

SCHEDULE 1

Regulation 3

PART 1

QUESTIONNAIRE FOR THE DECLARATION OF THE BASIC TECHNICAL CHARACTERISTICS OF A QUALIFYING NUCLEAR FACILITY

I-A. REACTORS

Date:

NB:

1. The reply 'not applicable' can be given to questions which are not applicable. The ONR is still entitled to request any additional information it considers necessary in connection with the relevant questionnaire in accordance with regulation 3(5).
2. The declaration, duly completed and signed, should be forwarded to the ONR in electronic form in accordance with regulation 35.

IDENTIFICATION OF THE QUALIFYING NUCLEAR FACILITY

1. Name
2. Location, exact address with telephone and fax numbers and e-mail address.
3. Owner (legally responsible body or individual).
4. Operator (legally responsible body or individual).
5. Present status (e.g. under construction, in operation or closed down).
6. Purpose and type.
7. Operating mode influencing its production (shift system adopted, approximate dates of operating periods in year, etc.).
8. Area layout (map showing the installation, boundaries, buildings, roads, rivers, railways, etc.).
9. Layout of qualifying nuclear facility:
 - (a) structural containment, fences and access routes;
 - (b) storage area for incoming qualifying nuclear material;
 - (c) reactor area;
 - (d) test and experiment area, laboratories;
 - (e) storage area for outgoing qualifying nuclear material;
 - (f) disposal area for qualifying nuclear material declared as retained or conditioned waste.
10. Additional data per reactor:
 - (a) nominal thermal output;

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- (b) material that is either source material or fissionable material;
- (c) initial core enrichments;
- (d) moderator;
- (e) coolant.

GENERAL ARRANGEMENTS AT THE QUALIFYING NUCLEAR FACILITY, INCLUDING THOSE RELATING TO MATERIAL USE AND ACCOUNTANCY, CONTAINMENT AND SURVEILLANCE

Description of qualifying nuclear material

11. Description of the use of qualifying nuclear material.
12. Outline drawings of fuel assemblies, fuel rods/pins, fuel plates etc., in sufficient detail to indicate general structure with overall dimensions. (Provisions for pin exchange should be described, if applicable, and an indication given if this is a routine operation.)
13. Fuel material (including material in control or shim assemblies, if applicable):
 - (a) chemical composition or main alloy constituents;
 - (b) average enrichment per assembly;
 - (c) nominal weight of qualifying nuclear material per assembly, with design tolerances.
14. Cladding material.
15. Method of identifying individual assemblies, rods/pins, plates etc., if applicable.
16. Other qualifying nuclear material used in the qualifying nuclear facility (briefly state material, purpose and method of use, e.g. as booster rods).

Flow of qualifying nuclear material

17. Flow sheet showing: points where qualifying nuclear material is identified or measured; material balance areas and inventory locations used for material accountancy; and the estimated range of qualifying nuclear material inventories at these locations under normal operating conditions.
18. Expected nominal fuel cycle data, including:
 - (a) reactor core loading;
 - (b) expected burn-up;
 - (c) annual refuelling amount;
 - (d) refuelling interval (on-load or off-load);
 - (e) forecast of throughput and inventory, and of receipts and shipments.

Handling of qualifying nuclear material

19. Layout of the fresh fuel storage area, drawings of fresh fuel storage locations, and description of packaging.
20. Drawings of fresh fuel preparation and/or assay room and reactor loading area.
21. Drawings of transfer equipment for fresh and irradiated fuel, including refuelling machines or equipment.
22. Drawings of reactor vessel showing location of core and openings in vessel; description of method of fuel handling in vessel.
23. Drawing of core showing: general layout, lattice, form, pitch and dimensions of core; reflector; location, shapes and dimensions of control devices; experimental and/or irradiation positions.
24. Number and size of channels for fuel assemblies and control devices in the core.
25. Spent fuel storage area:
 - (a) drawing of storage area;
 - (b) method of storage;
 - (c) design storage capacity;
 - (d) drawing of equipment for handling irradiated fuel;
 - (e) minimum cooling time before shipment of spent fuel;
 - (f) drawing and description of shipping cask for spent fuel (e.g. to determine whether sealing is possible).
26. Qualifying nuclear material testing area (if applicable):
 - (a) brief description of the activities performed;
 - (b) description of main equipment (e.g. hot cell, fuel assembly decladding and dissolving equipment);
 - (c) description of shipping containers for qualifying nuclear material and of waste and scrap packaging (e.g. to determine whether sealing is possible);
 - (d) description of storage area for non-irradiated and irradiated qualifying nuclear material;
 - (e) drawings of the above, if not covered elsewhere.

Coolant data

27. Coolant flow diagrams as required for heat balance calculations (indicating pressure, temperatures and mass flow rates at main points).

ACCOUNTANCY AND CONTROL OF QUALIFYING NUCLEAR MATERIAL

Accountancy system

28. Description of accountancy and control system for qualifying nuclear material (describe item and/or mass accountancy system, including assay methods used and assessed accuracies,

Status: This is the original version (as it was originally made).

supplying specimen blank forms used in all accountancy and control procedures). Period during which such records must be retained should be stated.

Physical inventory

29. Description of: procedures, scheduled frequency and methods for operator's physical inventory taking (both for item and/or mass accountancy, including main assay methods and expected accuracy); access to qualifying nuclear material in the core and to qualifying nuclear material which is irradiated and outside the core; expected radiation levels.

OTHER INFORMATION RELEVANT TO APPLICATION OF SAFEGUARDS

30. Organisational arrangements for accountancy and control of qualifying nuclear material.
31. Information on the health and safety rules which have to be observed at the qualifying nuclear facility, and with which the inspectors must comply.

I-B. CRITICAL AND ZERO ENERGY INSTALLATIONS

Date:

IDENTIFICATION OF THE QUALIFYING NUCLEAR FACILITY

1. Name
2. Location, exact address with telephone and fax numbers and e-mail addresses.
3. Owner (legally responsible body or individual).
4. Operator (legally responsible body or individual).
5. Present status (e.g. under construction, in operation or closed down).
6. Purpose and type.
7. Operating mode (shift system adopted, approximate dates of operating periods in year, etc.).
8. Area layout (map showing the installation, boundaries, buildings, roads, rivers, railways, etc.).
9. Layout of qualifying nuclear facility:
 - (a) structural containment, fences and access routes;
 - (b) qualifying nuclear material storage area(s);
 - (c) fuel element assembling area, laboratories, etc.;
 - (d) critical assembly.
10. Additional data:
 - (a) maximum expected operating power and/or neutron flux;
 - (b) main type(s) of qualifying nuclear material and their enrichment;

- (c) moderator;
- (d) reflector, blanket;
- (e) coolant.

GENERAL ARRANGEMENTS AT THE QUALIFYING NUCLEAR FACILITY, INCLUDING THOSE RELATING TO MATERIAL USE AND ACCOUNTANCY, CONTAINMENT AND SURVEILLANCE

Description of qualifying nuclear material

11. Description of the use of qualifying nuclear material.
12. Outline drawings of fuel assemblies, fuel rods/pin, fuel plates etc., in sufficient detail to indicate general structure with overall dimensions.
13. Fuel material (including material in control or shim assemblies, if applicable):
 - (a) chemical composition or main alloy constituents;
 - (b) form and dimensions;
 - (c) enrichment of fuel rods/pins, fuel plates etc.;
 - (d) nominal weight of nuclear material, with design tolerances.
14. Cladding material.
15. Method of identifying individual assemblies, rods/pins, plates etc., if applicable.
16. Other qualifying nuclear material used in the qualifying nuclear facility (briefly state material, purpose and method of use, e.g. as booster rods).

Location and handling of qualifying nuclear material

17. Description, including layout drawings, of:
 - (a) storage and assembly areas and critical assembly (assemblies) proper (inventory locations) for the qualifying nuclear material;
 - (b) the estimated range of inventories of qualifying nuclear material in these locations;
 - (c) the physical arrangement of equipment used for assembling, testing and measuring qualifying nuclear material; and
 - (d) the routes followed by the qualifying nuclear material.
18. Sketch of critical assembly core showing core support structure, shielding and heat removal systems, with description (to be provided for each critical assembly if more than one in the qualifying nuclear facility).

ACCOUNTANCY AND CONTROL FOR QUALIFYING NUCLEAR MATERIAL

Accountancy system

Status: This is the original version (as it was originally made).

19. Description of accountancy and control system for qualifying nuclear material (describe item and/or mass accountancy system, including assay methods used and assessed accuracies, supplying specimen blank forms used in all accountancy and control procedures). Period during which such records must be retained should be stated.

Physical inventory

20. Description of: procedures, scheduled frequency and methods for operator's physical inventory taking (both for item and/or mass accountancy, including main assay methods and expected accuracy); access to qualifying nuclear material in the core and to qualifying nuclear material, which is irradiated and outside the core; expected radiation levels.

OTHER INFORMATION RELEVANT TO APPLICATION OF SAFEGUARDS

21. Organisational arrangements for accountancy and control of qualifying nuclear material.
22. Information on the health and safety rules which have to be observed at the qualifying nuclear facility and with which the inspectors must comply.

I-C. QUALIFYING NUCLEAR FACILITIES WHERE CONVERSION, FABRICATION AND REPROCESSING ARE CARRIED OUT

Date:

IDENTIFICATION OF THE QUALIFYING NUCLEAR FACILITY

1. Name.
2. Location, exact address with telephone and fax numbers and e-mail addresses.
3. Owner (legally responsible body or individual).
4. Operator (legally responsible body or individual).
5. Present status (e.g. under construction, in operation or closed down).
6. Purpose and type.
7. Operating mode influencing its production (shift system adopted, approximate dates of operating periods in year, etc.).
8. Area layout (map showing the qualifying nuclear facility, boundaries, buildings, roads, rivers, railways, etc.).
9. Layout of qualifying nuclear facility:
 - (a) structural containment, fences and access routes;
 - (b) routes followed by qualifying nuclear material;
 - (c) storage area for qualifying nuclear material which is incoming;
 - (d) each main processing area and process laboratory;

- (e) test or experimental areas;
- (f) storage area for qualifying nuclear material which is outgoing;
- (g) nuclear waste disposal area;
- (h) analytical laboratory.

