

## APPENDIX 2

### Non-Compliance Events at Darlington Nuclear Generating Station, 2015-2024

As found online at <https://www.opg.com/reporting/regulatory-reporting/event-reports/>

Sourced on May 2, 2025

Year	Event as Listed
2015	D-2015-20023 Degradation - Breach of Containment
2015	D-2015-21273 Licence Non-Compliance: Prior Notification Not Provided to CNSC
2015	D-2015-21504 Degradation - Breach of Containment
2015	D-2015-22326 Licence Non-Compliance: Radioactive Contamination Not Properly Assessed
2015	D-2015-22412 Safeguards: Unit 1 Core Discharge Monitor Lost Power
2015	D-2015-22423 Degradation: Construction Boiler House Instrument Air
2015	D-2015-22964 Equipment Misuse: Damage to Whole Body Monitor
2015	D-2015-23497 Degradation: Level 2 Impairment of Shutdown System 2 (SDS2)
2015	D-2015-23644 Licence Non-Compliance: Non-Permissible Material Installed on Pressure Boundary System
2015	D-2015-24021 Missed Test: Licensing Preventive Maintenance Not Executed
2015	D-2015-24132 Licence Non-Compliance: Pressure Boundary - Missed Authorized Nuclear Inspector Witness Point
2015	D-2015-24331 Degradation - Breach of Containment
2015	D-2015-25802 Licence Non-Compliance - Unqualified Worker Performing Radioactive Work
2015	D-2015-25340 Licence non-Compliance: Pressure Boundary - Missing Authorised Nuclear Inspector Approval of Inspection Test Plan
2015	D-2015-26161 Degradation - Breach of Containment
2015	D-2015-26990 Licence non-Compliance: Pressure Boundary - Non-Conformance
2015	D-2015-26994 Licence non-Compliance: Out of Calibration Gamma Meter Found in Rubber Area
2015	D-2015-28541 Shutdown System Actuation: Primary Heat Transport Pump Motor
2015	D-2015-27411 Degradation: Relief Valve Stuck in Closed Position Darlington Nuclear Generating Station 2015 R
2015	D-3.1.1 Reporting (2015) Report Number Event Title Page 2 of 4
2015	D-2015-27383 Licence Non-Compliance: Pressure Boundary – Inspection Test Plan Incomplete
2015	D-2015-28962 Degradation: Relief Valve Lifted Above Associated Hydrostatic Test Pressure
2015	D-2015-29095 Degradation: Breach of Containment Unit 3 Airlock 2
2015	D-2015-29907 Degradation: Pressurizer Heater Leak to Collection Q3

2015 D-2015-14000 Degradation: Steam Protection Impairment Caused By Refrigeration Units

2015 D-2015-16077 Degradation: Relief Valve Lifted Above Set Pressure

2015 D-2015-16295 Licence Non-Compliance: Environmental Gamma Meter Used Past Calibration Due Date

2015 D-2015-16365 Licence Non-Compliance: Late Notification to CNSC of Certified Staff Employment Status Change

2015 D-2015-15425 Licence Non-Compliance: Emergency Lights Not Maintained Per National Fire Code

2015 D-2015-16773 Equipment Misuse: PA Speaker Volume Reduced Inappropriately

2015 D-2015-18338 Equipment Misuse: Hand and Foot Monitor Damaged

2015 D-2015-18731 Critical Injury: Worker Sustained Fractured Shoulder

2015 D-2015-18184 Licence Non-Compliance: Annual Testing of Smoke Detectors Not Conducted

2015 D-2015-17991 Licence Non-Compliance: Missing or Deficient Smoke Seals

2015 D-2015-17914 Licence Non-Compliance: Over-Pressurizing of Low Pressure Service Water

2015 D-2015-18869 Licence Non-Compliance: Fuel Handling Below Minimum

2015 D-2015-20275 Degradation: Impairment of Negative Pressure Containment

2015 D-2015-21880 Licence Non-Compliance: Portable Area Gamma Monitor Used Past Calibration Due Date

2015 D-2015-21039 Equipment Misuse: Damage to Whole Body Monitor Darlington Nuclear Generating Station 2015 R

2015 D-2015-07557 Licence Non-Compliance: Environmental Manual Not Provided to

2015 D-2015-08597 Reactor Shutdown: Unit 2 Transient Due to Heat Transport System Leakage Outside Containment

2015 D-2015-07270 Licence Non-Compliance: Annual Fire Panel Inspection Not

2015 D-2015-08450 Degradation: Emergency Service Water Side Nozzles Below Critical Thickness

2015 D-2015-08873 Degradation: Dual Fan Trips Leads to Steam Protection Impairment

2015 D-2015-09440 Degradation: Breach of Containment at Airlock

2015 D-2015-09229 Licence Non-Compliance: Pressure Boundary Witness Hold Point Bypassed

2015 D-2015-09499 Licence Non-Compliance: Fire Hose Cabinet Blocked

2015 D-2015-12825 Licence Non-Compliance: Pressure Vessels Found Without Certification Q1

2015 D-2014-35257 Licence Non-Compliance: Standby Generator Fuel Storage Tank Inspections Not Completed

2015 D-2015-00343 Safety System Degradation: Emergency Power Generators

2015 D-2015-00373 Pressure Boundary Degradation: Relief Valve Above Given Set Pressure Range

2015 D-2015-01738 Unplanned Power Change: Unit 2 Turbine Trip

2015 D-2015-02586 Equipment Misuse: Damage to Whole Body Monitor

2015 D-2015-03151 Licence Non-Compliance: Pressure Vessels Certification Required

2015 D-2015-03852 Licence Non-Compliance: Fire Zone Removed From Service Without Compensatory Actions

2015 D-2015-04751 Licence Non-Compliance: Nuclear Operators Below Minimum Complement

2015 D-2015-04455 Licence Non-Compliance: Non-permissible Material Installed on Pressure Boundary System Darlington Nuclear Generating Station 2015 R

