

Environmental Authorisations (Scotland) Regulations 2018

Guide to Standard Conditions for radioactive substances activities

Table of Contents

A.	All authorised activities.....	3
A.1	Resources	3
A.2	Management arrangements	3
A.3	Written procedures	4
A.4	Record keeping	5
A.5	Provision of training and information to staff.....	7
A.6	Facilities and equipment	8
A.7	Sampling, measurements, tests, surveys and calculations	10
A.8	Provision of information and data returns	11
A.9	Contraventions of your authorisation	11
A.10	Ceasing your authorised activity and leaving the authorised place.....	13
B.	All radioactive substances regulated activities.....	13
B.1	Overarching requirement	13
B.2	Radioactive waste optimisation.....	14
B.3	Receipt of radioactive waste from another person.....	15
B.4	Safe management of radioactive substances	15
B.5	Contamination control and remediation	19
B.6	Treatment of radioactive waste	21
B.7	Holdings of radioactive substances	22
B.8	Waste management plan	23
B.9	Lost and stolen radioactive substances	24
B.10	Radioactive Waste Advisers	24
C.	Transfers of radioactive substances	25
C.1	Duty of care	25
C.2	Transfer procedure.....	26
C.3	Transfer of radioactive waste	28
C.4	Transfer of radioactive waste outside of the United Kingdom	29
C.5	Transfer of intermediate level radioactive waste to other parts of the United Kingdom	30
C.6	Return of radioactive waste.....	31
C.7	Transfer of samples	32
D.	Sealed Sources	33
D.1	Holdings of sealed source.....	33
D.2	Security requirements for sealed sources.....	34
E.	High Activity Sealed Sources (HASS).....	35
E.1	Financial provision	35

E.2	HASS information and marking requirements.....	36
F.	Mobile Radioactive Sources.....	36
G.	Disposal of Radioactive Waste	38
G.2	Evaluation of releases	40
G.3	Disposal in normal refuse.....	40
G.4	Radioactive aqueous liquid disposals - small quantities	42
G.5	Radioactive gaseous releases - small quantities	42
H.	Further Conditions for permits with bespoke disposal conditions.....	43
H.1	Assessment of public exposure and the environment	43
H.2	Radioactive gaseous discharges outwith authorised outlets	43
I.	Introduction of radioactive material into organisms.....	44
J.	Environmental Monitoring Programme	46
K.	Conditions applicable to Offshore installation Registrations.....	48
	Appendix 1: SEPA Contact Details	50

A. ALL AUTHORISED ACTIVITIES

A.1 Resources

<p>A.1.1 <i>You must have adequate financial and human resources to ensure compliance with your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 7(5) of the SFRWD. This rule supports IAEA GSR part 2 requirement 5. Providing and maintaining sufficient resource to carry out your regulated activity is fundamental to ensuring control of the radioactive substances.</p>	<p>Reason</p>
<p>SEPA does not specify minimum resource levels, such as numbers of staff or size of budget. This is left to you to decide what is necessary and to manage the inevitable fluctuations due to medium to long term staff absences or changes to your funding. It is recommended that the minimal resource needed to carry out your regulated activity, including but not limited to staffing, equipment, facilities and budgets is identified in writing, at least in an indicative manner. It is also recommended that any longer term deviations from this minimal level are justified in writing</p>	<p>Guidance</p>

A.2 Management arrangements

<p>A.2.1 <i>You must have and maintain a management system to ensure compliance with your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Articles 5(1)(d), 5(1)(h), 7(4) and 7(5) of the SFRWD. This condition supports IAEA GSR part 2 requirements 5 and 9. You need a formal, robust management system to ensure control of the radioactive substances at all times in order to avoid an unplanned exposure to a member of the public, harm to the environment or the generation of unnecessary radioactive waste.</p>	<p>Reason</p>
<p>Good management is fundamental to ensuring the safety of the radioactive substances. SEPA expects a defined management structure with evident organisational commitment to compliance with the Authorisation. Staff at various levels should be able to explain their roles and responsibilities in relation to radioactive substance management. The types of things that should form the management arrangements are, for the most part, the topics of the rest of the Standard Conditions in Sections A and B. For more information on management systems, see the IAEA Safety Standards document “Application of the Management System for Facilities and Activities (GS-G-3.1)”.</p>	<p>Guidance</p>

<p>A.2.2 <i>You must regularly carry out a review of your management system and its effectiveness in terms of achieving compliance with your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Articles 7(2) and 7(4) of the SFRWD. This condition supports IAEA GSR part 2 requirement 13. Internal review of the management system provides demonstration that it remains fit for purpose for ensuring the safety of the radioactive substances.</p>	<p>Reason</p>
<p>SEPA expects you to review or audit the management system in your organisation in relation to radioactive substances on a regular basis. The frequency of the review or audit has not been defined; however, it should reflect the complexity of the radioactive substances activities undertaken as well as the rate and amount of change that has occurred to your management system since it was last reviewed. When deviations are identified, appropriate corrective actions should be proposed and taken.</p> <p>SEPA expects that the review or audit will be recorded and the outcome will be written down and available for inspection.</p> <p>It is possible to make use of external audits, for example relating to ISO 14000 accreditation, to comply with this rule. However, the audit must specifically cover your management system in relation to radioactive substances and compliance with this Authorisation.</p>	<p>Guidance</p>

A.3 Written procedures

<p>A.3.1 <i>You must have, implement and maintain written procedures to ensure compliance with your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 5(1)(d) of the SFRWD. This condition supports IAEA GSR part 2 requirement 13. Written procedures are the fundamental underpinning of your management arrangements for activities involving radioactive substances and compliance with the conditions and limitations of the Authorisation. These procedures must be regularly and formally reviewed to ensure they remain valid and reflect the current arrangements.</p>	<p>Reason</p>

<p>The purpose of requiring the written procedures is to ensure you detail how you will comply with your Authorisation. It is essential that you carefully scrutinises the Standard Conditions and any bespoke rules in your Permit and ensures that there are appropriate procedures in place to cover all of them. SEPA expects that the detail and complexity of the procedures will be proportionate to the risk posed by the radioactive substances and the complexity of their activities involving radioactive substances.</p> <p>Procedures can be in electronic or paper form. However, SEPA does expect that you will have considered the maintenance, security and redundancy issues of both formats and made suitable arrangements.</p> <p>It is not necessary to duplicate existing procedures or documents solely for the purposes of satisfying this requirement. It is perfectly acceptable to refer out to existing procedures. Although not required, you may prefer to create a compliance matrix document that specifically addresses how each requirement will be complied with or signposts where the appropriate procedure can be found.</p> <p>It is recommended that the relevant procedures are incorporated into your controlled document management system (if available) in order to ensure that they have formal standing within your organisation, a recognised person responsible for their maintenance and they are subject to periodic review in accordance with your quality management system.</p>	Guidance
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

A.4 Record keeping

<p>A.4.1 <i>You must make, as soon as reasonably practicable, true, accurate and legible records that ensure and demonstrate compliance with the requirements of your authorisation.</i></p>	Rule (Condition)
<p>This condition supports Article 5(1)(d) of the SFRWD and Articles 85(2) and 86(2) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirements 13 and 17.</p> <p>Records are the principle means of demonstrating compliance with the requirements attached to the Authorisation. For that reason, it is imperative that the records are true, accurate and legible.</p>	Reason
<p>It is essential that you make all records that you need to be able to comply with your authorisation. You should also keep records to demonstrate that you have complied with your authorisation.</p> <p>“Records” refers to a wide range of documents, from the specified data required to be kept by other Standard Conditions to things such as BPM cases, contamination or environmental monitoring and staff training records. Any document that you use to demonstrate compliance with the authorisation will fall into this category. This will probably include previous authorisations issued to you (or transferred to you) and records made under those authorisations or authorisations issued to another person that has been transferred to you.</p> <p>SEPA does not require the records to be kept in a particular format (e.g. electronic or paper). However, SEPA does expect that you will have considered the maintenance, security and redundancy issues of both formats and made suitable arrangements to ensure the records are available as required.</p>	Guidance

<p>A.4.2 <i>You must keep sufficient records as long as necessary to ensure and demonstrate compliance with your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 5(1)(d) of the SFRWD and Articles 85(2) and 86(2) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirements 13 and 17.</p> <p>Records are the principle means of demonstrating compliance with the requirements attached to the Authorisation. For that reason, it is imperative that the records are retained for as long as necessary.</p>	<p>Reason</p>
<p>SEPA does not specify the location where your records must be kept (e.g. at the Authorised Place). However, wherever they are kept, bear in mind that SEPA expects all records to be reasonably available for inspection.</p> <p>It is recognised that you may use the records for other purposes (e.g. billing) and that some records may also be kept by different parts of your organisation (e.g. finance, facilities, and human resources) or by contract partners. It is your responsibility to ensure the relevant records are accessible, legible and are set out in a manner to demonstrate compliance with the Authorisation.</p> <p>SEPA does not set any restrictions on the length of time you must keep your records. However, you must consider what each record does in terms of demonstrating compliance. You may prefer to establish a record retention schedule for all of your records, setting out the time you intend to keep them. Please note that SEPA will not approve the schedule, but we may ask to see it as part of an inspection.</p>	<p>Guidance</p>

<p>A.4.3 <i>Your records must include the required records specified in Schedule 1 of these Standard Conditions.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports IAEA GSR part 3 requirements 13 and 17.</p> <p>This condition supports the IAEA Code of Conduct of the Safety and Security of Radioactive Sources.</p> <p>EA(S)R schedule 8 para 19 (f) (G) (h).</p> <p>SEPA has prescribed a minimum set of records for each Regulated Activity or sub-activity in order to ensure that there is a minimum amount of information available. Schedule 1, row 2 fulfil BSSD articles 85 & 86.</p>	<p>Reason</p>
<p>The prescribed set of records is the minimum you must keep. SEPA anticipates that you may need to keep many other records to fully demonstrate compliance with your Authorisation.</p>	<p>Guidance</p>

A.5 Provision of training and information to staff

<p>A.5.1 <i>You must ensure that anyone carrying out duties that may affect compliance with your authorisation is suitably trained and experienced.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 8 of the SFRWD and Article 14(1) of the BSSD. This condition supports IAEA GSR part 3 requirement 26. In order to ensure compliance with your arrangements, it is necessary that all staff that have access to the radioactive substances or responsibility for compliance with the authorisation are appropriately trained.</p>	<p>Reason</p>
<p>This requirement applies to both staff that interact with the radioactive substances as part of their normal duties as well as their supervisors and managers who will have responsibility for compliance with the Authorisation. It is expected that the level of training will be proportional to the level of interaction and responsibility of the individual staff member. Training may involve formal classroom sessions/courses as well as hands-on practical instruction as part of the staff member's duties and will involve refresher training as required. All relevant training should be recorded. For more complex sites or activities, you may prefer to create and maintain a matrix of training compared against the general duties of each staff member, task or post.</p>	<p>Guidance</p>

<p>A.5.2 <i>You must ensure that anyone carrying out duties that may affect compliance with your authorisation has access to a copy of your authorisation and all relevant procedures and records that are necessary to ensure compliance with your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 8 of the SFRWD and Article 14(1) of the BSSD. This condition supports IAEA GSR part 3 requirement 26. In order to ensure compliance with your Authorisation, it is necessary that all relevant staff have access to the Authorisation and all relevant procedures and records that are necessary to ensure compliance.</p>	<p>Reason</p>
<p>This is essentially a replacement for section 19 of RSA93, which required display of your certificate of registration or authorisation. For security reasons, it has not always been feasible to display these documents in public. The information can be held in paper or electronic format.</p>	<p>Guidance</p>

