



ONR INSTRUCTION			
ONR Response to a Class 2 Event – Potential Nuclear or Radiological Emergency			
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1. INTRODUCTION

1.1 The ONR response to a Class 2 event is designed to be flexible and may range from maintaining periodic contact with an operator, licensee or duty-holder to the full mobilisation of ONR resources equivalent to the response to a Class 1 event. The responsibilities of ONR in a Class 2 event are to:

1. monitor events and the actions taken to restore safety; and
2. advise central and/or devolved government.

1.2 Where reference is made within this Instruction to a particular grade of inspector performing a particular role, when no inspector of that grade is available, an inspector who is of a grade below may act in that role (e.g. a Deputy Chief Inspector may deputise for the Chief Nuclear Inspector; a Principal Inspector may deputise for a Superintending Inspector; etc.).

2. PURPOSE AND SCOPE

2.1 This document establishes the procedure to be followed when responding to a Class 2 Event in ONR emergency arrangements, in order to ensure an effective and proportionate response that can be readily scaled up in response to an escalation.

3. DEFINITIONS

3.1 **Class 2 Event**^①: In the opinion of the ONR:

3.2 an event on a GB nuclear site that is not a declared off-site nuclear emergency, but has the potential to escalate into an off-site nuclear emergency; or

3.3 a transport or security related event that constitutes, or may escalate into, a radiation emergency; or

3.4 a nuclear event likely to attract, or that have attracted, significant national media or public attention (including overseas nuclear events).

3.5 **GB Nuclear site**: A nuclear site in England, Scotland or Wales (including both licensed sites and MoD sites).

3.6 **Opinion of the ONR**: The opinion of the most senior ONR Inspector who has been informed of the event.

3.7 **Emergency Arrangements Communications Directory** – The EACD (Ref. 6.2) is the section of the Emergency Procedures Handbook that identifies personnel who are suitably qualified and experienced (SQEP) and have been trained to undertake specified roles as part of the ONR emergency response, and provides their contact details. The EACD also contains the contact details of other relevant organisations.

4. PROCEDURE

4.1 This procedure applies when, after following ONR-EP-IN-002 *Emergency Arrangements – Initial Notification and Event Classification* (Ref 6.1), the Nominated Inspector determines that a Class 2 event has occurred.

4.2 The Nominated Inspector must advise the operator, licensee or duty-holder (OLD) that all further contact with the ONR is to be made directly with them until told otherwise.

^① Examples of Class 2 Events are given in Appendix 2

- 4.3 The Nominated Inspector must contact the DCI for the affected site or the DCI with responsibility for Transport (as appropriate), or failing that, any other DCI, to consider the initiation of the following actions¹:
1. Request that the Site Inspector attend site (possibly with a supporting inspector);
 2. Partial to full activation of the Redgrave Court Incident Suite (RCIS) [see Appendix 1];
 3. Advise Department of Energy and Climate Change (DECC), Scottish Government and/or MoD of the ONR response to the event;
 4. Advise other government departments of the ONR response, where appropriate;
 5. Organise the provision of advice, on demand, to other government departments; &/or
 6. Request that the OLD submit an INF1 report — see ONR-OPEX-IN-001 (Ref. 6.3).
- 4.4 The Nominated Inspector should make use of ONR personnel listed in the EACD to assist them in any action to be taken.
- 4.5 The Nominated Inspector should advise the operator of actions undertaken by ONR in response to the alert.
- 4.6 The DCI should liaise with the CNI concerning the action taken.
- 4.7 The CNI and/or DCI should consider whether a member of the ONR Board should be notified of the event.
- 4.8 A Class 2 event on a GB nuclear site ends when, in the opinion of the ONR, either there is no longer a potential that the event may escalate into an off-site nuclear emergency or an off-site nuclear emergency is declared (see ref. 6.4 or ref. 6.5).
- 4.9 A Class 2 transport related event ends when, in the opinion of the ONR, there is no longer a potential that the event may escalate into a radiation emergency or the advice of the ONR is no longer required.

5. ASSOCIATED DOCUMENTS

- 5.1 [ONR-EP-IN-002 - Initial Notification and Event Classification.](#)
- 5.2 [Emergency Arrangements Communications Directory](#) (EACD), ONR Emergency Procedures Handbook.
- 5.3 [ONR-OPEX-IN-001 - Incident Notification and Reporting process.](#)
- 5.4 [ONR-EP-IN-003 - ONR Response to a Class 1 Event](#)
- 5.5 [ONR-OPEX-GD-001 - Notifying and Reporting Incidents and Events to ONR](#)

¹ Out of office hours, the Nominated Inspector may (alternatively) contact the on call GTA.

