectors.</i>
19890630	Unit 1	<i>The unit was connected to the electrical grid.</i>
19890629	Unit 1	<i>The operators manually shut down the reactor as part of a test to demonstrate the capability of the remote shutdown panel.</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19890615	Unit 1	<i>The unit was connected to the electrical grid to end a 108.9 hour scheduled outage.</i>
19890611	Unit 1	<i>The operators shut down the reactor to enter a planned maintenance outage.</i>
19890531	Unit 1	<i>Company management decided to continue the administrative limit on reactor power level at 25 percent for another month.</i>
19890525	Unit 1	<i>The unit was connected to the electrical grid to end a 533.2 hour outage.</i>
19890503	Unit 1	<i>The reactor automatically scrammed on a load rejection signal caused during troubleshooting of a feedwater control valve actuator problem.</i>
19890430	Unit 1	<i>The unit was connected to the electrical grid to end a 327.7 hour outage.</i>
19890416	Unit 1	<i>The operators shut down the reactor due to the overpressurization of the reactor core isolation cooling system during a test on April 12, 1989.</i>
19890412	Unit 1	<i>Due to improperly set circuit breakers, about 380 liters of radioactively contaminated water was spilled during a test of the reactor core isolation cooling system.</i>
19890316	Unit 1	<i>The unit was connected to the electrical grid. An administrative order limited the reactor power level to 25 percent.</i>
19890313	Unit 1	<i>The reactor was shut down due to a transformer blackout caused by a solar magnetic storm.</i>
19890308	Unit 1	<i>The unit was connected to the electrical grid to end a 87.4 hour forced outage.</i>
19890304	Unit 1	<i>The reactor automatically scrammed due to a turbine electro-hydraulic control system perturbation.</i>
19890304	Unit 1	<i>The operators achieved reactor criticality.</i>
19890110	Unit 1	<i>The reactor was shut down to resolve concerns identified by the Nuclear Engineering Department about air-operated valves. The concerns were identified during analyses performed for NRC Generic Letter 88-14. The concerns involved the air accumulators for two primary containment isolation valves.</i>
19890102	Unit 1	<i>The reactor was taken critical for training of 16 candidates for NRC operator licenses who needed to satisfactorily perform reactivity manipulations.</i>
19881230	Unit 1	<i>Region I Regional Administrator William T. Russell approved restart</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19881230	Unit 1	<i>The operators shut down the reactor due to three failed intermediate range monitors.</i>
19881230	Unit 1	<i>The operators achieved criticality of the reactor.</i>
19881221	Unit 1	<i>Commission approves restart</i>
19881221	Unit 1	<i>Attorney General of Massachusetts petitioned the U.S. Court of Appeals for the First Circuit to set aside the Commission's decision on grounds that emergency plans are incomplete</i>
19881209	Unit 1	<i>Commission briefing on status of restart</i>
19881119	Unit 1	<i>BECO sends letter to NRC formally requesting approval for restart</i>
19881116	Unit 1	<i>Approximately 2,600 gallons of radioactively contaminated water overflowed from a radwaste cask liner filled with diatomaceous earth when a demineralizer water fill valve was left open. The overflow spilled into the radwaste truck lock and about 200 gallons flowed onto the pavement in the yard. The affected areas were decontaminated and repaved.</i>
19881116	Unit 1	<i>Due to a valve inadvertently left open, 2,300 gallons of radioactively contaminated water spilled from a container of used filters on the process building floor. The water flowed outside the building towards the inner site boundary fence. About 1,000 cubic feet of gravel and earth were removed during the remediation effort.</i>
19881102	Unit 1	<i>The NRC proposed a \$50,000 civil penalty for inadequate security barriers to vital areas of the plant and for a false statement made by a contract security officer to the NRC during its investigation.</i>
19881014	Unit 1	<i>Commission briefing on status of restart</i>
19880922	Unit 1	<i>The Board of Directors voted to restart the plant.</i>
19880914	Unit 1	<i>The company announced that in addition to installing a third emergency diesel generator during the outage, it had implemented a modification to allow water from the fire protection system to be used for decay heat removal. This modification was made to reduce the plant's risk from loss of offsite power events.</i>
19880907	Unit 1	<i>NRC issues Integrated Assessment Team Inspection (IATI) report</i>
19880808	Unit 1	<i>The NRC's restart readiness inspection team arrived onsite to begin their two-week assessment.</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19880531	Unit 1	<i>NRC expended 9,698 inspection hours at Pilgrim between February 1987 and May 1988</i>
19880526	Unit 1	<i>BECo submits readiness self-assessment to NRC</i>
19880506	Unit 1	<i>NRC Commissioner Kenneth Rogers visited the site</i>
19880422	Unit 1	<i>NRC Commissioner Kenneth Carr visited the site</i>
19880218	Unit 1	<i>NRC public meeting on restart plan</i>
19880127	Unit 1	<i>NRC forms Pilgrim Task Force</i>
19880107	Unit 1	<i>NRC Director of the Office of Nuclear Reactor Regulation and the Region I Regional Administrator appear before a hearing of the Senate Labor and Human Resources Committee chaired by Senator Kennedy and conducted in Plymouth</i>
19871112	Unit 1	<i>High winds caused salt accumulation on electrical equipment that led to an electrical fault and a loss of offsite power lasting 21 hours and 3 minutes.</i>
19871112	Unit 1	<i>NRC dispatches Augmented Inspection Team to site to investigate loss of offsite power event</i>
19871109	Unit 1	<i>The company halted maintenance activities and sent about 400 contractors home. Nine separate incidents over the prior three day period, two resulting in radioactive contamination of workers, prompted the decision.</i>
19871108	Unit 1	<i>Loss of offsite power event triggers site stop work order</i>
19871026	Unit 1	<i>BECo issues Restart Plan Rev. 1</i>
19870917	Unit 1	<i>NRC sends letter to BECo about emergency plan deficiencies</i>
19870806	Unit 1	<i>FEMA issues report identifying six emergency plan deficiencies</i>
19870804	Unit 1	<i>FEMA released a report stating that the emergency evacuation plan was inadequate.</i>
19870730	Unit 1	<i>BECo issues Restart Plan Rev. 0</i>
19870724	Unit 1	<i>NRC Commissioner James Asselstine visited the site</i>
19870627	Unit 1	<i>NRC Region I managers participate in a public meeting in Plymouth sponsored by the Plymouth Board of Selectmen</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19870622	Unit 1	<i>NRC Commissioner Kenneth Carr visited the site</i>