2015 D-2015-05191 Suspect Item: Informed of Substandard Material from Valve

2015 D-2015-06374 Licence Non-Compliance: Fabricated Tool Does Not Meet Pressure Boundary Material Traceability

2015 D-2015-06463 Licence Non-Compliance: Emergency Response Team Access Affected by SATM Non-Compliance

2016 D-2016-22406 Licence Non-Compliance: Radiation Hazard Board Removed

2016 D-2016-24649 Licence Non-Compliance: Radiation Barriers Moved – Un-posted

2016 D-2016-24581 Licence Non-Compliance: Notification Not Provided to CNSC Relating to Governance

2016 D-2016-22731 Licence Non-Compliance: Missed Authorized Nuclear Inspector Review of Pressure Boundary Inspection and Test Plan

2016 D-2016-24459 Degradation: Loss of Both Refrigeration Units on Unit 2

2016 D-2016-24812 Matter of Regulatory Interest: Error in Documentation Relating to Shim Operation

2016 D-2016-24994 Licence Non-Compliance: Missed Authorized Nuclear Inspector Review of Pressure Boundary Inspection and Test Plan

2016 D-2016-26543 Degradation: Steam Door Left Unlatched and Alarming

2016 D-2016-26475 Licence Non-Compliance: Missed Inspection Required by the Periodic Inspection Program

2016 D-2016-28125 Safety System Degradation: Level 2 Impairment of the Heat Transport System

2016 D-2016-28171 Unplanned Power Change: Shut-Off Rod Dropped Into Core

2016 D-2016-29857 Critical Injury: Worker Sustained Fractured Leg

2016 D-2016-30256 Licence Non-Compliance: Pressure Boundary Non-Conformance

2016 D-2016-31097 Degradation: Steam Door Found Open Due to Defective Latch

2016 D-2016-30803 Safety System Degradation: Emergency Power System Unavailable

2016 D-2016-18508 Licence Non-Compliance: Minimum Complement Violation

2016 D-2016-20203 Unplanned Power Change: Transient Occurred

2016 D-2016-21388 Degradation: Defective Steam Door Latch

2016 D-2016-21576 Shutdown System Actuation: Primary Heat Transport Pump Motor

2016 D-2016-21828 Licence Non-Compliance: Missing Valve Registration Number  
Inspection Test Plan

2016 D-2016-22108 Licence Non-Compliance: Fire Extinguisher Blocked

2016 D-2016-22538 Degradation: Breach of Containment - Improper Operation of  
Airlock Door

2016 D-2016-22549 Licence Non-Compliance: Minimum Complement Violation

2016 D-2016-22894 Counterfeit CSA Certification on Welding Receptacle

2016 D-2016-07549 Licence Non-Compliance: Access to Firefighting Equipment

2016 D-2016-07816 Licence Non-Compliance: Storage of Transient Combustibles

2016 D-2016-08194 Licence Non-Compliance: Pressure Boundary Welding Record  
Anomalies

2016 D-2016-08366 Safety System Degradation: Potential Impact to Group 1 Safety  
Equipment

2016 D-2016-08553 Licence Non-Compliance: Missed Periodic Inspection

2016 D-2016-08460 Licence Non-Compliance: Design Procedural Non-Compliances for  
Valve Replacements

2016 D-2016-11034 Safety System Degradation: Potential Damage to Pressurizer  
Temperature Element

2016 D-2016-12262 Degradation: Breach of Containment (Faulty Transfer Chamber

2016 D-2016-14030 Matter of Regulatory Interest: Emergency Response Staff Fitness  
and Medical Certification Requalification Issues

2016 D-2016-12142 Licence Non-Compliance: Pressure Boundary (Missed Authorized  
Nuclear Inspector Hold Point)

2016 D-2016-12160 Degradation: Breach of Containment (Improper Operation of  
Airlock Door)

2016 D-2016-13850 Licence Non-Compliance: Out-of-Plant Co-ordinator Role Below  
Minimum Complement

2016 D-2016-13918 Degradation: Breach of Containment (Improper Operation of  
Airlock Door)

2016 D-2016-15164 Critical Injury: Worker Sustained Fractured Wrist

2016 D-2016-14875 Degradation: Breach of Containment (Improper Operation of  
Airlock Door)

2016 D-2016-16755 Degradation: Breach of Containment (Improper Operation of  
Airlock Door)

2016 D-2015-29213 Degradation: Relief Valve Lifted Above Associated Hydrostatic Test  
Pressure

2016 D-2016-01210 Safety System Degradation: Steam Generator Emergency Cooling  
System (SGECS) Unavailable Due to Programmable Controller Failure

