

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)			
Event Date	Site	INES Rating	Event Title
02/04/2012	Hartlepool	0	Reactor 1 operated at 50% feed flow due to condensor water leak.
04/04/2012	Dungeness B	0	Anomaly in orientation of valve piston rings
04/04/2012	Torness	0	Loss of pressure on decay store tube.
05/04/2012	Hartlepool	0	Steam leak on valve caused reactor and boiler to be taken out of service to allow repair
05/04/2012	Sizewell B	0	Approximately 15% underestimation of C-14 gaseous discharges
06/04/2012	Dungeness B	0	Fire in fuelling machine maintenance bay.
06/04/2012	Heysham 1	0	During lifting, pile cap shield slab fell by approx 10 mm
08/04/2012	Heysham 2	0	Total of 11 secondary shield flood slabs lifted contrary to requirement of technical specification that only permits removal of 10 slabs
12/04/2012	Heysham 1	0	Oil pump found not to be selected to auto mode as expected.
08/04/2012	Heysham 1	0	Planned maintenance activity unintentionally led to unavailability of gas circulator.
13/04/2012	Sizewell B	0	Contractor slipped while making phone call while walking.
15/04/2012	Torness	0	Incorrect setting of gags led to unexpected temperatures in adjacent cells
30/04/2012	Sizewell B	0	Outstanding operability issue on essential diesel generator not fully addressed by maintenance before return to service.
07/05/2012	Heysham 2	0	Incorrect torque setting caused a locking plate on the emergency diesel generator to work loose.
02/05/2012	Hinkley Point B	0	Computer 'scanning timeout' triggered alarm.
03/05/2012	Hinkley Point B	0	Reactor fuel channel gag set a small amount outside allowable limit.
04/05/2012	Heysham 1	0	Crane rope had kinks.
07/05/2012	Dungeness B	0	Potential collision / interaction of plant items identified upon over-speed fault condition of fuelling machine cross- travel drive.
12/05/2012	Sizewell B	0	Low-level oil alarm on cooling pump motor.
13/05/2012	Torness	0	Spurious trip of electrical board caused reactor shutdown.
14/05/2012	Torness	0	Two vent valves failed to open during post-trip sequence.
13/05/2012	Torness	0	Spurious signal to control system caused regulating group 2 rods to drive in.
14/05/2012	Sizewell B	0	Capacitors changed without completing engineering change process.
11/05/2012	All EDF Sites	0	Some condition reports not being considered for notification to ONR.
15/05/2012	Heysham 1	0	Increased oxygen level not addressed within action level timescales.
15/05/2012	Sizewell B	0	Bolts found sheared off on the exhaust stack of emergency diesel generator 4.
15/05/2012	Torness	0	While transferring electrical supplies, trip occurred on quadrant protection system.
16/05/2012	Hinkley Point B	0	Smoke observed in area of power turbine exhaust during gas turbine operational test run.
16/05/2012	Torness	0	Adverse trend noted relating to pressure seal leaks on bypass valves.
18/05/2012	Heysham 1	0	Pressure gauge isolation valve found in incorrect shut configuration.
22/05/2012	Torness	0	Post-trip sequencing equipment operated unexpectedly during maintenance work.
23/05/2012	Torness	0	Reactor variable frequency convertor failed in service.
25/05/2012	Heysham 1	0	New fault sequence identified associated with extreme flood event.
25/05/2012	Torness	0	Auxiliary boilers returned to service post refuelling without due cognisance of ongoing work on steam main.
28/05/2012	Hinkley Point B	0	Individual slip and injury from flask vehicle.
28/05/2012	Torness	0	Veto designed to inhibit operation of chloride ingress protection system not removed following maintenance activity.
05/06/2012	Torness	0	Possible deformation of thermal insulation supporting ring noted.

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30/05/2012	Hinkley Point B	1	Preload over tension switches failed to stop hoist.
08/06/2012	Heysham 1	0	Failure to fit seals during maintenance activity.
09/06/2012	Torness	0	Loss of power supply for 1 to 2 minutes.
12/06/2012	All EDF Sites	0	Impact loading on floor from dropped fuel boxes not specifically assessed.
15/06/2012	Heysham 1	0	Failure of fixed jet fire pumps 1 and 2.
16/06/2012	Hunterston B	0	Charged machine hoist not auto stopping.
17/06/2012	Hunterston B	0	Revised checklist failed to capture all requirements from checklists it superseded.
26/06/2012	Heysham 2	0	Fuel channel gag outside of normal parameters.
22/06/2012	Dungeness B	0	Reactor tripped following feed flow transient.
28/06/2012	Torness	0	Evidence of thermal fatigue cracking found on hot reheat air release branch.
26/06/2012	Heysham 1	0	Electrical protection equipment resulted in reactor automatic trip.
26/06/2012	Torness	0	Motor earth fault occurred.
28/06/2012	Heysham 1	0	Lightning struck site.
06/07/2012	Hartlepool	0	Leaking feed valve identified following reactor return to service.
02/07/2012	Hinkley Point B	0	Automatic hoist speed reduction failed to operate.
01/07/2012	Hinkley Point B	0	Hoist underload alarm triggered due to attempt to lower non-fuel load into full buffer store position.
03/07/2012	Sizewell B	0	Failure to deliver technical surveillance for two months.
02/07/2012	Torness	0	Information on fuel flask packing sheet inaccurate.
04/07/2012	Torness	0	Safety relief valve set to incorrect pressure setting.
09/07/2012	Heysham 1	0	Steam leak from boiler main feed isolation valve.
08/07/2012	Sizewell B	0	Power spike caused control room alarms to sound.
09/07/2012	Sizewell B	0	An extreme rainfall event occurred (estimated at 50 mm of rain in 2-hour period)
11/07/2012	Heysham 1	0	Fall from ladder.
13/07/2012	Hartlepool	0	Steam containment door left open.
18/07/2012	Sizewell B	0	Voltage drop initiated automatic reactor trip.
19/07/2012	Hinkley Point B	0	Vaporiser and pump tripped during return to service testing.
20/07/2012	Hartlepool	0	Water extraction pumps found to be in shutdown state.
21/07/2012	Heysham 1	0	Water extraction pumps found to be in shutdown state.
22/07/2012	Dungeness B	0	Reserve feedwater tank level fell below level required by technical specification.
30/07/2012	Heysham 1	0	Carbon dioxide plant CO2 pressure level discrepancies identified.
23/07/2012	Heysham 1	0	Tank failed to drain down during investigation of gas drier performance issues.
25/07/2012	Hartlepool	0	Cooling fault alarm received in control room.
24/07/2012	Heysham 1	1	Drop of mechanical plug by approximately 1 m when lifting point (eye bolt) failed.
30/07/2012	Heysham 1	0	Discharge route from safety relief valve isolated as a result of temporary modification.
31/07/2012	Sizewell B	0	Instrument spike led to activation of control room ventilation isolation system.
31/07/2012	Sizewell B	0	Main control room alarm received.
03/08/2012	Sizewell B	0	Spike occurred on control building main control room ventilation frost coil particulate radioactivity element.
04/08/2012	Dungeness B	0	Reactor tripped as gas circulator speeds were increased.
05/08/2012	Torness	0	Faults detected during testing of post-trip sequencing equipment.