GENERAL ARRANGEMENTS AT THE QUALIFYING NUCLEAR FACILITY, INCLUDING THOSE RELATING TO MATERIAL USE AND ACCOUNTANCY, CONTAINMENT AND SURVEILLANCE

Flow, location and handling of qualifying nuclear material

10. Flow sheet showing: points where qualifying nuclear material is identified or measured; material balance areas and inventory locations used for material accountancy; and the estimated range of nuclear material inventories at these locations under normal operating conditions. The description should include (if applicable):
 - (a) batch size or flow rate;
 - (b) method of storage or packing;
 - (c) storage capacity;
 - (d) general forecasts of throughput and inventory and of receipts and shipments.
11. In addition to point 10 above, a description and a layout drawing should be provided of feed storage areas for a qualifying nuclear facility where reprocessing is carried out, indicating:
 - (a) locations for fuel elements and handling equipment;
 - (b) type of fuel elements including the content and enrichment of qualifying nuclear material.
12. In addition to point 10 above, the description of the recycling stage of the process should include, if available:
 - (a) duration of temporary storage;
 - (b) schedules for external recycling (if applicable).
13. In addition to point 10 above, the description of the discard stage of the process should include the discard method (disposal or storage).
14. Under steady-state conditions, for each flow sheet referred to in points 10 and 17 and assuming the modes of operation in point 7, state:
 - (a) the nominal throughput per year;
 - (b) the in-process inventory based on design capacity.
15. Description of the normal procedures adopted for complete or partial clean-out of the process plant. Include description of special sampling and measurement points associated with the clean-out procedure and subsequent physical inventory taking, if not described in point 10 above.

Description of qualifying nuclear material

Status: This is the original version (as it was originally made).

16. Description of the use of qualifying nuclear material.
17. Description, by means of flow sheets or otherwise, of estimated flow and inventory of all qualifying nuclear material for storage and process areas. The description should include:
 - (a) physical and chemical form;
 - (b) content range or expected upper limits for each category of solid or liquid discard material;
 - (c) enrichment range.

ACCOUNTANCY AND CONTROL FOR QUALIFYING NUCLEAR MATERIAL

Accountancy system

18. Description of the accountancy system used to record and report accountancy data and establish material balances, supplying specimen blank forms used in all procedures. Period during which such records must be retained should be stated.
19. Indicate when and how often material balances are established, including those established during campaigns. Description of method and procedure for adjusting accounts after a physical inventory taking.
20. Description of procedure for handling shipper/receiver differences and method of adjusting accounts.
21. Description of procedure for correcting accounts following procedural or clerical errors and its effect on shipper/receiver differences.

Physical inventory

22. Refer to point 15. Identify items of equipment on the flow sheets referred to in points 10 and 17 that are to be regarded as containers for qualifying nuclear material under physical inventory conditions. State the schedule of physical inventory taking during the campaign.

Methods for measurement, sampling and analysis

23. Description of method for establishing each measurement at the point indicated; equations or tables used and calculations made to determine actual quantities of weights or volumes should be identified. Indicate whether data are recorded automatically or manually. Method and practical procedures for sampling at each point indicated should be described.
24. Description of analytical methods used for accountancy purposes. Refer to a manual or report, if possible.

Control of measurement accuracy

25. Description of: measurement quality control programme needed for material accountancy purposes, including programmes (together with accuracy values) for the continuing appraisal of analytical, weight, volume and sampling precisions and biases, and for the calibration of associated equipment; method of calibrating the measuring equipment referred to in point

24; type and quality of standards used for analytical methods referred to in point 24; type of analytical equipment used, indicating method and frequency of calibration.

Statistical evaluation

26. Description of methods for statistical evaluation of data collected in measurement control programmes for evaluating the precision and the accuracy of measurements and for estimating measurement uncertainties (i.e. determination of the standard deviations of random and systematic error in the measurements). Also description of statistical procedures used to combine individual error estimates to obtain the standard deviations of overall error for shipper/receiver differences, the book inventory, the physical inventory and material unaccounted for.

OTHER INFORMATION RELEVANT TO APPLICATION OF SAFEGUARDS

27. Organisational arrangements for accountancy and control of qualifying nuclear material.
28. Information on the health and safety rules which have to be observed at the qualifying nuclear facility and with which the inspectors must comply.

I-D. QUALIFYING NUCLEAR FACILITIES USED FOR STORAGE

This form may only be used in respect of a separate qualifying nuclear facility which is not associated with reactors, with enrichment, conversion, fabrication or reprocessing.

Date:

1. Name.
2. Location, exact address with telephone and fax numbers and e-mail addresses.
3. Owner (legally responsible body or individual).
4. Operator (legally responsible body or individual).
5. Present status (e.g. under construction, in operation or closed down).
6. Purpose and type.
7. Area layout (map showing the qualifying nuclear facility, boundaries, buildings, roads, rivers, railways, etc.).
8. Layout of qualifying nuclear facility, showing structural containment, fences and access routes.

GENERAL ARRANGEMENTS AT THE QUALIFYING NUCLEAR FACILITY, INCLUDING THOSE RELATING TO MATERIAL USE AND ACCOUNTANCY, CONTAINMENT AND SURVEILLANCE

Description of qualifying nuclear material.

Status: This is the original version (as it was originally made).

9. Description of the use of qualifying nuclear material.
10. Description, by means of drawings or otherwise, of all qualifying nuclear material in the qualifying nuclear facility, showing:
 - (a) all types of items, including normal handling equipment;
 - (b) chemical composition or main alloy constituents;
 - (c) form and dimensions;
 - (d) enrichment;
 - (e) nominal weight of qualifying nuclear material, with design tolerances;
 - (f) cladding materials;
 - (g) methods of identifying items.

Location and handling of qualifying nuclear material

11. Description, by means of layout drawings or otherwise, of:
 - (a) storage areas (inventory locations) for qualifying nuclear material;
 - (b) the estimated range of inventories of qualifying nuclear material in these locations;
 - (c) storage and/or shipping containers of qualifying nuclear material;
 - (d) the routes and equipment used for movement of qualifying nuclear material, if applicable.

ACCOUNTANCY AND CONTROL FOR QUALIFYING NUCLEAR MATERIAL

Accountancy system

12. Description of accountancy and control system for qualifying nuclear material (describe item and/or mass accountancy system, including assay methods used and assessed accuracies, supplying specimen blank forms used in all accountancy and control procedures). Period during which such records must be retained should be stated.

Physical inventory

13. Description of procedures, scheduled frequency and methods for operator's physical inventory taking (both for item and/or mass accountancy, including main assay methods), and expected accuracy.

OTHER INFORMATION RELEVANT TO APPLICATION OF SAFEGUARDS

14. Organisational arrangements for accountancy and control of qualifying nuclear material.
15. Information on the health and safety rules which have to be observed at the qualifying nuclear facility and with which the inspectors must comply.

I-E. QUALIFYING NUCLEAR FACILITIES WHERE ISOTOPES ARE SEPARATED

Date:

IDENTIFICATION OF THE QUALIFYING NUCLEAR FACILITY

1. Name.
2. Location, exact address with telephone and fax numbers and e-mail address.
3. Owner (legally responsible body or individual).
4. Operator (legally responsible body or individual).
5. Present status (e.g. under construction, in operation or closed down).
6. Building schedule (if qualifying nuclear facility not in operation):
 - (a) date building starts;
 - (b) date of acceptance for the qualifying nuclear facility;
 - (c) commissioning date.
7. Purpose and type (nominal separation capacity, enrichment facilities, etc.).
8. Operating mode influencing its production (shift system adopted, approximate periods of operating times in year, etc.).
9. Area layout (map showing the qualifying nuclear facility, boundaries, buildings, roads, rivers, railways, etc.).
10. Layout of qualifying nuclear facility:
 - (a) structural containment, fences and access routes;
 - (b) containment of certain parts of the qualifying nuclear facility;
 - (c) routes followed by qualifying nuclear material;
 - (d) storage area for qualifying nuclear material which is incoming;
 - (e) each main processing area and process laboratory, including weighing and sampling area, decontamination, purification and feed areas, etc.;
 - (f) test or experimental areas;
 - (g) storage area for qualifying nuclear material which is outgoing;
 - (h) nuclear waste disposal area;
 - (i) analytical laboratory.

GENERAL ARRANGEMENTS AT THE QUALIFYING NUCLEAR FACILITY, INCLUDING THOSE RELATING TO MATERIAL USE AND ACCOUNTANCY, CONTAINMENT AND SURVEILLANCE

Description of qualifying nuclear material.

11. Description of the use of qualifying nuclear material.

Status: This is the original version (as it was originally made).

12. Description, by means of flow sheets or otherwise, of estimated flow and inventory of all qualifying nuclear material for storage and process areas. The description should include:
 - (a) physical and chemical form;
 - (b) enrichment range for feed, product and tails;
 - (c) content range or expected upper limits for each category of solid or liquid discard material.