2016 D-2016-01946 Licence Non-Compliance: Fire Access Route Blocked

2016 D-2016-02044 Licence Non-Compliance: Notification Not Provided to CNSC  
Relating to Testing Records

2016 D-2016-02166 Missed Test: Licensing Preventive Maintenance Not Executed

2016 D-2016-03260 Degradation: Relief Valve Lifted Above Associated Hydrostatic Test  
Pressure

2016 D-2016-03464 Licence Non Compliance: Access to Fire Cabinet Blocked

2016 D-2016-05085 Degradation: Steam Door Found Open Due to Defective Latch

2016 D-2016-05037 Licence Non-Compliance: Missed ANI Witness Point

2016 D-2016-03256 Licence Non-Compliance: Unassessed Dose Rates in Work Area

2016 D-2016-06424 Licence Non-Compliance: Missed ANI Witness Point

2016 D-2016-06933 Licence Non-Compliance: Nuclear Operators Below Minimum  
Complement

2016 D-2016-06607 Licence Non-Compliance: Access to Firefighting Equipment

2016 D-2016-07460 Licence Non-Compliance: Stockkeeper Work Group Below  
Minimum Complement

2016 D-2016-30971 Degradation: Environmentally Qualified Deficiencies in Transmitter  
Housing Covers

2016 D-2016-31401 Licence Non-Compliance: Fixed Area Alarming Gamma Monitors  
Out of Calibration

2017 D-2017-01194 Licence Non-compliance: Relief Valve Failed to Stroke Fully During

2017 D-2017-02025 Critical Injury: Worker Sustained Broken Bone in Hand

2017 D-2017-01475 Licence Non-compliance: Inaugural Periodic Inspection Performed

2017 D-2017-02123 Licence Non-Compliance: Pressure Boundary Non-Conformance

2017 D-2017-03623 Unplanned Power Change: Unit 1 Transient Due to Sustained High  
Flux Tilt

2017 D-2017-03587 Licence Non-Compliance: Transfer of Tritiated Motors to  
Unlicensed Vendor

2017 D-2017-03957 Equipment Misuse: Smoke Detectors Found Impaired by Rubber

2017 D-2017-04071 Licence Non-Compliance: Heavy Water Management Building  
Emergency Fire Door Blocked

2017 D-2017-04006 Licence Non-Compliance: Pressure Boundary Non-Conformance

2017 D-2017-04757 Missed Test: Preventive Maintenance Not Executed

2017 D-2017-05265 Employee Injury: Elbow Fractured While Moving Drums

2017 D-2017-05970 Licence Non-Compliance: Missing Radiation Hazard Labels

2017 D-2017-07573 Employee Death On Site: Non-Work Related

2017 D-2017-07298 Employee Injury: Worker Sustained Broken Shoulder

2017 D-2017-06237 Licence Non-Compliance: Pressure Boundary Non-Conformance

2017 D-2017-14421 Shutdown System Actuation: Shutdown System 2 Trip (Unit 1)

2017 D-2017-13746 Licence Non-Compliance: Drums Missing Radiation Hazard Labels

2017 D-2017-13131 Degradation: Breach of Containment Alarm (Unit 1)

2017 D-2017-12704 Degradation: Breach of Containment Alarm (Unit 1)

2017 D-2017-11640 Licence Non-Compliance: Non-Compliance Radiation Protection Regulations (S.7)

2017 D-2017-10970 Unplanned Power Change: Unit 4 Shutdown After Spurious Drop of Shutoff Rod

2017 D-2017-09874 Employee Injury: Worker Sustained Broken Foot

2017 D-2017-09117 Licence Non-Compliance: Minimum Complement (Emergency Response)

2017 D-2017-08894 Degradation: Breach of Containment Alarm (Unit 1)

2017 D-2017-21807 Licence Non-Compliance: Radiation Hazard Sign Not Visible

2017 D-2017-21635 Notification Non-Compliance: Removal of Certified Personnel

2017 D-2017-21506 Licence Non-Compliance: Minimum Complement Violation (Unit 0 Operator)

2017 D-2017-20599 Equipment Misuse: Damage to Hand and Foot Monitor

2017 D-2017-20419 Licence Non-Compliance: Active Waste Bags Missing Radiation Hazard Labels

2017 D-2017-20055 Unplanned Power Change: Unit 1 Turbine Trip

2017 D-2017-18079 Degradation: Level 2 Impairment of Shutdown System #1 (Unit 4)

2017 D-2017-18027 Critical Injury: Worker Lost Consciousness Due to Heat Stress

2017 D-2017-16021 Licence Non-Compliance: Radiation Hazard Sign Containing Incorrect Information

2017 D-2017-29491 Licence Noncompliance - Radiation Hazard Sign Not Visible

2017 D-2017-29309 Licence Noncompliance - Tritium Removal Facility (TRF) Tritium Inventory Exceeded Design Limit

2017 D-2017-28287 Discovery Issue Resolution Process: Potential Reduction in Critical Heat Flux (CHF)

2017 D-2017-26548 Contingency Plan: Air Conditioning Unit Electrical Fault Required Emergency Response

2017 D-2017-26157 Degradation: Potential Extent of Condition of Adjuster Absorber Unit Operability

2017 D-2017-25548 Licence Non-Compliance: Unposted Hazardous Waste Bag

2017 D-2017-23755 Licence Non-Compliance: Improperly Posted Hazard Board

2018 D-2018-06962 Licence Non-Compliance: Improperly Posted Radiation Hazard in West Fuelling Facilities Auxiliary Area

2018 D-2018-05407 Licence Non-Compliance: Possible Unposted Radioactive Hazard in Tritium Removal Facility Loading Bay

2018 D-2018-04927 Licence Non-Compliance: Trefoil Symbols Not Visible on Transportation Package

2018 D-2018-02157 Packaging and Transport: Legacy Multi-Purpose Transportation Package Certificates and Authorized Radioactive Contents Issue

2018 D-2018-01591 Degradation: Steam Generator Emergency Cooling System

2018 D-2018-00503 Unplanned Power Change: Unit 1 Setback on Adjusters Driving Out

2018 D-2018-08138 Licence Non-Compliance: Boiler Blow Down Flow Rate Measurements Greater Than Current Feedwater Operational Safety Requirements

2018 D-2018-09216 Licence Non-Compliance: Technical Info sent to Original Equipment Manufacturer (OEM) not in accordance with Nuclear Non-Proliferation Import and Export Control Regulations

2018 D-2018-09633 Licence Non-Compliance: D1831 Improperly Posted Radiation Hazard in Rubber Area

2018 D-2018-10359 Licence Non-Compliance: Unlabelled Radiation Hazard in U3 Operations Drying Cabinet

2018 D-2018-11080 Licence Non-Compliance: D1831 wetting in plastic suit

2018 D-2018-12428 Research Finding: Darlington Axial Delayed Hydride Cracking (DHC) Growth Rate Results Above CSA N285.8 Upper Bound

2018 D-2018-14274 Licence Non-Compliance: Inadequate Posting of Radiological

2018 D-2018-15018 Licence Non-Compliance: Station Minimum Complement

2018 D-2018-15249 Degradation: System Test Performed on Wrong Unit

2018 D-2018-16839 Licence Non-Compliance: Unposted Radioactive Hazard in Tritium Removal Facility (TRF)

2018 D-2018-17388 Unplanned Power Change: Unit 4 Transient due to Suspected Control Computer (DCC) Power Supply Issue

2018 D-2018-18158 Licence Non-Compliance: Delay to Submission of Inventory Change Document (ICD) to Canadian Nuclear Safety Commission (CNSC) / International Atomic Energy Agency (IAEA)

2018 D-2018-18399 Degradation: Loss of Steam Protection due to Unavailability of 4-73910- RFU1 and 4-73910-RFU2

2018 D-2018-18961 Licence Non-Compliance: Dose rate exceedance (above 2.5 mrem/hr) at Radioactive Material Storage Area (RMSA) Cage Boundary