A.6 Facilities and equipment

<p>A.6.1 <i>You must provide suitable facilities and equipment that are necessary to ensure compliance with your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 68(b) of the BSSD. This condition supports IAEA GSR part 3 requirement 13. Suitable facilities, systems and equipment must be provided for the management of radioactive substances in order to achieve and maintain an optimal level of protection of the environment and the population and to minimise the potential for the generation of unnecessary radioactive waste.</p>	<p>Reason</p>
<p>SEPA does not specify what facilities and equipment are needed for managing your radioactive substances as you are the best person to make this decision. You should consider what “hardware” is needed, including but not limited to floors, ceilings, walls, furniture, waste bins, tanks, pipework, ducting, sinks and fume hoods used in conjunction with the radioactive substances as well as any items that contribute to BPM (e.g. filters). The use of the word “provided” rather than “used” is intended to ensure that any back-up systems are maintained to the same level as those in use at any particular time.</p>	<p>Guidance</p>

<p>A.6.2 <i>You must have and comply with appropriate arrangements for the acceptance into service of all facilities and equipment that are necessary to ensure compliance with your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 68(b) of the BSSD. This condition supports IAEA GSR part 3 requirement 13. It is essential that all facilities and equipment involved in radioactive substances have been designed, constructed, modified or chosen to fulfil appropriate criteria and will function correctly once used or installed. Failure to meet these criteria may result in loss of control of the radioactive substances and the potential for an unplanned exposure to a member of the public, harm to the environment or the generation of unnecessary radioactive waste.</p>	<p>Reason</p>
<p>SEPA expects that you will have in place procedures for establishing acceptance criteria and checking the suitability of all facilities and equipment prior to their first use and subsequent to any maintenance activity to ensure that they perform effectively and as intended. The acceptance criteria and required checks should be commensurate with the risk posed by the radioactive substances. The checks could include the manufacturer’s critical examination, calibration certificates, and a ‘dry run’ of a process or a formal commissioning programme. SEPA expects that the acceptance criteria and any checks made will be recorded and available for inspection, even if they are conducted by another part of your organisation (e.g. Facilities Department) or an external party (e.g. RWA, contractor).</p>	<p>Guidance</p>

<p>A.6.3 <i>You must ensure that all facilities and equipment provided to ensure compliance with your authorisation are:</i></p> <ul style="list-style-type: none"> <i>(a) maintained in good repair;</i> <i>(b) regularly calibrated (where calibration is required);</i> <i>(c) checked to ensure they are serviceable and effective; and</i> <i>(d) being correctly used.</i> 	Rule (Condition)
<p>This condition supports Article 68(c) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 4.</p> <p>All measuring and monitoring equipment must be working correctly and effectively so that the quantities and nature of any radioactivity detected is accurate. This will minimise the risk of an unplanned exposure of a member of the public, harm to the environment or the generation of unnecessary waste.</p>	Reason
<p>The complexity and frequency of the inspection and repair regime should be commensurate with the risk posed by the radioactive substances and the environment they operate within. This may include service contracts for relevant equipment such as liquid scintillation counters or fume hood systems, regular audits by the RWA, a formal maintenance schedule or a combination of these. You will need to be prepared to justify the approach to maintenance for the facilities and equipment, and it may be necessary to record this justification.</p> <p>SEPA expects that these inspections, and any discrepancies found, will be recorded and available for inspection, even if they are conducted by another part of your organisation (e.g. Facilities Department) or an external party (e.g. RWA, contractor). It is recommended that any corrective actions taken, and the date they were taken on, are also recorded.</p> <p>Whilst minor repairs are expected to be carried out relatively quickly, it is recognised that substantial repairs may take longer to finance and arrange. In these cases, SEPA expects that you will provide an implementation plan for the carrying out of the required repairs, along with dates for any milestones as well as the projected completion date.</p> <p>You should have a programme of calibration and routine checking for all measuring instruments set out in relevant procedures. It is essential that the measuring instruments are calibrated against traceable standard sources. Calibration records and records of routine checks (e.g. use of standards) on monitoring equipment should be kept and made available during inspection.</p> <p>In addition, the procedures should specify the correct manner in which the measuring instruments are to be used. Staff using the measuring instruments must be trained in the procedures and the correct manner for use of the measuring instruments. It is recommended that you keep a record of the staff trained to use the measuring instruments and provides refresher training as required.</p>	Guidance

A.7 Sampling, measurements, tests, surveys and calculations

<p>A.7.1 <i>You must take samples and conduct measurements, tests, surveys, analyses and calculations as necessary in order to determine compliance with your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 67(1) of the BSSD. This condition supports IAEA GSR part 3 requirement 14.</p> <p>It is your responsibility to actively take samples and carry out measurements et al as necessary to characterise your radioactive substances and to demonstrate compliance with all the requirements of your Authorisation. This is particularly important with regard to radioactive substances since it is impossible to directly detect radioactivity using human senses alone. Undetected radioactive substances or contamination may cause an unplanned exposure of a member of the public or harm to the environment and could generate unnecessary radioactive waste requiring disposal.</p>	<p>Reason</p>
<p>You should have carried out an assessment to determine what sampling, measurement, tests, surveys and calculations are needed to fully characterise your radioactive substances and determine compliance with your Authorisation requirements. For authorisations involving radioactive waste, SEPA would expect your RWA to have advised on the assessment.</p> <p>The number, frequency and type of sample, measurement, etc. is dependent on a variety of factors including the nature of the radioactive substances (i.e. sealed or unsealed), the method of its storage and the manner in which it is used. It may also be necessary to consider the non-radioactive properties of the radioactive substances, particularly if they are hazardous.</p> <p>This information should be written down and included in the procedures relating to sampling, measurement etc. The results of all sampling, measurements etc. must be recorded and be available for inspection by SEPA.</p>	<p>Guidance</p>
<p>A.7.2 <i>You must use the best practicable means when taking samples or conducting measurements, tests, surveys and calculations.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Articles 5(b) and 29(3) of the BSSD. This condition supports IAEA GSR part 3 requirement 14.</p> <p>Because radioactive substances cannot be directly detected by human senses, it is critical that you are using best practicable means in sampling and conducting measurements et al to ensure that the risks of an unplanned exposure to a member of the public, harm to the environment or generation of unnecessary waste are minimised.</p>	<p>Reason</p>

<p>You are responsible for determining the best methods for carrying out this requirement and ensuring that it remains up to date with regard to advances in scientific and technical understanding.</p> <p>SEPA expects that the justification of BPM with regard to taking samples and carrying out measurements et al will be documented and that it will be periodically reviewed by you/your RWA to ensure it remains valid. This expectation does not require separate BPM documentation, and it may be incorporated into other procedures or written arrangements.</p> <p>For further generic guidance on BPM, refer to the SEPA document “Satisfying the ALARA requirements and the role of Best Practicable Means”, available from SEPA’s website.</p>	Guidance
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

A.8 Provision of information and data returns

<p>A.8.1 <i>You must provide SEPA with the required information specified in Schedule 2 of these Standard Conditions within the specified timescales.</i></p>	Rule (Condition)
<p>This condition supports IAEA GSR part 3 requirement 32.</p> <p>SEPA requires the ability to formally request information from you at any time. In the event that a formal request for information is not complied with, it can be considered a contravention of the Authorisation and appropriate enforcement action can be taken.</p>	Reason
<p>SEPA has set out all the required data returns for radioactive substances activities in Schedule 2 of these standard conditions for ease of reference. The schedule specifies the type of licence (e.g. permit involving HASS), the data to be supplied to SEPA and the periodicity of the return.</p> <p>SEPA is required to place this information on our Public Register. In the interests of complying with the General Data Protection Regulations, you are only required to provide a summary of the information so that any personal information can be omitted.</p>	Guidance

A.9 Contraventions of your authorisation

<p>A.9.1 If you believe that a requirement of your authorisation is being, has been, or might be contravened, you must inform SEPA by telephone without delay .</p>	Rule (Condition)
<p>This condition supports Articles 85(3), 86(4) and 96(b) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 16.</p> <p>Non-compliance events must be reported to SEPA without delay in order to allow us to take our own measures to ensure that there is not an unplanned exposure of a member of the public, harm to the environment or the generation of unnecessary radioactive waste. The notification also allows SEPA to begin its own investigation into the matter, and it also allows us to comply with any international reporting obligations.</p>	Reason

<p>It is important to note that this condition also requires notification of SEPA of non-compliance events that <u>might</u> occur. This enables SEPA to consider if any actions are required to protect the public or the environment. Delaying the notification until the non-compliance is confirmed to have occurred is unacceptable. SEPA recognises that potential contraventions of a minor nature are unlikely to require SEPA to take action. Therefore, in these circumstances, a delay in informing SEPA may be acceptable.</p> <p>All staff involved in the management of radioactive substances should be aware of this requirement and be empowered to make the notification or escalate the matter to the appropriate person in your organisation in order for the notification to be made to SEPA.</p> <p>It is difficult to demonstrate compliance with this condition unless an event of this nature has occurred. SEPA expects you to have measures in place to respond to this type of event, many of which will be written down for other purposes (e.g. local rules), and this can be used as demonstration of compliance.</p> <p>Contact details for SEPA can be found in Appendix 1.</p>	Guidance
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

<p>A.9.2 <i>Where you have informed SEPA that you have contravened your authorisation, you must:</i></p> <ul style="list-style-type: none"> (a) <i>Confirm the information given in the telephone notification in writing by the next working day after the verbal notification;</i> (b) <i>Carry out an investigation into the circumstances to identify any necessary corrective measures to avoid such events in the future;</i> (c) <i>Record the results of your investigation;</i> (d) <i>Ensure that any corrective measures are carried out as soon as reasonably practicable; and</i> (e) <i>Send a summary of your investigation to SEPA as soon as reasonably practicable.</i> 	Rule (Condition)
<p>This condition supports Articles 85(3), 86(4) and 96(b) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 16.</p> <p>This condition requires you to provide a record of the lifecycle of the event and to demonstrate that you have investigated the event and have put in place corrective measures to avoid a repeat of the non-compliance.</p>	Reason

<p>Written confirmation of the contravention can be provided by letter, email or fax, although it is recommended that you use email for speed. Contact details for SEPA can be found in Appendix 1.</p> <p>“As soon as reasonably practicable” has been used in order to allow you to conduct a thorough investigation and identify the root cause and any necessary corrective measures needed to prevent a recurrence of the contravention. It is recommended that you provide SEPA an indication of the length of time you expect the investigation to take within the written confirmation.</p> <p>SEPA is required to place this information on our Public Register. The summary of the investigation should not contain any personal details that might contravene your requirements under the General Data Protection Regulations. If this detail is required, SEPA will arrange to view it at your site.</p>	Guidance
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

A.10 Ceasing your authorised activity and leaving the authorised place

<p>A.10.1 <i>You must inform SEPA of the following circumstances by providing the information set out in the relevant section of Schedule 3 of these Standard Conditions within the specified timescales:</i></p> <p>(a) <i>If you vacate the authorised place, or in the case of mobile radioactive sources, vacate the place where they are normally kept; or</i></p> <p>(b) <i>You cease to carry on the authorised activities.</i></p>	Rule (Condition)
<p>This condition supports Article 96(b) of BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 29.</p> <p>This notification minimises the risk of radioactive substances being abandoned or radioactive contamination not being remediated on the Authorised Place. Abandoned radioactive substances and/or radioactive contamination can result in an unplanned exposure to a member of the public, harm to the environment or the generation of unnecessary radioactive waste.</p>	Reason
<p>It is difficult to demonstrate compliance with this condition unless you intend to leave the Authorised Premises or cease to carry out your activity. SEPA recommends that these eventualities are captured in your management arrangements along with the requirement to contact SEPA as demonstration of compliance.</p> <p>Contact details for SEPA can be found in Appendix 1.</p>	Guidance

B. ALL RADIOACTIVE SUBSTANCES AUTHORISED ACTIVITIES

B.1 Overarching requirement

<p>B.1.1 <i>You must carry out the authorised radioactive substances activities in a manner that achieves and maintains an optimal level of protection of the environment and the public.</i></p>	Rule (Condition)
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------

<p>This condition supports Article 5(b), 29(3) and 68(a) of the BSSD</p> <p>This condition supports IAEA GSR part 3 requirements 4, 11, 15, 29 and 30</p> <p>This condition reflects the fundamental objective for all radioactive substances activities permits and registrations.</p>	Reason
<p>For further guidance on optimisation, please see the SEPA document “Satisfying the ALARA requirements and the role of Best Practicable Means”, available from SEPA’s website.</p>	Guidance