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06/08/2012	Sizewell B	0	System testing not completed within six-hour timescale, leading to automatic operation of primary protection system breakers.
07/08/2012	Heysham 1	0	Replacement motors installed without formally completing engineering change process.
07/08/2012	Hunterston B	0	Omissions identified in document.
07/08/2012	Sizewell B	0	Spurious control room ventilation Isolation Signal initiating alarm.
10/08/2012	Heysham 2	0	Potential breach of fire seal
12/08/2012	Heysham 1	0	Chain block failure caused load to be lowered onto floor.
17/08/2012	Dungeness B	0	Manual trip due to problems with Main Boiler Feed Pump (MBFP). Subsequent minor fire on MBFP.
27/05/2012	Heysham 1	0	Notable step change observed in temperature readings during return to service of reactor.
17/08/2012	Torness	0	Technicians smelled smoke in turbine hall.
20/08/2012	Heysham 2	0	Channel gag indication outside of normal parameters.
21/08/2012	Sizewell B	0	Operational procedures not updated to capture full requirements to photograph fuel storage ponds at end of fuel movements.
24/08/2012	Dungeness B	0	Minor fire of residue-coating materials stored in can.
26/08/2012	Dungeness B	0	Conflict with procedural requirements identified.
28/08/2012	Dungeness B	0	Cross connection between two tanks incorrectly configured due to error in procedure.
29/08/2012	Hinkley Point B	0	Multiple panel alarms.
30/08/2012	Heysham 2	0	Low Ph results obtained from reactor water sampling.
05/09/2012	Dungeness B	0	Reactor tripped as gas circulator speeds were being increased.
11/09/2012	Heysham 1	0	Gas turbine fire system rendered inoperable to facilitate plant checks.
13/09/2012	Hinkley Point B	0	Indication of very low levels of contamination led to test of HEPA filters, which subsequently failed their filtration integrity test.
16/09/2012	Heysham 2	0	While completing log for fuel build, technician identified fuel anomaly.
19/09/2012	Sizewell B	0	Actuation of a spurious control room ventilation Isolation Signal (CRVIS).
20/09/2012	Sizewell B	0	Spurious ventilation isolation signal occurred.
21/09/2012	Sizewell B	0	Fuel storage pond level element produced poor data.
23/09/2012	Sizewell B	0	Spike occurred on the control building ventilation frost coil outlet iodine radioactivity element.
25/09/2012	Torness	0	Links on hoist chain noted as showing excessive wear.
25/09/2012	Torness	0	Data input error to safety case assessment tool identified.
10/10/2012	Heysham 2	0	Fuelling machine underload settings 3 kg out of tolerance.
03/10/2012	Hinkley Point B	0	Valves found to be incorrectly configured to test position.
29/09/2012	Sizewell B	0	Spurious control room signal caused by spike on main control room ventilation frost coil outlet particulate radioactivity element.
03/10/2012	Heysham 1	0	Crane hook collided with crane steel frame.
02/10/2012	Sizewell B	0	Calculations and inspection determined wall thickness on tanks less than that expected.
04/10/2012	Hunterston B	0	Electrical fault caused system failures and localised electrical damage.
04/10/2012	Hartlepool	1	Gas circulator lubricating oil fire system was found, on routine inspection, to be in a closed position.
05/10/2012	Heysham 1	0	Loss of power supply to reactor data processing system.
05/10/2012	Hinkley Point B	0	Protestors set up camp at site outer gate.
12/10/2012	Hartlepool	0	Gas turbine and fixed jet fire system made unavailable and prepared for deluge test without proper approval for work.
13/10/2012	Heysham 1	0	Reactor tripped due to leak on cooling water system.

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13/10/2012	Sizewell B	0	Emergency stop pushbutton did not isolate power from fuel handling machine motor controller.
16/10/2012	Sizewell B	0	Electrical defect identified with potential to affect site's 400 Kv supply.
22/10/2012	Sizewell B	0	Sulphate contamination identified in steam generators.
20/11/2012	Dungeness B	0	Technician began excavation work into fire barrier without confirmation that a valid fire barrier assessment was in place.
25/10/2012	Hinkley Point B	0	No spare voltage tripping indicator available to repair safety maintenance motor generator set.
23/10/2012	All EDF Sites	0	Flask touch up paint anomaly corrected by Sellafield without full approval of EDF Energy.
23/10/2012	Dungeness B	0	Feed water control to boiler ran while in shut configuration.
23/10/2012	Hartlepool	0	Water extraction and analyser sample pumps found to be shut down.
24/10/2012	Hinkley Point B	0	Noisy gas circulator main lubricating oil pump.
25/10/2012	Heysham 1	1	Misalignment of valves identified.
26/10/2012	Dungeness B	1	Renotification due to recategorisation of event reported on 26 October 2012.
26/10/2012	Dungeness B	0	Anomaly identified during reordering of bearing for eddy current brakes.
26/10/2012	Sizewell B	0	Spurious control room signal caused by spike on main control room ventilation frost coil outlet particulate radioactivity element.
27/10/2012	Dungeness B	0	Auxiliary transformer alarm initiated.
27/10/2012	Hinkley Point B	0	Manual shutdown of reactor due to fault on gas circulator rundown pump.
30/10/2012	Dungeness B	1	Groundwater sample showing elevated levels of tritium.
31/10/2012	Heysham 2	0	Turbine governor valve stuck partially open.
01/11/2012	Heysham 2	0	Waste drum found to have additional item within not declared on transport documentation.
01/11/2012	Heysham 1	0	Fault occurred with reactor computer control system. Reactor shut down to allow investigation.
03/11/2012	Sizewell B	0	Incorrect calibration data used for secondary protection power range detectors.
30/11/2012	Sizewell B	0	Discharge relief valve passing.
12/11/2012	Torness	0	Wrong technical specification entered after maintenance activity.
05/11/2012	Dungeness B	1	Incorrect service rod fitted during previous overhaul.
05/11/2012	Sizewell B	0	Spurious actuation of control room ventilation isolation signal.
08/11/2012	Heysham 1	0	Crane 'long travel' brake potentially binding.
14/11/2012	Sizewell B	0	Seismic restraints found to be unsecured on battery unit.
14/11/2012	Torness	0	CO2 in air alarms initiated – analyser defect identified.
18/11/2012	Dungeness B	1	Safety case shortfall identified in assessment of flood heights following Japanese tsunami.
22/11/2012	Torness	0	Weekly test indicated pager system did not activate as expected on 16 out of 22 pagers.
27/11/2012	Dungeness B	0	Loss of gas circulator main motors during maintenance
28/11/2012	Hinkley Point B	0	Following return to service, technical specification action tracking log had not been updated so did not reflect plant state.
27/11/2012	Sizewell B	1	Gap identified in fire seal.
30/11/2012	Torness	0	Maintenance identified pressure transmitter incorrectly set or primed.
01/12/2012	Hinkley Point B	0	Fire jacket not reinstated following planned work, and its unavailability was not entered into technical specification action tracking log.
06/12/2012	Hunterston B	0	Technical specification compliance breach identified when cable tunnels accessed for maintenance.

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11/02/2013	Hartlepool	0	Fuel box found to have number of loose bolts.
05/12/2012	Dungeness B	0	Interconnector switch between two electrical switchboards left in wrong (closed) configuration.
05/12/2012	Hartlepool	0	Degraded condition of screw chain limit switch.
05/12/2012	Hinkley Point B	0	Incorrect instructions on valve identification plaque led to incorrect configuration setting for valve.
07/12/2012	Heysham 2	0	Turbine governor valves mispositioned
06/12/2012	Sizewell B	0	Temporary power transient on off site switching of 400 KV national grid
10/12/2012	Hinkley Point B	0	Misalignment of control rod position caused control rod bulk group 2 misalignment alarm.
10/12/2012	Heysham 2	0	Site Incident conservatively declared on suspect CO2 release. Subsequently identified as steam leak.
12/12/2012	Heysham 2	0	Incorrect valve labelling resulted in incorrect firefighting system being isolated for planned work.
13/12/2012	Dungeness B	0	Groundwater sample showing elevated levels of tritium.
15/12/2012	Torness	0	During investigation into hoist trip fault, replacement electronic cards were identified as having incorrect configuration.
17/12/2012	Hinkley Point B	0	Reactor 3 manually shut down due to hydrogen leak.
20/12/2012	Hinkley Point B	0	During off site emergency scheme training an individual had an accident and needed to go to hospital.
19/12/2012	Sizewell B	0	Actuation of spurious control room ventilation Isolation Signal.
23/12/2012	Heysham 1	0	Reactor 1 automatically tripped following initiation of main generator electrical protection.
23/12/2012	Hartlepool	0	Fuel flask found contaminated on arrival at site.
28/12/2012	Hartlepool	0	Local control panel isolator selected to 'off', meaning battery charger not in service. Battery was supporting supplies and had run down to low volt alarm level.
22/11/2012	Heysham 1	0	Equipment in use beyond calibration date.
30/12/2012	Torness	0	Diesel generator declared unavailable following failure to satisfactorily complete test.
31/12/2012	Torness	0	Control valve not responding to falling deaerator level, with manual attempts to operate it unsuccessful. Unit was manually shutdown.
02/01/2013	Sizewell B	0	Unplanned trip due to failure of shrouded connection link.
02/01/2013	Torness	0	Reactor 2 tripped automatically during startup.
03/01/2013	Hartlepool	0	Unscheduled reactor outage due to fault on generator transformer.
03/01/2013	Torness	0	Safe unescorted access to site handbook found to inadequately describe outdoor emergency warnings.
07/01/2013	Dungeness B	0	Fire doors found to be of construction that did not comply with fire safety requirements.
11/01/2013	All EDF Sites	0	Procurement quality control anomaly identified.
10/01/2013	Heysham 2	0	Maintenance kits for control rod assembly maintenance identified as supplied with incorrect material specification.
12/01/2013	Dungeness B	0	Vibration and small oil leaks identified on main cooling pump.
21/01/2013	Sizewell B	0	Fire pump started unexpectedly during routine work.
23/01/2013	Dungeness B	1	Voltage regulator failed during routine test.
24/01/2013	Dungeness B	0	Voltage regulator failed during routine test.
25/01/2013	Heysham 1	0	Heat detection system on steam pressure control valve found to be vetoed (such that alarms from this detector would not operate).
27/01/2013	Hartlepool	0	High and low range CO2 flow transmitters found to have been isolated.