2019 D-2019-00332 Degradation: Steam Protection Unavailable, Unit 4 Room R207

2019 D-2019-00361 Environmental Release Monitoring: Unit 4 Calibration of Monitoring Equipment Non-Compliance

2019 D-2019-00959 Licence Noncompliance: Fixed Area Alarming Gamma Monitors Past Calibration Date

2019 D-2019-01190 Unplanned Power Change: Unit 1 Thermal Power > 101%

2019 D-2019-01669 Degradation: Unit 1 Steam Door Alarming and not Latching

2019 D-2019-01750 Licence Non-Compliance: Heavy Water Drums in Unit 4 Room R4-001 Missing D-FORM-10613 "Darlington Heavy Water Drum Content"

2019 D-2019-01984 Licence Non-Compliance: Labeling of Shutdown Cooling Heat Exchangers Not to Regulatory Expectations

2019 D-2019-04442 Degradation: Unit 3 Loss of Annulus Gas System Pressure

2019 D-2019-04999 Licence Non-compliance: Delay in Preparing and Submitting Inventory Change Document for Dry Storage Container Transfer due to Local Area Network Outage at Darlington Site

2019 D-2019-05292 Misuse of Safety Equipment: Fire Door Latching Mechanism

2019 D-2019-05533 Environmental Release: Hydrocarbon Spill on Soil

2019 D-2019-08102 Licence Non-Compliance: Unposted Radiological Hazard found at Rubber Area Boundary

2019 D-2019-08865 Degradation: Unit 4 Steam Doors Closing and not Latching

2019 D-2019-09827 Late Licensing Predefined: Safety-Related System Test not completed prior to Late Date

2019 D-2019-10907 Contingency Plan: Unit 1 Electrical Bus Tripped on Differential

2019 D-2019-12348 Missed Regulatory Predefine: Main Steam Line Break Logic Test on Even Emergency Power System Ventilation

2019 D-2019-12704 Degradation: Unit 4, Standby Class 3 Power Unavailable

2019 D-2019-12793 Licence Non-Compliance: Program Document Issued without Canadian Nuclear Safety Commission Notification

2019 D-2019-12872 Degradation: Unit 1 Air Conditioning Units Unavailable

2019 D-2019-13190 Unplanned Change in Reactor Power: Unit 4 Setback

2019 D-2019-13245 Missed Regulatory Predefine: Unit 2 Contaminated Exhaust Filter

2019 D-2019-13954 Licence Non-Compliance: Flood Relief Non-Compliances Found for Units 1, 3, and 4

2019 D-2019-14314 Licence Non-Compliance: Station Minimum Complement Violation

2019 D-2019-15444 Licence Non-Compliance: Elevated Dose Rate Particle found in used Radiation Personal Protective Equipment Laundry Bag

2019 D-2019-16453 Offsite Training Injury: Fractured Wrist

2019 D-2019-16927 Environmental Release Control: Unit 0 Refrigerant Leak on Refrigeration Unit

2019 D-2019-18484 Missed Regulatory Predefine: Contaminated Exhaust Filter Testing for East Fuelling Facilities Auxiliary Area

2019 D-2019-18966 Missed Regulatory Predefine: Unit 1/3/4 Late Mandated Vault Vapour Recovery System Filter Testing Preventive Maintenance

2019 D-2019-19143 Degradation: Unit 4 Steam Door Failed to Latch Closed

2019 D-2019-19525 Licence Non-Compliance: Worker Frequencies not in Compliance with N-PROC-RA-0012 "Dosimetry and Dose Reporting"

2019 D-2019-19595 Degradation: Unit 3, Standby Class 3 Power Unavailable

2019 D-2019-19753 Degradation: Unit 1, Standby Class 3 Power Unavailable

2019 D-2019-19794 Degradation: Unit 4, Standby Class 3 Power Unavailable

2019 D-2019-20345 Environmental Release: Potential Discharge Directly from Inactive Drainage to Circulating Cooling Water Duct



2019 D-2019-20508 Licence Non-Compliance: Inadvertent and Short-Term EFFAA  
South Truck Bay Overhead Light Blackout rendered IAEA Surveillance Cameras  
Non-Functional

2019 D-2019-20538 Degradation: Unit 3 Low Pressure Service Water Booster Pump  
Unavailable due to passing check valve

2019 D-2019-20692 Discovery Issue Resolution Process: Steam Protection  
Condensation Criterion not met for Unit Emergency Power System EVEN Rooms

2019 D-2019-21206 Licence Non-Compliance: Unapproved Storage of Radioactive  
Material in Unit 1, Room R1-136

2019 D-2019-21411 Safety System Actuation: Switching to Solid Mode during Unit

2019 D-2019-21822 Licence Non-Compliance: Unit 4 Vault Fixed Area Alarming Gamma  
Monitors Past Calibration Date

2020 D-2020-00123 Degradation: Unit 1 Steam Door, Not Latched

2020 D-2020-01127 Missed Predefine: Unit 4 Safety-Related System Test Sign Off  
Incomplete Following Late Date

2020 D-2020-01479 Environmental Release Control: Refrigerant Leak on Refrigeration  
Unit in Heavy Water Management Building

2020 D-2020-01672 Unplanned Power Change: Unit 4 Stepback

2020 D-2020-01710 Unplanned Power Change: Unit 3 Setback

2020 D-2020-01806 Licence Non-Compliance: Rubber Area Waste Unposted, not

2020 D-2020-02912 Degradation: Unit 1 Steam Door, Not Latched

2020 D-2020-03036 Degradation: Unit 1 Standby Class 3 Power Unavailable

2020 D-2020-04188 Regulatory Interest: Ministry of Labour Notification, Worker  
Experienced Non-Occupational Illness

2020 D-2020-04563 Licence Non-Compliance: Fixed Area Alarming Gamma Monitor  
Past Calibration Date

2020 D-2020-04865 Regulatory Interest: Adverse Trend of Access Control Area Fixed  
Area Alarming Gamma Monitors Out of Calibration