B.2 Radioactive waste optimisation

<p>B.2.1 <i>You must use the best practicable means to ensure that no unnecessary radioactive waste is generated.</i></p>	Rule (Condition)
<p>This condition supports Articles 5(b), 29(3) and 68(a) of the BSSD and Article 4(3)(a) of the SFRWD.</p> <p>This condition supports IAEA GSR part 3 requirements 1 and 11.</p> <p>Where radioactive waste production cannot be avoided, BPM must be used to minimise the activity and volume of the radioactive waste generated. Waste reduction is an important step in radioactive waste management and controlling potential risk of an unplanned exposure to a member of the public or harm to the environment.</p>	Reason
<p>For further guidance on optimisation, please see the SEPA documents “Satisfying the ALARA requirements and the role of Best Practicable Means” and “Basic principles of radioactive waste management”, available from SEPA’s website.</p>	Guidance

<p>B.2.2 <i>You must optimise your approach to the management of radioactive waste taking account of all waste streams and disposals expected from current and future operations.</i></p>	Rule (Condition)
<p><i>This condition supports Article 4(3)(a) of the SFRWD and Articles 5(b), 29(3) and 68(a) of the BSSD.</i></p> <p>This condition supports IAEA GSR part 3 requirements 1 and 11</p> <p><i>This rule ensures that you adopt a balanced approach to managing the radioactive wastes that will be generated throughout the lifetime of the radioactive substances activity that you are carrying out.</i></p>	Reason

<p>SEPA expects you to have considered the generation of radioactive wastes throughout the lifecycle of the activity, including when you cease undertaking the activity. In addition, during decommissioning of the Authorised Place, both radioactive and non-radioactive waste will be generated. All of these wastes should be managed using Best Practicable Means.</p> <p>For further guidance on optimisation, please see the SEPA documents “Satisfying the ALARA requirements and the role of Best Practicable Means” and “Basic principles of radioactive waste management”, available from SEPA’s website.</p>	Guidance
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

B.3 Receipt of radioactive waste from another person

<p>B.3.1 <i>You may only receive radioactive waste that is described in your authorisation</i></p>	Rule (Condition)
<p>This condition prevents you from receiving radioactive waste from another person, unless it has been specifically authorised in your permit.</p>	Reason
<p>Any radioactive waste that you can received will be described in your authorisation in either a standard or a bespoke condition.</p> <p>As standard, all authorisations include Standard Condition C6 (return of radioactive waste) and C7 (transfer of samples), which allow the receipt of some types of radioactive waste in limited circumstances.</p> <p>If you are allowed to introduce radioactivity into organisms you will also be allowed to receive waste associated with your activities (see condition I1.4).</p> <p>If there are no bespoke condition in your authorisation, you are not allowed to receive any other types of radioactive waste from any other person or from any other place. Usually, there will be a number of bespoke conditions associated with receipt of waste (e.g. Waste Acceptance Criteria).</p>	Guidance

B.4 Safe management of radioactive substances

<p>B.4.1 <i>You must manage radioactive substances in a manner that prevents the unauthorised or reckless dispersal of radionuclides and, in the case of a sealed source, which prevents any dispersal of radionuclides.</i></p>	Rule (Condition)
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------

<p>This condition supports Articles 4(3)(c) and 7(3) of the SFRWD and Articles 68(a), 85(1) and 86(1) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirements 15 and 17.</p> <p>You must manage radioactive substances appropriately to avoid cross-contamination of other items and thereby minimise the risk of generating unnecessary radioactive waste, causing an unplanned exposure to a member of the public or harm to the environment.</p> <p>The difference between unsealed and sealed sources has been introduced since there can be intentional dispersal of unsealed sources as part of the work undertaken (e.g. injection into a patient, use of an environmental tracer); however, sealed sources have been designed and constructed to prevent any release.</p>	Reason
<p>This conditions covers everything that could prevent an unauthorised dispersal of the radioactive substances or an unintentional public exposure, including but not limited to its radioactive characteristics (e.g. activity, type of radioactivity), its physical state (e.g. liquid, gas, solid), possible non-radioactive hazardous properties (e.g. flammable), the immediate container or device holding it, the area where it is kept, signage and labelling to indicate its presence and what other substances are stored next to or in the vicinity of it.</p> <p>For sealed sources, the demonstration that the radionuclide(s) have not been dispersed is usually by way of a periodic wipe test.</p> <p>Due to the wide range of circumstances that this condition relates to, it is difficult to provide brief guidance. Further generic guidance can be obtained from the IAEA website.</p>	Guidance

<p>B.4.2 <i>Unless your authorisation allows otherwise, you must not release radioactive materials into the environment or introduce radioactive materials into organisms that will leave the authorised place whilst containing that substance.</i></p>	Rule (Condition)
<p>This condition prevents you from releasing radioactive material into the environment or introducing radioactive materials into organisms that leave the authorised place unless you have been specifically authorised in your permit.</p>	Reason
<p>The introduction of radioactive material directly into the environment or into organisms that leave the authorised place (e.g. patients) presents the same risk of an unplanned exposure of a member of the public or harm to the environment as discharging radioactive waste into the environment. The intention is to ensure that these activities are not allowed unless it has been specifically authorised and, if necessary, appropriate bespoke conditions applied.</p> <p>Please note that this condition relates to organisms that leave the authorised place. If you introduce radioactive material into organisms that don't leave your site, it will not apply.</p>	Guidance

<p>B.4.3 <i>You must manage radioactive substances safely and securely to prevent unauthorised use, loss and theft.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 7(3) of the SFRWD and Article 65(1)(d) of the BSSD.</p> <p>This condition supports the IAEA Code of Conduct of the Safety and Security of Radioactive Sources.</p> <p>This condition supports IAEA GSR part 3 requirements 15 and 17.</p> <p>You must effectively restrict access to the radioactive substances in order to prevent loss, theft or unauthorised use of the radioactive substances. The unauthorised use, loss or theft of the radioactive substances may ultimately result in an unplanned exposure of a member of the public, harm to the environment or the generation of unnecessary radioactive waste.</p>	<p>Reason</p>
<p>The objective of access control is to ensure that only authorised users have access to the radioactive substances. Access controls may include a combination of physical (e.g. doors, fences, walls, cages, locks/interlocks and shielded containers), electronic and administrative measures (e.g. procedures), although preference should be given, where practicable, to engineering controls over administrative controls. The principles of defence in depth should also be taken into account and all controls should be commensurate with the hazard posed by the radioactive substance.</p> <p>In addition, it is recommended that a system of detection, assessment and response is established to determine if the access control measures have been breached and to ensure that any such event is appropriately investigated.</p> <p>Further advice on physical security measures can be obtained from the CPNI website.</p>	<p>Guidance</p>

<p>B.4.4 <i>You must regularly verify that radioactive substances and, where relevant, the equipment or containers holding radioactive substances are still present and in good repair.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Articles 85(1) and 86(1)(2) of the BSSD.</p> <p>This condition supports the IAEA Code of Conduct of the Safety and Security of Radioactive Sources.</p> <p>This condition supports IAEA GSR part 3 requirements 1 and 11.</p> <p>This ensures that the radioactive substances are routinely accounted for and that any missing source is identified as soon as possible. This minimises the risk of the radioactive substances (or their containers or immediate housing) becoming damaged or being disposed of in an inappropriate manner. It also requires routine verification that the radioactive substances/containers/equipment are in good condition and that any damage is identified at the earliest opportunity so that measures can be taken to mitigate any potential release of radioactivity which could cause an unplanned exposure to a member of the public, harm to the environment or generate unnecessary waste.</p>	<p>Reason</p>

<p>The requirement to verify the continued presence of the radioactive substances may overlap with those of other legislation (e.g. IRR17). A balance must be struck between the need to verify the continued presence of the radioactive substance and the requirement to keep doses ALARP and minimise handling of the containers and equipment. In these situations, alternative methods of verification should be undertaken.</p> <p>Verification checks should be conducted at a frequency commensurate with the risk and likelihood of loss, theft or damage to ensure that the radioactive substances are present and have not been tampered with. In general, SEPA expects that the minimum frequency for fixed sealed sources to be monthly.</p> <p>Such checks could include physical checks that the source is in place, remote observation through CCTV, verification of seals or other tamper evident devices and measurements of radiation or other physical phenomena that would provide assurance that the radioactive substances are present. For sealed sources, periodic wipe tests should provide demonstration that the source remains in good repair.</p> <p>For sealed sources in use, verifying that the device or equipment containing the sealed source is functional may be sufficient. Changes to the manner of keeping or use (e.g. shutdown of the plant to which the sealed source is attached for periodic maintenance) or following any incident in which damage could occur to the sealed source, source container or associated equipment, should also trigger a check. It is recognised that the source container may have shorter lifespan than the source itself. In such cases, it may be necessary to undertake wipe tests at a greater frequency.</p> <p>Records of these verifications, wipe tests and any maintenance activities, as well as any correction actions taken in response to any issues found, must be kept and be available for inspection as demonstration of compliance with this condition.</p>	Guidance
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

<p>B.4.5 <i>Where reasonably practicable, you must ensure that radioactive substances or their immediate containers are adequately and legibly marked or labelled to indicate their radioactive content.</i></p>	Rule (Condition)
<p>This condition supports Articles 7(3) of the SFRWD.</p> <p>This condition supports IAEA GSR part 3 requirements 15 and 17</p> <p>Radioactive substances needs to be suitably marked with enough information to allow the hazards to be readily identified and to minimise the risk of losing control of the radioactive substances and causing an unplanned exposure to a member of the public, harm to the environment or the generation of unnecessary radioactive waste.</p>	Reason

<p>The marking should include, as a minimum, a trefoil and a unique reference.</p> <p>Where it is not practical to mark the authorised radioactive substances (e.g. it is a powder or liquid) or the authorised radioactive substance is contained within an item or piece of equipment (e.g. NORM contamination of a valve) or a system (e.g. pipework), the container, item, piece of equipment or system should display the marking or labelling.</p> <p>Where a discreet area or space has radioactive contamination or contains a number of items that are radioactive/contaminated, it is acceptable to label the entrance or access to that area. A sign at the entrance to your site stating that there is radioactive substances present will usually not fully satisfy this condition.</p> <p>In the case of sealed sources, the manufacturer may have already assigned a unique identifier. If this is not the case, then you must assign an identifier upon receipt of the sealed source.</p> <p>It is strongly recommended that the identification on the authorised radioactive substance, container, item, piece of equipment or system is robust enough to survive normal handling and the storage environment whilst remaining legible.</p> <p>It is also possible that the item or piece of equipment containing the authorised radioactive substances has been assigned its own unique identifier as part of your asset management programme. It is imperative that these two identifiers are kept separate in order to prevent confusion.</p> <p>In the event that a marked container or system is no longer used for storing radioactive substances, or that the authorised radioactive substances have been removed from an item or piece of equipment, and there is no contamination present, all markings and labels should be removed as soon as possible to avoid confusion as to the contents.</p>	Guidance
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

B.5 Contamination control and remediation

<p>B.5.1 <i>If you believe that a leak, spill or unauthorised dispersal of radioactive substances has occurred, you must immediately take all reasonably practicable measures to prevent or restrict any further dispersal.</i></p>	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD.</p> <p>This condition supports IAEA GSR part 3 requirements 15, 17 and 31.</p> <p>Once suspected, you must take all practicable measures to prevent or minimise the further dispersal of any radioactive substance. The longer the period that the radioactive substances remain dispersed in an uncontrolled manner, the greater the risk of an unplanned exposure of a member of the public, harm to the environment or the generation of additional radioactive waste requiring disposal.</p>	Reason