19870427	Unit 1	<i>NRC Regional Administrator and other Region I staff testify before the Massachusetts Joint Committee on the Investigation and Study of the Pilgrim Station</i>
19870331	Unit 1	<i>Heavy winds caused an electrical fault and a loss of offsite power last about 1 minute.</i>
19870310	Unit 1	<i>NRC Chairman Lando Zech visited site</i>
19870309	Unit 1	<i>NRC Regional Administrator and other Region I staff testify before the Massachusetts Joint Committee on the Investigation and Study of the Pilgrim Station</i>
19870203	Unit 1	<i>NRC Regional Administrator and other Region I manager meet with BECo senior managers and the Massachusetts Secretary of Energy to discuss Pilgrim</i>
19870131	Unit 1	<i>NRC expended 6,762 inspection hours at Pilgrim between November 1985 and January 1987</i>
19861119	Unit 1	<i>Ice buildup on electrical equipment caused a fault and a loss of offsite power lasting about 1 minute.</i>
19860925	Unit 1	<i>Radioactively contaminated water and sludge leaked onto the ground when a 55-gallon drum fell over during transport. The area was decontaminated.</i>
19860825	Unit 1	<i>NRC informs Senator Kennedy that NRC has expended over 16,000 hours of inspection effort at Pilgrim since January 1982, about 50 percent more effort than expended at similar sites over that period</i>
19860725	Unit 1	<i>BECo announced decision to keep Pilgrim shut down until early 1987 to complete fire protection and primary containment modifications</i>
19860523	Unit 1	<i>The NRC reported that each pair of RHR pumps had a minimum flow line from the common pump discharge header to the suppression pool. A normally open minimum flow bypass valve closes on a high flow signal from either RHR pump. But the single failure of the high flow sensor on either pump would cause the minimum flow bypass valve and potentially disable both RHR pumps if they operate in deadhead configuration.</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19860519	Unit 1	<i>Boston Edison notified NRC of a design deficiency on one of the emergency core cooling systems (ECCS), the residual heat removal (RHR) system. The single failure of a flow sensor could have resulted in valves in the minimum flow bypass lines to close when the pump discharge valves were also closed. This condition could disable all four of the RHR pumps before reactor pressure dropped below the setpoint signalling the injection valves to open. The same design deficiency was subsequently identified at several other boiling water reactors.</i>
19860412	Unit 1	<i>NRC issued Confirmatory Action Letter 86-10 requiring BECo to resolve MSIV isolation and RHR injection valve leakage problems before restart</i>
19860411	Unit 1	<i>Began year-plus outage</i>
19860411	Unit 1	<i>Reactor manually shut down to fix leaks from "B" RHR injection valves</i>
19860411	Unit 1	<i>During controlled shutdown, reactor automatically scrammed from 4% power due to MSIV closure. The operators had just placed the reactor mode switch to Startup from Run position. The outboard MSIVs could not be reset and re-opened for 90 minutes.</i>
19860409	Unit 1	<i>Reactor achieves criticality</i>
19860404	Unit 1	<i>Reactor manually shut down to fix oil leak in the turbine hydraulic control system</i>
19860404	Unit 1	<i>During controlled shutdown, reactor automatically scrammed from 4% power due to MSIV closure. The operators had just placed the reactor mode switch to Startup from Run position. The outboard MSIVs could not be reset and re-opened for 90 minutes.</i>
19860331	Unit 1	<i>Reactor achieves criticality</i>
19860315	Unit 1	<i>Reactor manually shut down to fix weld leak on reactor water level instrumentation line</i>
19860312	Unit 1	<i>Reactor achieves criticality</i>
19860307	Unit 1	<i>Reactor manually shut down to fix weld leak in 4-inch head spray piping</i>
19860129	Unit 1	<i>Reactor power level was manually reduced to 10% from 100% to repair main turbine vibration problems</i>
19860116	Unit 1	<i>Reactor automatically scrammed from 100% power when second pressure switch was bumped during maintenance on another pressure switch</i>
19860106	Unit 1	<i>Reactor achieves criticality</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19860106	Unit 1	<i>Reactor automatically scrammed from 10% power during restart when inattentive operator let reactor vessel level drop too low while feedwater controller was in manual</i>
19860103	Unit 1	<i>Reactor manually shut down to fix main turbine vibration problems. Workers realigned the generator exciter to remedy the problem.</i>
19851031	Unit 1	<i>NRC expended 3,792 inspection hours at Pilgrim between October 1984 and October 1985</i>
19851028	Unit 1	<i>The unit was connected to the electrical grid to end a 1,068 hour outage.</i>
19850907	Unit 1	<i>The unit was connected to the electrical grid to end a 151 hour outage.</i>
19850901	Unit 1	<i>The reactor automatically scrammed on a generator load rejection signal caused by salt buildup on electrical insulators during a storm. During the outage, workers replaced the seal on recirculation pump B.</i>
19850615	Unit 1	<i>The reactor automatically scrammed on high water level inside the reactor vessel after an operator cracked open a turbine bypass valve with the reactor water level already higher than normal. The resulting level swell associated with the reactor pressure drop carried the level above the setpoint for an automatic main steam isolation valve closure.</i>
19850404	Unit 1	<i>The reactor automatically scrammed when the turbine tripped on high vibration. Workers discovered that the teflon tip of the vibration detector for turbine bearing No. 9 was damaged. The damage was caused by blockage of the orifice supplying lubricating oil to where the vibration detector rides on the turbine main shaft.</i>
19850320	Unit 1	<i>The unit was connected to the electrical grid to end a 115.5 hour outage.</i>
19850315	Unit 1	<i>The reactor was shut down to repair a stuck valve on a Yarway water level instrument.</i>
19850218	Unit 1	<i>The unit was connected to the electrical grid to end a 64.7 hour outage.</i>
19850215	Unit 1	<i>The reactor automatically scrammed from 100 percent power due to a false indication of high reactor pressure caused by instrument and control technicians valving in a water level instrument.</i>
19850215	Unit 1	<i>The unit was connected to the electrical grid to end a 138 hour outage.</i>
19850210	Unit 1	<i>The reactor was shut down after an oil leak caused a recirculation pump to fail due to inadequate lubrication.</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19850109	Unit 1	<i>The unit was connected to the electrical grid to end a 187 hour outage.</i>