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28/01/2013	Torness	0	Total of 44 cells on station battery system found to have hairline cracks.
01/12/2012	Heysham 1	0	Seepage of liquid observed from slit in flask E133 pintle mastic.
30/01/2013	Hartlepool	0	Inappropriate configuration of emergency boiler feed pump isolators.
30/01/2013	Hinkley Point B	0	Filling line fire jacket (<1 m) observed to be of different material from expected.
31/01/2013	Heysham 1	0	Cable fault prevented communication equipment connection until one hour into emergency exercise.
02/02/2013	Heysham 1	0	Fuel trip valve failed to operate due to excess amount of paint over trip latch mechanism.
05/02/2013	Hinkley Point B	0	Assessment of safety of steam exhaust pipework against frequent seismic event inadequately documented.
07/02/2013	Hartlepool	0	Operation error during planned work on emergency feed header isolation valves.
19/02/2013	Hinkley Point B	0	Fire door non-conformances identified.
14/02/2013	Heysham 2	0	One of three thermocouples measuring channel gas outlet temperature unavailable.
18/02/2013	Sizewell B	0	Water system pump started automatically from standby position during operations to rotate drum screen.
19/02/2013	Sizewell B	0	Fan pulley belt found to be broken on reserve heat exchanger fan.
22/02/2013	Hunterston B	1	Manual reactor trip for interim outage generated several faults.
23/02/2013	Sizewell B	0	Crane long travel motion moved in wrong direction and speed to that expected.
24/02/2013	Sizewell B	0	Reserve ultimate heat sink declared unavailable - confirmed nearby temporary scaffolding did not inhibit airflow.
25/02/2013	Dungeness B	0	Oil purifier electrical supply cable fire reported on turbine hall basement.
27/02/2013	Dungeness B	0	During data-processing system fault finding, gradual decrease in margins to normal limits noted.
27/02/2013	Heysham 2	0	Fire seals out of position in reactor building.
27/02/2013	Torness	0	Spare pump tripped on thermal overload.
28/02/2013	Torness	0	Vent supply steam heater maintenance delayed due to defect.
02/03/2013	Sizewell B	0	Spurious control room ventilation signal caused by spike on auxiliary building ventilation filtered exhaust iodine radioactivity element.
04/03/2013	Heysham 1	0	Fault identified on main generator blue phase metering current transformer.
02/03/2013	Sizewell B	0	Spurious control room ventilation signal caused by spike on control building ventilation frost coil outlet particulate radioactivity element.
06/03/2013	Hartlepool	0	Engineer completed more of work instruction than intended, thereby taking plant out of desired configuration and technical specification.
07/03/2013	Dungeness B	0	Nitrogen injector pump found to be gas locked.
08/03/2013	Hartlepool	0	Chain block failure leading to dropped load from approx. 2 m into boiler closure unit.
11/03/2013	Hinkley Point B	0	Control room indication fault identified.
10/03/2013	Dungeness B	0	Significant CO2 leak from tank.
10/03/2013	Heysham 2	0	Fire door in turbine hall found to have been tied open.
15/03/2013	Hinkley Point B	0	Failure to make action tracking log entry (relating to isolation applied to blowdown articulate filter).
20/03/2013	Heysham 1	0	Four fuel elements initially loaded in incorrect fuel skip.
21/03/2013	Sizewell B	0	Centrifugal charging pump found to have paper filter elements, whereas metal elements should have been fitted.

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22/03/2013	Dungeness B	1	Mechanical components to protect against fuelling machine collision with hinged platforms found to have been removed.
26/03/2013	Torness	0	Condensate control valve developed fault.
27/03/2013	Torness	1	Deficiencies identified in tracking graphite weight loss.
30/03/2013	Hartlepool	0	Minor electrical connection fire on startup of fixed jet fire pump.
05/04/2013	Hinkley Point B	0	Combustion air dampers failed to open during manual run of vaporiser.
11/04/2013	Hinkley Point B	0	Fuel flask consignment note not signed by Site Movement Liaison Officer.
10/04/2013	Sizewell B	0	Spurious control room alarm caused by spike frost coil outlet particulate radioactivity element.
14/04/2013	Dungeness B	0	Review of work completion identified failed maintenance task that had not been adequately recorded.
14/04/2013	Sizewell B	0	Service water train flow fell unexpectedly.
18/04/2013	Heysham 2	0	Auxiliary boiler stack blew over in strong winds.
18/04/2013	Dungeness B	0	Due to training, shift was two fire team members short.
21/04/2013	Hartlepool	0	Turbine / generator tripped during return to service.
23/04/2013	Hunterston B	0	Townswater reinforcement pump not recognised as technical specification-related item.
24/04/2013	Sizewell B	0	Misaligned damper identified on building emergency exhaust system.
25/04/2013	Sizewell B	0	Error identified in calibration of test equipment.
26/04/2013	Sizewell B	0	Townswater reservoir and auxiliary feedwater system valves and flowpatch identified as not having been routinely tested.
27/04/2013	Hartlepool	0	Auxiliary boiler house fire suppression system initiated.
27/04/2013	Sizewell B	0	Motor and discharge valve locked out on trains A, B & D following electrical isolation.
02/05/2013	Heysham 1	0	Reactor tripped due to small pipework lagging fire.
02/05/2013	Hinkley Point B	0	Internal safety review identified issue associated with moisture control in CO2 instrumentation.
03/05/2013	Hunterston B	0	Safety pin found in wrong position in CO2 firefighting bottle, disarming it.
07/05/2013	Dungeness B	0	Fire barrier compromised.
08/05/2013	Dungeness B	0	Error in assumption about operational availability of nitrogen injection pump.
08/05/2013	Torness	0	Isolation unintentionally affected buffer air receiver.
09/05/2013	Heysham 2	0	Rising moisture levels resulted in manual trip of reactor.
10/05/2013	Sizewell B	0	Control room ventilation signal activated during filter change.
12/05/2013	Sizewell B	0	Corrosion identified on bottom liner plate of containment sump.
06/08/2013	Hartlepool	0	Valve spindles on two valves identified as being made from incorrect material.
08/05/2013	Heysham 1	0	Zone of cable race fire detection system identified as having been inhibited.
14/05/2013	Hartlepool	0	Hydrogen leak identified on generator.
15/05/2013	Dungeness B	0	Elevating tube identified as having collided with hoist motor.
28/05/2013	Dungeness B	0	Modelling established that water on site (post extreme weather conditions) was greater than previously considered in safety case.
17/05/2013	Sizewell B	0	Discrepancy between the contents of the source store and what was recorded in the inventory.
18/05/2013	Sizewell B	0	Anomaly identified in examination envelope for weld.
21/05/2013	Hinkley Point B	0	Indication lamp failed to operate.