<p>This condition does not apply to historic spills or contaminated land.</p> <p>You should be ready and able to instigate the measures without delay. Staff involved in work with the radioactive substances should be trained and empowered to take the necessary measures without direction.</p> <p>The measures to be taken should be commensurate with the risk posed by the radioactive substances that have been dispersed. For example, it may be acceptable to barrier off an area where a spill of a short-lived radionuclide has occurred in order to allow it to decay away. The non-radioactive properties of the dispersed radioactive waste should also be taken into account when planning measures.</p> <p>SEPA expects that any equipment or substances needed to prevent or minimise further dispersion and to clean up the dispersed radioactive substances, such as spill kits, special vacuum cleaners and decontamination fluids, are readily available, are in sufficient quantity for any foreseeable event and are in good working order.</p>	Guidance
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

<p>B.5.2 <i>If there is a leak, spill or unauthorised dispersal of radioactive substances, you must:</i></p> <ul style="list-style-type: none"> <i>(a) use the best practicable means to remediate any radioactive contamination arising either on or off the authorised place; and</i> <i>(b) carry out the remediation as soon as reasonably practicable.</i> 	Rule (Condition)
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------

<p>This rule supports Articles 5(b) and 29(3) of the BSSD and Article 7(3) of the SFRWD.</p> <p>This condition supports IAEA GSR part 3 requirements 15, 17 and 31.</p> <p>SEPA's expectation is that remediation efforts must be optimised in all such circumstances. Radioactive contamination that is not remediated may result in an unplanned exposure to a member of the public, harm to the environment or the generation of unnecessary radioactive waste.</p>	Reason
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------

<p>It is difficult to demonstrate compliance with this rule unless an event of this nature (e.g. spill, leak or accident) has occurred. SEPA expects you to have measures in place to respond to this type of event, many of which will be written down for other purposes (e.g. local rules) and these documents can be used as demonstration of compliance.</p> <p>Prompt decontamination of any such contaminated areas will minimise the risk of creating 'legacy' contaminated sites, (e.g. in the event you go out of business). However, SEPA recognises that "as soon as reasonably practicable" could mean years, provided that you can justify that the delay was BPM.</p> <p>For nuclear sites, SEPA expects any contaminated areas to be captured in the SWESC as set out in the joint agencies' document "General Requirements for Revocation", available on SEPA's website.</p> <p>For further guidance on optimisation, please see the SEPA document "Satisfying the ALARA requirements and the role of Best Practicable Means", available from SEPA's website.</p>	Guidance
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

B.6 Treatment of radioactive waste

<p>B.6.1 <i>You must only treat radioactive waste where this represents the best practicable means for the management of the waste.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 5(b) of the BSSD as well as the UK Low Level Waste Policy and Scotland's Higher Activity Waste Policy.</p> <p>This condition supports IAEA GSR part 3 requirement 11.</p> <p>You are now authorised to undertake treatment of radioactive waste, but only where this treatment is optimised.</p>	<p>Reason</p>
<p>Treatment can involve physical, chemical or biological processes.</p> <p>SEPA expects you to undertake simple forms of treatment, such as segregation, both at the point of generation and subsequently, as well as simple forms of decontamination as a matter of course. More complex forms of treatment (e.g. filtration, ion exchange) will need to be considered more fully in terms of BPM.</p> <p>Except for the simpler forms of treatment, SEPA expects you to write down the justification for any treatment undertaken and have this available for inspection.</p> <p>For further guidance on optimisation, please see the SEPA document "Satisfying the ALARA requirements and the role of Best Practicable Means", available from SEPA's website.</p>	<p>Guidance</p>

<p>B.6.2 <i>You must not deliberately dilute radioactive substances in order to release them from regulatory control unless:</i></p> <p>(a) <i>the dilution takes place in normal operations where radioactivity is not a consideration; or</i></p> <p>(b) <i>the dilution is a result of mixing radioactive waste with non-radioactive material for the purposes of re-use or recycling that is authorised by your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 30(4) of the BSSD.</p> <p>The dilution of radioactive waste will generate additional volume of radioactive waste that will require disposal, even if it can be done such that the waste is no longer considered to be radioactive. This does not accord with the principles of optimisation.</p>	<p>Reason</p>
<p>This condition does not prohibit deliberate dilution altogether. It prohibits deliberate dilution to remove the radioactive substance from regulatory control, except in specific situations, where this has been authorised in your permit. Conditioning for manageability of the waste remains acceptable, provided it is BPM.</p> <p>SEPA expects any dilution to be optimised, and we would strongly recommend that you discuss your plans with us before you undertake any dilution.</p> <p>For nuclear sites, there are a number of joint guidance documents regarding conditioning available on SEPA's website.</p>	<p>Guidance</p>

B.7 Holdings of radioactive substances

<p>B.7.1 <i>You must only hold the minimum quantity of radioactive material that is necessary to carry out your activity.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports IAEA GSR part 3 requirements 11, 15 and 30. It limits the generation of unnecessary radioactive waste by requiring you to only hold the minimum necessary to carry out your activity. It also supports the optimisation principle.</p>	<p>Reason</p>
<p>Please note this only applies to radioactive <u>material</u>. You may have radioactive material limits set out in your permit. SEPA views this as the maximum amount that can be lawfully held and would expect you to only hold the amount of radioactive material that is absolutely necessary to carry out your activity at any time, which may be less than these limits.</p>	<p>Guidance</p>

<p>B.7.2 <i>You must ensure that the quantity of radioactive substances you hold does not exceed any limits set out in your authorisation.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Articles 29(3) and 65 (2) of BSSD. This condition supports IAEA GSR part 3 requirements 15 and 30. This condition gives force to any bespoke limits for holdings of radioactive material or waste set out in your authorisation.</p>	<p>Reason</p>
<p>If no limits have been set for this in your permit, then there is no limit on the amount you can hold of either radioactive material or waste.</p>	<p>Guidance</p>

<p>B.7.3 <i>You must transfer or dispose of radioactive waste as soon as reasonably practicable after it becomes waste.</i></p>	<p>Rule (Condition)</p>
<p>This rule supports Articles 5(b), 29(3) and 68 (a) of the BSSD and the UK Low Level Waste Policy. This condition supports IAEA GSR part 3 requirements 15 and 30. The storage period for radioactive waste at the Authorised Place must be kept as short as reasonably practicable in order to minimise the risk of you losing control of the radioactive waste and potentially causing an unplanned exposure to a member of the public, harm to the environment or the generation of unnecessary radioactive waste.</p>	<p>Reason</p>

<p>Wastes may be accumulated for decay storage, to meet certain conditions for disposal (e.g. tidal windows), pending arrangements for uplift by a contractor or if justified as BPM as part of the waste management plan for that waste (e.g. decommissioning waste).</p> <p>SEPA recognises that there are economies of scale in accumulating sufficient radioactive waste in order to financially justify the cost of uplift and disposal. However, the long-term storage of radioactive waste without disposal or transfer, for example on the basis of cost of disposal, is generally not acceptable.</p> <p>There should be a presumption towards early solutions for all waste streams, although it is noted that early solutions do not necessarily mean early disposal. Longer term storage of waste (e.g. on the order of years) should be justified in writing as representing BPM and should be available for inspection by SEPA.</p>	Guidance
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

B.8 Waste management plan

<p>B.8.1 <i>You must prepare, maintain and implement a management plan for waste arising from your activities involving radioactive substances and the decommissioning of associated facilities and equipment.</i></p>	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD and the UK's Low Level Waste Policy.</p> <p>This condition supports IAEA GSR part 3 requirement 31.</p> <p>This rule ensures that you have a plan for the management of all radioactive substances that may be present or be generated throughout the lifetime of carrying out your activities. It must also include radioactive waste generated as part of decommissioning when you are no longer carrying out the activities in order to reduce the potential for radioactive substances or contaminated items being abandoned.</p>	Reason
<p>The waste management plan can be in either paper or electronic form and should be available for inspection by SEPA. It should be periodically reviewed and updated to reflect the current status of all facilities and equipment associated with the radioactive substances.</p> <p>For sealed source authorisations, the plan should cover, as a minimum, the disposal of all the sources and associated equipment (e.g. gauges, transport containers, etc.) when you cease carrying on your activities.</p> <p>For non-nuclear authorisations, the plan should consist of, as a minimum, the disposal routes for all operational radioactive waste streams and the list of contaminated items currently being held on site.</p> <p>For nuclear permits, the requirements for the plan, which is supported by a SWESC, are set out in the joint agencies' document "General Requirements for Revocation", available on SEPA's website.</p> <p>For further information on decommissioning, see the IAEA Safety Standards document "Decommissioning of Facilities (GSR Part 6)"</p>	Guidance

B.9 Lost and stolen radioactive substances

<p>B.9.1 <i>If you believe that any radioactive substances have been lost or stolen, you must:</i></p> <ul style="list-style-type: none"> (a) <i>immediately verify if this is the case;</i> (b) <i>take all reasonably practicable measures to recover them; and</i> (c) <i>inform the relevant police force and SEPA by telephone without delay.</i> 	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD and Article 96(b) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 15.</p> <p>The longer the period that radioactive substances are in an uncontrolled state, the greater the risk of it potentially causing an unplanned exposure to a member of the public, harm to the environment or generating unnecessary radioactive waste. This condition ensure you verify that the radioactive substances are indeed missing, take all reasonably practicable measures to recover them and inform SEPA and the police so that we can take precautionary measures.</p>	Reason
<p>It is difficult to demonstrate compliance with this condition unless an event of this nature has occurred. SEPA expects you to have measures in place to respond to this type of event, many of which will be written down for other purposes (e.g. local rules).</p> <p>The measures to recover the lost/stolen radioactive substances should be put into effect immediately when you have grounds for believing this may be the case. Your staff should have adequate training to initiate emergency procedures in these circumstances and be empowered to raise the alarm. You may need to also contact your RPA/RWA for further advice.</p> <p>ONR is the lead regulator for any lost or stolen radioactive substances that remain on the nuclear site.</p> <p>Contact details for SEPA can be found in Appendix 1.</p>	Guidance

B.10 Radioactive Waste Advisers

<p>B.10.1 <i>Except where your authorisation only relates to sealed sources, you must appoint, retain and consult with suitable Radioactive Waste Advisers to advise on compliance with your authorisation, including but not limited to:</i></p> <ul style="list-style-type: none"> (a) <i>Achieving and maintaining an optimal level of protection of the environment and the population;</i> (b) <i>Accepting into service adequate equipment and procedures for measuring or assessing exposure of members of the public and radioactive contamination of the environment;</i> (c) <i>Checking the effectiveness and maintenance of equipment for measuring or assessing exposure of members of the public and radioactive contamination of the environment; and</i> (d) <i>Ensuring the regular calibration of measuring instruments.</i> 	Rule (Condition)
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------

<p>This condition supports Articles 14(1), 34, 68(d) and 82(2) of the BSSD and supports Article 8 of the SFRWD.</p> <p>It establishes the requirement for you to have and consult with a certified Radioactive Waste Adviser in respect of the listed duties.</p>	Reason
<p>SEPA recognises anyone who holds a current valid certificate of recognition issued by an Approved Assessing Body as an RWA. In addition, on nuclear sites, there can be corporate RWA arrangements. It is your responsibility to determine whether a recognised RWA is suitable to advise on your business and the types of radioactive waste you will produce, store and dispose of.</p> <p>It is recommended that all formal correspondence with the RWA is kept and available for inspection as demonstration of compliance with this condition.</p> <p>Further information can be obtained in the joint agencies' documents "Environment Agencies' Guidance on Roles and Responsibilities of Permit Holders and RWA" and "Environment Agencies' Guidance on Suitability of RWA", available on the SEPA website.</p>	Guidance

<p><i>B.10.2 You must appoint the Radioactive Waste Adviser in writing and include the scope of advice they are required to give.</i></p>	Rule (Condition)
<p>This condition supports Articles 14(1), 34, 68(d) and 82(2) of the BSSD and supports Article 8 of the SFRWD.</p> <p>The appointment of an RWA must be formalised and include the scope of advice the RWA is required to give.</p>	Reason
<p>The letter of appointment and any documentation detailing the scope of advice the RWA is required to give, if separate from the letter of appointment, should be available for inspection as demonstration of compliance with this condition.</p> <p>Further information can be obtained in the joint agencies' documents "Environment Agencies' Guidance on Roles and Responsibilities of Permit Holders and RWA" and "Environment Agencies' Guidance on Suitability of RWA", available on the SEPA website.</p>	Guidance