19850101	Unit 1	<i>The reactor was shut down because the standby liquid control system was declared inoperable. Workers removed debris from the system through draining, cleaning, and flushing evolutions.</i>
19841230	Unit 1	<i>Unit connected to the electrical grid to end extended outage</i>
19841129	Unit 1	<i>The NRC issued an Order requiring the company to hire a contractor to perform an independent assessment of the radiological controls program at Pilgrim and to submit to the agency its plan for management oversight of radiation protection in the interim.</i>
19840930	Unit 1	<i>NRC expended 4,960 inspection hours at Pilgrim between July 1983 and September 1984</i>
19840929	Unit 1	<i>With the reactor shut down for refueling, an inadvertent actuation caused about 10,000 gallons of water to spray into the drywell. Pipe insulation in the drywell was damaged by the water and had to be replaced.</i>
19831220	Unit 1	<i>The company announced that small diameter piping (8-inch and 12-inch diameter) in the recirculation system would be replaced and large diameter piping would be inspected due to crack indications from sample inspections.</i>
19831210	Unit 1	<i>Reactor manually shut down for recirculation piping inspections</i>
19831010	Unit 1	<i>The unit was connected to the electrical grid to end a 63.8 hour outage.</i>
19831007	Unit 1	<i>The reactor automatically scrammed on low pressure due to a problem with the turbine electro-hydraulic control system's pressure regulator.</i>
19830929	Unit 1	<i>With the reactor operating at 98 percent power, operators performed two separate surveillance tests of the high pressure coolant injection (HPCI) system at the same time. During the tests, the testable check valve was opened at the same time that the HPCI pump discharge valves were opened. This allowed high-pressure reactor cooling water to flow backwards through the HPCI pump and over-pressurize the low-pressure (150 psig) HPCI supply piping. The high pressure blew out the gland seal condenser gasket on the HPCI turbine, spraying water onto the 250 volt dc battery in the room. Paint burned off the HPCI system suction piping by the high-pressure and high-temperature water activated smoke detector alarms in the room.</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19830929	Unit 1	<i>During functional testing of the high pressure coolant injection (HPCI) system logic with the reactor operating at 96 percent power, a HPCI suction high pressure and HPCI area smoke detector alarm were received in the main control room. Investigation determined that the low pressure (suction) section of HPCI system piping had been overpressurized due to backflow of feedwater into the system past the HPCI testable check valve. The testable check valve was discovered to be stuck partially open due to rust on some of its parts. Due to miscommunication, two HPCI system tests were underway at the same time allowing both pump discharge valves to be open simultaneously. Feedwater flowing past the stuck-open testable check valve overpressurized the suction piping, shaking the pipe supports producing dust that triggered the smoke alarm.</i>
19830912	Unit 1	<i>The unit was connected to the electrical grid to end a 62.9 hour outage.</i>
19830909	Unit 1	<i>The reactor automatically scrammed on low water level inside the reactor vessel during a surveillance test.</i>
19830802	Unit 1	<i>The unit was connected to the electrical grid to end a 93.1 hour outage.</i>
19830729	Unit 1	<i>The reactor was shut down to enable workers to enter the drywell and repair the motor operator on a valve in the reactor core isolation cooling system. During a test, the inboard containment isolation valve on the RCIC system failed to close.</i>
19830703	Unit 1	<i>The unit was connected to the electrical grid to end a 146.7 hour outage.</i>
19830702	Unit 1	<i>The reactor scrammed with the high pressure coolant injection system inoperable.</i>
19830630	Unit 1	<i>NRC expended 3,234 inspection hours at Pilgrim between July 1982 and June 1983</i>
19830627	Unit 1	<i>The reactor was shut down to repair a packing leak on a main steam isolation valve.</i>
19830615	Unit 1	<i>The unit was connected to the electrical grid to end a 102.2 hour outage.</i>
19830611	Unit 1	<i>The reactor was shut down for maintenance to feedwater heaters.</i>
19830404	Unit 1	<i>The unit was connected to the electrical grid to end a 32.7 hour forced outage.</i>
19830403	Unit 1	<i>The reactor automatically scrammed on high neutron flux caused by pressure perturbations following a turbine runback.</i>
19830215	Unit 1	<i>The unit was connected to the electrical grid to end a 48.2 hour forced outage.</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19830213	Unit 1	<i>High winds caused salt accumulation on electrical equipment that led to an electrical fault and a loss of offsite power lasting about 1 minute.</i>
19830213	Unit 1	<i>With the reactor shut down, there was a loss of offsite power.</i>
19821214	Unit 1	<i>The unit was connected to the electrical grid to end a 73.4 hour scheduled outage.</i>
19821211	Unit 1	<i>The operators manually shut down the reactor for repairs to the fourth point heater expansion joints.</i>
19821104	Unit 1	<i>The unit was connected to the electrical grid to end a 58.6 hour forced outage.</i>
19821102	Unit 1	<i>The operators manually shut down the reactor so workers could enter the drywell to correct the wrong setting on a safety valve.</i>
19821024	Unit 1	<i>The unit was connected to the electrical grid to end a 352.3 hour scheduled outage.</i>
19821012	Unit 1	<i>High winds caused salt accumulation on electrical equipment that led to an electrical fault and a loss of offsite power lasting about 1 minute.</i>
19821009	Unit 1	<i>The operators manually scrammed the reactor for a planned outage to repair main steam isolation valve D.</i>
19821004	Unit 1	<i>Internal failure of a condensate demineralizer unit caused resin beads to enter the reactor vessel and increased the conductivity level of the reactor water above the technical specification limit.</i>
19821003	Unit 1	<i>The operators manually shut down the reactor for an adjustment of the turbine control valves.</i>
19821003	Unit 1	<i>The unit was connected to the electrical grid to end a 8.9 hour forced outage.</i>
19820903	Unit 1	<i>The unit was connected to the electrical grid to end a 43.3 hour forced outage.</i>
19820901	Unit 1	<i>The reactor automatically scrammed on low condenser vacuum during a thermal backwash evolution.</i>
19820817	Unit 1	<i>The unit was connected to the electrical grid to end a 104.9 hour forced outage.</i>
19820813	Unit 1	<i>The reactor scrammed and the high pressure coolant injection system failed.</i>
19820813	Unit 1	<i>The reactor automatically scrammed when workers accidentally struck the main steam line instrument rack.</i>