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20/05/2013	Dungeness B	0	Active exhaust stack did not appear to have been sufficiently inspected above roof level.
21/05/2013	Dungeness B	0	Reactor taken off load following review of coastal flooding safety case.
24/05/2013	Torness	0	Reactor automatically tripped due to seaweed ingress into cooling water inlet.
28/05/2013	Heysham 2	0	Fire damper failed to operate correctly during maintenance test.
24/05/2013	Torness	0	Reactor manually tripped due to seaweed ingress into cooling water inlet.
28/05/2013	Heysham 1	0	Unclear status of defect repair on condensate polishing plant.
03/06/2013	Hinkley Point B	0	Valve identified in incorrect orientation.
20/06/2013	Sizewell B	0	Flow element orifice replaced in incorrect orientation during boric acid leak repair as part of previous outage.
04/06/2013	Hartlepool	0	Feed lost to service boilers during planned reactor shutdown.
05/06/2013	Hinkley Point B	0	CO2 leak identified near to instrument penetration during reactor outage.
12/06/2013	Dungeness B	0	Error identified in graphite weight-loss predictions.
08/06/2013	Sizewell B	0	Signatory of transport documentation had not attended approved training course.
13/06/2013	Dungeness B	0	Some fire doors identified as being 30-minute rather than 60-minute rated as required.
20/06/2013	Torness	0	Ventilation heater returned to service without statutory pressure systems inspection.
23/06/2013	Dungeness B	1	Maintenance schedule testing identified that additional feed system manual hand wheel in incorrect position.
23/06/2013	Torness	0	Anomaly with simulator.
24/06/2013	Torness	0	Tube failure during hydraulic pressure test on auxiliary boiler.
26/06/2013	Sizewell B	NR	Obsolete relay required additional relay to be added to turbine generator gas control panel.
28/06/2013	Torness	0	Procedural shortcomings in setting of selector switches on reactor control computer.
02/07/2013	Dungeness B	0	Procedure for handwinding operations not updated as expected.
02/07/2013	Heysham 2	0	Reactor tripped due to trip of protection equipment.
08/07/2013	Dungeness B	1	Plug unit closure seals dimensionally compromised.
10/07/2013	Dungeness B	1	Boiler moisture indicators had not been maintenance tested so were not available.
10/07/2013	Hinkley Point B	0	Operation technician minimum manning not achieved.
10/07/2013	Torness	0	Crane theoretically available for service for some eight days while out of its statutory inspection period.
16/07/2013	Dungeness B	0	Reactor tripped automatically during return to service.
18/07/2013	Dungeness B	0	Section of cabling had no fire wire detection system protecting it.
18/07/2013	Dungeness B	0	Fire brigade attended site due to fire alarm in services unit cable race.
18/07/2013	Hinkley Point C	NR	Radioactive source brought onto site outwith site arrangements.
19/07/2013	Dungeness B	0	Degraded fire barrier and fire wire identified in cable race.
23/07/2013	Torness	0	Swing check valve failed to close.
26/07/2013	Dungeness B	0	Boiler gas outlet temperature auto control would not engage.
25/07/2013	Torness	0	During defect maintenance of CO2 storage plant safety relief valve it was identified that no jointing seal was fitted.
27/07/2013	Dungeness B	0	Automatic trip of Reactor 21 occurred.

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Event Date	Site	INES Rating	Event Title
28/07/2013	Torness	0	Protection power supply failed which caused guardline to trip.
01/08/2013	All EDF Sites	0	Strategic coordination centre at Prestwick airport found to have number of data / telecoms systems issues.
02/08/2013	Torness	0	Governor valve did not close fully.
30/07/2013	Sizewell B	0	Actuator gas pressure fell continuously indicating valve movement.
02/08/2013	Heysham 2	0	Failure to record evidence of compliance reviews.
06/08/2013	Torness	0	Thinning of fuel store cooling system head tank.
07/08/2013	Hunterston B	0	Protection setting on 1 channel above the value advised by Nuclear Safety Group, but within thermal power limits.
09/08/2013	Torness	0	Foam compound found not to meet required standard.
21/08/2013	Dungeness B	0	Loose bolts found on empty fuel element bottle stillage that had been transported.
23/08/2013	Dungeness B	0	During servicing of fuel plug unit, dowels incorrectly labelled.
14/08/2013	Torness	0	Boundary monitoring system showed failure in several areas.
15/08/2013	Hartlepool	0	Earth fault affecting sounding of evacuation / emergency alarms identified.
07/10/2013	Dungeness B	0	Fuel assembly crimping operation conducted in error with neutron scatter plug present.
23/08/2013	Heysham 1	1	Fire system operated during test run of gas turbine.
29/08/2013	Hartlepool	0	Safety case shortfall identified following Heysham A event of 22 August 2013.
23/08/2013	Sizewell B	0	Emergency exhaust fan failed to start during routine test.
29/08/2013	Heysham 1	0	Some valves found to be operating at incorrect pressures during testing.
27/08/2013	Sizewell B	0	Exhaust fan failed to start due to fault with flow switch.
28/08/2013	Heysham 2	0	Dropped stringer reactor trip system channel tripped even though all indications on fuelling machine were healthy.
29/08/2013	Dungeness B	0	Suspected failure of accumulator.
29/08/2013	Sizewell B	0	Cooling water outlet pressure relief valve failed to lift within specification during testing.
30/08/2013	Sizewell B	0	Input wiring alarm fascias found to be reversed.
02/09/2013	Dungeness B	0	Lifting point failed on pond shock absorber.
06/09/2013	Dungeness B	0	Trim group control rod identified to be below minimum rod limit
07/09/2013	Heysham 1	0	Turbine tripped during testing.
08/09/2013	Dungeness B	0	Boiler feed system transients generated higher than expected channel gas/ boiler gas outlet temperatures during load raise.
10/09/2013	Sizewell B	0	Clean air train system pressure running lower than expected, causing sporadic control room alarms.
11/09/2013	Heysham 1	0	Steam leak during turbine generator startup.
13/09/2013	Torness	0	Reactor manually tripped due to generator fault.
16/09/2013	Dungeness B	0	During reactor power raising, Emergency Stop Valve 4 would not open and turbine would not run up.
16/09/2013	Sizewell B	0	Spurious signal caused by spike on control building ventilation frost coil outlet iodine radioactivity element
18/09/2013	Sizewell B	0	Spurious signal caused by spike on control building ventilation frost coil outlet iodine radioactivity element
08/04/2012	Hartlepool	0	Six manning event shortfalls not allocated to correct event category set out in procedures.
19/09/2013	Heysham 2	0	Nuclear Significant Fire Door found to be open and local alarm sounding.

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)

Event Date	Site	INES Rating	Event Title
17/09/2013	Hinkley Point B	0	Need to investigate earth fault associated with main turbine brush gear resulted in reactor load being reduced and desynchronised.
19/09/2013	Torness	0	Small area of dry contamination identified in sump of discharge line pump flange.
20/09/2013	Torness	0	Predicted and actual temperatures of flux measuring assembly standpipes did not agree.
21/09/2013	Hartlepool	0	Mini annulus panel washers found not to have been fitted as required.
23/09/2013	Dungeness B	0	Drop in reactor power witnessed.
30/09/2013	Dungeness B	1	Alarm activated indicating gas circulator speed probe fault.
04/10/2013	Heysham 1	0	Excepted package found to exceed permissible external surface dose rate limit.
18/10/2013	Heysham 1	0	Coastal flooding hazard challenge highlighted by review.
03/10/2013	Heysham 2	0	Feed flow information discrepancy.
04/10/2013	Heysham 1	0	Transient occurred that raised reactor pressure vessel cooling liner temperature to 30.5° C.
04/10/2013	Heysham 1	0	Unexpected loss of guardline standby supplies during reactor outage.
04/10/2013	Heysham 2	0	Equipment started spuriously during recommissioning.
08/10/2013	Dungeness B	0	Shutdown defect (oil pump) identified following manual shutdown of reactor.
14/10/2013	Dungeness B	0	Guardline tripped during gas circular speed change.
14/10/2013	Hunterston B	0	Manual isolating valve found to be closed rendering standby filling line unavailable.
14/10/2013	Sizewell B	0	Spurious control room signal caused by trip of ventilation and air-conditioning system.
15/10/2013	Hartlepool	0	Condenser level control failed.
17/10/2013	Hunterston B	0	Drier filter operation terminated as filter differential pressure reached limit.
17/10/2013	Sizewell B	0	Routine maintenance identified that some post-fault monitoring indicators were not calibrated.
21/10/2013	Dungeness B	1	Cooling water supply isolation to buffer storage tubes undertaken before fuel route plan steps to empty tubes had been completed.
22/10/2013	Hartlepool	0	Low pressure noted on CO2 tank and transfer pumps.
24/10/2013	Dungeness B	0	During pre-start checks, starting air supply isolating valve found to be shut.
25/10/2013	Dungeness B	0	Backup cooling water valve failed to operate remotely.
29/10/2013	Dungeness B	0	High winds caused roofing material to impact on transmission lines, causing transformer to trip.
01/11/2013	Dungeness B	1	Following loss of grid tripping of both reactors, emergency lighting and battery non-conformances noted.
31/10/2013	Dungeness B	0	Building emergency lighting failed to stay illuminated on loss of electrical power as required.
31/10/2013	Hartlepool	0	Unofficial modifications identified by new maintenance contractor on static reversing contactors.
05/11/2013	Heysham 1	0	Administrative error accounting for a radiography source.
12/11/2013	Sizewell B	0	Incorrect recording of boronated water levels in emergency core cooling system accumulator not identified until following shift.
14/11/2013	Sizewell B	0	Emergency charging system train B failed in service from overheating due to incorrect packing on load spring.
16/11/2013	Hinkley Point B	0	Spurious trip on reactor gas pressure rate of change channel 2.
21/11/2013	Torness	0	Significant marine ingress prompted manual shutdown of reactor 2.
22/11/2013	Heysham 1	0	Switchboard selector switch incorrectly set to local operation.