Flow, location and handling of qualifying nuclear material

13. Description, by means of diagrams or otherwise, of storage and process areas. The description should include:
 - (a) sampling and measuring points;
 - (b) batch size and/or flow rate;
 - (c) method of storage or packing;
 - (d) storage capacities.
14. In addition to point 13 above, the description of the installation should include:
 - (a) separation capacity;
 - (b) enrichment techniques or methods;
 - (c) possible points for feed, product and tails;
 - (d) recycling facilities;
 - (e) type and size of UF₆ cylinders used, filling and emptying methods.
15. Power consumption should be given, where necessary.
16. Each diagram should indicate, under steady-state conditions:
 - (a) nominal throughput per year;
 - (b) physical inventory of in-process qualifying nuclear material;
 - (c) material loss rate owing to leakage, decomposition, deposition, etc.;
 - (d) arrangements for regular plant maintenance (periodic shutdown or continuous component replacement, etc.).
17. Description of special sampling and measurement points associated with decontamination of equipment that is off-process and is to be maintained or replaced.
18. Description of process waste disposal point, including disposal method, storage period, type of disposal, etc.

ACCOUNTANCY AND CONTROL FOR QUALIFYING NUCLEAR MATERIAL

Accountancy system

19. Description of the accountancy system used to record and report accountancy data and to establish material balances, supplying specimen blank forms used in all procedures. Period during which such records must be retained should be stated.

20. Indicate when and how often material balances are established, including any established during campaigns. Description of method and procedure for adjusting accounts after a physical inventory taking.
21. Description of procedure for handling shipper/receiver differences and method of adjusting accounts.
22. Description of procedure for correcting accounts owing to procedural or clerical errors and the effect on shipper/receiver differences, if applicable.

Physical inventory

23. Identification of items of equipment mentioned in the description referred to in points 13 and 18 that are to be regarded as containers for qualifying nuclear material under physical inventory conditions. State the timing of physical inventory taking.

Methods for measurement, sampling and analysis

24. Refer to the information given under points 13 and 17 for location of sampling and measurement points.
25. Description of method for establishing each measurement at the point indicated; equations or tables used and calculations made to determine actual quantities of weights or volumes should be identified. Indicate whether data are recorded automatically or manually. Method and practical procedures for sampling at each point indicated should be described. Indicate number of samples taken and rejection criteria.
26. Description of analytical methods used for accountancy purposes. Refer to a manual or report, if possible.

Control of measurement accuracy

27. Description of programmes for the continuous appraisal of weight, volume and sampling precision and biases, and for the calibration of associated equipment.
28. Descriptions of type and quality of standards used for analytical methods referred to in point 26, type of equipment which is used for analysis together with the method and frequency of calibration.

Statistical evaluation

29. Description of methods for statistical evaluation of data collected in measurement control programmes for evaluating the precision and the accuracy of measurements and for estimating measurement uncertainties (i.e. determination of the standard deviations of random and systematic error in the measurements). Also description of statistical procedures used to combine individual error estimates to obtain the standard deviations of overall error for shipper/receiver differences, the book inventory, the physical inventory and material unaccounted for.

OTHER INFORMATION RELEVANT TO APPLICATION OF SAFEGUARDS

Status: This is the original version (as it was originally made).

30. Organisational arrangements for accountancy and control for qualifying nuclear material.
31. Information on the health and safety rules which have to be observed at the qualifying nuclear facility, and with which the inspectors must comply.

I-F. QUALIFYING NUCLEAR FACILITY USING QUALIFYING NUCLEAR MATERIAL IN QUANTITIES EXCEEDING ONE EFFECTIVE KILOGRAM

Date:.....

NB This form/questionnaire must only be used for a qualifying nuclear facility using qualifying nuclear material in quantities exceeding one effective kilogram which are not reactors (I-A), critical or zero energy installations (I-B), qualifying nuclear facilities where conversion, fabrication or reprocessing are carried out (I-C), qualifying nuclear facilities used for storage (I-D), or qualifying nuclear facilities where isotopes are separated (I-E).

IDENTIFICATION OF THE QUALIFYING NUCLEAR FACILITY

1. Name.
2. Location, exact address with telephone number and fax numbers and e mail addresses.
3. Owner (legally responsible body or individual).
4. Operator (legally responsible body or individual).
5. Type of qualifying nuclear material.
6. Description of containers used for storage and handling (e.g. to determine whether sealing is possible).
7. Description of the use of qualifying nuclear material.
8. The current status (e.g. under construction, in operation or closed down).

ACCOUNTANCY AND CONTROL OF QUALIFYING NUCLEAR MATERIAL

9. Description of the accountancy and control system for qualifying nuclear material, including inventories for physical inventory taking.
10. Organisational arrangements for accountancy and control of qualifying nuclear material.

OTHER INFORMATION RELEVANT TO THE APPLICATION OF SAFEGUARDS

The information required under these headings is, where applicable, the same as that required for the types of qualifying nuclear facility coming under sections C, D and E of Part 1 of Schedule 1.

I-G. QUALIFYING NUCLEAR FACILITY FOR THE TREATMENT AND STORAGE OF WASTE

Date:

This form may only be used by a separate qualifying nuclear facility engaged solely in the handling, storing or processing of waste materials (not forming a part of enrichment, conversion, fabrication, chemical reprocessing and recovery facilities or of reactors).

IDENTIFICATION OF THE QUALIFYING NUCLEAR FACILITY

1. Name.
2. Location, exact address with telephone and fax numbers and e-mail addresses.
3. Owner (legally responsible body or individual).
4. Operator (legally responsible body or individual).
5. Present status (e.g. under construction, in operation or closed down).
6. Purpose and type.
7. Area layout (map showing the qualifying nuclear facility, boundaries, buildings, roads, rivers, railways, etc.).
8. Layout of qualifying nuclear facility:
 - (a) structural containment, fences and access routes;
 - (b) routes followed by qualifying nuclear material;
 - (c) nuclear waste disposal areas;
 - (d) each main processing area and process laboratory;
 - (e) test or experimental areas;
 - (f) analytical laboratory.

GENERAL ARRANGEMENTS AT THE QUALIFYING NUCLEAR FACILITY, INCLUDING THOSE RELATING TO MATERIAL USE AND ACCOUNTANCY, CONTAINMENT AND SURVEILLANCE

Locations and handling of qualifying nuclear material

9. Description of the use of qualifying nuclear material.
10. Description, by means of drawings or otherwise, of:
 - (a) storage areas (inventory locations) for qualifying nuclear material;
 - (b) the estimated range of inventories of qualifying nuclear material in these locations;
 - (c) storage and/or shipping containers for qualifying nuclear material;
 - (d) the routes and equipment used for movement of qualifying nuclear material, if applicable.

Status: This is the original version (as it was originally made).

ACCOUNTANCY AND CONTROL OF QUALIFYING NUCLEAR MATERIAL

Accountancy system

11. Description of the accountancy and control system for qualifying nuclear material, supplying specimen blank forms used in all accountancy and control procedures. Period during which such records must be retained should be stated.

Physical inventory

12. Description of procedures, scheduled frequency and methods for operator's physical inventory taking (both for item and/or mass accountancy including main assay methods) and expected accuracy.

OTHER INFORMATION RELEVANT TO APPLICATION OF SAFEGUARDS

13. Organisational arrangements for accountancy and control of qualifying nuclear material.
14. Information on the health and safety rules which have to be observed at the qualifying nuclear facility and with which the inspectors must comply.

I-H. OTHER QUALIFYING NUCLEAR FACILITY OR A QUALIFYING NUCLEAR FACILITY WITH LIMITED OPERATION

Date:

IDENTIFICATION OF THE QUALIFYING NUCLEAR FACILITY AND OF THE QUALIFYING NUCLEAR MATERIAL

1. Name
2. Location, exact address with telephone and fax numbers and e-mail addresses.
3. Owner (legally responsible body or individual).
4. Operator (legally responsible body or individual).
5. Type of qualifying nuclear material.
6. Description of containers used for storage and handling (e.g. to determine whether sealing is possible).
7. Description of the use of qualifying nuclear material.
8. In the case of ore producers, the potential annual production of the qualifying nuclear facility.
9. The current status (e.g. under construction, in operation or closed down).

ACCOUNTANCY AND CONTROL FOR QUALIFYING NUCLEAR MATERIAL

10. Description of the accountancy and control system for qualifying nuclear material, including procedures for physical inventory taking.
11. Organisational arrangements for accountancy and control of qualifying nuclear material.
The relevant questionnaire, duly completed and signed, must be sent to the ONR in accordance with regulation 35.

Regulation 14

PART 2

INVENTORY CHANGE REPORT

<i>Label/tag</i>	<i>Content</i>	<i>Comments</i>	<i>#</i>
MBA	Character (4)	MBA code of reporting MBA	1
Report type	Character (1)	I for Inventory Change Report	2
Report date	DDMMYYYY	Date on which the report was completed	3
Report number	Number (8)	Sequential number, no gaps	4
Line count	Number (8)	Total number of lines reported	5
Start report	DDMMYYYY	Date of first day in reporting period	6
End report	DDMMYYYY	Date of last day in reporting period	7
Reporting person	Character (30)	Name of person responsible for the report	8
Transaction ID	Number (8)	Sequential number	9
IC code	Character (2)	Type of inventory change	10
Batch	Character (20)	Unique identifier for a batch of qualifying nuclear material	11
KMP	Character (1)	Key measurement point	12
Measurement	Character (1)	Measurement code	13
Material form	Character (2)	Material form code	14
Material container	Character (1)	Material container code	15
Material state	Character (1)	Material state code	16
MBA from	Character (4)	MBA code of shipping MBA (for IC codes RD and RF only)	17
MBA to	Character (4)	MBA code of receiving MBA (for IC codes SD and SF only)	18
Previous batch	Character (20)	Name of previous batch (for IC code RB only)	19
Original date	DDMMYYYY	Accounting date of the line to be corrected (always of first line in correction chain)	20

Status: This is the original version (as it was originally made).