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Pilgrim

Plymouth MA

Date	Reactor	Event Description
19820804	Unit 1	<i>The unit was connected to the electrical grid to end a 23.2 hour forced outage.</i>
19820803	Unit 1	<i>The reactor automatically scrammed on high radiation in the main steam lines due to air intrusion.</i>
19820630	Unit 1	<i>NRC expended 3,735 inspection hours at Pilgrim between September 1981 and June 1982</i>
19820611	Unit 1	<i>Approximately one cubic foot of condensate demineralizer resin was inadvertently exhausted to the vent duct when a condensate demineralizer was being backwashed. The ducting carried the resin out of the reactor building exhaust.</i>
19820520	Unit 1	<i>The unit was connected to the electrical grid to end a 23.4 hour forced outage.</i>
19820519	Unit 1	<i>The reactor automatically scrammed due to average power range monitor high flux after the turbine ran back due to a failed temperature sensor in the generator stator cooling unit.</i>
19820514	Unit 1	<i>The unit was connected to the electrical grid to end a 40.7 hour forced outage.</i>
19820512	Unit 1	<i>The reactor automatically scrammed due to a defective anticipated transient without scram trip unit.</i>
19820418	Unit 1	<i>The unit was connected to the electrical grid to end a 60.6 hour forced outage.</i>
19820416	Unit 1	<i>The operators manually shut down the reactor due to a generator hydrogen seal oil leak.</i>
19820415	Unit 1	<i>At 10:00 pm, two vehicles in the contractor parking area were fire-bombed.</i>
19820409	Unit 1	<i>The unit was connected to the electrical grid to end a 36.8 hour forced outage.</i>
19820408	Unit 1	<i>The reactor automatically scrammed during startup due to high reactor pressure during turbine testing.</i>
19820408	Unit 1	<i>The unit was connected to the electrical grid to begin operating cycle</i>
19820119	Unit 1	<i>The NRC issued a notice of violation and proposed civil penalty of \$550,000 for management control deficiencies associated with control of combustible gases inside containment and maintenance of the reactor core isolation cooling (RCIC) system.</i>
19810926	Unit 1	<i>The operators manually scrammed the reactor to enter refueling outage</i>

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Pilgrim

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Date	Reactor	Event Description
19810831	Unit 1	<i>NRC expended 2,328 inspection hours at Pilgrim between September 1980 and August 1981</i>
19810828	Unit 1	<i>Workers discovered that a growth of mussels in the salt service water (SSW) system caused deformation of the heat exchanger baffle plates allowing water to bypass the heat exchanger tubes.</i>
19810827	Unit 1	<i>The unit was connected to the electrical grid to end a 18.6 hour forced outage.</i>
19810826	Unit 1	<i>The reactor automatically scrammed due to low condenser vacuum.</i>
19810821	Unit 1	<i>The operators manually shut down the reactor due to mussels blocking the screens at the intake station.</i>
19810821	Unit 1	<i>The unit was connected to the electrical grid to end a 4.3 hour forced outage.</i>
19810802	Unit 1	<i>The unit was connected to the electrical grid to end a 73.4 hour forced outage.</i>
19810730	Unit 1	<i>The operators manually scrammed the reactor due to a packing leak on the discharge valve for recirculation pump A.</i>
19810713	Unit 1	<i>The unit was connected to the electrical grid to end a 65.6 hour forced outage.</i>
19810710	Unit 1	<i>The operators manually scrammed the reactor after the seal failed on recirculation pump A.</i>
19810708	Unit 1	<i>The unit was connected to the electrical grid to end a 194.5 hour forced outage.</i>
19810630	Unit 1	<i>The reactor automatically scrammed due to main transformer lightning arrestor failure.</i>
19810406	Unit 1	<i>The reactor automatically scrammed due to high water level in moisture separator C.</i>
19810406	Unit 1	<i>The unit was connected to the electrical grid to end a 13 hour forced outage.</i>
19810311	Unit 1	<i>The unit was connected to the electrical grid to end a 263.7 hour scheduled outage.</i>
19810228	Unit 1	<i>The operators manually shut down the reactor for installation of a bypass of the fourth-point heat exchanger.</i>
19810129	Unit 1	<i>The unit was connected to the electrical grid to end a 27.7 hour forced outage.</i>