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)			
Event Date	Site	INES Rating	Event Title
22/11/2013	Heysham 1	0	Pressure transmitter at reactor 1 alternative indication centre found isolated.
25/11/2013	Dungeness B	0	Passive fire barrier found to have holes in both ends into the gas circulator halls, challenging barrier integrity.
26/11/2013	Heysham 1	0	Wrong revision of technical specification checksheet used.
27/11/2013	Dungeness B	0	Engineering design change process documentation and verification activities not completed in accordance with requirements.
28/11/2013	Torness	0	Airborne activity outside C3 area for tritium tank work.
30/11/2013	Heysham 1	0	Multi-position valve on emergency boiler feed pump 3 selected to incorrect position.
03/12/2013	Dungeness B	0	Manual shutdown following failure of one of two pressure sustaining valves.
04/12/2013	Heysham 1	0	Valve position end stop failure.
04/12/2013	Hinkley Point B	1	Valve on reactor cooling system noted in incorrect position.
06/12/2013	Hinkley Point B	0	Flask transport anomaly – flatbed rolled short distance uncontrolled.
05/12/2013	Sizewell B	0	Corrupt software configuration files on emergency plume gamma monitoring system.
10/12/2013	Torness	0	Plastic sheeting found in close proximity to air intake of diesel turbo charger.
12/12/2013	Hartlepool	0	Plant not reconfigured post maintenance causing high pressure and bursting disk alarms during subsequent operations.
13/12/2013	Dungeness B	0	Removal of floor slabs recorded in operations log but not technical specification tracking log as required by local instructions.
17/12/2013	Sizewell B	0	Potential for inadequate radiological shielding during fuel component movements.
20/12/2013	Dungeness B	0	Essential cooling water system pump not identified on isolation / deisolation operating procedure.
23/12/2013	Hartlepool	0	Minimum safety manning required by site emergency plan not met.
26/12/2013	Hartlepool	0	Shortfall in emergency response manning levels.
27/12/2013	Heysham 1	0	Automatic trip of reactor 2 on apparent loss of grid.
30/12/2013	Dungeness B	0	Plant inspection identified that two vent isolating valves were shut rendering nitrogen pumps 23 and 24 unavailable.
01/01/2014	Hartlepool	0	Shortfall in emergency response manning levels.
04/01/2014	Heysham 1	0	Reactor manually tripped following main boiler feed pump live steam governor tripping shut.
04/02/2014	Torness	0	Shift pattern changed without being subject to the management of change process.
10/01/2014	Heysham 1	0	Reactor 1 manually tripped following boiler feed pump failure.
13/01/2014	Heysham 1	0	Safety relief valve left in inoperable state following maintenance activities.
14/01/2014	Torness	0	Commissioning of a gas services trolley identified missing plugs in vent line.
15/01/2014	Dungeness B	0	Discrepancies in neutron scatter plug serial numbers within database records
15/01/2014	Sizewell B	0	Chiller unit for air-conditioning system incorrectly configured to local operation.
17/01/2014	Hartlepool	0	Wrong type of safety relays fitted during maintenance.
26/01/2014	Dungeness B	0	Technical specification non compliance when failed battery supplies inappropriately configured for normal duty.

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)			
Event Date	Site	INES Rating	Event Title
17/01/2014	Hunterston B	0	Absorption filter outwith its statutory inspection period under Pressure Systems Safety Regulations but remained compliant with local maintenance functional requirements.
20/01/2014	Hartlepool	0	Control rod drop due to trapping of sub pile-cap clutch supply cable.
21/01/2014	Hartlepool	0	Crane long travel limit trips 1 and 2 failed. Long travel limit trip 3 worked.
21/01/2014	Hunterston B	0	Work card did not identify fire jacket as being nuclear safety significant, leading to non-compliance with technical specification when it was removed.
22/01/2014	Hartlepool	0	Adverse trend identified with respect to successful out-of-hours pager tests.
23/01/2014	Hartlepool	0	Shortfall in emergency response manning levels.
24/01/2014	Heysham 1	0	Reactor tripped due to valve fault.
30/01/2014	Hunterston B	0	Reactor and turbine generator tripped automatically – no fault found.
30/01/2014	Sizewell B	0	Anomalies identified during non destructive testing of welds on fuel supply route to battery charging diesel generator.
31/01/2014	All EDF Sites	0	Fuel pins discovered with minor tin deposit and corresponding pitting of end cap surface, which exceeds maximum depth allowed by specification.
07/02/2014	Dungeness B	0	DC Charger found to have output fuse switch in open (off) position instead of closed position, rendering it unavailable for nuclear safety function on demand.
08/02/2014	Heysham 1	0	Switchboard selector switch incorrectly configured to “local” position.
10/02/2014	Heysham 2	0	Blown fuse caused power loss to reactor safety system.
12/02/2014	Dungeness B	0	Reactor 21 manually tripped following unexpected closure of reheater outlet isolating valve.
12/02/2014	Hinkley Point B	0	Record sheet entry confusing, leading team leader to believe, incorrectly, that storage tube was empty.
13/02/2014	Sizewell B	0	Temporary seawater monitoring unit caught fire.
14/02/2014	Sizewell B	0	Dual redundant power supplies to subset of high integrity control system panels identified as not in optimal arrangement.
16/02/2014	Heysham 2	0	Oil pressure loss led to automatic trip of turbine and subsequent trip of Reactor 8.
19/02/2014	Torness	0	During electrical testing, power supply failure caused loss of control of gas circulator speed.
17/02/2014	Torness	0	Cracks detected on reheater outlet pipework.
24/02/2014	Hartlepool	0	Flatrol derailed carrying empty flask while being shunted onto site.
22/02/2014	Hartlepool	0	During control rod exchange, electrical supplies were lost, causing control rod to enter core leading to automatic reactor trip.
22/02/2014	Heysham 2	0	Decay store air cooler fans isolated, but not recorded as unavailable.
23/02/2014	Hunterston B	0	Nitrogen plant valves found in incorrect open configuration.
25/02/2014	Hunterston B	0	Following a number of alarms, unit 7 feed heaters tripped.
25/02/2014	Sizewell B	0	Reactor Coolant Pump (RCP) bearing low oil alarm resulted in reactor shutdown to facilitate rectification.
04/03/2014	Heysham 1	0	Small tube leak from boiler.
06/03/2014	Sizewell B	1	Shaft driven oil pump suffered loss of prime.
07/03/2014	Hartlepool	0	Potential technical specification anomaly regarding announcement of Group 1 “boiler closure fault” alarm.
09/03/2014	Heysham 1	0	Anomaly in appropriate action tracking of plant unavailability resulting in delay to urgent maintenance state being entered.