C. TRANSFERS OF RADIOACTIVE SUBSTANCES

C.1 Duty of care

<p><i>C.1.1 You must only transfer radioactive substances to a person who is legally entitled to manage them.</i></p>	Rule (Condition)
-----------------------------------------------------------------------------------------------------------------------	---------------------

<p>This condition supports Article 29(3) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 15.</p> <p>This condition helps to establish a Duty of Care system for the transfer of both radioactive material and radioactive waste.</p>	Reason
<p>Within the UK, this will usually be the holding of an authorisation under EASR18 (Scotland), a permit under EPR16 (England or Wales) or a registration/authorisation under RSA93 (Northern Ireland).</p> <p>For receiving sites outside of the UK, there may not be a comparable licensing system. In these circumstances, you must take all reasonably practicable measures to satisfy yourself that the receiving site has all the permissions required by that country for the receipt and management of the radioactive substance.</p> <p>Sealed sources can also be returned to the manufacturer or to the supplier.</p> <p>The regulation of the transportation of radioactive waste falls outside of SEPA's remit. ONR is the regulator in relation to both road and rail transport, whilst the Civil Aviation Authority regulates transport by air and the Marine and Coast Guard Agency regulates the transport by sea. Carriage of dangerous goods, including radioactive substances, is regulated internationally by agreements and European Directives, with biennial updates of the Directives to take account of technological advances.</p>	Guidance

C.2 Transfer procedure

<p>C.2.1 <i>Before transferring any radioactive substances to another person, you must:</i></p> <p style="margin-left: 40px;">(a) <i>Give to that person a true and accurate description of that substance, and</i></p> <p style="margin-left: 40px;">(b) <i>confirm that that person agrees to receive them.</i></p>	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD and article 29(3) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 3.</p> <p>It helps to establish a Duty of Care system for both radioactive material and radioactive waste. It ensures that you are able to satisfy yourself that the receiving site has agreed to receive your material or waste and you have received confirmation that the radioactive substances are acceptable for transfer before they have left the authorised place. The description you provide should form part of the transfer record set out in Schedule 1 of the Standard Conditions</p>	Reason

<p>Please note that disposing of radioactive waste in normal refuse (commonly referred to as Dustbin Disposal) is not a transfer and does not require prior agreement from the receiving site.</p> <p>The transfer record is important in the event there is an incident in transporting the radioactive substances and in confirming the nature of it to the person transporting it as well as the person receiving it.</p> <p>In addition to the radionuclide content and radioactivity of the material or waste, it may also be necessary to establish its non-radioactive properties, especially if these properties are hazardous.</p> <p>The format of the transfer record can be either paper or electronic. The use of multi-page, carbonised consignment notes can facilitate this requirement, although their use is not mandatory. Blank copies of the records may also be provided by the person receiving the waste (or his carrier) in order to facilitate the transfer.</p> <p>SEPA expects that confirmation that the person agrees to receive the radioactive substance(s) is in writing.</p>	Guidance
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

<p>C.2.2 <i>You must ensure that you receive a receipt from the person removing the radioactive substances from the authorised place.</i></p>	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD and article 29(3) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 3.</p> <p>It helps to establish a Duty of Care system for both radioactive material and radioactive waste. It ensures that you receive a receipt on transfer of the radioactive substances.</p>	Reason
<p>The receipt from the person removing the radioactive substances does not have to include the transfer record. SEPA expects the receipt to contain, as a minimum, the date and time of transfer, name of the organisation removing the radioactive substances and sufficient information to identify the consignment.</p>	Guidance

<p>C.2.3 <i>As soon as reasonably practicable following transfer, you must obtain written confirmation from the person that the radioactive substances have been received.</i></p>	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD and article 29(3) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 3.</p> <p>It helps to establish a Duty of Care system for both radioactive material and radioactive waste. It ensures that you receive written confirmation that the radioactive substances have arrived at their destination.</p>	Reason

<p>For clarity, the date that the radioactive substance is delivered to the receiving facility may not be the same as the date upon which it accepts it. The receiving person may delay officially accepting the radioactive substance on to his premises until such time as he confirms that his requirements (e.g. Waste Acceptance Criteria) have been met.</p> <p>The confirmatory documentation for waste may consist of the completed consignment note or some other form of documentation (e.g. Certificate of Destruction). It can be in either paper or electronic form.</p> <p>The confirmatory documentation should be received by you within a reasonable time of the radioactive substances being received. If not, it is your responsibility to follow this up with the receiving person. If there is a significant delay between the delivery and acceptance, you should obtain confirmation that the radioactive substance has been delivered (e.g. completed consignment note, email) in addition to any confirmation that it has been accepted.</p>	Guidance
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

<p>C.2.4 <i>Following transfer, you must ensure that the radioactive substances will be returned without delay to the authorised place if:</i></p> <p>(a) <i>they are not in accordance with the description that you have provided; or</i></p> <p>(b) <i>cannot be delivered for any reason.</i></p>	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD and article 29(3) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 3.</p> <p>It helps to establish a Duty of Care system for both radioactive material and radioactive waste. In effect, it authorises you to receive your transferred waste back at the authorised place.</p>	Reason
<p>This requirement relates to situations where the radioactive substances cannot be delivered to the receiving person or where they have been delivered but subsequently a problem arises with it. You will continue to retain responsibility for the radioactive substances consignment until a receipt has been obtained from the receiving person acknowledging that he has formally accepted it.</p> <p>There may be situations where the return of the radioactive substances to your site may not be the optimised solution (e.g. if a consignment becomes damaged). If so, contact SEPA immediately.</p> <p>It is difficult to demonstrate compliance with this condition unless an event of this nature has occurred. SEPA expects you to have measures in place to respond to this type of event, many of which will be written down for other purposes (e.g. local rules), and this can be used as demonstration of compliance.</p>	Guidance

C.3 Transfer of radioactive waste

<p>C.3.1 <i>You must not transfer radioactive waste to any person unless the transfer represents the best practicable means for the management of that type of waste.</i></p>	Rule (Condition)
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------

<p>This condition supports Articles 5(b) and 68(a) of the BSSD and article 4(3)(a) of the SFRWD as well as the UK Policy for LLW.</p> <p>This condition supports IAEA GSR part 3 requirements 11, 15, 29 and 30.</p> <p>It ensures that the optimisation principle is expressly included in transfers of radioactive waste.</p>	Reason
<p>Further guidance on BPM can be obtained in the following documents available from SEPA's website:</p> <ul style="list-style-type: none"> - "Satisfying the ALARA Requirement and the Role of Best Practicable Means" - "Review of the Application of Best Practicable Means Within a Regulatory Framework for the Management of Radioactive Waste" 	Guidance

<p><i>C.3.2 You must inform SEPA in advance if you intend to transfer radioactive waste to a person to whom you have not previously sent radioactive waste by providing the information within the specified timescales set out in the relevant section of Schedule 3 of these Standard Conditions.</i></p>	Rule (Condition)
<p>This condition supports Article 5(1)(d) of the SFRWD.</p> <p>This condition provides transparency to SEPA and the public when you decide to use a new disposal route. It allows SEPA an opportunity to intervene at an early stage if there is an issue with the proposed receiving site.</p>	Reason
<p>There is no requirement for SEPA to approve the use of a new transfer route nor to respond to this provision of information. If SEPA does not respond, we have not approved the transfer or accepted that the transfer is optimised.</p>	Guidance

C.4 Transfer of radioactive waste outside of the United Kingdom

<p><i>C.4.1 Except for sealed sources, you must not transfer radioactive waste to a person outside of the United Kingdom unless:</i></p> <ul style="list-style-type: none"> <i>(a) the transfer is carried out in accordance with an authorisation granted under the Transfrontier Shipment of Radioactive Waste Regulations;</i> <i>(b) the purposes of the transfer is treatment of the radioactive waste; and</i> <i>(c) any waste following treatment is returned in accordance with Government Policy.</i> 	Rule (Condition)
<p>This condition supports Article 4(4) of the SFRWD and supports the UK Low Level Waste Policy and Scotland's Higher Activity Waste Policy.</p> <p>This condition authorises the transfer of all classifications of radioactive waste to facilities outside the UK for treatment and for the return of any waste in accordance with the Transfrontier Shipment of Radioactive Waste Regulations and applicable Government policy.</p>	Reason

<p>SEPA recognises that some forms of treatment may not be available in the UK. This condition enables you to make use of these treatment facilities, provided that he adheres to the requirements of the TFS Regulations.</p> <p>Applications for authorisation under the TFS Regulations should be submitted using the Standard Document 2008/312/EURATOM. This document is also used for officially recording SEPA’s decision on whether to grant authorisation or consent to a shipment and transmitting to relevant parties. In the event that the radioactive waste to be transferred overseas falls under one of the excluded categories (e.g. NORM), it will require to be specified in your permit as bespoke conditions.</p> <p>It may not be necessary to return any treated radioactive waste/residues to you. It may be allowed to be kept or discharged in that country. This is a matter for the competent authorities in the receiving country to determine.</p> <p>If the waste to be transferred is ILW, it will be necessary for you to also comply with the requirements of Scotland’s Higher Activity Waste Policy (HAW Policy). Further guidance on the HAW Policy can be found on the Scottish Government’s website.</p>	Guidance
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

C.5 Transfer of intermediate level radioactive waste to other parts of the United Kingdom

<p>C.5.1 <i>You must not transfer intermediate level radioactive waste to a person in the UK outside Scotland unless:</i></p> <ul style="list-style-type: none"> (a) <i>the purpose of the transfer is treatment of the radioactive waste; and</i> (b) <i>any intermediate level waste remaining following treatment is returned in accordance with Government Policy.</i> 	Rule (Condition)
<p>This condition supports Scotland’s Higher Activity Waste Policy and meets our organisational characteristics not to stifle innovation.</p> <p>It authorises the transfer of ILW to other parts of the UK provided the transfer meets the requirements that the purpose is for treatment and that any remaining ILW is returned in accordance with Government Policy.</p>	Reason
<p>Further guidance on the HAW Policy can be found on the Scottish Government’s website. For example, the Higher Activity Waste Policy does not extend to sealed sources and therefore they do not need to be returned.</p>	Guidance

C.6 Return of radioactive waste

<p>C.6.1 <i>You must ensure that any waste that is required to be returned by your authorisation is:</i></p> <ul style="list-style-type: none"> (a) <i>returned to the authorised place; or</i> (b) <i>in the case of low level radioactive waste, taken to another person in the United Kingdom who is legally entitled to receive and manage that waste, or</i> (c) <i>in the case of intermediate level radioactive waste, taken to another person in Scotland who is legally entitled to receive and manage that waste.</i> 	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD.</p> <p>This condition support Scotland's Higher Activity Waste Policy and the UK Government Low Level Waste Policy.</p> <p>This condition supports IAEA GSR part 3 requirement 15.</p> <p>It provides clarity and operational flexibility regarding the places where different classifications of radioactive waste may be returned.</p>	Reason
<p>"Return" relates to both non-delivery of the consignment (e.g. closure of the receiving site) as well as return of waste following treatment elsewhere. An element of flexibility has been introduced to allow for the differences in the TFS Regulations, the HAW Policy in those circumstances where it could be more environmentally beneficial to transfer the waste to a third party closer to the place where the returned waste is starting its journey than the authorised place.</p> <p>Returning radioactive waste to an offshore installation where it will be disposed of to sea is prohibited by the London Dumping Convention.</p>	Guidance
<p>C.6.2 <i>You must ensure that before any radioactive waste is returned, the radionuclide content and activities have been determined.</i></p>	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD.</p> <p>This condition support Scotland's Higher Activity Waste Policy and the UK Government Low Level Waste Policy.</p> <p>This condition supports IAEA GSR part 3 requirement 15.</p> <p>It ensures that radioactive waste is characterised before returning it in order to demonstrate that no unexpected radionuclides or extra radioactivity has appeared. This is particularly important in cases where a substitute waste is being returned following treatment.</p>	Reason