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Date	Reactor	Event Description
19810128	Unit 1	<i>The reactor automatically scrammed due to high water level in the reactor vessel during a surveillance test.</i>
19810107	Unit 1	<i>Radioactively contaminated water and resin leaked through two one-inch diameter valves on the condensate resin fill hopper on condensate demineralizer "B" and flowed towards a storm drain. The spill was cleaned up and surveys of the storm drain detected no radioactivity.</i>
19801231	Unit 1	<i>NRC expended 1,950 inspection hours at Pilgrim between January 1980 and December 1980</i>
19801217	Unit 1	<i>The NRC reported about an event in which loss of power from a vital motor generator set resulted in the inadvertent bypass of the reactor scram on the reactor mode switch being placed in shutdown. Upon loss of reactor protection system power from a vital motor generator set, the operators manually transferred to the alternate power source. The "Shutdown Scram Reset Permissive" annunciator came in unexpectedly. The ensuing investigation determined that when one RPS bus power supply is lost when the reactor mode switch is in run, relay K-17 is immediately de-energized and after two seconds one of two series bypass contact switches in the mode selector switch scram circuit is closed. When RPS bus power is restored, a relay race could result in relay K-16 energizing before relay K-17. If so, the normally open K-16 contact in the mode selector switch scram bypass circuit closes, bypassing the automatic scram signal from the mode switch being placed in shutdown, and in addition, the K-17 relay remains de-energized.</i>
19801107	Unit 1	<i>The NRC reported about the safety relief valve openings on October 7 and 31, 1980. The nitrogen pressure to the safety relief valves increased to 160 to 165 psig from the nominal 90 to 110 psig. The excessive pressure caused a safety relief valve to open and remain open until the nitrogen supply was isolated.</i>
19801031	Unit 1	<i>Two-stage Target relief valve A spuriously opened and depressurized the reactor coolant system. Excessive pressure in the nitrogen supply to the pneumatic operator caused SRV A to open and remain open.</i>
19801031	Unit 1	<i>Excessive pressure in the nitrogen supply system caused a safety-relief valve on a main steam line to spuriously open and remain open.</i>
19801031	Unit 1	<i>A safety relief valve stuck open.</i>
19801007	Unit 1	<i>Two-stage Target relief valve A spuriously opened and depressurized the reactor coolant system. Excessive pressure in the nitrogen supply to the pneumatic operator caused SRV A to open and remain open.</i>

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Date	Reactor	Event Description
19801007	Unit 1	<i>Excessive pressure in the nitrogen supply system caused a safety-relief valve on a main steam line to spuriously open and remain open.</i>
19801007	Unit 1	<i>A safety relief valve stuck open.</i>
19801005	Unit 1	<i>The unit was connected to the electrical grid to end a 119 hour outage.</i>
19801001	Unit 1	<i>Following a reactor scram on high radiation in the main steam lines, a safety relief valve stuck open.</i>
19800930	Unit 1	<i>The reactor automatically scrammed on high radiation in the main steam lines. Workers attributed the high radiation to an air bubble in the feedwater system.</i>
19800901	Unit 1	<i>The unit was connected to the electrical grid.</i>
19800830	Unit 1	<i>The reactor was shut down due to a leaking tube in a feedwater heater.</i>
19800801	Unit 1	<i>Two-stage Target relief valve D failed to open, and later failed to close, in response to a demand by the operator from the main control room. The valve was disassembled and inspected, but no discrete cause for its failure was identified.</i>
19800725	Unit 1	<i>Two-stage Target relief valve D failed to open in response to a demand by the operator from the main control room. During fabrication, excessive application of Loc-Tite caused the solenoid plunger to adhere to the bonnet, preventing pneumatic pressure from entering.</i>
19800519	Unit 1	<i>The unit was connected to the electrical grid to begin operating cycle</i>
19800328	Unit 1	<i>Workers performed ultrasonic examination of all 20 jet pump hold-down beams following the failure of a jet pump assembly at Dresden Unit 3 and found crack indications in three beams.</i>
19800223	Unit 1	<i>At 3:30 am, two individuals were observed via closed circuit television climbing the protected area fence adjacent to the contractors alternate access control entrance. Security guards responded, but failed to locate and identify the intruders. At the time, about 300 contractor employees were onsite. All persons onsite were checked and confirmed to be properly badged. All vital area doors were locked/alarmed or manned.</i>
19800131	Unit 1	<i>The company informed the NRC about 5 cracks found in the upper core spray sparger and 2 cracks found in the lower core spray sparger.</i>
19800105	Unit 1	<i>The operators shut down the reactor to enter refueling outage</i>