<i>Label/tag</i>	<i>Content</i>	<i>Comments</i>	<i>#</i>
PIT date	DDMMYYYY	Date of physical inventory taking (PIT) to which MF adjustment refers (use with IC code MF only)	21
Line number	Number (8)	Sequential number, no gaps	22
Accounting date	DDMMYYYY	Date on which the inventory change occurred or became known	23
Items	Number (6)	Number of items	24
Element category	Character (1)	Category of qualifying nuclear material	25
Element weight	Number (24.3)	Element weight	26
Isotope	Character (1)	G for U-235, K for U-233, J for a mixture of U-235 and U-233	27
Fissile weight	Number (24.3)	Weight of fissile isotope	28
Isotopic composition	Character (130)	U, Pu isotopic weight (only if agreed in particular safeguard provisions)	29
Obligation	Character (2)	Safeguards obligation	30
Previous category	Character (1)	Previous category of qualifying nuclear material (use for IC codes CB, CC and CE only)	31
Previous obligation	Character (2)	Previous obligation (use for IC codes BR, CR, PR and SR only)	32
Document	Character (70)	Operator-defined reference to supporting documents	33
Container ID	Character (20)	Operator-defined identifier for the container	34
Correction	Character (1)	D for deletions, A for additions forming part of a deletion/addition pair, L for late lines (stand-alone additions)	35
Previous report	Number (8)	Report number of line to be corrected	36
Previous line	Number (8)	Line number of line to be corrected	37
Comment	Character (256)	Operator comment	38
Burn-up	Number (6)	Burn-up in MW days/tonne (use for IC codes NL and NP in nuclear reactors only)	39
CRC	Number (20)	Hash code of line for quality control purposes	40
Previous CRC	Number (20)	Hash code of line to be corrected	41
Advance notification	Character (8)	Reference to advance notification sent to the ONR (use for IC codes RD, RF, SD, SN and SF only)	42
Campaign	Character (12)	Campaign identifier for qualifying nuclear facilities which carry out reprocessing	43
Reactor	Character (12)	Reactor code for reprocessing campaigns	44
Error path	Character (8)	Special code for evaluation purposes	45

Explanatory notes

1. **MBA:**
Code of the reporting material balance area. This code is notified to the qualifying nuclear facility concerned by the ONR.
 2. **REPORT TYPE:**
I for inventory change reports.
 3. **REPORT DATE:**
Date on which the report was completed.
 4. **REPORT NUMBER:**
Sequential number, no gaps.
 5. **LINE COUNT:**
Total number of lines reported.
 6. **START REPORT:**
Date of first day of reporting period.
 7. **END REPORT:**
Date of last day of reporting period.
 8. **REPORTING PERSON:**
Name of person responsible for the report.
 9. **TRANSACTION ID:**
Sequential number. This is used to identify all inventory change lines relating to the same physical transaction.
 10. **IC CODE:**
One of the following codes must be used:
-

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<i>Keyword</i>	<i>Code</i>	<i>Explanation</i>
Receipt	RD	Receipt of qualifying nuclear material from material balance area within the United Kingdom.
Import	RF	Import of qualifying nuclear material.
Receipt from non-safeguarded activity	RN	Receipt of qualifying nuclear material from a non-safeguarded activity.
Shipment	SD	Transfer of qualifying nuclear material to a material balance area within the United Kingdom.
Export	SF	Export of qualifying nuclear material.
Shipment to non-safeguarded activity	SN	Transfer of qualifying nuclear material to a non-safeguarded activity.
Transfer to conditioned waste	TC	Qualifying nuclear material contained in waste that is measured or estimated on the basis of measurements, and which has been conditioned in such a way (e.g. in glass, cement, concrete or bitumen) that it is not suitable for further nuclear use. The quantity of qualifying nuclear material involved is to be subtracted from the inventory of the material balance area. Separate records must be kept for this type of material.
Discards to the environment	TE	Qualifying nuclear material contained in waste that is measured or estimated on the basis of measurements, and which has been irrevocably discarded to the environment as the result of a planned discharge. The quantity of qualifying nuclear material involved is to be subtracted from the inventory of the material balance area.
Transfer to retained waste	TW	Qualifying nuclear material generated from processing or from an operational accident contained in waste that is measured or estimated on the basis of measurements, and which has been transferred to a specific location within the material balance area from which it could be retrieved. The quantity of qualifying nuclear material involved is to be subtracted from the inventory of the material balance area. Separate records must be kept for this type of material.
Re-transfer from conditioned waste	FC	Re-transfer of conditioned waste to the inventory of the material balance area. This applies whenever conditioned waste undergoes processing.
Re-transfer from retained waste	FW	Re-transfer of retained waste to the inventory of the material balance area. This applies whenever retained waste is retrieved from the specific location within the material balance area, either for any processing involving the separation of elements in the material balance area or for any shipment from the material balance area.
Accidental loss	LA	Irrecoverable and inadvertent loss of a quantity of qualifying nuclear material as the result of an operational accident. Use of this code requires a special report to be sent to the ONR.
Accidental gain	GA	Qualifying nuclear material unexpectedly found, except when detected in the course of a physical inventory taking. Use of this code requires a special report to be sent to the ONR.

<i>Keyword</i>	<i>Code</i>	<i>Explanation</i>
Category change	CE	Accountancy transfer of a quantity of qualifying nuclear material from one category to another as a result of an enrichment process (only one line to be reported per category change).
Category change	CB	Accountancy transfer of a quantity of qualifying nuclear material from one category to another as a result of a blending operation (only one line to be reported per category change).
Category change	CC	Accountancy transfer of a quantity of qualifying nuclear material from one category to another for all types of category change not covered by codes CE and CB (only one line to be reported per category change).
Rebatching	RB	Accountancy transfer of a quantity of qualifying nuclear material from one batch to another (only one line to be reported per rebatching).
Change particular obligation	in BR	Accountancy transfer of a quantity of qualifying nuclear material from one particular safeguards obligation to another, to balance the total uranium stock following a blending operation (only one line to be reported per change of obligation).
Change particular obligation	in PR	Accountancy transfer of a quantity of qualifying nuclear material from one particular safeguards obligation to another, used when qualifying nuclear material enters or leaves an accountancy pool (only one line to be reported per change of obligation).
Change particular obligation	in SR	Accountancy transfer of a quantity of qualifying nuclear material from one particular safeguards obligation to another, following an obligation exchange or a substitution (only one line to be reported per change of obligation).
Change particular obligation	in CR	Accountancy transfer of a quantity of qualifying nuclear material from one particular safeguards obligation to another, for all cases not covered by codes BR, PR or SR (only one line to be reported per change of obligation).
Nuclear production	NP	Increase in the quantity of qualifying nuclear material due to nuclear transformation.
Nuclear loss	NL	Decrease in the quantity of qualifying nuclear material due to nuclear transformation.
Shipper/receiver difference	DI	Shipper/receiver difference.
New measurement	NM	Quantity of qualifying nuclear material, in one particular batch, accounted for in the nuclear material balance area, being the difference between a newly measured quantity and the quantity formerly accounted for, and which is neither a shipper/receiver difference nor a correction.
Balance adjustment	BJ	Quantity of qualifying nuclear material accounted for in the material balance area, being the difference between the result of a physical inventory taken by the plant operator for his own purposes (without reporting a physical inventory listing to the ONR) and the book inventory established on the same date.

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<i>Keyword</i>	<i>Code</i>	<i>Explanation</i>
Material unaccounted for	MF	Book adjustment for material unaccounted for. Must be equal to the difference between the ending physical inventory (PE) and the ending book inventory (BA) reported in the material balance report (Part 4). The original date must be that of the physical inventory taking, while the accounting date must be after the date of the physical inventory taking.
Roundings	RA	Rounding adjustment to make the sum of the quantities reported in a given period coincide with the ending book inventory of the material balance area.
Isotope adjustment	R5	Adjustment to make the sum of the isotope quantities reported coincide with the ending book inventory for U-235 of the material balance area.
Material production	MP	Quantity of qualifying nuclear material, obtained from substances originally not subject to safeguards, which has become subject to safeguards because its concentration now exceeds the minimum levels.
Termination of use	TU	Quantity of qualifying nuclear material considered as irrecoverable for practical or economic reasons which is: (i) incorporated in end products used for non-nuclear purposes; or (ii) contained in waste in very low concentrations measured or estimated on the basis of measurements, even if these materials are not discarded to the environment. The quantity of qualifying nuclear material involved is to be subtracted from the inventory of the material balance area.
Ending book inventory	BA	Book inventory at the end of a reporting period and at the PIT date, separate for each category of qualifying nuclear material and for each particular safeguard obligation.

11. BATCH:

The batch designation may be chosen by the operator, but:

- (a) in the case of the inventory change 'Receipt (RD)', the batch designation used by the shipper must be reported;
- (b) a batch designation must not be used again for another batch in the same material balance area.

12. KMP:

Key measurement point. The codes are notified to the qualifying nuclear facility concerned in the particular safeguard provisions or otherwise in writing. If no codes have been specified, '&' should be used.

13. MEASUREMENT:

The basis on which the quantity of qualifying nuclear material reported was established has to be indicated. One of the following codes must be used:

<i>Measured</i>	<i>Estimated</i>	<i>Explanation</i>
M	E	In the reporting material balance area.
N	F	In another material balance area.
T	G	In the reporting material balance area when the weights have already been given in a previous inventory change report or physical inventory listing.
L	H	In another material balance area when the weights have already been given in a previous inventory change report or physical inventory listing for the present material balance area.