<p>In cases where radioactive waste is being returned because of non-delivery to the intended receiving site, there is no need to re-characterise the waste. The information on the transfer record will be sufficient.</p> <p>Regarding the return of treated radioactive waste, you should be able to demonstrate that the treatment has not resulted in unexpected radionuclides (except those due to radioactive decay) or increased radioactivity appearing in the waste.</p> <p>This characterisation provides the baseline information to be used in all transfer documentation, and SEPA expects that you (and by extension, the treatment facility) will have appropriate methods to provide sufficient transparency, including, where practicable to do so, certification or accreditation to appropriate national or international standards.</p>	Guidance
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

<p>C.6.3 <i>You must ensure that any radioactive waste returned:</i></p> <p>(a) <i>only contains the radionuclides that were present at the time of transfer from the authorised place (except for those present as a result of radioactive decay); and</i></p> <p>(b) <i>has an activity no greater than that at the time of transfer from the authorised place.</i></p>	Rule (Condition)
<p>This condition supports Article 7(3) of the SFRWD.</p> <p>This condition support Scotland's Higher Activity Waste Policy and the UK Government Low Level Waste Policy.</p> <p>This condition supports IAEA GSR part 3 requirement 15.</p> <p>It ensures that no other radionuclides or greater activity has been introduced into any treated radioactive waste being returned.</p>	Reason
<p>The radioactive waste will have been characterised by you before it was transferred. Allowance has been made for the introduction of "new" radionuclides due to radioactive decay.</p>	Guidance

C.7 Transfer of samples

<p>C.7.1 <i>You must not transfer samples of radioactive substances unless the quantity sent is the minimum practicable necessary to carry out the planned tests.</i></p>	Rule (Condition)
<p>This condition supports Article 29(3) of the BSSD.</p> <p>It specifically authorises the despatch of samples containing or contaminated by radioactive substances, provided it is the minimum practicable quantity.</p>	Reason

<p>SEPA does not define “sample” or specify any kind of limit on the volume, activity, type of radionuclide, etc. that can be transferred as a sample. Instead, it is left to you to make the case that the quantity being dispatched is the minimum practicable necessary.</p> <p>It should also be pointed out that the “testing” referred to in the rule does not necessarily mean radioactive testing or analysis. For example, radioactively contaminated components may be sent away for mechanical testing.</p> <p>However, SEPA will not tolerate the abuse of this rule to facilitate sham disposal of a radioactive waste that would be otherwise prevented from being transferred by the authorisation.</p>	Guidance
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

<p><i>C.7.2 On completion of testing, any remaining samples and waste arisings may be returned to the authorised place.</i></p>	Rule (Condition)
<p>This condition supports Article 29(3) of the BSSD.</p> <p>It specifically authorises the return of samples containing or contaminated by radioactive substances and any residues resulting from the testing to the authorised place. The receipt of waste in the form of samples is allowed without the need for it to be specifically authorised in your permit or registration.</p>	Reason
<p>Returning radioactive samples to an offshore installation where it will be disposed of to sea is prohibited by the London Dumping Convention.</p>	Guidance

D. SEALED SOURCES

D.1 Holdings of sealed source

<p><i>D.1.1 Unless your authorisation allows otherwise, you must ensure that the aggregate activity of all sealed sources that you hold, excluding any HASS, does not exceed IAEA category 3.</i></p>	Rule (Condition)
<p>This condition supports Article 86(1) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirement 17.</p> <p>It establishes a generic rather than bespoke limit for non-HASS. Unless the source is HASS, the only difference in the authorisation is the level of security required.</p>	Reason

<p>SEPA does not set limits on the activities, radionuclides or numbers of non-HASS that you may hold. You must be able to calculate the A/D values for these sources and ensure that they remain below the top of IAEA Category 3.</p> <p>Further information on the IAEA categories can be found on IAEA website.</p> <p>Further information on the determination of source types can be found in the SEPA document "Guidance on the High-activity Sealed Radioactive Sources and Orphan Sources Regulations 2005".</p>	Guidance
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

D.2 Security requirements for sealed sources

<p>D.2.1 <i>You must have and implement security measures in accordance with the document "Security Requirements for Radioactive Sources", dated 2011.</i></p>	Rule (Condition)
<p>This condition supports Article 86(1) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirement 17.</p> <p>This rule supports the IAEA Code of Conduct of the Safety and Security of Radioactive Sources and the Environmental Authorisations (Scotland) Regulations 201</p> <p>Sealed sources in categories 1-4 will generally require higher security measures. This condition references the requirements set out in the police CTSA document. This allows security measures to adapt to changing circumstances without the need to vary authorisations. It also ensures that only people with legitimate reasons have knowledge of those requirements.</p>	Reason
<p>The security measures will be regulated via the Authorisation. However, because SEPA is not competent to assess security, we will consult with the police CTSA's on the adequacy of security measures at the Authorised Place. CTSA's will base security requirements on their own documentation; this documentation cannot be made freely available to the public or published electronically. The documentation will be provided by CTSA's to those who have a legitimate requirement for it in connection with their work; this includes you, SEPA inspection officers and other professionals such as architects and builders who need to know what standards need to be applied to construction of new premises or refurbishment of existing premises where it is planned to keep or use radioactive sources.</p> <p>Further guidance on security issues is available in a suite of documents published by the CPNI which can be obtained from their website.</p>	Guidance
<p>D.2.2 <i>You must implement, maintain and review a security plan</i></p>	Rule (Condition)

<p>This condition supports Article 86(1) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirement 17.</p> <p>This condition supports the IAEA Code of Conduct of the Safety and Security of Radioactive Sources.</p> <p>You must write down your security measures in a security plan. This document will help to demonstrate that the sealed sources are being held securely.</p>	Reason
<p>SEPA expects that you will draft and maintain a written security plan that describes how security measures will be implemented. A template for a generic Security Plan and further advice can be obtained from the CTSA's.</p> <p>SEPA also expects that the security plan will be regularly reviewed you and the reviews will be recorded as demonstration of compliance. In the event that a review indicates that the security measures should be upgraded or enhanced, we also expect that the identified improvements will be carried out as soon as reasonably practicable.</p> <p>CTSAs will be able to advise on the level of threat and the suitability of specific security. In addition, further guidance on security issues is available from CPNI which can be obtained from their website.</p>	Guidance

<p>D.2.3 <i>In the event that there are any significant changes to your security plan, you must send a revised copy to the relevant police as soon as reasonably practicable.</i></p>	Rule (Condition)
<p>This condition supports Articles 86(1).</p> <p>This condition supports IAEA GSR part 3 Requirement 17.</p> <p>This condition supports the IAEA Code of Conduct of the Safety and Security of Radioactive Sources.</p> <p>You must inform the CTSA's of any significant change in your Security Plan so they can ensure the changes are appropriate and robust.</p>	Reason
<p>The CTSA's can provide further advice on significant changes and the address to send the modified Security Plan. In addition, further guidance on a wide range of security issues is available from the CPNI, and can be obtained from their website.</p>	Guidance

E. HIGH ACTIVITY SEALED SOURCES (HASS)

E.1 Financial provision

<p>E.1.1 <i>You must ensure that you have made and maintain adequate, valid and useable financial provision for the management of each HASS including when they become waste.</i></p>	Rule (Condition)
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------

<p>This condition supports Article 87(b) of the BSSD and Article 7(5) of the SFRWD.</p> <p>This condition supports IAEA GSR part 3 Requirement 17.</p> <p>You are required to have in place adequate financial provision for HASS to cover the costs of disposal when they are no longer in use to ensure that HASS are not abandoned, disposed of illegally or otherwise become orphan sources.</p>	Reason
<p>Financial provision will usually be approved by SEPA when an application for a HASS permit is made. However, appropriate financial provision needs to be in place at all times that you are responsible for the HASS, not just once the HASS becomes a disused source. It is strongly recommended that you regularly review your financial provision to ensure that the amounts of money provided remains adequate for the safe management of HASS Authorised Sources when they become a disused source.</p> <p>You should inform SEPA of any proposed changes to the type of financial provision or its value as soon as reasonably practicable before the changes occurs.</p>	Guidance

E.2 HASS information and marking requirements

<p>E.2.1 <i>You must ensure that each HASS is accompanied at all times by:</i></p> <ul style="list-style-type: none"> (a) <i>written information which confirms that each HASS is identified and marked with a unique number; and</i> (b) <i>photographs of the HASS, source container, transport packaging, device and equipment as appropriate.</i> 	Rule (Condition)
<p>This condition Article 91(2) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirement 17.</p> <p>It ensures that you keep sufficient written information, including photographs, in order to identify the HASS as well as any associated equipment. This information will be particularly useful if the HASS is lost or stolen.</p>	Reason
<p>Photographs do not need to be of the specific source, and you must not endanger your safety by exposing yourself to unnecessary radiation doses in order to obtain photographs of unshielded sources.</p> <p>It is recommended that information about the HASS are gathered into a single file and kept securely as both a hard copy and an electronic file. This file should include information enabling the positive identification of the HASS, such as any wording on the device, size, weight, serial number and photographs.</p>	Guidance

F. MOBILE RADIOACTIVE SOURCES

<p>F.1.1 <i>When not in storage or in transit, you must ensure the mobile radioactive sources are under continuous supervision by a suitably trained and experienced person.</i></p>	Rule (Condition)
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------

<p>This condition supports Articles 65(1)(d), 85(1) and 86(1) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirement 17.</p> <p>Due to their nature, mobile radioactive sources may go to places where you do not have full control over the access arrangements. In these circumstances, it is critical that these sources are kept under continuous supervision in order to prevent unauthorised access to and potential removal, loss or theft of the sources.</p>	Reason
<p>Supervision does not necessarily mean having the source in direct sight. It is possible to use CCTV equipment to maintain appropriate supervision. In addition, if there are only a limited number of access points to the source which is out of direct sight, and these access points are manned by suitably trained individuals or locked with limited access to keys/access codes/swipe cards/etc., this requirement will be satisfied.</p> <p>“Suitably trained” is someone who understands the consequences of the unauthorised removal, loss or theft of the source. This person also understands the local arrangements to keep the source safe, the extent of those arrangements and what to do if those arrangements have not been followed, there has been unauthorised access or removal of the source or if it has been lost or stolen.</p>	Guidance

<p>F.1.2 <i>You must inform SEPA of the following circumstances by providing the information within the specified timescales set out in the relevant section of Schedule 3 of these Standard Conditions:</i></p> <ul style="list-style-type: none"> (a) <i>If you change the location where mobile radioactive sources are normally kept;</i> (b) <i>If you intend to keep mobile radioactive sources at a place other than where they are normally kept for a period exceeding four months;</i> (c) <i>If you intend to bring a mobile radioactive source normally kept outside Scotland into Scotland.</i> 	Rule (Condition)
<p>This condition supports Articles 85(1) and 86(1) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirement 17.</p> <p>An “authorised place” has not been defined for Authorisations for Mobile Radioactive Sources as it is recognised that authorised Mobile Radioactive Sources have been designed or adapted for being transported from place to place. Whilst it does not need to appear in the Authorisation, SEPA still needs to know where the authorised Mobile Radioactive Sources are normally kept, and if that location changes, in order to maintain regulatory control.</p>	Reason

<p>The initial place where the authorised Mobile Radioactive Sources will be normally kept will be established during the application determination period. Thereafter, SEPA must be informed of any changes as soon as reasonably practicably before the movement takes place.</p> <p>Normally, SEPA would seek to inspect the place where the authorised Mobile Radioactive Sources are normally kept, if that location is in Scotland. However, in cases where it is to remain at another location for four months or more, there may be a higher risk to the security of the authorised Mobile Radioactive Sources, and the security arrangements may need to be verified as being appropriate.</p> <p>In the case of Mobile Radioactive Sources which are also sealed sources, we will also contact the CTSA's to alert them to the proposed change. We may carry out a joint inspection of the premises where the authorised Mobile Radioactive Sources will be kept.</p> <p>This requirement to inform SEPA if you bring the source into Scotland does not apply to authorised Mobile Radioactive Sources that are normally kept in Scotland, including offshore parts of Scotland.</p> <p>The written confirmation should be sent to SEPA as detailed in Appendix 1 of this guidance.</p>	Guidance
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