2020 D-2020-05083 Regulatory Interest: Access Control Barriers Inadequate During  
Trolley Traverse With Irradiated Fuel

2020 D-2020-05136 Research Findings: Darlington Pressure Tube Inlet Rolled Joint  
Hydrogen Equivalent Concentration Results Above CSA N285.4 Acceptance

2020 D-2020-05209 Degradation: Unit 1 Steam Door, Not Latched

2020 D-2020-05376 Licence Non-compliance: Radioactive Material Discovered  
Abandoned in Unit 2

2020 D-2020-05546 Licence Non-compliance: Missed Unit 3 Steam Generator Periodic  
Inspection Program Interval for Tube Metallurgical Examination

2020 D-2020-05969 Licence Noncompliance: Worker Found Contaminated at Bridge  
Whole Body Monitor

2020 D-2020-06187 Degradation: Unit 2 Standby Class 3 Power Unavailable

2020 D-2020-06457 Regulatory Interest: Updated Coupling Design Installed on Unit 2, Primary Heat Transport Pump 3, Without Item Equivalency Evaluation

2020 D-2020-06690 Regulatory Interest: Follow-Up Bioassay Sample from Personal Contamination Event

2020 D-2020-06788 Unplanned Power Change: Unit 2 Hydrogen Leak Leading to Manual Turbine Trip

2020 D-2020-06885 Licence Non-compliance: Open Container with Tritiated Water found in Unit 2, Moderator Purification Room

2020 D-2020-07693 Revised Safety Analysis: Continued Operation of Inspected Pressure Tube Based on Predicted Hydrogen Equivalent Concentration Level Exceeding Terminal Solid Solubility for Hydrogen Dissolution

2020 D-2020-07926 Regulatory Interest: Ministry of Environment, Conservation and Parks Notified, Small Oil Leak on Unit 2 Main Output Transformer Red Phase

2020 D-2020-08117 Regulatory Interest: Ministry of Labour Notified, Employee Fainted and Hit Head in Cafeteria, Not Work Related

2020 D-2020-08421 Unplanned Power Change: Unit 1 Power Reduced to 59% Full Power Due to Sustained Elevated Turbine Bearing 7 Vibration

2020 D-2020-08963 Regulatory Interest: Unit 2 Transient, Turbine Generator Spurious Load Reduction

2020 D-2020-99999 Regulatory Interest: Darlington Employees Tested Positive for COVID-19, Not Work Related

2020 N-2020-04266 Regulatory Interest: Ontario Power Generation Corporate Crisis Management and Communications Centre Activation

2020 D-2020-09118 Regulatory Interest: Main Security Building Loss of Power, No System Risks and/or Breach

2020 D-2020-10107 Regulatory Interest: Discrepancy Found in Reportable Deferral Numbers for

2020 D-2020-10128 Unplanned Power Change: Unit 3 Setback Due To Flux Tilt

2020 D-2020-10471 Operations Support Building Fire Alarm Activation: Battery-Powered Vacuum Fire in Janitor Closet, No Injuries

2020 D-2020-10481 Unplanned Power Change: Unit 4 Shutoff Rod Stuck During Testing, No Reactivity Impact

2020 D-2020-10656 Licence Non-Compliance: Unit 3 Fixed Area Alarming Gamma Monitors (FAAGMs) Out of Calibration

2020 D-2020-12002 Environmental Release Control: Refrigerant Leak on Refrigeration

2020 D-2020-12220 Regulatory Interest: Ministry of Labour Notified, Cable Damaged During Concrete Key Removal, No Injuries

2020 D-2020-13010 Unplanned Power Change: Unit 1 Adjuster Rod Drove Out of Core, No Reactivity Impact

2020 D-2020-13515 Unplanned Power Change: Unit 1 Setback Due To Flux Tilt

2020 D-2020-13776 Regulatory Interest: Roadrunner Transportation Package Shield Plug Missing Bearing Pad, No Safety Impact

2020 D-2020-99998 Regulatory Interest: Darlington Employee Tested Positive for COVID-19, Not Work Related

2020 D-2020-14917 Environmental Release Control: Refrigerant Leak on Refrigeration

2020 D-2020-14925 Degradation: Unit 4 Standby Class 3 Power Unavailable

2020 D-2020-16523 Regulatory Interest: Pressure Boundary Noncompliance, Unit 2 Carbon Steel to Stainless Steel Adaptors, No Operability Impact

2020 D-2020-16746 Emergency Power Generator 2 Building Fire Alarm Activation: Bearing Oil Leak, No Injuries

2020 D-2020-16833 Unplanned Power Change: Unit 2 Stepback on Turbine Load

2020 D-2020-18461 Regulatory Interest: Ministry of Labour Notified of Critical Injury, Fractured Ankle When Descending Stairs

2020 D-2020-18472 Degradation: Unit 3, Grid Disturbance Leads to Unavailability of Unit Secondary Control Area Air Conditioning Units

2020 D-2020-18955 Unplanned Power Change: Unit 2, Brief Power Reduction to 88% Full Power due to Unexpected Change in Channel Outlet Temperature

2020 D-2020-18978 Regulatory Interest: Confirmatory Bioassay Results

2020 D-2020-19382 Degradation: Unit 1, Shutdown Cooling Unavailable due to Programmable Controller Fault

2020 D-2020-19549 Regulatory Interest: Incorrect Fuse in Operating Documentation for Rod-Based Guaranteed Shutdown State

2020 D-2020-99997 Regulatory Interest: Contract Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-01493 Environmental Release Control on Refrigeration Unit

2021 D-2021-02568 Regulatory Interest: Ministry of Labour Notified of Injury, Fractured Wrist, Slip and Fall on Approved Walkway

2021 D-2021-02911 Regulatory Interest: Darlington Contract Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-02998 Regulatory Interest: Ministry of Labour Notified of Injury, Fractured Wrist, Slip on Stairwell

2021 D-2021-03011 Licence Non-Compliance: Amended Radiation Protection Regulations SOR/2020-237

2021 D-2021-04248 Regulatory Interest: Darlington Employees Tested Positive for COVID-19, Not Work Related

2021 D-2021-04856 Regulatory Interest: Darlington Contract Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-05393 Missed Predefine: Unit 1 Safety-Related System Test Completed After Late Date