14. MATERIAL FORM:

The following codes must be used:

<i>Main type of material form</i>	<i>Subtype</i>	<i>Code</i>
Ores		OR
Concentrates		YC
Uranium hexafluoride (UF ₆)		U6
Uranium tetrafluoride (UF ₄)		U4
Uranium dioxide (UO ₂)		U2
Uranium trioxide (UO ₃)		U3
Uranium oxide (U ₃ O ₈)		U8
Thorium oxide (ThO ₂)		T2
Solutions	Nitrate	LN
	Fluoride	LF
	Other	LO
Powder	Homogeneous	PH
	Heterogeneous	PN
Ceramics	Pellets	CP
	Spheres	CS
	Other	CO
Metal	Pure	MP
	Alloys	MA
Fuel	Rods, pins	ER

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<i>Main type of material form</i>	<i>Subtype</i>	<i>Code</i>
	Plates	EP
	Bundles	EB
	Assemblies	EA
	Other	EO

<i>Main type of material form</i>	<i>Subtype</i>	<i>Code</i>
Sealed sources		QS
Small quantities/samples		SS
Scrap	Homogeneous	SH
	Heterogeneous (clean-outs, clinkers, sludges, fines, other)	SN
Solid waste	Hulls	AH
	Mixed (plastics, gloves, papers, etc.)	AM
	Contaminated equipment	AC
	Other	AO
Liquid waste	Low active	WL
	Medium active	WM
	High active	WH
Conditioned waste	Glass	NG
	Bitumen	NB
	Concrete	NC
	Other	NO

15. MATERIAL CONTAINER:

<i>The following codes must be used:</i>	
<i>Type of container</i>	<i>Code</i>
Cylinder	C
Pack	P
Drum	D
Discrete fuel unit	S
Bird cage	B
Bottle	F

<i>The following codes must be used:</i>	
Tank or other container	T
Other	O

16. MATERIAL STATE

The following codes must be used:

<i>State</i>	<i>Code</i>
Fresh qualifying nuclear material	F
Irradiated qualifying nuclear material	I
Waste	W
Irrecoverable qualifying nuclear material	N

17. MBA FROM:

Use only for inventory change codes RD and RF. For inventory change code RD, the code of the shipping material balance area is reported. If this code is unknown, the code 'Q' is reported and the shipper's full name and address must be entered in the comment field (40). For inventory change code RF, the country code of the exporting state, or the MBA code of the exporting installation if known, is reported, and the shipper's full name and address must be entered in the comment field (40).

18. MBA TO:

Use only for inventory change codes SD and SF. For inventory change code SD, the code of the receiving material balance area is reported. If this code is unknown, the code 'Q' is reported and the receiver's full name and address must be entered in the comment field (40). For inventory change code SF, the country code of the importing state or the MBA code of the importing installation if known, is reported, and the receiver's full name and address must be entered in the comment field (40).

19. PREVIOUS BATCH:

Batch designation before rebatching. The batch designation after the rebatching must be reported in field 11.

20. ORIGINAL DATE:

In the case of a correction, the day, month and year when the line to be corrected was originally entered must be reported. For correction chains, the original date is always the

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accounting date of the first line in the chain. For late lines (stand-alone additions), the original date is the date on which the inventory change occurred.

21. PIT DATE

Date of the physical inventory taking as reported in the material balance report on which the book adjustment for MUF (material unaccounted for) is based. Use only with inventory change code MF.

22. LINE NUMBER:

Sequential number starting with 1 in each report, no gaps.

23. ACCOUNTING DATE:

Day, month and year when the inventory change occurred or became known.

24. ITEMS:

The number of items making up the batch must be reported. If an inventory change consists of several lines, the sum of the number of items reported must equal the total number of items belonging to the same transaction ID. If the transaction involves more than one element the number of items should be declared in the line(s) for the element category of highest strategic value only (in descending order: P, H, L, N, D, T).

25. ELEMENT CATEGORY:

The following codes must be used:

<i>Category of qualifying nuclear material</i>	<i>Code</i>
Plutonium	P
High enriched uranium (20% enrichment and above)	H
Low enriched uranium (higher than natural but less than 20% enrichment)	L
Natural uranium	N
Depleted uranium	D
Thorium	T

26. ELEMENT WEIGHT:

The weight of the element category referred to in field 25 must be reported. All weights must be reported in grams. The decimal digits appearing in the accounting lines can be reported up to a maximum of three decimal places.

27. ISOTOPE:

This code indicates the fissile isotopes involved and should be used when the weight of fissile isotopes is reported (28). Use the code G for U-235, K for U-233, and J for a mixture of U-235 and U-233.

28. FISSILE WEIGHT:

Unless otherwise stated in the particular safeguard provisions, the weight of fissile isotopes must only be reported for enriched uranium and category changes involving enriched uranium. All weights must be reported in grams. The decimal digits appearing in the accounting lines can be reported up to a maximum of three decimal places.

29. ISOTOPIC COMPOSITION:

If agreed in the particular safeguard provisions the isotopic composition of U and/or Pu must be reported in the format as a list of weights separated by semi-colons to denote the weight of U-233, U-234, U-235, U-236, U-238 or Pu-238, Pu-239, Pu-240, Pu-241, Pu-242. The decimal digits appearing in the accounting lines can be reported up to a maximum of three decimal places.

30. OBLIGATION:

Indication of any additional obligation assumed by the United Kingdom under a relevant international agreement, to which the qualifying nuclear material is subject (regulation 19). The ONR may communicate the appropriate codes to the qualifying nuclear facility.

31. PREVIOUS CATEGORY:

Code of the category of qualifying nuclear material before the category change. The corresponding code after the change must be reported in field 25. Use only with the inventory change codes CE, CB and CC.

32. PREVIOUS OBLIGATION:

Code of the particular safeguard obligation to which the qualifying nuclear material was subject before the change. The corresponding obligation code after the change must be reported in field 30. Use only with the inventory change codes BR, CR, PR and SR.

33. DOCUMENT:

Operator-defined reference to supporting document(s).

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34. CONTAINER ID:

Operator-defined container number. Optional data element which can be used in those cases where the container number does not appear in the batch designation.

35. CORRECTION:

Corrections have to be made by deleting the wrong line(s) and adding the correct one(s), where appropriate. The following codes must be used:

<i>Code</i>	<i>Explanation</i>
D	Deletion. The line to be deleted must be identified by indicating in field 38 the report number (4), in field 39 the line number (22) and in field 43 the CRC (42) which were declared for the original line. Other fields need not be reported.
A	Addition (forming part of a deletion/addition pair). The correct line must be reported with all data fields, including the 'previous report' field (38) and the 'previous line' field (39). The 'previous line' field (39) must repeat the line number (22) of the line being replaced by the deletion/addition pair.
L	Late line (stand-alone addition). The late line to be added must be reported with all data fields, including the 'previous report' field (38). The 'previous report' field (38) must contain the report number (4) of the report in which the late line should have been included.

36. PREVIOUS REPORT:

Indicate the report number (4) of the line to be corrected.

37. PREVIOUS LINE:

For deletions, or additions forming part of a deletion/addition pair, indicate the line number (22) of the line to be corrected.

38. COMMENT:

Free-text comment field for short comments by operator.

39. BURN-UP:

For inventory changes of type NP or NL in nuclear reactors, burn-up in MW days/tonne.

40. CRC:

Hash code of line for quality control purposes. The ONR must inform the operator of the algorithm to be used.

41. PREVIOUS CRC:

Hash code of the line to be corrected.

42. ADVANCE NOTIFICATION:

Reference code for the advance notification (regulations 21 and 22). Use with inventory changes SF and RF.

43. CAMPAIGN:

Unique identifier for the reprocessing campaign. Use only for inventory changes in the process material balance area(s) of those qualifying nuclear facilities where spent fuel is reprocessed.

44. REACTOR:

Unique identifier for the reactor from which irradiated fuel is being stored or reprocessed. Use only for inventory changes in those qualifying nuclear facilities where spent fuel is stored or reprocessed.

45. ERROR PATH:

Special code describing measurement errors and their propagation, for material balance evaluation purposes. The codes are agreed between the qualifying nuclear facility and the ONR.

GENERAL REMARKS CONCERNING THE COMPLETION OF THE REPORTS

1. In the case of transfer of qualifying nuclear material, the shipper must provide the receiver with all the necessary information for the inventory change report.
2. If numerical data contain fractions of units, a point should precede the decimal digits.
3. The following 55 characters may be used: the 26 capital letters A to Z, figures 0 to 9 and the characters 'plus', 'minus', 'slash', 'asterisk', 'space', 'equal', 'greater than', 'less than', 'point', 'comma', 'open bracket', 'close bracket', 'colon', 'dollar', 'percent', 'quotation mark', 'semi-colon', 'question mark' and 'ampersand'.

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5. Reports must be prepared according to a world-wide accepted labelled reporting format, agreed between the ONR and operators.
6. The reports, duly completed and digitally signed, should be forwarded to the ONR in accordance with regulation 35.

Regulation 15

PART 3 MATERIAL BALANCE REPORT (MBR)

<i>Label/tag</i>	<i>Content</i>	<i>Comments</i>	<i>#</i>
MBA	Character (4)	MBA code of reporting MBA	1
Report type	Character (1)	M for Material Balance Report	2
Report date	DDMMYYYY	Date on which the report was completed	3
Start report	DDMMYYYY	Starting date of MBR (date of last PIT +1 day)	4
End report	DDMMYYYY	End date of MBR (date of current PIT)	5
Report number	Number (8)	Sequential number, no gaps	6
Element category	Character (1)	Category of qualifying nuclear material	7
Line count	Number (8)	Total number of lines reported	8
Reporting person	Character (30)	Name of person responsible for report	9
IC code	Character (2)	Type of inventory change	10
Line number	Number (8)	Sequential number, no gaps	11
Element weight	Number (24.3)	Element weight	12
Isotope	Character (1)	G for U-235, K for U-233, J for a mixture of U-235 and U-233	13
Fissile weight	Number (24.3)	Weight of fissile isotope	14
Obligation	Character (2)	Safeguards obligation	15
Correction	Character (1)	D for deletions, A for additions forming part of a deletion/addition pair, L for late lines (stand-alone additions)	16
Previous report	Number (8)	Report number of line to be corrected	17
Previous line	Number (8)	Line number of line to be corrected	18

<i>Label/tag</i>	<i>Content</i>	<i>Comments</i>	<i>#</i>
Comment	Character (256)	Operator comment	19
CRC	Number (20)	Hash code of line for quality control purposes	20
Previous CRC	Number (20)	Hash code of line to be corrected	21

Explanatory notes

1. MBA:

Code of the reporting material balance area. This code is notified to the qualifying nuclear facility concerned by the ONR.