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)			
Event Date	Site	INES Rating	Event Title
09/03/2014	Torness	0	Control rod clutch supply switches found to have been installed incorrectly post replacement.
11/03/2014	Heysham 1	0	Exceeded package dose rate limit exceeded.
12/03/2014	Torness	0	Cooling water supply taken out of service with unplanned consequence that dismantling tube cooling water low flow alarm initiated.
28/04/2014	Dungeness B	0	50V telecoms supplies misaligned, constituting non-compliance with technical specifications.
14/03/2014	Torness	0	Control supplies to two sets of ventilation valves discovered to be reversed.
15/03/2014	Dungeness B	0	Unplanned change in channel gas outlet temperature demand.
15/03/2014	Hartlepool	0	Minor fire occurred on turbine generator 2.
17/03/2014	Hartlepool	0	Failure of seven personnel to respond to site incident.
20/03/2014	Torness	0	Outlet steam sampling isolating valve discovered to be made of carbon steel instead of correct grade of stainless steel.
19/03/2014	Hartlepool	0	Unplanned degradation of turbine 2 fire system due to erected scaffolding.
18/03/2014	Torness	0	Dropped load damaged clutch cable dropping control rod. Resultant flux transient caused automatic trip of reactor 2.
18/03/2014	Hinkley Point B	0	Chloride ingress trip activated during shutdown.
20/03/2014	Hinkley Point B	0	Quadrant protection equipment in half trip. Risk of full trip while fault standing.
20/03/2014	Torness	0	Reactor 2 high boiler outlet gas temperature trips occurred on quadrants A and B leading to main guardline reactor trip.
23/03/2014	Dungeness B	0	CO2 fire protection panel incorrectly configured to off position.
25/03/2014	Hunterston B	0	Paintbrush caught fire when it came into contact with hot pipework.
26/03/2014	Torness	0	Unexpected loss of supplies following isolation of fuse board.
30/03/2014	Heysham 2	0	Absence compromised minimum safe manning levels.
04/04/2014	Heysham 1	0	Faulty feedflow indication from boiler led to increasing feed pump speed, causing increase in reactor power.
31/03/2014	Hunterston B	0	Reactor and turbine tripped automatically on earth fault protection.
03/04/2014	Heysham 1	0	Data processing system instability.
08/04/2014	Heysham 2	0	Plant isolated for maintenance without appreciating effect on technical specification monitoring.
06/04/2014	Sizewell B	0	Emergency service water train low discharge header pressure alarm initiated and reserve ultimate heat sink actuation occurred.
11/04/2014	Dungeness B	0	New fuel assembly removed outwith requirements of technical specification.
13/04/2014	Hartlepool	NR	Shortfall in first aid cover.
14/05/2014	Sizewell B	0	Fuel oil tank had not been checked in accordance with technical specification requirements.
17/04/2014	Hartlepool	0	Small fire on gas turbine during commissioning test run.
22/04/2014	Dungeness B	0	Written schemes of evaluation and asset management system routines not aligned.
02/05/2014	Heysham 1	0	Fuelling machine raise / lower mechanism autoguard torque limiting clutch setting not in accordance with as-built condition.
24/04/2014	Hartlepool	0	Fire occurred during commissioning of gas turbine.
27/04/2014	Dungeness B	1	Reactors automatically tripped due to fault on off site 400 Kv transmission system.
30/04/2014	Hartlepool	0	Nitrogen supply valve identified in incorrect closed configuration.
01/05/2014	Hinkley Point B	0	Computer failure of pager callout system.

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)

Event Date	Site	INES Rating	Event Title
01/05/2014	Sizewell B	0	Fire alarm found to have been inhibited.
01/05/2014	Sizewell B	0	Unplanned isolation / trip of heating ventilation and air-conditioning system during maintenance.
08/05/2014	Hartlepool	0	Failure of auxiliary steam valves to operate during maintenance testing.
12/05/2014	Hartlepool	0	Fuelling machine raise / lower mechanism autoguard torque limiting clutch setting not in accordance with as-built condition.
13/05/2014	Hunterston B	0	Gas circulator inlet guide vanes failed to close on quadrant trip.
16/05/2014	Heysham 1	0	Inlet guide vane found in incorrect closed configuration.
23/05/2014	Dungeness B	0	Control rod developed fault, resulting in it fully inserting into core. Operators maintained positive control, and manually shut down.
25/05/2014	Heysham 2	0	Compliance checks completed with incorrect data.
25/05/2014	Torness	0	Extended delay in engaging reactor 1 regulating control rod group 2 on auto control.
21/05/2014	Torness	0	Five non-responders to weekly pager test and two roles not fulfilled during cascade callout.
29/05/2014	Dungeness B	0	Water leak developed on back up cooling water system.
29/05/2014	Hartlepool	0	Emergency controller failed to respond to weekly pager test.
30/05/2014	Hartlepool	0	Incorrect implementation of an engineering change (support base plates and anchors not as specified).
30/05/2014	Heysham 2	0	Veto not configured correctly during low power refuelling.
02/06/2014	Hinkley Point C	NR	External telephone connectivity lost and emergency telephone number failed on same day.
11/06/2014	Heysham 1	0	Abnormal increase in activity associated with fuel failure detected.
06/06/2014	Heysham 2	0	Cooling tower fan found to have incorrect direction of rotation.
07/06/2014	Heysham 2	0	Cooling tower fan found to have incorrect direction of rotation.
10/06/2014	Heysham 1	0	During decommissioning, sealed sources found which had not been reported under Euratom.
11/06/2014	Heysham 1	0	Fault with fuelling machine hoist weight protection system.
01/07/2014	Dungeness B	NR	Lagging caught fire following quartz bulb blowing.
01/07/2014	Torness	0	Automatic shutdown following turbine generator excitation fault.
02/07/2014	Hinkley Point B	0	Section of pipework on nitrogen injection system failed during maintenance testing.
07/07/2014	Torness	0	Reactor 2 shutdown to investigate / repair valve.
05/07/2014	Torness	0	Cooling system plant configuration records not kept up to date when valves closed to assist draining.
11/07/2014	Dungeness B	0	Airlock in transformer not fully rectified, which left transformer at increased risk of tripping.
14/07/2014	Dungeness B	0	Fire doors not at required rating.
14/07/2014	Hartlepool	1	Transmitter failure on feed water flow trip channel.
14/07/2014	Torness	0	Reactor tripped as result of unrevealed fault during routine testing of quadrant protection system.
15/07/2014	Torness	0	Failed relay caused trip of quadrant protection. Subsequent transient automatically tripped reactor.
15/07/2014	Torness	0	Reactor tripped as result of a unrevealed fault during routine testing of quadrant protection system.
17/07/2014	Sizewell B	0	Fuel handling machine not locked off and put under holding document once statutory inspection validity expired.
17/07/2014	Hunterston B	0	Load controller fault caused small increase in reactor temperature and reduced trip margins
20/07/2014	Hartlepool	0	Shortfall in emergency scheme manning.

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)

Event Date	Site	INES Rating	Event Title
25/07/2014	Dungeness B	0	Groundwater sample showing elevated levels of tritium.
25/07/2014	Dungeness B	0	Abnormally high pump jacket water temperature.
25/07/2014	Heysham 2	0	Decay heat condenser declared available following receipt of handover certificate while plant remained isolated.
27/07/2014	Heysham 1	0	Emergency vehicle battery fault.
07/08/2014	Heysham 1	1	Surface breaking defects, which were not expected, discovered on reactor boiler spine.
29/07/2014	Hinkley Point B	0	Incorrect disablement of fast actuation circuit of fire system during commissioning.
26/07/2014	Sizewell B	0	Automatic trip occurred on high-level steam in generator.
01/08/2014	Dungeness B	0	Reactor automatically tripped on rate of change of boiler gas outlet temperature due to main boiler feed pump tripping.
02/08/2014	Hartlepool	0	Fire system isolating valve found incorrectly configured shut, making installed fire system unavailable.
03/08/2014	Dungeness B	0	Data processing system fault leading to thermal power transient.
04/08/2014	Dungeness B	0	Reactor manually tripped due to discovery of hydrogen leak on generator cooler.
06/08/2014	Hartlepool	0	Emergency start relay failed, blowing fuse and initiating emergency start of gas turbine.
09/08/2014	Torness	0	Test documentation incorrectly identified channel to be tested.
11/08/2014	Hartlepool	0	Unplanned shutdown of reactors following boiler spine anomalies.
11/08/2014	Torness	0	Enhancements to testing not properly implemented.
14/08/2014	All EDF Sites	0	Known issue with 415V electrical breakers, which can affect open / close actions.
13/08/2014	Heysham 1	0	Reactor manually tripped following safety case review on boiler spine.
18/08/2014	Sizewell B	0	Steam generator blowdown isolation occurred. Checks confirmed that blowdown isolation system caused by high flash vessel level.
22/08/2014	Dungeness B	0	Auxiliary electrical transformer tripped causing loss of supplies to two gas circulators and subsequent auto trip of reactor.
28/08/2014	Hartlepool	0	Work on external steel restraint on boiler attempted without permission from central control room.
20/08/2014	Dungeness B	1	Small hole identified in reactor secondary shutdown system nitrogen injection pipework.
31/08/2014	Hunterston B	0	Fire door left open.
01/09/2014	Heysham 1	0	Instrument isolated and vented thereby rendering associated alarm unavailable.
03/09/2014	Hunterston B	0	Low lubricating oil caused trip of gas circulators.
07/09/2014	Dungeness B	0	Data processing system fault leading to reduced thermal power.
15/09/2014	Heysham 1	0	Incorrect measurements used resulted in shear blocks being machined to wrong dimension.
17/09/2014	Torness	0	Reactor tripped following overfeeding in main boiler.
18/09/2014	Dungeness B	0	No authorised fire shift leader on three occasions.
18/09/2014	Sizewell B	0	Engineering change implemented before change had been approved.
20/09/2014	Torness	0	Data logger not updating results in central control room.
22/09/2014	Dungeness B	0	Channel gas outlet temperature found to be out of compliance limit.
22/09/2014	Hartlepool	0	Work started on wrong hydraulic cubicle.
24/09/2014	Dungeness B	0	Data processing system fault occurred which caused reactor thermal power transient.
25/09/2014	Dungeness B	0	Reactor automatically tripped while transformer out of service for planned repairs.