2021 D-2021-05485 System Degradation: Unit 2 Steam Generator Emergency Cooling System Potential Unavailability, due to Environmentally-Qualified Junction Boxes Found Without Drain Holes

2021 D-2021-05636 Regulatory Interest: Darlington Contract Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-06714 Research Findings: Darlington Pressure Tube Inlet Rolled Joint Hydrogen Equivalent Concentration Results

2021 D-2021-06730 Regulatory Interest: Darlington Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-07030 Regulatory Interest: Darlington Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-07083 Degradation: Loss of Steam Protection to Main Control Room resulted in brief Shutdown System 1 Impairment Equivalent

2021 D-2021-07517 Unplanned Power Change: Unit 1 Turbine Generator Trip

2021 D-2021-08207 Unplanned Power Change: Unit 4 Turbine Trip during Execution of Safety-Related System Test

2021 D-2021-08324 Research Finding: Analysis Gap for Emergency Coolant Injection Pipe Breaks

2021 D-2021-08699 Regulatory Interest: Darlington Employees Tested Positive for COVID-19, Not Work Related

2021 D-2021-08785 Regulatory Interest: Hydro Pole Fire in Upper Parking Lot, outside of Darlington Protected Area

2021 D-2021-09524 Operating Experience: Unit 2, Through Bolt Material Grade Designation Discrepancy between Installed Material and Design Documentation for Auxiliary Shutdown Cooling Pumps, no Operability Impact

2021 D-2021-09751 Nuclear Safety Analysis Finding: Updated Analysis Predicts Lower Containment Repressurization Times than in Darlington Safety Report, no impact to Safe Operating Envelope Limits

2021 D-2021-11300 Regulatory Interest: Confirmatory Bioassay Results

2021 D-2021-11848 Regulatory Interest: Moisture Separator Degradation Observed during Planned Steam Generator Inspection, No Safety Impact

2021 D-2021-12086 Research Findings: Darlington Pressure Tube Inlet Rolled Joint Hydrogen Equivalent Concentration Results

2021 D-2021-12174 Licence Non-Compliance: Orange Badge Qualified Workers Entered Radiation Area without Radiation Exposure Permits or Electronic Personal Dosimetry, No Significant Radiation Exposures Resulted

2021 D-2021-12227 Licence Non-Compliance: Station Minimum Complement

2021 D-2021-12470 Regulatory Interest: Ministry of Labour Notified of Injury, Fractured Ankle When Descending Stairs

2021 D-2021-12506 Research Findings: Unit 3, Channel S13, Darlington Axial Delayed Hydride Cracking Growth Rate Results

2021 D-2021-12971 Regulatory Interest: Ministry of Labour Notified of Accident, Tape Measure Contacts Prongs of Energized Ground-Fault Circuit Interrupter, No

2021 D-2021-13173 Regulatory Interest: Member of public observed speeding on-site, prohibited items discovered in vehicle, turned over to Durham Regional Police

2021 D-2021-13523 Regulatory Interest: Ministry of Environment, Conservation and Parks Notified, Missing Data from Lagoon Datalogger

2021 D-2021-13995 Regulatory Interest: Ministry of Labour Notified of Injury, Fractured Wrist due to Fall in Parking Lot, outside of Darlington Protected Area

2021 D-2021-14288 Regulatory Interest: Member of public observed speeding on-site, driving unsafely, suspected intoxicated, turned over to Durham Regional Police

2021 D-2021-15065 Safeguards: Inadvertently-Broken International Atomic Energy Agency Seal, East Fuelling Facility Auxiliary Area Bridge

2021 D-2021-15768 Environmental Release Control: Small Oil Sheen on Oil Contaminated Water Treatment System Pump, Discharge to Forebay, no Adverse Environmental Impact

2021 D-2021-16298 Licence Non-Compliance: Improperly Labelled Radiological Hazard, Waste Bag

2021 D-2021-17619 Regulatory Interest: Darlington Contract Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-17749 Regulatory Interest: Unit 4 Hydrazine Spill Found, resolved with no immediate health impacts

2021 D-2021-17939 Regulatory Interest: Three Shutdown System 2 Neutron Overpower Detectors Prompt Fractions Estimated Below 80%, no Operability Impact

2021 D-2021-18757 Regulatory Interest: Ministry of Labour Notified of Injury, Two Fractured Fingers, Pinched Between Hydraulic Ram Body and Cylinder Nut

2021 D-2021-19052 Regulatory Interest: Darlington Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-19117 Potential Programmatic Licence Non-compliance: Adverse Trend - Gaps in Implementation of Safe Operating Envelope, no Nuclear Safety Impact

2021 D-2021-19233 Regulatory Interest: Confirmatory Bioassay Results

2021 D-2021-19395 Licence Non-compliance: Heavy Water Management Building, West Annex, Fixed Area Alarming Gamma Monitors Out of Calibration

2021 D-2021-19465 Regulatory Interest: Darlington Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-99999 Regulatory Interest: Darlington Contract Employee Tested Positive for COVID-19, Not Work Related

2021 D-2021-19709 Licence Non-compliance: Radiation Hazard Warning Not Posted at Unit 2, Airlock 2 Access Control Gate

2021 D-2021-19938 Regulatory Interest: Darlington Employee Tested Positive for COVID-19, Not Work Related

2022 D-2022-00341 Regulatory Interest: Ministry of Labour, Training and Skills Development (MLTSD) Critical Injury Notification, Employee Fractured Ankle

2022 D-2022-00429 Missed Predefine: Annual Refrigerant Leak Test for Air Conditioning Unit for Emergency Power System Room

2022 D-2022-00642 Regulatory Interest: Ministry of Environment, Conservation and Parks (MECP) Notified, Missed Weekly Municipal and Industrial Strategy for Abatement Sampling

