BAE Systems Marine Ltd (BAESML) application for variation to radioactive substances activity permit EPR/UB3433DW

Supporting documents – certificates

Contents

1. Management system approval to ISO9001
2. Nuclear site license
3. MOD nuclear authorisation

Lloyd's Register

Current issue date: 1 January 2021
Expiry date: 31 December 2023
Certificate identity number: 10317143

Original approval(s):
ISO 14001 - 23 November 2004
ISO 45001 - 8 April 2020
ISO 9001 - 21 December 1993

Certificate of Approval

This is to certify that the Management System of:

BAE SYSTEMS Marine Limited

Bridge Road, Barrow in Furness, LA14 1AF, Cumbria, United Kingdom

has been approved by Lloyd's Register to the following standards:

ISO 14001:2015, ISO 45001:2018, ISO 9001:2015

Approval number(s): ISO 14001 – 00005637, ISO 45001 – 00005638, ISO 9001 – 0003389

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Prime contractorship and project management of nuclear powered submarines spanning concept studies, design, manufacture, construction, test and commissioning and the provision of in service support for marine vessels and systems.

[redacted]

[redacted]

Area Operations Manager UK & Ireland

Issued by: Lloyd's Register Quality Assurance Limited

UKAS MANAGEMENT SYSTEMS
001

Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and heir respec ive officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with he relevant Lloyd's Register entity for the provision of his information or advice and in that case any responsibility or liability is exclusively on he terms and condi ions set out in that contract.
Issued by: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom

Lloyd's Register

Certificate identity number: 10317143

Certificate Schedule

Location	Activities
Bridge Road, Barrow in Furness, LA14 1AF, Cumbria, United Kingdom	**ISO 14001:2015** Prime contractorship and project management of nuclear powered submarines spanning concept studies, design, manufacture, construction, test and commissioning and the provision of in service support for marine vessels and systems. **ISO 45001:2018** Prime contractorship and project management of nuclear powered submarines spanning concept studies, design, manufacture, construction, test and commissioning and the provision of in service support for marine vessels and systems. **ISO 9001:2015** Prime contractorship and project management of nuclear powered submarines spanning concept studies, design, manufacture, construction, test and commissioning and the provision of in service support for marine vessels and systems. The Design and Manufacture of Military Packaging.
Network 331, Lysons Avenue, Ash Vale, G12 5QF, United Kingdom	**ISO 9001:2015** Design and build of combat system equipment containing deliverable software. Provision of integration and test facilities for nuclear submarines
Site Redevelopment Programme Bridge Road, Barrow in Furness, LA14 1AF, United Kingdom	**ISO 14001:2015,ISO 45001:2018,ISO 9001:2015** Management and Delivery of the Site Redevelopment Programme.
New Filton House, Filton, Bristol, BS99 7AR, United Kingdom	**ISO 9001:2015** Technical support for Royal Navy submarine contracts.

UKAS MANAGEMENT SYSTEMS
001

Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and heir respec ive officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with he relevant Lloyd's Register entity for the provision of his information or advice and in that case any responsibility or liability is exclusively on he terms and condi ions set out in that contract.
Issued by: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom

Lloyd's Register

Certificate identity number: 10317143

Certificate Schedule

Location	Activities
Lyon Way, Frimley, GU16 7EX, United Kingdom	**ISO 9001:2015** Project and programme management; risk management; systems design (including combat systems), engineering; integration and sub-contract management of marine equipment. Management and procurement of marine equipment systems containing deliverable software.
Adamson House, Centenary Way, Salford, Manchester, M50 1RD, United Kingdom	**ISO 9001:2015** The design, development and integration of spacial, electrical and mechanical modelling in support of Nuclear Submarines.
Broad Oak, Portsmouth, PO3 5PQ, United Kingdom	**ISO 9001:2015** Provision of design, operating data and support to the Astute Class training community. The provision of post design services and in service support including hardware and software for surveillance systems for Nuclear Submarines.
Melcombe Court, 1 Cumberland Drive, Weymouth, DT4 9TT, United Kingdom	**ISO 9001:2015** Project and programme management; risk management; systems design (including combat systems) engineering; integration and sub-contract management of marine equipment. Management and procurement of marine equipment systems containing deliverable software.
10 Morris Drive, Unit 12 Burnside Industrial Park, Dartmouth, B3B 1K8, Canada	**ISO 9001:2015** Materials management & logistics services.
220 Laurier Avenue West, Suite 1200, Ottawa, Canada	**ISO 9001:2015** Provision of in-service support solutions and consultancy services in the areas of project management, data and configuration management, engineering, material and supply chain management, maintenance and waterfront support.