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Date	Reactor	Event Description
19791217	Unit 1	<i>A new fuel assembly was accidentally dropped in the spent fuel pool. The reactor building overhead crane was being used to move new fuel assemblies from the inspection stand to storage racks in the spent fuel pool. The new fuel assembly struck the top edge of the storage rack, causing it to slip off the hook. The new fuel assembly fell onto the storage rack, hitting four fuel assemblies.</i>
19791211	Unit 1	<i>The reactor building overhead crane was being used to move new fuel assemblies from the inspection stand to storage racks in the spent fuel pool. After placing a new fuel assembly into a storage rack, the hook accidentally latched onto a spent fuel assembly. Worker unknowingly lifted the spent fuel assembly out of its storage rack. The irradiated fuel assembly was raised high enough to set off the radiation alarms on the refueling floor.</i>
19791025	Unit 1	<i>The reactor automatically scrammed when a pressure switch in the reactor building was bumped during a surveillance test.</i>
19791015	Unit 1	<i>The reactor automatically scrammed after feedwater pumps tripped on low suction pressure.</i>
19790828	Unit 1	<i>A lightning strike caused a loss of offsite power.</i>
19790828	Unit 1	<i>The reactor automatically scrammed when a lightning strike caused a loss of offsite power.</i>
19790804	Unit 1	<i>The operators manually shut down the reactor to repair a feedwater heater leak.</i>
19790731	Unit 1	<i>The unit was connected to the electrical grid.</i>
19790727	Unit 1	<i>A lightning strike caused a loss of offsite power.</i>
19790727	Unit 1	<i>The reactor automatically scrammed on loss of offsite power due to a lightning strike.</i>
19790721	Unit 1	<i>The reactor automatically scrammed on low condenser vacuum during a condenser backwash operation.</i>
19790717	Unit 1	<i>The unit was connected to the electrical grid to end a 153 hour outage.</i>
19790711	Unit 1	<i>The operators manually scrammed the reactor to repair a leaking weld in the control rod drive return line.</i>

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Date	Reactor	Event Description
19790711	Unit 1	<i>At 7:20 am, a radiation waste truck arrived at the main gate. Security guards searched the truck and checked it for contamination. The truck entered the protected area under armed escort. The truck entered the reactor building truck bay at approximately 8:30 am. At 9:30 am, the escorting guard discovered the driver's 15-year-old nephew asleep in the truck cab's sleeper section. The security guard who had searched the truck at the main gate was suspended.</i>
19790708	Unit 1	<i>The operators manually scrammed the reactor to repair a leak in the hydraulic system for a main steam isolation valve (MSIV).</i>
19790618	Unit 1	<i>The unit was connected to the electrical grid to end a 40 hour outage.</i>
19790616	Unit 1	<i>The operators manually scrammed the reactor to replace a weeping safety relief valve.</i>
19790530	Unit 1	<i>The unit was connected to the electrical grid to end a 437 hour outage.</i>
19790512	Unit 1	<i>The operators manually scrammed the reactor for snubber inspections.</i>
19790330	Unit 1	<i>The unit was connected to the electrical grid to end a 110 hour outage.</i>
19790325	Unit 1	<i>The reactor automatically scrammed due to reactor water level control fluctuation. The outage was extended by maintenance on the source range monitors and intermediate range monitors.</i>
19781130	Unit 1	<i>Two control rods with slow insertion times attributable to scram pilot valves with Buna-N material were reported to the NRC.</i>
19781030	Unit 1	<i>The reactor automatically scrammed during turbine control valve testing.</i>
19781028	Unit 1	<i>The reactor automatically scrammed due to a generator exciter ground fault.</i>
19781027	Unit 1	<i>The unit was connected to the electrical grid to end an outage lasting 18 days.</i>
19781009	Unit 1	<i>The reactor automatically scrammed due to a turbine trip from actuation of the differential overcurrent relay.</i>
19780915	Unit 1	<i>The reactor automatically scrammed due to a surveillance testing error.</i>
19780817	Unit 1	<i>The reactor automatically scrammed due to a spurious low water level in the reactor vessel signal.</i>

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Date	Reactor	Event Description
19780806	Unit 1	<i>The reactor automatically scrammed from 100 percent power when lightning struck transmission lines causing a loss of offsite power. The emergency diesel generators automatically started and connected to their electrical buses. The operators manually started the reactor core isolation cooling (RCIC) and high pressure coolant injection (HPCI) systems to maintain reactor water level. The operators opened a safety relief valve to control reactor pressure. Offsite power was restored about 30 minutes later.</i>
19780806	Unit 1	<i>The reactor automatically scrammed when offsite power was lost due to a storm.</i>
19780630	Unit 1	<i>One control rod with a slow insertion times attributable to a scram pilot valve with Buna-N material were reported to the NRC.</i>
19780507	Unit 1	<i>The unit was connected to the electrical grid to end a 178 hour outage.</i>
19780429	Unit 1	<i>The operators manually scrammed the reactor for repairs to a main steam isolation valve (MSIV).</i>
19780412	Unit 1	<i>The unit was connected to the electrical grid to end a 85 hour outage.</i>
19780407	Unit 1	<i>The reactor automatically scrammed on an average power range monitor (APRM) flux signal.</i>
19780305	Unit 1	<i>The reactor automatically scrammed during a pressure transient.</i>
19780206	Unit 1	<i>The reactor automatically scrammed from 24 percent power when high winds and ice buildup caused all transmission lines to fail.</i>
19780206	Unit 1	<i>The reactor automatically scrammed when heavy snowfall caused electrical breakers in the 345 kilovolt switchyard to flashover and trip.</i>
19780121	Unit 1	<i>Workers began replacing unqualified electrical connectors.</i>
19780110	Unit 1	<i>The operators manually shut down the reactor for NRC-mandated replacement of unqualified drywell penetration electrical cable connectors.</i>
19771216	Unit 1	<i>The reactor automatically scrammed as planned during a turbine overspeed trip test.</i>
19771212	Unit 1	<i>The NRC met with the company and proposed operating the reactor at up to 50 percent power until unqualified electrical connectors could be replaced during the next outage (January 21, 1978).</i>