2. REPORT TYPE:

M for material balance reports.

3. REPORT DATE:

Date on which the report was completed.

4. START REPORT:

Start date of MBR, date of the day immediately following the day of the previous physical inventory taking.

5. END REPORT:

End date of MBR, date of current physical inventory taking.

6. REPORT NUMBER:

Sequential number, no gaps.

7. ELEMENT CATEGORY:

The following code for categories of qualifying nuclear material must be used:

<i>Category of qualifying nuclear material</i>	<i>Code</i>
Plutonium	P
High enriched uranium	H

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<i>Category of qualifying nuclear material</i> (20% enrichment and above)	<i>Code</i>
Low enriched uranium (higher than natural but less than 20% enrichment)	L
Natural uranium	N
Depleted uranium	D
Thorium	T

8. LINE COUNT:

Total number of lines reported.

9. REPORTING PERSON:

Name of person responsible for report.

10. IC CODE:

The different types of inventory information and of inventory change should be entered in the sequence indicated below. The following codes must be used:

<i>Keyword</i>	<i>Code</i>	<i>Examination</i>
Beginning physical inventory	PB	Physical inventory at the beginning of the reporting period (must be equal to the physical inventory at the end of the previous reporting period).
Inventory changes (only codes in the list below)		For each type of inventory change, one consolidated line has to be entered for the entire reporting period (first increases, then decreases).
Ending book inventory	BA	Book inventory at the end of the reporting period. It must be equal to the arithmetic sum of the MBR entries above.
Ending physical inventory	PE	Physical inventory at the end of the reporting period.
Material unaccounted for	MF	Material unaccounted for. Must be calculated as 'ending physical inventory (PE)' minus 'ending book inventory (BA)'

<i>Keyword</i>	<i>Code</i>	<i>Examination</i>
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For inventory changes, one of the following codes must be used:

<i>Keyword</i>	<i>Code</i>	<i>Explanation</i>
Receipt	RD	Receipt of nuclear material from a material balance area within the United Kingdom.
Import	RF	Import of qualifying nuclear material.
Receipt from non-safeguarded activity	RN	Receipt of qualifying nuclear material from a non-safeguarded activity.
Shipment	SD	Transfer of nuclear material to a material balance area within the United Kingdom.
Export	SF	Export of qualifying nuclear material.
Shipment to non-safeguarded activity	SN	Transfer of qualifying nuclear material to a non-safeguarded activity.
Transfer to conditioned waste	TC	Qualifying nuclear material contained in waste that is measured or estimated on the basis of measurements, and which has been conditioned in such a way (e.g. in glass, cement, concrete or bitumen) that it is not suitable for further nuclear use. The quantity of qualifying nuclear material involved is to be subtracted from the inventory of the material balance area. Separate records must be kept for this type of material.
Discards to the environment	TE	Qualifying nuclear material contained in waste that is measured or estimated on the basis of measurements, and which has been irrevocably discarded to the environment as the result of a planned discharge. The quantity of qualifying nuclear material involved is to be subtracted from the inventory of the material balance area.
Transfer to retained waste	TW	Qualifying nuclear material generated from processing or from an operational accident contained in waste that is measured or estimated on the basis of measurements and which has been transferred to a specific location within the material balance area from which it could be retrieved. The quantity of qualifying nuclear material involved is to be subtracted from the inventory of the material balance area. Separate records must be kept for this type of material.
Retransfer from conditioned waste	FC	Retransfer of conditioned waste to the inventory of the material balance area. This applies whenever conditioned waste undergoes processing.
Retransfer from retained waste	FW	Retransfer of retained waste to the inventory of the material balance area. This applies whenever retained waste is retrieved from the specific location within the material balance area, either for any processing involving the separation of elements in the

Status: This is the original version (as it was originally made).

<i>Keyword</i>	<i>Code</i>	<i>Examination</i>
		material balance area or for any shipment from the material balance area.
Accidental loss	LA	Irrecoverable and inadvertent loss of a quantity of qualifying nuclear material as the result of an operational accident. Use of this code in the MBR is only allowed if a special report was sent to the ONR when the inventory change occurred or became known.
Accidental gain	GA	Qualifying nuclear material unexpectedly found, except when detected in the course of a physical inventory taking. Use of this code in the MBR is only allowed if a special report was sent to the ONR when the inventory change occurred or became known.
Category change	CE	Accountancy transfer of a quantity of qualifying nuclear material from one category to another as a result of an enrichment process.
Category change	CB	Accountancy transfer of a quantity of qualifying nuclear material from one category to another as a result of a blending operation.
Category change	CC	Accountancy transfer of a quantity of qualifying nuclear material from one category to another for all types of category change not covered by codes CE and CB.
Change particular obligation	in BR	Accountancy transfer of a quantity of qualifying nuclear material from one particular safeguard obligation to another, to balance the total uranium stock following a blending operation.
Change particular obligation	in PR	Accountancy transfer of a quantity of qualifying nuclear material from one particular safeguard obligation to another, used when qualifying nuclear material enters or leaves an accountancy pool.
Change particular obligation	in SR	Accountancy transfer of a quantity of qualifying nuclear material from one particular safeguard obligation to another, following an obligation exchange or a substitution.
Change particular obligation	in CR	Accountancy transfer of a quantity of qualifying nuclear material from one particular safeguard obligation to another, for all cases not covered by codes BR, PR or SR.
Nuclear production	NP	Increase in the quantity of qualifying nuclear material due to nuclear transformation.
Nuclear loss	NL	Decrease in the quantity of qualifying nuclear material due to nuclear transformation.
Shipper/receiver difference	DI	Shipper/receiver difference.
New measurement	NM	Quantity of qualifying nuclear material, in one particular batch, accounted for in the qualifying nuclear material balance area, being the difference between a newly measured quantity and the quantity formerly accounted for, and which is neither a shipper/receiver difference nor a correction.
Balance adjustment	BJ	Quantity of qualifying nuclear material accounted for in the material balance area, being the difference between the result

<i>Keyword</i>	<i>Code</i>	<i>Examination</i>
		of a physical inventory taken by the plant operator for his own purposes (without reporting a physical inventory listing to the ONR) and the book inventory established on the same date.
Roundings	RA	Rounding adjustment to make the sum of the quantities reported in a given period coincide with the ending book inventory of the material balance area.
Isotope adjustment	R5	Adjustment to make the sum of the isotope quantities reported coincide with the ending book inventory for U-235 of the material balance area.
Material production	MP	Quantity of qualifying nuclear material, obtained from substances originally not subject to safeguards, which has become subject to safeguards because its concentration now exceeds the minimum levels.
Termination of use	TU	Quantity of qualifying nuclear material considered as irrecoverable for practical or economic reasons which is: <ul style="list-style-type: none"> (i) incorporated in end products used for non-nuclear purposes; or (ii) contained in waste in very low concentrations measured or estimated on the basis of measurements, even if these materials are not discarded to the environment. The quantity of qualifying nuclear material involved is to be subtracted from the inventory of the material balance area.

11. LINE NUMBER:

Sequential number starting with 1, no gaps.

12. ELEMENT WEIGHT:

The weight of the element category referred to in field 7 must be reported. All weights must be reported in grams. The decimal digits appearing in the accounting lines can be reported up to a maximum of three decimal places.

13. ISOTOPE:

This code indicates the kind of fissile isotopes involved and should be used when the weight of fissile isotopes is reported. Use the code G for U-235, K for U-233, and J for a mixture of U-235 and U-233.

14. FISSILE WEIGHT:

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Unless otherwise stated in the particular safeguard provisions, the weight of fissile isotopes must only be reported for enriched uranium and category changes involving enriched uranium. All weights must be reported in grams. The decimal digits appearing in the accounting lines can be reported up to a maximum of three decimal places.

15. OBLIGATION:

Indication of any additional obligation assumed by the United Kingdom under a relevant international agreement, to which the qualifying nuclear material is subject (regulation 19). The ONR may communicate the appropriate codes to the qualifying nuclear facility.

16. CORRECTION:

Corrections have to be made by deleting the wrong line(s) and adding the correct one(s), where appropriate. The following codes must be used:

<i>Code</i>	<i>Explanation</i>
D	Deletion. The line to be deleted must be identified by indicating in field 17 the report number (6), in field 18 the line number (11) and in field 21 the CRC (20) which were declared for the original line. Other fields need not be reported.
A	Addition (forming part of a deletion/addition pair). The correct line must be reported with all data fields, including the 'previous report' field (17) and the 'previous line' field (18). The 'previous line' field (18) must repeat the line number (11) of the line being replaced by the deletion/addition pair.
L	Late line (stand-alone addition). The late line to be added must be reported with all data fields, including the 'previous report' field (17). The 'previous report' field (17) must contain the report number (6) of the report in which the late line should have been included.

17. PREVIOUS REPORT:

Indicate the report number (6) of the line to be corrected.

18. PREVIOUS LINE:

For deletions, or additions forming part of a deletion/addition pair, indicate the line number (11) of the line to be corrected.

19. COMMENT:

Free-text comment field for short comments by operator.

20. CRC:

Hash code of line for quality control purposes. The ONR must inform the operator of the algorithm to be used.

21. PREVIOUS CRC:

Hash code of the line to be corrected.

GENERAL REMARKS CONCERNING THE COMPLETION OF THE REPORTS

General remarks 2, 3, 4, 5 and 6 at the end of Part 2 apply to this Part as appropriate.

This form, duly completed and signed, must be sent to the ONR in accordance with regulation 35.