G. DISPOSAL OF RADIOACTIVE WASTE

G.1 Generic Disposal Requirements

<p>G.1.1 <i>You must not dispose of any radioactive waste that is not described in your authorisation.</i></p>	Rule (Condition)
<p>This condition fulfils Article 65(2) of the BSSD.</p> <p>This condition gives force to any specified wastes and destinations set out in the authorisation. The disposal of unauthorised waste may result in an unplanned exposure of a member of the public or harm to the environment.</p>	Reason
<p>If no waste has been specified in your authorisation, and it is not covered by another standard condition (e.g. disposal with normal refuse), you are not authorised to dispose of any waste, except by transfer to another person.</p>	Guidance
<p>G.1.2 <i>You must ensure that any radioactive waste you dispose of is only disposed of in the manner described in your authorisation.</i></p>	Rule (Condition)
<p>This condition fulfils Article 65(2) of the BSSD.</p> <p>This condition gives force to the authorisation. The disposal of waste via an unauthorised route may result in an unplanned exposure of a member of the public or harm to the environment.</p>	Reason

No further specific guidance is provided.	Guidance
-------------------------------------------	----------

G.1.3 <i>You must ensure that the quantity of radioactive waste you dispose of does not exceed any limits set out in your authorisation.</i>	Rule (Condition)
This condition fulfils Article 65(2) of the BSSD. This condition gives force to any limits set out in the authorisation. Exceeding any specified limit may result in an unplanned exposure of a member of the public or harm to the environment.	Reason
No further specific guidance is provided.	Guidance

G.1.4 <i>You must use the best practicable means to minimise the quantity of radionuclides that are discharged</i>	Rule (Condition)
This condition supports Articles 5(b), 29(3) and 68(a) of the BSSD and Article 4(3)(a) of the SFRWD. This condition supports IAEA GSR part 3 Requirements 11, 15, 29 and 30. Where radioactive waste production cannot be avoided, BPM must be used to minimise the activity and volume of the radioactive waste generated. Waste reduction is an important step in radioactive waste management and controlling potential risk of an unplanned exposure to a member of the public or harm to the environment.	Reason
This is the second underpinning rule of optimisation. For further guidance on optimisation, please see the SEPA documents “Satisfying the ALARA requirements and the role of Best Practicable Means” and “Basic principles of radioactive waste management”, available from SEPA’s website.	Guidance

G.1.5 <i>You must use the best practicable means to dispose of radioactive waste in a manner that minimises public exposure and impact on the environment.</i>	Rule (Condition)
----------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------

<p>This condition supports Articles 5(b), 29(3) and 68(a) of the BSSD and Article 4(3)(a) of the SFRWD.</p> <p>This condition supports IAEA GSR part 3 Requirements 11, 15, 29 and 30.</p> <p>It places the general BPM requirements directly on the disposal routes and radioactive waste types set out in the Authorisation. It also specifically states that the radiological effects of concern to the Authorisation are those to members of the public and to the environment.</p>	Reason
<p>For further guidance on optimisation, please see the SEPA documents “Satisfying the ALARA requirements and the role of Best Practicable Means” and “Basic principles of radioactive waste management”, available from SEPA’s website.</p>	Guidance

G.2 Evaluation of releases

<p>G.2.1 <i>You must evaluate the quantity of radionuclides discharged into the environment.</i></p>	Rule (Condition)
<p>This condition supports Article 67 of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirements 13 and 31.</p> <p>You must evaluate the amount of radioactivity disposed of to the environment so that there is not an unplanned exposure of a member of the public or harm to the environment.</p>	Reason
<p>By “evaluate”, SEPA includes monitoring and calculation. The most appropriate method for evaluating will be optimised. It is up to you to decide and justify the chosen method. SEPA expects this decision to be written down and available for inspection.</p>	Guidance

G.3 Disposal in normal refuse

<p>G.3.1 <i>You are authorised to dispose of solid radioactive waste in normal refuse provided that:</i></p> <ul style="list-style-type: none"> (a) <i>No single item has an activity exceeding 400 kBq for tritium and C-14 or 40 kBq for all other radionuclides;</i> (b) <i>The total activity in 0.1m³ of normal refuse does not exceed 4 MBq for tritium and C-14 or 400 kBq for all other radionuclides;</i> (c) <i>The total activity disposed of in a year does not exceed 2 GBq for tritium and C-14 and 200 MBq for all other radionuclides; and</i> (d) <i>Where practicable, any marking or labelling that indicates the waste is radioactive is removed prior to disposal.</i> 	Where practicable, any marking
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------

<p>This condition supports IAEA GSR part 3 Requirement 8.</p> <p>This is a replacement for the “disposal of low volumes of solid radioactive waste” exemption contained in the Radioactive Substances Exemption (Scotland) Order 2011. It is reproduced as a standard condition to allow it to be used in conjunction with a permit or registration.</p>	Reason
<p>The values presented are supported by radiological impact assessments which demonstrate that the relevant dose criteria are unlikely to be breached under all foreseeable circumstances.</p> <p>The radiological impact assessments that underpin this disposal route are based on the assumption that these wastes follow the “normal” route for disposal of conventional waste to a landfill or an incinerator, via (in many cases) a sorting, recovery or pre-treatment step and are co-disposed with substantial quantities of non-radioactive waste. The assessment is based on known common practice:</p> <ul style="list-style-type: none"> • A waste producer, at the point of origin, places waste in a container such that the radioactive content is no more than the concentration limits set out in the standard condition. • A batch of such wastes is dispatched to a waste management company. • The receiver of the waste- the waste management company- disposes of the batch to a landfill or incinerator, possibly following a sorting step. • The waste management company disposes of several batches of non-radioactive waste immediately prior to, and again after, the disposal of the radioactive batch. <p>If this is not the case, and the waste is disposed of to a facility where dilution by co-disposal as described above is not expected to take place, then this condition does not apply.</p> <p>The 0.1m³ volume limit is the approximate volume of a normal refuse bin.</p> <p>There are persons who receive radioactive waste (premises used for management of wastes which are not radioactive) for burial on land or incineration but who may be unaware of the presence of very low concentrations of radioactivity or trivial strength sources in the normal refuse. The principle here is that, in order to meet the relevant criterion for safety, conditions are applied to the waste producer and not to the waste disposer. Further controls are not necessary when the waste has left the premises where it arose.</p>	Guidance

G.4 Radioactive aqueous liquid disposals - small quantities

<p>G.4.1 <i>You are authorised to dispose of radioactive aqueous liquid waste to a relevant sewer, relevant river or the sea provided that:</i></p> <p>(a) <i>The radionuclide concentration does not exceed 100 Bq/ml; and</i></p> <p>(b) <i>The total activity disposed of in 1 year does not exceed:</i></p> <p>(i) <i>100 MBq for the sum of the following radionuclides: H-3, C-11, C-14, F-18, P-32, P-33, S-35, Ca-45, Cr-51, Fe-55, Ga-67, Sr-89, Y-90, Tc-99m, In-111, I-123, I-125, I-131, Sm-153, Tl-201; or</i></p> <p>(ii) <i>1 MBq for the sum of all other radionuclides.</i></p>	Rule (Condition)
<p>This condition supports IAEA GSR part 3 Requirement 8.</p> <p>This is a replacement for the “disposal of low concentration aqueous radioactive waste to sewer, river or sea” exemption contained in the Radioactive Substances Exemption (Scotland) Order 2011. It is reproduced as a standard condition to allow it to be used in conjunction with a permit or registration and provides a generic limit for these types of discharges.</p>	Reason
<p>A “relevant sewer” is defined as a sewage works with a capacity > 100m² of effluent/day. A “relevant river” is defined as a watercourse with a flowrate > 1m³/second.</p> <p>Disposals may also be made to a person who is permitted to receive such waste (e.g. by tanker).</p> <p>The radiological impact assessments are based on small scale disposals. Other pathways to human dose (for instance, disposal to a soakaway or into static water such as lochs) are not covered by the impact assessment.</p> <p>Aqueous liquid waste can include entrained solids or suspensions, provided that all practical measures have been used to attempt to remove such solid suspensions from the waste stream prior to disposal.</p>	Guidance

G.5 Radioactive gaseous releases - small quantities

<p>G.5.1 <i>You are authorised to dispose of radioactive gaseous waste provided that:</i></p> <p>(a) <i>it consists only of fugitive releases from a container; and</i></p> <p>(b) <i>it is dispersed from a building in such a way that it does not enter or re-enter a building.</i></p>	Rule (Condition)
<p>This condition supports IAEA GSR part 3 Requirement 8.</p> <p>This is a replacement for the “disposal of gaseous radioactive waste” exemption contained in the Radioactive Substances Exemption (Scotland) Order 2011. It is reproduced as a standard condition to allow it to be used in conjunction with a permit or registration.</p>	Reason

<p>This condition covers the situation where containers of liquids or solids are opened and the release of a small quantity of gas or vapour cannot be avoided. The condition does not apply if the gas or vapour arises because of a process (for example, deliberate heating) has been applied to the contained radioactive substance. It does not cover any loss of gas or vapour after the liquid or solid has been dispensed.</p> <p>Gaseous waste streams may contain solid particulates or liquids in aerosol form. Provided that all practical measures have been used to attempt to fully remove such solid and liquid components from the gaseous waste stream, such particulates or aerosols may be treated as an integral part of the gaseous waste stream.</p>	Guidance
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

H. FURTHER CONDITIONS FOR PERMITS WITH BESPOKE DISPOSAL CONDITIONS

H.1 Assessment of public exposure and the environment

<p>H.1.1 <i>You must carry out and maintain an assessment of public exposure and the impact on the environment resulting from your disposals.</i></p>	Rule (Condition)
<p>This condition fulfils Article 66 of the BSSD.</p> <p>This Condition supports IAEA GSR part 3 Requirements 13 and 31.</p> <p>You must carry out and maintain this assessment to demonstrate there is not an unauthorised exposure of a member of the public or harm to the environment resulting from your disposals.</p>	Reason
<p>Usually, you will have carried out an assessment when you applied for authorisation. SEPA expects this assessment to be maintained throughout the life of the authorisation.</p> <p>Some assessments may be generic and used to underpin other standard conditions. In these circumstances, SEPA expects you to know when this is the case, although you will not usually need to keep a copy of the generic assessment.</p> <p>For disposals on nuclear sites, SEPA expects this requirement to be satisfied by maintaining the SWESC as set out in the document “General Requirements for Release”, available on SEPA’s website.</p>	Guidance

H.2 Radioactive gaseous discharges outwith authorised outlets

<p>H.2.1 <i>You must discharge radioactive gaseous waste from an authorised gaseous outlet unless you can:</i></p> <ul style="list-style-type: none"> (a) <i>Demonstrate that directing the discharge to an authorised gaseous outlet is not the best practicable means; and</i> (b) <i>Ensure that you will not exceed any relevant gaseous discharge limit.</i> 	Rule (Condition)
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------

<p>This condition supports Articles 65(2) and 68(a) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirement 11.</p> <p>Even if you have specified gaseous discharge limits and authorised gaseous outlets in your authorisation, circumstances may arise where it may not be practical to use these outlets. This condition allows those circumstances to be accommodated, subject to the discharge being BPM and within your authorised gaseous limits, without the need to vary your authorisation.</p>	Reason
<p>SEPA expects that radioactive gaseous discharges subject to limits will be discharged via authorised gaseous outlet(s). However, we recognise that in some situations it may not always be BPM to discharge via these outlets. SEPA expects you to write down the justification for not using an authorised gaseous outlet and be able to demonstrate that any gaseous emissions will not challenge any gaseous limit specified in your authorisation.</p> <p>For further guidance on optimisation, please see the SEPA documents “Satisfying the ALARA requirements and the role of Best Practicable Means” and “Basic principles of radioactive waste management”, available from SEPA’s website.</p>	Guidance