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Date	Reactor	Event Description
19771212	Unit 1	<i>The unit was connected to the electrical grid to end an outage that began on November 17, 1977. The reactor power level was limited to 50 percent due to condensate demineralizer resin trapped in the high pressure feedwater heaters.</i>
19771123	Unit 1	<i>Two workers entered what they thought was the clean waste tank room inside the radwaste facility. Recognizing their assigned instructions and description of the work area did not match what they were seeing, the workers left the room within six minutes. They had inadvertently entered the sludge tank room and received radiation exposures of 2.91 rem and 3.56 rem. The sludge tank room had been locked because of its high radiation hazard, but the workers had been able to reach through the barricade and defeat the lock to open the door.</i>
19771122	Unit 1	<i>The operators manually scrammed the reactor for maintenance on the condensate demineralizers.</i>
19771117	Unit 1	<i>The reactor automatically scrammed on low water level in the reactor vessel caused by high differential pressure across the condensate demineralizers (and reduced feedwater flow to the reactor vessel).</i>
19771114	Unit 1	<i>The reactor began operating cycle 4.</i>
19771104	Unit 1	<i>The Union of Concerned Scientists (UCS) filed a 2.206 petition with the NRC based on electrical connector tests recently conducted by the Sandia National Laboratory. UCS contended that the electrical connectors were incapable of functioning in the environmental conditions following an accident and that, as a result, the equipment relying on these electrical connectors would be disabled.</i>
19770806	Unit 1	<i>The operators manually shut down the reactor for refueling outage 3. During the outage, workers replaced all 428 7x7 fuel bundles remaining from the original core loading with 8x8 fuel bundles. The condenser tubes were replaced with titanium tubes. The stainless steel piping in the core spray system was replaced with carbon steel piping.</i>
19770802	Unit 1	<i>While spent fuel pool resin was being transferred to the spent resin storage tank, radioactively contaminated water flowed through an open vent valve onto the pavement outside the radwaste truck lock door. The spilled water was mopped up and the contaminated asphalt paved over.</i>
19770510	Unit 1	<i>The reactor was shut down for maintenance on augmented offgas system valves.</i>
19770501	Unit 1	<i>The reactor automatically scrammed on loss of offsite power caused by a forest fire.</i>

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Date	Reactor	Event Description
19770323	Unit 1	<i>The reactor automatically scrammed on high main steam line flow with one main steam isolation valve (MSIV) closed during a test.</i>
19770228	Unit 1	<i>A fire occurred in the undervoltage coil of a circuit breaker due to high floating charge on a station battery.</i>
19770202	Unit 1	<i>The operators manually scrammed the reactor to repair damage caused by high chloride levels in the hotwell from sea water in-leakage.</i>
19770201	Unit 1	<i>The unit was connected to the electrical grid to end a 109 hour outage.</i>
19770128	Unit 1	<i>The operators manually shut down the reactor to repair gasket and pipe leaks in the condenser bay area.</i>
19761124	Unit 1	<i>The operators manually scrammed the reactor when an operator error de-energized electrical bus B-1 causing high drywell pressure.</i>
19760924	Unit 1	<i>Approximately 10 to 20 gallons of radioactively contaminated water leaked on a hole punched into a 55-gallon drum of spent resin by a barrel jack. The area was decontaminated.</i>
19760718	Unit 1	<i>The operators manually scrammed the reactor to repair a leaking thermocouple cap on the high pressure turbine.</i>
19760610	Unit 1	<i>Approximately 150 gallons of radioactively contaminated water overflowed a disposable resin cask on a truck and spilled onto the ground outside the radwaste building. About 400 square feet were contaminated. Workers confined the spill with vermiculite and commenced cleanup.</i>
19760603	Unit 1	<i>The reactor automatically scrammed on low condenser vacuum.</i>
19760601	Unit 1	<i>The reactor automatically scrammed when turbine combined intercept valve No. 1 closed due to an oil supply problem.</i>
19760601	Unit 1	<i>The reactor began operating cycle 3. Due to high offgas radioactivity levels, the reactor power level was limited to 75 percent most of the year.</i>
19760127	Unit 1	<i>The operators manually scrammed the reactor due to malfunction of the drywell to torus vacuum breaker limit switches. The forced outage transitioned directly into refueling outage 2.</i>
19760119	Unit 1	<i>The operators manually scrammed the reactor due to loss of instrument air caused by a sluggish valve to the air dryer.</i>

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Date	Reactor	Event Description
19760118	Unit 1	<i>The unit was connected to the electrical grid to end a 312 hour outage.</i>
19760105	Unit 1	<i>The reactor automatically scrammed on low water level in the reactor vessel when the feedwater control system locked up when operators transferred a power supply from normal to alternate.</i>
19751031	Unit 1	<i>Due to high offgas radioactivity levels, the reactor power level was limited to 60 percent.</i>
19750930	Unit 1	<i>Approximately 1-2 gallons of radioactively contaminated water spilled from a truck moving a metal cask filled with radioactive diatomaceous earth.</i>
19750913	Unit 1	<i>The operators were shutting down the reactor when the turbine tripped. During the ensuing in-plant electrical power transfers, blown fuses de-energized the startup and auxiliary 345 kilovolt lines, causing a loss of offsite power and an automatic reactor scram. The emergency diesel generators (EDGs) automatically started and were connected to the safety-related electrical buses. A relief valve (203-2B) opened and stuck open due to steam cutting the pilot valve assembly. The reactor pressure dropped to approximately 300 pounds per square inch gauge.</i>
19750913	Unit 1	<i>The reactor automatically scrammed when the 345 kilovolt transmission line was lost.</i>
19750910	Unit 1	<i>The reactor automatically scrammed due to a power interruption during a power supply transfer evolution.</i>
19750818	Unit 1	<i>The reactor automatically scrammed on low condenser vacuum due to debris blocking cooling water flows.</i>
19750809	Unit 1	<i>The operators manually shut down the reactor to repair two leaking offgas system valves.</i>
19750805	Unit 1	<i>The reactor automatically scrammed during condenser vacuum functional surveillance testing.</i>
19750720	Unit 1	<i>The operators manually scrammed the reactor for replacement of a main steam relief valve.</i>
19750718	Unit 1	<i>The operators manually shut down the reactor to repair a leaking reactor water cleanup (RWCU) valve inside the drywell.</i>
19750706	Unit 1	<i>The unit was connected to the electrical grid to end a 134 hour outage. Due to high offgas radioactivity levels, the reactor power level was limited to 70 percent.</i>