Regulations 13 and 15

PART 4
PHYSICAL INVENTORY LISTING (PIL)

<i>Label/Tag</i>	<i>Content</i>	<i>Comments</i>	<i>#</i>
MBA	Character (4)	MBA code of reporting MBA	1
Report type	Character (1)	P for physical inventory listings	2
Report date	DDMMYYYY	Date on which the report was completed	3
Report number	Number (8)	Sequential number, no gaps	4
PIT date	DDMMYYYY	Date on which the physical inventory was taken	5
Line count	Number (8)	Total number of lines reported	6
Reporting person	Character (30)	Name of person responsible for report	7
PIL_ITEM_ID	Number (8)	Sequential number	8
Batch	Character (20)	Unique identifier for a batch of qualifying nuclear material	9
KMP	Character (1)	Key measurement point	10
Measurement	Character (1)	Measurement code	11
Element category	Character (1)	Category of qualifying nuclear material	12
Material form	Character (2)	Material form code	13
Material container	Character (1)	Material container code	14
Material state	Character (1)	Material state code	15
Line number	Number (8)	Sequential number, no gaps	16
Items	Number (6)	Number of items	17

Status: This is the original version (as it was originally made).

<i>Label/Tag</i>	<i>Content</i>	<i>Comments</i>	<i>#</i>
Element weight	Number (24.3)	Element weight	18
Isotope	Character (1)	G for U-235, K for U-233, J for a mixture of U-235 and U-233	19
Fissile weight	Number (24.3)	Weight of fissile isotope	20
Obligation	Character (2)	Safeguards obligation	21
Document	Character (70)	Operator-defined reference to supporting documents	22
Container ID	Character (20)	Operator-defined identifier for the container	23
Correction	Character (1)	D for deletions, A for additions forming part of a deletion/addition pair, L for late lines (stand-alone additions)	24
Previous report	Number (8)	Report number of line to be corrected	25
Previous line	Number (8)	Line number of line to be corrected	26
Comment	Character (256)	Operator comment	27
CRC	Number (20)	Hash code of line for quality control purposes	28
Previous CRC	Number (20)	Hash code of line to be corrected	29

Explanatory notes

1. **MBA:**

Code of the reporting material balance area. This code is notified to the qualifying nuclear facility concerned by the ONR.

2. **REPORT TYPE:**

P for physical inventory listings.

3. **REPORT DATE:**

Date on which the report was completed.

4. **REPORT NUMBER:**

Sequential number, no gaps.

5. **PIT DATE:**

Day, month and year when the physical inventory was taken, reflecting the situation at 24.00.

6. LINE COUNT:

Total number of lines reported.

7. REPORTING PERSON:

Name of person responsible for report.

8. PIL_ITEM_ID:

Sequential number, common to all PIL lines related to the same physical object.

9. BATCH:

If batch follow-up is required in the particular safeguard provisions, the batch designation previously used for the batch in an inventory change report or in a previous physical inventory listing must be used.

10. KMP:

Key measurement point. The codes are notified to the qualifying nuclear facility concerned in the particular safeguard provisions or otherwise in writing. If no code has been specified, '&' should be used.

11. MEASUREMENT:

The basis on which the quantity of qualifying nuclear material reported was established has to be indicated. One of the following codes must be used:

<i>Measured</i>	<i>Estimated</i>	<i>Explanation</i>
M	E	In the reporting material balance area.
N	F	In another material balance area.
T	G	In the reporting material balance area when the weights have already been given in a previous inventory change report or physical inventory listing.
L	H	In another material balance area when the weights have already been given in a previous inventory change report or physical inventory listing for the present material balance area.

12. ELEMENT CATEGORY:

The following codes must be used:

Status: This is the original version (as it was originally made).

<i>Category of qualifying nuclear material</i>	<i>Code</i>
Plutonium	P
High enriched uranium (20% enrichment and above)	H
Low enriched uranium (higher than natural and less than 20% enrichment)	L
Natural uranium	N
Depleted uranium	D
Thorium	T

13. MATERIAL FORM:

The following codes must be used:

<i>Main type of material form</i>	<i>Subtype</i>	<i>Code</i>
Ores		OR
Concentrates		YC
Uranium hexafluoride (UF ₆)		U6
Uranium tetrafluoride (UF ₄)		U4
Uranium dioxide (UO ₂)		U2
Uranium trioxide (UO ₃)		U3
Uranium oxide (U ₃ O ₈)		U8
Thorium oxide (ThO ₂)		T2
Solutions	Nitrate	LN
	Fluoride	LF
	Other	LO
Powder	Homogeneous	PH
	Heterogeneous	PN
Ceramics	Pellets	CP
	Spheres	CS
	Other	CO
Metal	Pure	MP
	Alloys	MA
Fuel	Rods, pins	ER

<i>Main type of material form</i>	<i>Subtype</i>	<i>Code</i>
	Plates	EP
	Bundles	EB
	Assemblies	EA
	Other	EO
Sealed sources		QS
Small quantities/samples		SS
Scrap	Homogeneous	SH
	Heterogeneous (clean-outs, clinkers, sludges, fines, other)	SN
Solid waste	Hulls	AH
	Mixed (plastics, gloves, papers, etc.)	AM
	Contaminated equipment	AC
	Other	AO
Liquid waste	Low active	WL
	Medium active	WM
	High active	WH
Conditioned waste	Glass	NG
	Bitumen	NB
	Concrete	NC
	Other	NO

14. MATERIAL CONTAINER:

The following codes must be used:

<i>Type of container</i>	<i>Code</i>
Cylinder	C
Pack	P
Drum	D
Discrete fuel unit	S
Bird cage	B
Bottle	F
Tank or other container	T
Other	O

Status: This is the original version (as it was originally made).

<i>Type of container</i>	<i>Code</i>
--------------------------	-------------

15. MATERIAL STATE:

The following codes must be used:

State	Code
Fresh qualifying nuclear material	F
Irradiated qualifying nuclear material	I
Waste	W
Irrecoverable qualifying nuclear material	N

16. LINE NUMBER:

Sequential number starting with 1 in each report, no gaps.

17. ITEMS:

Each physical inventory line must indicate the number of items involved. If a group of items belonging to the same batch are reported as several lines, the sum of the number of items reported must equal the total number of items in the group. If the lines involve more than one element category, the number of items should be declared in the line(s) for the element category of highest strategic value only (in descending order: P, H, L, N, D, T).

18. ELEMENT WEIGHT:

The weight of the element category referred to in field 12 must be reported. All weights must be reported in grams. The decimal digits appearing in the accounting lines can be reported up to a maximum of three decimal places.

19. ISOTOPE:

This code indicates the fissile isotopes involved and should be used when the weight of fissile isotopes is reported. Use the code G for U-235, K for U-233, and J for a mixture of U-235 and U-233.

20. FISSILE WEIGHT:

Unless otherwise stated in the particular safeguard provisions, the weight of fissile isotopes must only be reported for enriched uranium and category changes involving enriched uranium. All weights must be reported in grams. The decimal digits appearing in the accounting lines can be reported up to a maximum of three decimal places.

21. OBLIGATION:

Indication of any additional obligation assumed by the United Kingdom under a relevant international agreement, to which the qualifying nuclear material is subject (regulation 19). Regulation 19(4) governs the making available of appropriate codes by the ONR.

22. DOCUMENT:

Operator-defined reference to supporting document(s).

23. CONTAINER ID:

Operator-defined container number. Optional data element which can be used in those cases where the container number does not appear in the batch designation.

24. CORRECTION:

Corrections have to be made by deleting the wrong line(s) and adding the correct one(s), where appropriate. The following codes must be used:

<i>Code</i>	<i>Explanation</i>
D	Deletion. The line to be deleted must be identified by indicating in field 25 the report number (4), in field 26 the line number (16) and in field 29 the CRC (28) which were declared for the original line. Other fields need not be reported.
A	Addition (forming part of a deletion/addition pair). The correct line must be reported with all data fields including the 'previous report' field (25) and the 'previous line' field (26). The 'previous line' field (26) must contain the line number (16) of the line being replaced by the deletion/addition pair.
L	Late line (stand-alone addition). The late line to be added must be reported with all data fields, including the 'previous report' field (25). The 'previous report' field (25) must contain the report number (4) of the report in which the late line should have been included.

25. PREVIOUS REPORT:

Indicate the report number (4) of the line to be corrected.

26. PREVIOUS LINE:

For deletions, or additions forming part of a deletion/addition pair, indicate the line number (16) of the line to be corrected.

27. COMMENT:

Status: This is the original version (as it was originally made).

Free-text comment field for short comments by operator.

28. CRC:

Hash code of line for quality control purposes. The ONR must inform the operator of the algorithm to be used.

29. PREVIOUS CRC:

Hash code of the line to be corrected.

GENERAL REMARKS CONCERNING THE COMPLETION OF THE REPORTS

If, on the date the physical inventory was taken, there was no qualifying nuclear material in the material balance area, only labels from 1 to 7, 16, 17 and 28 above should be completed on the report.

General remarks 2, 3, 4, 5 and 6 at the end of Part 2 apply to this Part as appropriate.

This form, duly completed and signed, must be sent to the ONR in accordance with regulation 35.

Regulation 21

PART 5

ADVANCE NOTIFICATION OF EXPORTS/
SHIPMENTS OF QUALIFYING NUCLEAR MATERIAL

1. Reference code:
2. Material balance area code:
3. Qualifying nuclear facility (shipper): ... Facility or location outside facility (receiver):
4. Quantities split up by category of qualifying nuclear material and any obligation arising from a relevant international agreement:
5. Chemical composition:

6. Enrichment or isotopic composition:
7. Physical form:
8. Number of items:
9. Description of containers and seals:
10. Shipment identification data:
11. Means of transport:
12. Location where qualifying nuclear material will be stored or prepared:
13. Last date when qualifying nuclear material can be identified:
14. Approximate dates of dispatch:
Expected dates of arrival:
15. Use:

Explanatory notes

1. Reference code for advance notifications to be used in the inventory change report (use up to eight characters).
2. Code of the reporting material balance area as notified by the ONR to the qualifying nuclear facility concerned.
3. Name, address and country of the qualifying nuclear facility shipping and of the facility or location outside a facility receiving, the qualifying nuclear material. The receiver at the ultimate destination should also be indicated where applicable.