UKAS MANAGEMENT SYSTEMS
001

Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.
Issued by: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom

Lloyd's Register

Certificate identity number: 10317143

Certificate Schedule

UKAS MANAGEMENT SYSTEMS
001

Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and heir respec ive officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with he relevant Lloyd's Register entity for the provision of his information or advice and in that case any responsibility or liability is exclusively on he terms and condi ions set out in that contract.
Issued by: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom

SITE LICENCE No. 42C

NUCLEAR INSTALLATIONS ACT 1965

NUCLEAR SITE LICENCE

BAE SYSTEMS MARINE LIMITED

DEVONSHIRE DOCK COMPLEX

1. The Office for Nuclear Regulation, in pursuance of sections 1(1), 4(1), 4(2), 4(3) and 4(4) of the Nuclear Installations Act 1965, hereby licenses BAE Systems Marine Limited, a company registered in England and Wales under number 00229770 (hereinafter referred to as "the licensee") whose registered office is at Warwick House, P.O. Box 87, Farnborough Aerospace Centre, Hampshire, GU14 6YU, to use the site described in Part 1 of Schedule 1 to this licence (hereinafter referred to as "the site") for the purpose of installing and operating the nuclear installations described in Part 2 of that Schedule.

2. This licence is granted subject to the conditions contained in Schedule 2 hereto.

3. The Office for Nuclear Regulation, in pursuance of section 5(1) of the Nuclear Installations Act 1965, hereby revokes Nuclear Site Licence 42B granted to the licensee (formerly Vickers Shipbuilding and Engineering Limited) in respect of the site on 29th October 1990. The revocation of Nuclear Site Licence 42B shall take effect immediately prior to the coming into force of this licence.

4. In so far as any approval or direction was given or made under previous licences of the site and is specified in Schedule 3 to this licence and could now be given or made under the condition attached to this licence which is specified in the last column of Schedule 3 on the same line as the number of the original approval or direction, that approval or direction shall not be invalidated by the revocation of Nuclear Site Licence 42B but shall have effect for the purpose of this licence as if it had been given or made under such condition.

5. In so far as any consent, agreement, notification or specification granted, given, made or deemed to have effect under any condition contained in Schedule 2 to Nuclear Site Licence 42B, was in force immediately prior to the coming into force of this licence and which could now be granted, given or made under a corresponding condition contained in Schedule 2 to this licence, that consent, agreement, notification or specification shall not be invalidated by the revocation of Nuclear Site Licence 42B, but shall have effect for the purpose of this licence as if it had been granted, given or made under such corresponding condition.

6. In so far as any requirement to preserve any document required, record made, authority or consent granted, approval given, or direction or certificate issued in pursuance of the conditions attached to, or having effect as if prescribed in, Nuclear Site Licence 42B, was in force immediately prior to the coming into force of this licence it shall not be invalidated by the revocation of Nuclear Site Licence 42B, but shall have effect as if that requirement had been prescribed by this licence.

7. This licence shall come into force on 1st October 2018

Dated 28th September 2018

For and on behalf of the Office for Nuclear Regulation

Signed:

[redacted]

[redacted]

Chief Nuclear Inspector

A person authorised to sign in that behalf

INDEX TO SCHEDULES

to

Site Licence No. 42C

BAE Systems Marine Limited

Devonshire Dock Complex

NUCLEAR SITE LICENCE 1
SCHEDULE 1 4
Part 1: The Site 4
Part 2: The Nuclear Installations 4
SCHEDULE 2 5
1 INTERPRETATION 5
2 MARKING OF THE SITE BOUNDARY 6
3 CONTROL OF PROPERTY TRANSACTIONS 6
4 RESTRICTIONS ON NUCLEAR MATTER ON THE SITE 7
5 CONSIGNMENT OF NUCLEAR MATTER 7
6 DOCUMENTS, RECORDS, AUTHORITIES AND CERTIFICATES 8
7 INCIDENTS ON THE SITE 8
8 WARNING NOTICES 8
9 INSTRUCTIONS TO PERSONS ON THE SITE 9
10 TRAINING 9
11 EMERGENCY ARRANGEMENTS 9
12 DULY AUTHORISED AND OTHER SUITABLY QUALIFIED AND EXPERIENCED PERSONS 9
13 NUCLEAR SAFETY COMMITTEE 10
14 SAFETY DOCUMENTATION 11
15 PERIODIC REVIEW 11
16 SITE PLANS, DESIGNS AND SPECIFICATIONS 12
17 MANAGEMENT SYSTEMS 12
18 RADIOLOGICAL PROTECTION 12
19 CONSTRUCTION OR INSTALLATION OF NEW PLANT 12
20 MODIFICATION TO DESIGN OF PLANT UNDER CONSTRUCTION 13
21 COMMISSIONING 13
22 MODIFICATION OR EXPERIMENT ON EXISTING PLANT 14
23 OPERATING RULES 15
24 OPERATING INSTRUCTIONS 15
25 OPERATIONAL RECORDS 16
26 CONTROL AND SUPERVISION OF OPERATIONS 16
27 SAFETY MECHANISMS, DEVICES AND CIRCUITS 16
28 EXAMINATION, INSPECTION, MAINTENANCE AND TESTING 16
29 DUTY TO CARRY OUT TESTS, INSPECTIONS AND EXAMINATIONS 17
30 PERIODIC SHUTDOWN 17
31 SHUTDOWN OF SPECIFIED OPERATIONS 17
32 ACCUMULATION OF RADIOACTIVE WASTE 17
33 DISPOSAL OF RADIOACTIVE WASTE 18
34 LEAKAGE AND ESCAPE OF RADIOACTIVE MATERIAL AND RADIOACTIVE WASTE 18
35 DECOMMISSIONING 18
36 ORGANISATIONAL CAPABILITY 19
SCHEDULE 3 20
Continuing valid Approvals and Directions issued under Licence No: 20