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Date	Reactor	Event Description
19750630	Unit 1	<i>The operators manually shut down the reactor to repair a leaking feedwater regulating valve.</i>
19750522	Unit 1	<i>The operators manually scrammed the reactor for repairs to leaking valves inside the drywell.</i>
19750507	Unit 1	<i>The unit was connected to the electrical grid to end a 96 hour outage.</i>
19750503	Unit 1	<i>The reactor automatically scrammed due to a false indication of high water level in the reactor vessel during performance of routine maintenance on the feedwater control system.</i>
19750430	Unit 1	<i>The unit was connected to the electrical grid to end a 168 hour outage.</i>
19750423	Unit 1	<i>The operators manually shut down the reactor to replace two main steam relief valves.</i>
19750421	Unit 1	<i>The unit was connected to the electrical grid to end a 128 hour outage.</i>
19750416	Unit 1	<i>The operators manually shut down the reactor to repair steam leaks.</i>
19750222	Unit 1	<i>The reactor automatically scrammed during average power range monitor (APRM) surveillance testing.</i>
19750212	Unit 1	<i>The unit was connected to the electrical grid to end a 2 week scheduled outage. Due to high offgas radioactivity levels, the reactor power level was limited to 80 percent.</i>
19750130	Unit 1	<i>The operators manually shut down the reactor for inspections of piping welds.</i>
19750126	Unit 1	<i>The unit was connected to the electrical grid to end a 2 week scheduled outage,</i>
19750112	Unit 1	<i>The operators manually scrammed the reactor to replace a recirculation pump seal.</i>
19741217	Unit 1	<i>The unit was connected to the electrical grid to end a 102 hour scheduled outage.</i>
19741213	Unit 1	<i>The operators manually scrammed the reactor for maintenance to replace a recirculation pump seal.</i>
19741130	Unit 1	<i>The augmented offgas system was placed in service.</i>
19741102	Unit 1	<i>The operators manually shut down the reactor for maintenance to replace two main steam safety/relief valves.</i>

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Date	Reactor	Event Description
19741028	Unit 1	<i>The unit was connected to the electrical grid to end a 2.5 day scheduled outage.</i>
19741025	Unit 1	<i>The operators manually scrammed the reactor for maintenance to replace a recirculation pump seal.</i>
19740922	Unit 1	<i>The unit was connected to the electrical grid to end a 4.5 day scheduled outage.</i>
19740917	Unit 1	<i>The operators manually scrammed the reactor for maintenance to replace a recirculation pump seal and inspection recirculation bypass piping.</i>
19740826	Unit 1	<i>Two shots were heard, the second sounding like an explosion. Investigation determined that a 12-inch by 3-inch propane tank had been tied to a tree about 200 feet from the security perimeter fence and then fired upon.</i>
19740118	Unit 1	<i>During refueling, workers began fuel sipping and identified 20 leaking fuel bundles.</i>
19731231	Unit 1	<i>An irradiated fuel bundle became detached from the grapple and fell into the spent fuel pool. The fuel bundle was not properly latched in the grapple.</i>
19731228	Unit 1	<i>Operators shut down the reactor to comply with an AEC Order requiring inspections of fuel channels and replacement of damaged channels.</i>
19731217	Unit 1	<i>AEC issues an Order to Boston Edison requiring Pilgrim to be shut down no later than December 23, 1973, to resolve a concern about fuel channel boxes</i>
19731130	Unit 1	<i>Operators reduced the reactor power level to about 95 percent during the last half of the month to reduce the radioactive release level from the offgas system.</i>
19731016	Unit 1	<i>The AEC notified Boston Edison in writing that Pilgrim could operator for about 60 days limited to 50 percent power due to fuel channel wear problems.</i>
19731006	Unit 1	<i>Following identification of excessive fuel channel wear at KKM in Switzerland in August 1973 and at Vermont Yankee in September 1973, Boston Edison agreed to limit reactor operation to implement a recommendation by General Electric to minimize fuel channel wear. Operators reduced reactor power to 50 percent of rated.</i>
19721201	Unit 1	<i>Unit placed into commercial operation</i>
19720915	Unit 1	<i>The AEC issued an operating license</i>
19720719	Unit 1	<i>Reactor output connected to the electrical grid for the first time</i>
19720616	Unit 1	<i>Initial criticality of the reactor core achieved</i>

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Date	Reactor	Event Description
19680826	Unit 1	<i>The AEC issued the construction permit.</i>
19670630	Unit 1	<i>The construction permit application was submitted</i>
19650920	Unit 1	<i>Boston Edison representatives met with the AEC Division of Reactor Licensing to discuss the design of a reactor proposed for an as yet undetermined site. Boston Edison representatives reported that the design was based on the Oyster Creek design with the following differences: (1) internal jet pumps for reactor recirculation flow, (2) both core spray and core flooding systems would be provided, (3) a control rod velocity limiter would protect against control rod drop accidents, (4) flow restrictors would be provided in the main steam lines to limit flow to 200 percent in event of a break, and (5) control rod drive housings would be supported to prevent a control rod from being ejected if a drive nozzle failed.</i>
19650807	Unit 1	<i>Plans for the reactor were announced</i>

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