A1. APPENDIX 1: RCIS STAFF DURING A CLASS 2 EVENT

A1.1 Recommended Minimum Staff required for Partial Activation of RCIS

- RCIS Director
- Lead Administration Officer (or Information Officer)
- * Communications Officer (if matter of public interest or concern)
- * Health Physicist (if radiological data requires interpretation)
- * Inspector[s] 1 [& 2] (from relevant engineering discipline[s] if plant data requires interpretation)
- * Civil Nuclear Security Inspector (if security implications with regard to civil nuclear site or transport)
- * Radioactive Materials Transport Inspector (if civil transport related event)

A1.2 Staff required for Full Activation of RCIS

(see ONR-EP-IN-003 for ONR “away team” roles)

- RCIS Director
- RCIS Deputy Director
- Inspectors 1 & 2
- Health Physicists 1 & 2
- Communications Officer
- * Civil Nuclear Security Inspector (if security implications with regard to civil nuclear site or transport)
- * Radioactive Materials Transport Inspector (if civil transport related event)
- Lead Information Inspector
- Technical Cell Inspectors 1 & 2
- Lead Administration Officer
- Situation Report Inspector (*formerly Rolling Brief Inspector*)
- Information Officers 1 & 2
- Telecommunications Officer

A2. APPENDIX 2: EXAMPLES OF CLASS 2 EVENTS

Those events specified in ONR-OPEX-GD-001 *Notifying and Reporting Incidents and Events to ONR* (Ref 6.6) as immediately notifiable or as security events with the potential to cause a nuclear or radiological emergency (see Table 1 below), may be determined to be Class 2 Events. For the purpose of ONR's emergency arrangements, overseas nuclear events are considered as category AN01.

Events other than those listed below may be determined to be Class 2 events by the Nominated Inspector.

Table 1: Notification categories and descriptors

AN01	Events likely to attract, or that have attracted, significant national media or public attention [where those events relate to the purposes of the ONR ^① as defined in the Energy Act 2013]
NS01	Any explosion or outbreak of fire on a licensed site affecting or likely to affect the safe working or safe condition of the nuclear installation.
NS02	Any uncontrolled criticality excursion.
NS03	Examination, inspection, maintenance, test or operation of any part of the plant revealing that the safe operation or condition of the plant may be significantly affected.
NS04	Declaration of a site incident or condition, where personnel or resources are mobilised in response to an unexpected occurrence that creates a hazard to the safe operation of the facility, and/or to the health and safety of personnel on or off the site.
RS01	Any occurrence on a licensed site involving the emission of ionising radiations or the release of radioactive or toxic substances, causing or likely to cause death, or serious injury to persons on or off the site.
RS02	Abnormal occurrences leading to a radioactive substance which has been:- (a) released or is likely to have been released into the atmosphere as a gas, aerosol or dust; or (b) spilled or otherwise released in such a manner as to give rise to significant contamination; and which exceeds or is expected to exceed, the quantities set out in Column 4 of Schedule 8 to the IRR 1999, except where the release is in a manner specified in an Authorisation under the Environmental Permitting Regulations 2010 (EPR 2010) or the Radioactive Substances Act 1993 (RSA 93) in Scotland.
RS03	Abnormal occurrences leading to a release or suspected release or spread of radioactivity, on or off site, which requires special action or special investigation by the operator.
SC10a	Any unauthorised incursion on to the premises or any attempted or suspected such incursion.
SC10b	Any incident occurring on the premises involving an explosive or incendiary device or suspected such device, or a firearm or replica firearm.
SC 10c	Any damage to any building or equipment on the premises which might affect the security of the premises or any material or equipment mentioned in regulation.

^① Including nuclear safety, nuclear site health and safety, nuclear security, nuclear safeguards, & civil transport of radioactive material.

SC10d	Any malicious damage to any building or equipment on the premises, other than any trivial damage that does not affect the security of the premises or any material or equipment mentioned in regulation 4(2).
SC10e	Any theft or attempted theft, or any loss or suspected loss, or any unauthorised movement:- of any nuclear material used or stored on the premises or in transit to or from them, or in the case of premises which are or form part of a nuclear site, of any other radioactive material used or stored on them.
TS01	A radiological emergency: a situation arising during the course of the carriage of a consignment of class 7 goods that requires urgent action in order to protect workers, members of the public or the population (either partially or as a whole) from exposure
TS02	Theft or loss of the class 7 goods in carriage
TS03	Emergency arrangements have been initiated in relation to class 7 goods even if, in the event, no intervention was made pursuant to those arrangements
TS04	An occurrence during loading, carriage or unloading of class 7 goods involving: <ul style="list-style-type: none"> a) Any release of radioactive material from the packages, or from the conveyance if being transported unpackaged b) Exposure leading to a breach of the limits set out in the regulations for protection of workers and members of the public against ionising radiation (Schedule II of IAEA Safety Series No. 115 – “International Basic Safety Standards for Protection Against Ionising Radiation and for Safety of Radiation Sources”)
TS05	An occurrence during loading, carriage or unloading of class 7 goods where there is reason to believe that there has been a significant degradation in any package safety function (containment, shielding, thermal protection or criticality) that may have rendered the package unsuitable for continued carriage without additional safety measures