2022 D-2022-00824 Regulatory Interest: Darlington Employee Tested Positive for COVID-19, Not Work Related

2022 D-2022-00910 Degradation: Unit 2, Emergency Service Water System Supply to Moderator Unavailable

2022 D-2022-01842 Licence Non-Compliance: Unposted Hazard, Unsealed Carboy in Heavy Water Management Building

2022 D-2022-02690 Regulatory Interest: Darlington Employee Tested Positive for COVID-19, Not Work Related

2022 D-2022-02906 Regulatory Interest: Darlington Employee Tested Positive for COVID-19, Not Work Related

2022 D-2022-04308 Regulatory Interest: MLTSD Notification, employee lost consciousness, Not Work Related

2022 D-2022-06567 Licence Non-Compliance: Delay to Submission of Inventory Change Document

2022 D-2022-07150 Suspect Counterfeit or Fraudulent: Potential Nonconforming

2022 D-2022-07509 Unplanned Power Change: Unit 4 Transient due to Unexpected Rapid Load Reduction

2022 D-2022-09684 Unplanned Power Change: Unit 2 Turbine Trip on Main Output Transformer Differential Protection

2022 D-2022-10326 Regulatory Interest: MLTSD Notification, Employee Fractured Wrist and Ribs, Descending a Ladder

2022 D-2022-10388 Regulatory Interest: MLTSD Notification, Employee Lost Consciousness, Not Work Related

2022 D-2022-10574 Research Findings: Impact of Aging of Shutdown System Neutron Overpower Pt-clad Inconel In-Core Flux Detectors Not Fully Accounted for in Design and Safety Analyses, No Operability Impact

2022 D-2022-13707 Suspect Counterfeit or Fraudulent: End Fitting Material

2022 D-2022-13844 Licence Non-Compliance: Station Minimum Complement

2022 D-2022-15397 Regulatory Interest: MECP Notified, Compromised Weekly Morpholine Sample Result

2022 D-2022-17042 Unplanned Power Change: Unit 2, Turbine Reheat Emergency Stop Valve Failed During Testing

2022 D-2022-17199 Contingency Plan: Tritium Removal Facility, Fire Event in Electrical Panel, no Operability Impact and Safely Resolved

2022 D-2022-17264 Environmental Release Control on Refrigeration Unit

2022 D-2022-18430 Regulatory Interest: MLTSD Notification, Employee Fractured Two Fingers Between Paver and Skid Steer Bucket, Outside Protected Area

2022 D-2022-18605 Licence Non-Compliance: Unposted Hazards, Unit 2 Rooms

2022 D-2022-18827 Licence Non-Compliance: Unlabelled Containers, In Station Flasks

2022 D-2022-19127 Unplanned Power Change: Unit 4 Heat Transport System Increased Leakage to Containment, Resolved and Unit Safely Returned to Service

2022 D-2022-19590 Degradation: Unit 4 Post-Accident Monitoring System (PAMS) Flow Indication Unavailable (FI31K#1 and FI31K#2), no Nuclear Safety Impact

2022 D-2022-19918 Degradation: Unit 4 PAMS Flow Indication Unavailable (FI34L#1 and FI34L#2), no Nuclear Safety Impact

2022 D-2022-20296 Missed Predefine: Unit 2 Safety-Related System Test Completed After Late Date

2022 D-2022-20320 Licence Non-Compliance: Station Minimum Complement

2023 D-2023-02361 Regulatory Interest: Missing Weld on Unit 3 Containment Bulkhead, no Operability Impact

2023 D-2023-02539 Regulatory Interest: Missed Condensate Tank Sampling, minimal Environmental Impact

2023 D-2023-03639 Equipment Misuse: Door Discovered Unsecure, no Threat to Operations, to Staff, or to the Public

2023 D-2023-03876 Degradation: Level 2 Impairment of Emergency Coolant Injection

2023 D-2023-05127 Licence Non-Compliance: Unposted Hazard in West Fuelling Facilities Auxiliary Area, Radiation Waste Bags

2023 D-2023-05295 Regulatory Interest: In Station Transfer Skid Hitch Failure During Pressure Tube/Calandria Tube Flask Transport, no Radiological Consequences and no Personnel Injuries

2023 D-2023-07842 Licence Condition Non-Compliance: Document Issued Without Written Notification to CNSC Staff

2023 D-2023-07852 Regulatory Interest: Coolant Leak from Crane, no Environmental

2023 D-2023-08538 Licence Non-Compliance: Station Minimum Complement

2023 D-2023-08924 Contingency Plan: Unit 1 Boiler Event, no Operability Impact and Safely Resolved

2023 D-2023-09062 Environmental Release Control: Visible Oil Sheen Observed During Oil Contaminated Water Treatment System Sump Discharge, no Environmental

2023 D-2023-09492 Licence Non-Compliance: Heavy Water Management Building, West Annex, Fixed Area Alarming Gamma Monitors Found in Service Beyond Calibration Due Date

2023 D-2023-09873 Licence Non-Compliance: Ion Chambers Import Licence Authorized Quantity Limit Exceeded

2023 D-2023-10433 Environmental Release Control: Unit 3 Boiler Morpholine Exceedance, minimal Environmental Impact

2023 D-2023-10449 Unplanned Power Change: Unit 3 Reactor Setback due to Turbine

2023 D-2023-11222 Licence Non-Compliance: Unposted Radiation Hazard in Active Liquid Waste, Room S-086, Safely Resolved

2023 D-2023-11825 Unplanned Power Change: Unit 3, Moderator Cover Gas High D2 Concentration, no Operability Impact

2023 D-2023-11884 Unplanned Power Change: Unit 2, Pressurizer Steam Loss, no Operability Impact

2023 D-2023-13679 Reactor Control Impairment: Unit 2, Stepback Unavailable, Heat Transport System Safety Function Unavailable, loss of power to 2-63310-PK0003-11, no Operability Impact

2023 D-2023-13773 Environmental Action Level Exceeded: Radiological Airborne

2023 D-2023-15183 Environmental Release Control: Sewage System Spill, outside of Protected Area, no Environmental Impact

2023 D-2023-16681 Regulatory Interest: On-Site Public Address System Audibility

2023 D-2023-17317 Regulatory Interest: Ministry of Labour, Immigration, Training and Skills Development (MLITSD) Notification, Fractured Leg When Descending Stairs

2023 D-2023-17432 Regulatory Interest: Missed Sample Analysis for Total Suspended Solids, Water Supply Plant Neutralization Sump Discharge, minimal