I. INTRODUCTION OF RADIOACTIVE MATERIAL INTO ORGANISMS

<p>I.1.1 <i>You are authorised to introduce radioactive material into organisms that will leave the authorised place whilst containing that substance.</i></p>	Rule (Condition)
<p>This condition specifically authorises you to introduce radioactive material into organisms that leave the authorised place if Section I is specified in your authorisation. This activity is essentially no different to the disposal of radioactive waste into the environment in that it can have the same risk of an unplanned exposure to a member of the public or harm to the environment.</p>	Reason
<p>Organisms includes human patients.</p>	Guidance
<p>I.1.2 <i>You must carry out and maintain an assessment of public exposure that will result as a consequence of allowing organisms to which radioactive substances have been administered leave the authorised place.</i></p>	Rule (Condition)

<p>This condition supports Article 66 of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirements 13 and 32.</p> <p>It replicates the requirement to carry out and maintain an assessment, as found under the disposal of radioactive waste, with regard to the introduction of radioactive material into organisms</p> <p>You must carry out and maintain this assessment to demonstrate that there has not been an unplanned exposure of a member of the public, harm to the environment or the generation of unnecessary radioactive waste.</p>	Reason
<p>You will have carried out an assessment when you applied for authorisation. SEPA expects this assessment to be maintained throughout the life of the authorisation.</p> <p>Some assessments may be generic and used to underpin other standard conditions. In these circumstances, SEPA expects you to know when this is the case, although you will not usually need to keep a copy of the generic assessment.</p>	Guidance

<p>I.1.3 <i>You must ensure that public exposure and any impact on the environment resulting from the introduction of radioactive material into organisms is minimised.</i></p>	Rule (Condition)
<p>This condition supports Articles 5(b), 29(3) and 68(a) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirements 13 and 32.</p> <p>It ensures that the optimisation requirements associated with the disposal of radioactive waste are applied to the introduction of radioactive material into organisms.</p> <p>You must minimise the radiological impact of the introduction of radioactive material into organisms that leave the authorised place so there is not an unplanned exposure of a member of the public or harm to the environment.</p>	Reason
<p>SEPA considers this very similar to the optimisation principle for radioactive waste. For further guidance on optimisation, please refer to the SEPA document “Satisfying the ALARA requirements and the role of Best Practicable Means”, available from SEPA’s website.</p>	Guidance

<p>I.1.4 <i>You are authorised to receive radioactive wastes that have been generated beyond the authorised place which are the result of your introduction of radioactive material into organisms.</i></p>	Rule (Condition)
<p>This condition specifically allows you to receive back any radioactive waste that has been generated as a consequence of your introduction of radioactive material into organisms once the organism has left the authorised place.</p>	Reason

<p>This only applies to radioactive wastes that are generated as a consequence of your introduction of radioactive material into the organisms. Should you wish to receive other types of radioactive waste, it will need to be listed in your authorisation.</p>	Guidance
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

J. ENVIRONMENTAL MONITORING PROGRAMME

<p>J.1.1 <i>You must develop, implement, maintain and review an environmental monitoring programme to monitor the levels of radioactivity in the environment and food caused by your radioactive waste disposals.</i></p>	Rule (Condition)
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------

<p>This condition fulfils Article 67(1) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirements 11, 15, 30, 31 and 32.</p> <p>It requires you to establish and operate a suitable environmental monitoring programme to demonstrate that your radioactive discharges have been optimised and the radiological effects minimised.</p>	Reason
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------

<p>This requirement is goal-setting and allows you to develop a suitable programme taking into account the types of radionuclides discharged, their activities, the scale of the discharge and its location in relation to sensitive receptors. It is not necessary for you to obtain prior approval of the programme from SEPA, but the programme will form part of the routine inspection associated with the authorisation.</p> <p>It should be noted that you may take many more environmental samples and measurements in the vicinity of the authorised place than form part of this environmental monitoring programme. It is not required that all of this monitoring is included in the programme established under this condition, and SEPA accepts that the other monitoring may be undertaken for other purposes (e.g. public reassurance). Neither does SEPA expect that the programme has to be completely new. In all cases where it is sensible to do so, SEPA would expect a single set of monitoring data to satisfy multiple purposes.</p> <p>Further guidance on the planning and implementation of a routine environmental monitoring programme can be obtained in the joint guidance document “<i>Radiological Monitoring Technical Guidance Note 2: Environmental Radiological Monitoring</i>” available on SEPA’s website.</p>	Guidance
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

<p>J.1.2 <i>You must take appropriate samples and conduct appropriate measurements, tests, surveys, analyses and calculation to periodically assess the effectiveness of the measures you have taken to minimise the radiological effects of your radioactive waste disposals.</i></p>	Rule (Condition)
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------

<p>This condition supports Article 67(1) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 requirement 14.</p> <p>It is your responsibility to actively take samples and carry out measurements et al as necessary to demonstrate compliance with the requirements of the environmental monitoring programme. Appropriate sampling et al demonstrates that your radioactive discharges have not resulted in an unplanned exposure of a member of the public or harm to the environment.</p>	Reason
<p>You should have carried out an assessment to determine what sampling, measurement, tests, surveys and calculations are needed to implement your environmental monitoring programme.</p> <p>The number, frequency and type of sample, measurement, etc. is dependent on a variety of factors including the nature of the radioactive substances being disposed of and the manner in which it is disposed. It may also be necessary to consider the non-radioactive properties of the radioactive substances being disposed of, particularly if they are hazardous. SEPA expects that you will have received input from your RWA.</p> <p>This information should be written down and included in the procedures relating to sampling, measurement etc. The results of all sampling, measurements etc. must be recorded and be available for inspection by SEPA.</p>	Guidance

<p>J.1.3 <i>You must inform SEPA within the specified timescales of any intended change in the environmental monitoring programme in accordance with Schedule 3 of these Standard Conditions.</i></p>	Rule (Condition)
<p>This condition supports Article 67 of the BSSD and Article 5(1)(d) of the SFRWD.</p> <p>This condition supports IAEA GSR part 3 Requirement 16.</p> <p>SEPA recognises that the environmental monitoring programme may need to change over time. This condition ensures that any changes to the programme are notified to SEPA with sufficient time for SEPA to consider the implications of the proposed changes.</p>	Reason
<p>It is difficult to demonstrate compliance with this condition unless there has been a need to amend the environmental monitoring programme. SEPA expects you to have measures in place to that SEPA is informed, many of which will be written down for other purposes, and this can be used as demonstration of compliance.</p> <p>The inability to obtain a data set due to unforeseen circumstances (e.g. no mussels available to sample) does NOT require SEPA to be informed. This requirement applies to planned changes to the environmental monitoring programme. However, if there is a planned temporary change to the programme (e.g. to cease beach monitoring at a specified beach until arrangements with the beach owner have been concluded), it still requires SEPA to be informed.</p> <p>It is also acceptable to inform SEPA via email. The information should be sent to the SEPA address specified in Appendix 1 of this guidance.</p>	Guidance

K. CONDITIONS APPLICABLE TO OFFSHORE INSTALLATION REGISTRATIONS

<p>K.1.1 <i>You are authorised to dispose of radioactive waste arising from the production of oil and gas, excluding any waste that has been sent to an offshore installation from land.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports the London Dumping Convention, OSPAR and Article 65(2) of the BSSD.</p> <p>The generic disposal limits have been assessed based on an assumed concentration of radium-226 in the produced water. If this threshold is exceeded, SEPA will need to carry out further, more detailed assessments to ensure that the disposals at these higher concentrations do not result in an unplanned exposure of a member of the public or harm to the environment.</p>	<p>Reason</p>
<p>The exclusion of waste that has been sent to an offshore installation from land prevents waste which had been sent to land for disposal from being sent back offshore for disposal.</p>	<p>Guidance</p>

<p>K.1.2 <i>The specified disposal route for radioactive waste is the system that you have provided for this purpose.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports 65(2) of the BSSD.</p> <p>This condition gives force to the authorisation by specifying the disposal system to be used in accordance with standard condition G.1.2. It allows you to designate the system(s) for offshore disposals in order to provide operational flexibility.</p>	<p>Reason</p>
<p>SEPA expects that you will formally identify in writing which system(s) are to be used for offshore disposals of radioactive waste.</p>	<p>Guidance</p>

<p>K.1.3 <i>You must not discharge radioactive waste at any place other than the authorised place.</i></p>	<p>Rule (Condition)</p>
<p>This condition prevents radioactive waste stored in a support vessel from being discharged at any other location than the authorised place. The generic disposal limits are based on all disposals occurring at the authorised place.</p>	<p>Reason</p>
<p>No further guidance is provided.</p>	<p>Guidance</p>

<p>K.1.4 <i>If you have any reason to believe that the concentration of Ra-226 in produced water has exceeded 0.1 Bq/g of produced water, you must inform SEPA without delay in accordance with Schedule 3 of these Standard Conditions.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 29(30) of the BSSD and Article 5(1)(d) of the SFRWD.</p> <p>This condition supports IAEA GSR part 3 Requirement 32.</p> <p>The generic disposal limits have been assessed based on an assumed concentration of radium-226 in the produced water. If this threshold is exceeded, SEPA will need to carry out further, more detailed assessments to ensure that the disposals at these higher concentrations do not result in an unplanned exposure of a member of the public or harm to the environment.</p>	<p>Reason</p>
<p>The contact details for SEPA are specified in Appendix 1 of this guidance.</p>	<p>Guidance</p>

<p>K.1.5 <i>You must not in any year discharge radioactive waste arising from decontamination or cleaning operations in which the activity of any radionuclide exceeds the relevant limit set out in Table K-1.</i></p>	<p>Rule (Condition)</p>
<p>This condition supports Article 29(3) of the BSSD.</p> <p>This condition supports IAEA GSR part 3 Requirements 12 and 14.</p> <p>This condition gives force to Table K-1.</p>	<p>Reason</p>
<p>The table does not contain all the radionuclides associated with NORM (e.g. U-238). However, SEPA believes the listed radionuclides are those of most concern and that other radionuclides will be in lesser concentrations and appear in general relation to the listed radionuclides. By limiting the listed radionuclides, SEPA is also controlling these other radionuclides.</p> <p>If you have evidence to suggest that this assumption is not accurate, you must contact SEPA immediately.</p>	<p>Guidance</p>

Table K-1

Radionuclide	Annual Limit (GBq)
Radium 226	2
Radium 228	2
Lead 210	2
Polonium 210	2

APPENDIX 1: SEPA CONTACT DETAILS

Telephone

If required to inform SEPA by telephone, you must use SEPA's Pollution Hotline on **0800 80 70 60**.

If you are informing SEPA by telephone and are physically located outside of Scotland, you must use the telephone number **01698 839 028**.

The use of either telephone number will connect the person making the call to SEPA's Communication Centre, which is open 24 hours a day, 7 days a week. All calls are formally logged and will be forwarded within SEPA to ensure that an appropriate response can be made. It is recommended that you inform SEPA using these numbers, even during the working day, since there is no guarantee that the SEPA officer who normally deals with the Authorisation in question will be available.

Written Notifications & Confirmations

For informing SEPA or providing confirmation in writing required by your authorisation, unless specifically instructed by the SEPA officer dealing with the site or event, it is recommended that you emailed them to RSNotifications@sepa.org.uk. This will ensure that the information is received and acted upon in a reasonable timescale.

HASS Form Returns

For all submissions relating to HASS, you must use the HASS Record form, available from SEPA's website. You must send the form to:

SEPA Registry
Inverdee House
Baxter Street
Torry
ABERDEEN
AB11 9QA

Data Returns

For all required data returns to SEPA (e.g. annual waste returns), you must send the required information to RSNotifications@sepa.org.uk. This will ensure that the return is logged and passed to the appropriate SEPA officer(s) for dealing with that return.