Status: This is the original version (as it was originally made).

4. The total weight of the elements should be given in grams. The weight of fissile isotopes should be indicated, if applicable. The weights must be split up by category of qualifying nuclear material and particular safeguards obligation.
5. Chemical composition should be indicated.
6. If applicable, the degree of enrichment or the isotopic composition should be indicated.
7. Use the description of materials as laid out in explanatory note 14 in Part 2 of this Schedule.
8. The number of items included in the shipment should be indicated.
9. Description (type) of containers, including features that would permit sealing.
10. Shipment identification data (e.g. container markings or numbers).
11. Indicate, where appropriate, the means of transport.
12. Indicate the location within the material balance area where the qualifying nuclear material is prepared for shipping and can be identified, and where its quantity and composition can if possible be verified.
13. Last date when qualifying nuclear material can be identified and when its quantity and composition can if possible be verified.
14. Approximate dates of dispatch and of expected arrival at destination.
15. Indicate the use to which the qualifying nuclear material has been assigned.

This form, duly completed and signed, must be forwarded to the ONR in accordance with regulation 35.

Regulation 22

PART 6
**ADVANCE NOTIFICATION OF IMPORTS/
RECEIPTS OF QUALIFYING NUCLEAR MATERIAL**

1. Reference code:
2. Material balance area code:
3. Qualifying nuclear facility (receiver):... Facility or location outside facility (shipper):
3. Quantities split up by category of qualifying nuclear material and any obligation arising from a relevant international agreement:
4. Chemical composition:
5. Enrichment or isotopic composition:
6. Physical form:
7. Number of items:
8. Description of containers and seals:
9. Means of transport:
10. Date of arrival:
11. Location where qualifying nuclear material will be unpacked:
12. Date(s) when qualifying nuclear material can be unpacked:

Status: This is the original version (as it was originally made).

Explanatory notes

1. Reference code for advance notifications to be used in the inventory change report (use up to eight characters).
2. Code of the reporting material balance area as notified by the ONR to the qualifying nuclear facility concerned.
3. Name, address and country of the qualifying nuclear facility receiving, and of the installation shipping, the qualifying nuclear material.
4. The total weight of the elements must be given in grams. The weight of fissile isotopes shall be indicated if applicable. The weights must be split up by category of nuclear material and particular safeguards obligation.
5. Chemical composition must be indicated.
6. If applicable, the degree of enrichment or the isotopic composition must be indicated.
7. Use the description of qualifying nuclear materials as laid out in explanatory note 14 in Part 2 of this Schedule.
8. The number of items included in the shipment must be indicated.
9. Description (type) of containers and, if possible, of the seals affixed.
10. Indicate, where appropriate, the means of transport.
11. Expected or actual date of arrival in the reporting material balance area.
12. Indicate the location within the material balance area where the qualifying nuclear material will be unpacked and can be identified, and where its quantity and composition can be verified.
13. Date(s) when qualifying nuclear material will be unpacked.

This form, duly completed and signed, must be forwarded to the ONR in accordance with regulation 35.

Regulation 28

PART 7
REPORT OF ORE EXPORTS/SHIPMENTS

Operator 2:

Qualifying nuclear facility 3:

Code 4:

Year:

Date	Consignee	Quantity contained in g:		Remarks
		of uranium	of thorium	

Date and place of dispatch of report:

Name and position of signatory:

Signature:

Explanatory notes

1. The report is to be made for each export consignment at the date of shipment.
2. Name and address of the operator.
3. Name of the qualifying nuclear facility in respect of which the report is made.
4. Code of the qualifying nuclear facility as notified to the operator by the ONR.

This form, duly completed and signed, must be forwarded to the ONR in accordance with regulation 35.

Regulation 4

Status: This is the original version (as it was originally made).

PART 8

OUTLINE PROGRAMME OF ACTIVITIES

Communications should cover the next calendar year.

In particular, communications should include the following information:

1. types of operations, e.g. anticipated throughput of proposed campaigns with indication of type and quantity of fuel elements to be fabricated or reprocessed, enrichment programmes, reactor operating programmes, with planned shutdowns;
2. expected schedule of arrival of qualifying nuclear materials, stating the amount of material per batch, the form (UF₆, UO₂, fresh or irradiated fuels, etc.), anticipated type of container or packaging;
3. anticipated schedule of waste processing campaigns (other than repackaging, or further conditioning without separation of elements), stating the amount of material per batch, the form (glass, high active liquid, etc.), anticipated duration and location;
4. dates by which the quantity of qualifying nuclear material in products is expected to be determined, and dates of dispatch;
5. dates and duration of physical inventory taking.

This communication, duly completed and signed, must be sent to the ONR in accordance with regulation 35.

Regulation 30(1)(a)

PART 9

ANNUAL REPORT ON EXPORTS/SHIPMENTS OF CONDITIONED WASTE (Note. 1)

Name of the qualifying nuclear facility which is shipping:				
MBA code of the qualifying nuclear facility which is shipping:			Reporting period from	to
<i>Date</i>	<i>MBA code of the receiving qualifying nuclear facility or name and address of the receiving facility outside the United Kingdom 2.</i>	<i>Conditioned form 3.</i>	<i>Quantity 4.</i>	<i>Remarks</i>
			g of P	
			g of U-235	

<i>Date</i>	<i>MBA code of the receiving qualifying nuclear facility or name and address of the receiving facility outside the United Kingdom 2.</i>	<i>Conditioned form 3.</i>	<i>Quantity 4.</i>	<i>Remarks</i>
			g of U g of T	
			g of P g of U-235 g of U g of T	
			g of P g of U-235 g of U g of T	
			g of P g of U-235 g of U g of T	

Date and place of dispatch of report:

Name and position of signatory:

Signature:

Explanatory notes

1. This report must include all the shipments or exports of conditioned waste to facilities or qualifying nuclear facilities outside the United Kingdom that have occurred during the reporting period.
2. Full name and address to be filled in for exports.
3. The ‘Conditioned form’ column must show the conditioned form of the waste, e.g. glass, ceramic, cement or bitumen.

Status: This is the original version (as it was originally made).

- The quantity column may be based on the quantity data recorded at the qualifying nuclear facility and does not require measurements of the items exported/shipped.

This form, duly completed and signed, must be sent to the ONR in accordance with regulation 35.

Regulation 30(1)(b)

PART 10

ANNUAL REPORT ON IMPORTS/RECEIPTS OF CONDITIONED WASTE

(Note 1)

Name of the receiving qualifying nuclear facility:		
MBA code of the receiving qualifying nuclear facility:	Reporting period from	to

<i>Date</i>	<i>Name, address and, if known, MBA code of the qualifying nuclear facility which is shipping the waste</i>	<i>Conditioned form 2.</i>	<i>Quantity 3.</i>	<i>Remarks</i>
-------------	---	----------------------------	--------------------	----------------

			g of P g of U-235 g of U g of T	
			g of P g of U-235 g of U g of T	
			g of P g of U-235 g of U g of T	
			g of P g of U-235	

<i>Date</i>	<i>Name, address and, if known, MBA code of the qualifying nuclear facility which is shipping the waste</i>	<i>Conditioned form 2.</i>	<i>Quantity 3. g of U g of T</i>	<i>Remarks</i>
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Date and place of dispatch of report:

Name and position of signatory:

Signature:

Explanatory notes

1. This report is required for conditioned waste which has been received from installations/qualifying nuclear facilities or from installations outside the United Kingdom.
2. The 'Conditioned form' column must show the conditioned form of the waste, e.g. glass, ceramic, cement or bitumen.
3. The quantity column may be based on the quantity data recorded at the qualifying nuclear facility and does not require measurements of the items imported/received.

This form, duly completed and signed, must be sent to the ONR in accordance with regulation 35.

Regulation 31(2)(a)

PART 11
REQUEST FOR A QUALIFYING NUCLEAR
FACILITY WITH LIMITED OPERATION

1. Date:
2. Qualifying nuclear facility:
3. Material balance area code:

Status: This is the original version (as it was originally made).

- 4. Category of qualifying nuclear material:
- 5. Enrichment or isotopic composition:
- 6. Quantities:
- 7. Chemical composition:
- 8. Physical form:
- 9. Number of items:
- 10. Intended use:
- 11. Particular safeguards obligation:

Request granted as above...	Date:
Name and position of signatory granting the request:	
Signature:... (for the ONR)	

Explanatory Note

This form should be used when a request for the application of regulation 31 is made.

This form, duly completed and signed, must be sent to the ONR in accordance with regulation 35.

Regulation 33(2)

PART 12

**ADVANCE NOTIFICATION OF INTENDED WITHDRAWAL OF
QUALIFYING NUCLEAR MATERIAL FROM CIVIL ACTIVITIES**

Date _____

This is to notify the ONR that a withdrawal of qualifying nuclear material from civil activities is intended to be made as follows:

- (a) Material Balance Area code: _____
- (b) Facility code: _____
- (c) Quantity: _____ g/kg total weight of element _____
_____ g/kg fissile isotope(s), if applicable
- (d) Chemical composition: _____
- (e) Enrichment or isotopic composition (if appropriate): _____
- (f) Physical form: _____
- (g) Number of items: _____
- (h) Description of containers and seals: _____
- (i) Shipment identification data: _____
- (j) Name of the operator: _____
- (k) Proposed date of withdrawal: _____

(Signature)

For the operator

This form, duly completed and signed, must be sent to the ONR in accordance with regulation 35.