2023 D-2023-17704 Vendor Internal Training Record Quality Document Issue

2023 D-2023-18710 Licence Non-Compliance: Late Notification of Change to Authorized Delegates and Responsible Persons

2023 D-2023-19027 Regulatory Interest: MLITSD Notification, Fractured Ankle When Descending Stairs

2023 D-2023-19111 Reactor Control Impairment: Unit 3 Setback/Stepback Unavailable, Failure of Valve 3-34810-PV106, no Operability Impact

2023 D-2023-19210 Regulatory Interest: Fire Dampers Unavailability Due to Design Condition, no Safety Impact

2023 D-2023-19963 Unplanned Power Change: Temporary Loss of Unit 3 Electrical Bus, no Operability Impact

2024 D-2024-00062 Missed Test: As-Found Test of Pressure and Inventory Control System Bleed Condenser Relief Valve

2024 D-2024-00184 Degradation: Impairment of Negative Pressure Containment System, due to Inadvertent Operation of Circuit Breaker, no Safety or Operability



2024 D-2024-01131 Unplanned Power Change: Unit 3 Transient due to Boiler Feed Pump Trip, no Operability Impact

2024 D-2024-01140 Regulatory Interest: Tubing Penetration Insulation Assumptions at the Feeder Cabinet, no Safety or Operability Impacts

2024 D-2024-01399 Licence Non-Compliance: Heavy Water Management Building, West Annex, Fixed Area Alarming Gamma Monitors Found in Service Beyond Calibration Due Date

2024 D-2024-01731 Environmental Action Level Exceedance: Tritium Removal Facility, Elemental Tritium, Safely Resolved

2024 D-2024-03701 Licence Non-Compliance: Non-Dose Management System Active Worker Entered a Radiological Area, no Exposure Levels or Dose Limits Exceeded

2024 D-2024-06318 Licence Non-Compliance: Driver Left Unescorted in the Protected Area, Safely Resolved

2024 D-2024-06353 Component Degradation: Relief Valve Stuck Closed During As-Found Test

2024 D-2024-06646 Environmental Release Control: Unit 3 Fire Resistant Hydraulic Fluid Leaks, no Environmental Impact

2024 D-2024-06668 Environmental Release Control: Refrigerant Leak on Refrigeration Unit, no Environmental Impact

2024 D-2024-07005 Radiation Protection Action Level Exceedance: Tritium, Unit 2 Moderator Pump Room, Safely Resolved

2024 D-2024-07028 Degradation: Unit 3, Standby Class 3 Power System Unavailable

2024 D-2024-07080 Regulatory Interest: Missed Samples for Total Residual Chlorine, no Environmental Impact

2024 D-2024-07665 Licence Non-Compliance: Driver Left Unescorted in the Protected Area, Safely Resolved

2024 D-2024-08146 Licence Non-Compliance: Reports for Annulus Gas System Unavailability Events not filed per REGDOC-3.1.1

2024 D-2024-08189 Licence Non-Compliance: Deficiency with Radiation Hazard Signage, Unit 3 Gaseous Fission Product Monitoring Room, Safely Resolved

2024 D-2024-08463 Licence Non-Compliance: Notification of Changes to Notice of Regulatory Undertakings Not Issued to CNSC staff

2024 D-2024-09016 Regulatory Interest: Unit 3 Annulus Gas System Leak Detection Unavailable, Relief Valve Opened and Failed to Reseat, no Operability Impact

2024 D-2024-09096 Regulatory Interest: Unit 3 Annulus Gas System Leak Detection Unavailable, Relief Valve Opened and Failed to Reseat, no Operability Impact

2024 D-2024-09569 Regulatory Interest: Late Chlorine Analysis, no Environmental

2024 D-2024-09596 Regulatory Interest: Potential Unanticipated Neutron Radiation at Retube Waste Processing Building, Below Posting or Dosimetry Requirements

2024 D-2024-09607 Missed Predefine: Relief Valve Testing Date Missed

2024 D-2024-10350 Degradation: Unit 2, Standby Class 3 Power System Unavailable

2024 D-2024-10829 Missed Predefine: Unit 2 Emergency Coolant Injection Instrumentation Calibration

2024 D-2024-11297 Environmental Release Control: High Chlorine in Condenser Cooling Water Discharge, no Environmental Impact

2024 D-2024-11487 Licence Non-Compliance: Radioactive Drums without Visible Labeling, Safely Resolved

2024 D-2024-11508 Degradation: Unit 1, Standby Class 3 Power System Unavailable

2024 D-2024-12516 Unplanned Power Change: Unit 3, Condenser Cooling Water Pump Trips on High Travelling Screen Differential Pressure, no Operability Impact

2024 D-2024-13161 Component Degradation: Relief Valve As-Found Test Failed High

2024 D-2024-13433 Licence Non-Compliance: Unposted Radiation Hazard in Fuel Handling Maintenance Shop Rubber Area, Safely Resolved

2024 D-2024-13670 Missed Predefine: As-Found Test of Primary Heat Transport System Feed Circuit Relief Valve

2024 D-2024-13673 Degradation: Unit 1 Secondary Control Area Unavailable due to Air Conditioning Units Unavailability

2024 D-2024-13891 Degradation: Unit 2, Steam Generator Emergency Cooling System Unavailability, Valves Failed to Open, no Operability Impact

2024 D-2024-13918 Component Configuration: Unit 1, Moderator Cover Gas System Valve Handle Installed Incorrectly, no Operability Impact

2024 D-2024-14200 Contingency Plan: Welding Hot Work Event on Feeder Cabinet Catwalk, Safely Resolved

2024 D-2024-14205 Component Degradation: Relief Valve As-Found Test Failed High

2024 D-2024-14693 Licence Non-Compliance: Unlabeled Radioactive Waste, Safely Resolved

2024 D-2024-14701 Safeguards: Lost Power to IAEA Camera Control Cabinet, Unplanned Power Outage, Safely Resolved

2024 D-2024-14947 Programmatic Non-Compliance: Unresolved Gaps Related to OPG/Subsidiary Interface

2024 D-2024-15201 Misuse: Worker Covered Audio-Visual Telemetry System Camera, Safely Resolved

2024 D-2024-Q4 not available