SCHEDULE 1

Part 1: The Site

Land situated at Barrow-in-Furness in the District of Barrow-in-Furness in the County of Cumbria, partly owned by the licensee and partly leased from Associated British Ports and occupied by the licensee and shown outlined in green on the licensee's drawing referenced P.T./92/91/309 Sheet 1 of 3 Issue AI, dated 24th August 2018 and entitled BAE Systems Marine Limited Licensed Site Plan, which is annexed to this licence.

Part 2: The Nuclear Installations

(1) Installations designed or adapted for the incorporation of enriched uranium into a New Core Cartridge to form part of a nuclear assembly.

(2) Installations designed or adapted for the storage of nuclear fuel referred to in paragraph 3(1) of the Nuclear Installations Regulations 1971 other than storage incidental to carriage.

(3) Installations designed for the purpose of installing new reactor cores into submarine reactor plant.

SCHEDULE 2

1 INTERPRETATION

(1) In the conditions set out in this Schedule to this licence, unless the context otherwise requires, the following expressions have the meanings hereby respectively assigned to them, that is to say -

"commissioning" means the process during which plant components and systems, having been constructed or modified, are made operational and verified to be in accordance with design assumptions and to have met the appropriate safety criteria;

"excepted matter" has the meaning assigned thereto in the Nuclear Installations Act 1965 and the Nuclear Installations (Excepted Matter) Regulations 1978 made thereunder;

"experiment" means any test or non-routine activity other than an activity carried out pursuant to Conditions 21 and 28;

"installation" means "nuclear installation" and has the meaning assigned thereto in the Nuclear Installations Act 1965 (as amended);

"the licensee" and "the site" each has the meaning assigned thereto in paragraph 1 of this licence;

"modification" means any alteration to buildings, plants, operations, processes or safety cases and includes any replacement, refurbishment or repairs to existing buildings, plants or processes and alterations to the design of plants during the period of construction;

"nuclear matter" and "relevant site" each has the meaning assigned thereto in the Nuclear Installations Act 1965 (as amended);

"nuclear safety committee" means any nuclear safety committee established pursuant to Condition 13 of this Schedule;

"ONR" means the Office for Nuclear Regulation;

"operations" includes maintenance, examination, testing and operation of the plant and the treatment, processing, keeping, storing, accumulating or carriage of any radioactive material or radioactive waste and "operating" and "operational" shall be construed accordingly;

"property transaction" means any property transaction including a transfer, conveyance, assignment, demise, letting, under-letting, parting with possession, sharing occupation or use, or granting or reserving any property licence, easement or wayleave over or in relation to the site or any part of it, but excluding a right of access or any right of occupation, use or possession to or with a party performing statutory, regulatory or international obligations, or a party delivering contracted services solely to or for the benefit of the licensee in relation to that nuclear licensed site;

"radioactive material" has the meaning, disregarding the exception in paragraph 9 (contaminated articles or substances) of Part 2 of Schedule 23 to

the Environmental Permitting (England and Wales) Regulations 2016, given in paragraph 3 of that Part of that Schedule to those Regulations;

"radioactive waste" has the meaning assigned thereto in paragraph 3 of Part 2 of Schedule 23 to the Environmental Permitting (England and Wales) Regulations 2016;

"safety" refers to the safety of persons whether on or off the site;

"safety case" means the document or documents produced by the licensee in accordance with Condition 14 of this Schedule.

(2) In these conditions except where the context otherwise requires -

(a) any reference to the singular shall include the plural and vice versa and any reference to the masculine shall include the feminine;

(b) any reference to any arrangement, agreement, approval, consent, direction, specification, notification or any formal communication between ONR and the licensee (and vice versa) shall be deemed to be a reference to a written document;

(c) any reference to a numbered condition is a reference to the condition so numbered in this Schedule.