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Event Date	Site	INES Rating	Event Title
26/09/2014	Sizewell B	0	Relief valve operated differently than expected.
30/09/2014	Dungeness B	0	Missing relay meant four indications failed during lamp testing.
02/10/2014	Sizewell B	0	Defects identified in structural weld on emergency diesel generator exhaust.
06/10/2014	Hunterston B	0	Elevated vibration levels on turbine generator bearings.
12/10/2014	Dungeness B	0	Back-up superheater isolating valve found in wrong closed configuration.
13/10/2014	Dungeness B	0	Unit manually tripped due to rate of change of boiler gas outlet temperature.
14/10/2014	Dungeness B	0	Fuel transport flask consignment note not fully completed.
17/10/2014	Heysham 1	0	Unavailability of non destructive test records for pipework welds when needed.
24/10/2014	Hartlepool	0	Boiler gas inlet temperature monitor found to be not working.
24/10/2014	Sizewell B	0	Main control room automated surveillance tool did not reflect latest plant configuration.
26/10/2014	Hartlepool	0	Spurious initiation of suspended cable race fire system.
31/10/2014	Dungeness B	0	Pond skip crane fault with unexpected movement.
02/11/2014	Hartlepool	0	Pipe leak identified during commissioning.
02/11/2014	Hartlepool	0	Failure of forced air cooling pipework.
03/11/2014	Dungeness B	0	Test pressure gauge left installed in place of a water spray fire system fire nozzle.
08/11/2014	Hartlepool	0	Correct action state not entered when low pressure back up cooling electrical panel taken off line for testing.
10/11/2014	Dungeness B	0	Reactor manually tripped due to boiler feed not responding on automatic settings.
13/11/2014	Hartlepool	0	Pressure transmitter found to be incorrectly configured.
16/11/2014	Heysham 2	0	Core flow limit exceeded.
18/11/2014	Sizewell B	0	Contractor fell from a scaffolding ladder.
19/11/2014	Heysham 1	0	Incorrect technical specification entry identified.
20/11/2014	Sizewell B	0	Standby residue heat removal train placed in service before boron results received as required by technical specification.
21/11/2014	Torness	0	Plant status and configuration not kept up to date in tracking system.
21/11/2014	Torness	0	Reactor tripped during planned routine testing of start and standby boiler feed pump.
02/12/2014	Dungeness B	0	Fire doors not closed immediately after flask move. Control room unaware of open fire door configuration.
04/12/2014	Hinkley Point B	0	Emergency callout arrangements compromised – pager test did not function as intended coincident with problem with telephone system at local BT telephone exchange.
03/12/2014	Sizewell B	0	Fire system activation due to ignition of small release of hydrogen.
08/12/2014	Dungeness B	0	Reactor automatic shutdown due to gas circulator 11 kV main motor protection.
12/12/2014	Dungeness B	0	Water fire spray protection system claimed as available with maintenance tasks still outstanding.
14/12/2014	Dungeness B	0	Groundwater sample showing elevated levels of tritium.
16/12/2014	Hunterston B	0	Discrepancy in requirements for flask valve cover torque settings.
25/12/2014	Hunterston B	0	Reactor tripped manually following closure of chloride protection valve.
01/01/2015	Hartlepool	0	Incident response team was undermanned for part of one shift.
05/01/2015	Sizewell B	0	Installed replacement spare not of correct build configuration.
01/01/2015	Dungeness B	0	Interconnector oil circuit breaker selected to 'local' during line-up check.

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Event Date	Site	INES Rating	Event Title
03/01/2015	Dungeness B	0	Automatic reactor trip due to low seal oil pressure.
05/01/2015	Sizewell B	0	Spurious signal activated high radiation alarm during routine iodine filter change.
06/01/2015	Hinkley Point B	0	Gas circulator endurance valve alarm initiated.
07/01/2015	Hartlepool	0	Incident response team member unable to attend site.
10/01/2015	Sizewell B	0	Spurious radiation signal received.
13/01/2015	Hinkley Point B	0	Gas discharged from reactor into contaminated vent system during isolation of compressor.
16/01/2015	Torness	0	Incorrect material used for a reheater probe isolating valve.
22/01/2015	Heysham 1	1	Allocation of thermocouples not in accordance with requirements of technical specification.
23/01/2015	Heysham 1	0	Boiler feed bypass valve approximately 20% open, when it should have been fully shut.
25/01/2015	Torness	0	Initiation of low pressure CO2 ring main alarm (caused by valve being in shut position).
28/01/2015	Heysham 1	0	Minor water leak observed.
30/01/2015	Hinkley Point B	0	Fire jackets removed for maintenance without completing appropriate paperwork.
31/01/2015	Heysham 1	0	Boiler feed pump tripped on motor protection.
02/02/2015	Hartlepool	0	Emergency manning fell below required level due to staff absence.
04/02/2015	Heysham 1	0	Data processing system fault caused high number of alarms masking slight mismatch in boiler feed, which caused feed transient.
04/02/2015	Sizewell B	0	Sump pump found in incorrect configuration.
09/02/2015	Hinkley Point B	0	Limited condition of operation not entered into when cooling fan isolated for planned maintenance.
02/02/2015	Sizewell B	0	Incorrect nuts identified as having been fitted to valve.
27/02/2015	Heysham 2	0	Gas circulator overspeed protection tripped during reactor shutdown.
01/03/2015	Hartlepool	0	Reactor tripped.
03/03/2015	Torness	0	Low level waste container consigned outside of its maintenance and inspection period.
08/03/2015	Dungeness B	0	Set point of dew meter incorrectly set.
11/03/2015	Torness	0	Integrity of excepted package identified during transit.
16/03/2015	Heysham 1	0	CO2 leak from storage plant.
25/03/2015	Torness	0	Delays in delivering refresher training meant staff exceeded refresher training time limit.
20/03/2015	Heysham 1	0	Crack detected in heater train supporting steelwork.
26/03/2015	Hinkley Point B	0	Closure actuator not fully vented prior to removal.
26/03/2015	Torness	0	Misalignment of CO2 relief valve isolator.
05/04/2015	Torness	0	Shift numbers below minimum emergency plan level after staff illness.
19/04/2015	Sizewell B	0	Automatic initiation of reserve ultimate heat sink system after reduction in essential service water flow during valve realignment.
20/04/2015	Dungeness B	0	Boiler moisture indication system valve misaligned.
22/04/2015	Heysham 2	0	Quadrant excess drainage pumps left in a non-operational state.
22/04/2015	Sizewell B	0	Unplanned inoperability of essential service water system train.
24/04/2015	Dungeness B	0	Scaffold fouling boiler feedpump actuator drive mechanism.
26/04/2015	Hartlepool	0	Elevated closure temperature on fuel plug unit, reduced by opening gag.
10/05/2015	Dungeness B	0	Emergency manning short of fire team leader.
11/05/2015	Dungeness B	0	Electrical link missing in gas circulator pony motor tripping system.
11/05/2015	Sizewell B	0	Unexpected control room ventilation isolation signal actuation.
14/05/2015	Hartlepool	0	Gas turbine CO2 fire suppression system unavailable.

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)			
Event Date	Site	INES Rating	Event Title
16/05/2015	Dungeness B	0	Essential cooling water ring main incorrectly aligned.
20/05/2015	Dungeness B	0	Boiler moisture-in-CO2 system incorrectly configured.
24/05/2015	Hunterston B	0	Unit manually tripped following a fault on the 110V AC electrical system.
28/05/2015	Sizewell B	0	Essential diesel generator fuel oil tank level dropped below allowed limit during test run.
30/05/2015	Torness	0	Unexpected control rod movement and localised power change.
01/06/2015	Sizewell B	0	High radiation alarm activated control room ventilation isolation signal.
02/06/2015	Hunterston B	0	Reactor manually tripped due to cooling water restrictions following seaweed ingress.
05/06/2015	Torness	1	Three plug units with thin walled heat shield gimbal lower half castings refuelled at power.
06/06/2015	Heysham 1	0	Dump condenser extraction pumps unavailable due to selector switch misalignment.
06/06/2015	Hunterston B	0	Reactor manually tripped to repair fault on a reactor control loop.
09/06/2015	Heysham 1	0	Safety control rod failed to meet rod drop test acceptance criteria.
10/06/2015	Heysham 2	0	Irradiated fuel flask transported to Sellafield with rail transport flatrol canopy not fully secured.
10/06/2015	Sizewell B	0	Unplanned control room ventilation isolation signal actuation during system reboot.
18/06/2015	Sizewell B	0	Potential inadequacy of anti-siphon holes in fuel storage pond pipework for some fault scenarios.
20/06/2015	Dungeness B	0	Operations shift emergency scheme manning short by one person.
25/06/2015	Torness	0	Defeat of interlock process arrangements not properly followed for fuel plug unit cell work.
29/06/2015	Torness	0	Nominated oxygen injection system supervisor not on site while the system was in service.
02/07/2015	Heysham 1	0	Automatic trip after main feed isolating valve ran closed.
03/07/2015	Torness	0	Two diesel generator start air compressors tripped on over-current protection.
04/07/2015	Heysham 1	0	Reactor start-up, phase 1 flux control problems.
14/07/2015	Torness	0	Carbon dioxide storage plant 110V AC changeover unit failure during switching.
15/07/2015	Heysham 1	0	Plant misalignment during de-isolation of an emergency boiler feedpump.
17/07/2015	Hartlepool	1	A number of reactor ancillaries cooling water system non-return valves failed to close during testing.
21/07/2015	Hartlepool	0	Reactor auxiliary cooling water isolating operating instruction and rule requirements mismatch.
27/07/2015	Heysham 2	0	Automatic reactor trip following a boiler feed transient.
30/07/2015	All EDF Sites	0	Radioactive material shipped without approved quality plan.
03/08/2015	Hartlepool	0	Lagging prematurely removed from boiler pod and not logged in action tracking system.
04/08/2015	Torness	0	Control rod actuator overhaul kit contained circlip made of incorrect type of steel.
05/08/2015	Dungeness B	0	Missed surveillance while CO2 monitoring system out of service.
07/08/2015	Torness	0	Cracks discovered in reactor core restraint system graphite peripheral shield bricks.
09/08/2015	Hartlepool	0	Boiler closure fault system alarm system unavailability not tracked in compliance system.
11/08/2015	Dungeness B	0	Emergency scheme manning short of authorised fire team leader.

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)

Event Date	Site	INES Rating	Event Title
13/08/2015	Heysham 1	0	Site Incident declared due to CO2 leak from a valve in the reactor secondary shutdown system.
14/08/2015	Dungeness B	0	Tannoy messages inaudible during site fire muster.
14/08/2015	Dungeness B	0	Manual reactor shutdown to fix turbine bearing oil leak.
17/08/2015	Hinkley Point B	0	Automatic unit trip during routine testing of turbine overspeed equipment.
22/08/2015	Heysham 2	0	Quadrant excess drainage pumps over-current protection activated.
22/08/2015	Torness	0	Low auxiliary steam supply pressure to several CO2 plant vaporisers.
27/08/2015	Sizewell B	0	Vetoes not reapplied after secondary protection system testing.
28/08/2015	Sizewell B	0	Calculated level of allowed maximum reactor thermal power set slightly higher than the appropriate value.
31/08/2015	Dungeness B	0	Manual reactor shutdown to rectify main boiler feedpump vibration.
06/09/2015	Torness	0	Reactor relief valve roof bursting disc debris expelled during testing.
06/09/2015	Torness	1	Gas circulator failed to start successfully on variable speed drive.
07/09/2015	Hartlepool	0	Hydrogen bottle store compound fixed jet fire suppression system unavailable.
10/09/2015	Dungeness B	0	Backup diesel generator failed to start during a test run.
19/09/2015	Hartlepool	0	Boiler feedpump fire suppression system central control room activation facility unavailable.
20/09/2015	Dungeness B	0	Emergency scheme manning short by one fire team leader.
22/09/2015	Dungeness B	0	Four individuals found contaminated following work in plug unit maintenance facility.
22/09/2015	Hartlepool	0	Reactor auxiliary cooling water system testing conducted on the wrong unit
23/09/2015	Hartlepool	0	Boiler feed pump discharge isolation valve in incorrect operating mode.
25/09/2015	Dungeness B	0	Fuel buffer storage tubes returned to service without closure pressurisation checks being conducted.
07/10/2015	Hunterston B	0	Reactor gas circulator endurance protection partially unavailable.
07/10/2015	Hunterston B	0	Auxiliary boiler system unavailable.
09/10/2015	Torness	0	Contamination detected on irradiated fuel transport flask during arrival survey at Sellafield.
20/10/2015	Dungeness B	0	Emergency scheme manning short of in-ticket first-aider.
25/10/2015	Dungeness B	0	Reactor manually tripped when loss of feedwater inflow to deaerator caused its water level to drop.
26/10/2015	Torness	0	Cracks found on hot reheat pipework stitch welds of seismic restraint anchoring system.
31/10/2015	Hunterston B	0	Inspection programme identifies graphite brick keyway root cracking.
03/11/2015	Dungeness B	0	Available emergency scheme breathing air cylinders below required complement.
08/11/2015	Hunterston B	0	Thermal fatigue cracking above the recordable threshold on a number of hot reheat air release branches.
12/11/2015	Dungeness B	1	Safety case shortfall relating to steam release reactor trip system air-receiver safety relief valves.
26/11/2015	Dungeness B	0	Fire panel fault disabling the central control room alarm annunciator.
30/11/2015	Sizewell B	0	Wrong parameter monitored during surveillance check of auxiliary reserve ultimate heat sink system.
01/12/2015	Hartlepool	1	CO2 pipe-trench hot gas release segregation door found open.
10/12/2015	Sizewell B	0	Incorrect temperature alarm set point on component cooling water system charging pump.
16/12/2015	Hartlepool	1	Small crack discovered on reactor instrument penetration transition weld.

Events reported to ONR by EDF Energy (01 Apr 2012 to 19 Jan 2016)			
Event Date	Site	INES Rating	Event Title
16/12/2015	Heysham 1	0	Automatic reactor trip following trip of a 'no-break' motor-alternator set.
20/12/2015	Sizewell B	0	Main control room manning levels below complement after sudden staff member illness.
29/12/2015	Heysham 2	0	Decay fuel store CO2 supplies isolated before decay heat reduced to allowable level.
02/01/2016	Sizewell B	0	Control room ventilation isolation signal activated by faulty signal.
03/01/2016	Sizewell B	0	Automatic actuation of one train of the main and auxiliary reserve ultimate heat sink systems.
12/01/2016	Sizewell B	0	Reserve ultimate heat sink system temperature switch failures.
16/01/2016	Sizewell B	0	Control room ventilation isolation activated by faulty signal.
19/01/2016	Hunterston B	0	Turbine governor load transducer failed causing control system mismatch.

Legend explaining INES ratings for level 0 - 2 and 'not rated' events

INES level	Description	Example criteria (from: http://www-pub.iaea.org/MTCD/Publications/PDF/INES2013web.pdf)
NR	Not rated	Not nuclear safety or radiological safety related and not rated. Reported to NII/ONR for other reasons (e.g. media interest)
0	No safety significance	Event rated and has no nuclear safety or radiological safety significance
1	Anomaly	Minor problems with safety components with significant defence in depth remaining
2	Incident	Significant failures in safety provisions, but with no actual consequences

Note that the full INES scale ranges from 0 to 7. There has been no event at EDF Energy locations greater than INES 2. Further information on the full INES rating scale can be found at: <http://www-pub.iaea.org/MTCD/Publications/PDF/INES2013web.pdf>