(3) Where in these conditions ONR requires any matter to be approved or to be carried out only with its consent or to be carried out as it directs ONR may -

(a) from time to time modify, revise or withdraw either wholly or in part any such approval, direction or consent;

(b) approve either wholly or in part any modification or revision or any proposed modification or revision to any matter for the time being approved.

2 MARKING OF THE SITE BOUNDARY

(1) The licensee shall make and implement adequate arrangements to prevent unauthorised persons from entering the site or, if so directed by ONR, from entering such part or parts thereof as ONR may specify.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) The licensee shall mark the boundaries of the site by fences or other appropriate means and any such fences or other means used for this purpose shall be properly maintained.

(5) The licensee shall, if so directed by ONR, erect appropriate fences on the site in such positions as ONR may specify and shall ensure that all such fences are properly maintained.

3 CONTROL OF PROPERTY TRANSACTIONS

(1) The licensee shall make and implement adequate arrangements ('arrangements') to control all property transactions affecting the site or any part of the site to ensure that the licensee remains in overall control of the site.

(2) The arrangements shall include provision for the classification of all property transactions according to their safety significance and their impact on the licensee's control of the site. The arrangements shall include a requirement for the provision of adequate documentation to justify the classification of property transactions and shall where appropriate provide for the submission of this documentation to ONR.

(3) The licensee shall submit to ONR for approval such part or parts of the arrangements as ONR may specify.

(4) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(5) The licensee shall not transfer its freehold or assign its leasehold interest in the site or any part of the site without the consent of ONR. In addition, if ONR so specifies the licensee shall not carry out any property transaction, or any property transaction of the description or descriptions specified by ONR, without the consent of ONR.

(6) The licensee, if so directed by ONR, shall not complete the property transaction specified in that direction without the consent of ONR.

4 RESTRICTIONS ON NUCLEAR MATTER ON THE SITE

(1) The licensee shall ensure that no nuclear matter is brought onto the site except in accordance with adequate arrangements made by the licensee for this purpose.

(2) The licensee shall ensure that no nuclear matter is stored on the site except in accordance with adequate arrangements made by the licensee for this purpose.

(3) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(4) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(5) For new installations, if ONR so specifies, the licensee shall ensure that no nuclear matter intended for use in connection with the new installation is brought onto the site for the first time without the consent of ONR.

5 CONSIGNMENT OF NUCLEAR MATTER

(1) The licensee shall not consign nuclear matter (other than excepted matter and radioactive waste) to any place in the United Kingdom other than a relevant site except with the consent of ONR.

(2) The licensee shall keep a record of all nuclear matter (including excepted matter and radioactive waste) consigned from the site and such record shall contain particulars of the amount, type and form of such nuclear matter, the manner in which it was packed, the name and address of the person to whom it was consigned and the date when it left the site.

(3) The licensee shall ensure that the aforesaid record is preserved for 30 years from the date of despatch or such other period as ONR may approve except in the case of any consignment or part thereof subsequently stolen, lost, jettisoned or

abandoned, in which case the record shall be preserved for a period of 50 years from the date of such theft, loss, jettisoning or abandoning.

6 DOCUMENTS, RECORDS, AUTHORITIES AND CERTIFICATES

(1) The licensee shall make adequate records to demonstrate compliance with any of the conditions attached to this licence.

(2) Without prejudice to any other requirements of the conditions attached to this licence the licensee shall make and implement adequate arrangements to ensure that every document required, every record made, every authority, consent or approval granted and every direction or certificate issued in pursuance of the conditions attached to this licence is preserved for 30 years or such other periods as ONR may approve.

(3) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(4) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(5) The licensee shall furnish to ONR copies of any such document, record, authority or certificate as ONR may specify.

7 INCIDENTS ON THE SITE

(1) The licensee shall make and implement adequate arrangements for the notification, recording, investigation and reporting of such incidents occurring on the site:

(a) as is required by any other condition attached to this licence;

(b) as ONR may specify; and

(c) as the licensee considers necessary.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

8 WARNING NOTICES

The licensee shall ensure that suitable and sufficient notices are kept on the site for the purposes of informing persons thereon of each of the following matters, that is to say:

(a) the meaning of any warning signal used on the site;

(b) the location of any exit from any place on the site, being an exit provided for use in the event of an emergency;

(c) the measures to be taken by such persons in the event of fire breaking out on the site or in the event of any other emergency;

and that such notices are kept posted in such positions and in such characters as to be conveniently read by those persons.

9 INSTRUCTIONS TO PERSONS ON THE SITE

The licensee shall ensure that every person authorised to be on the site receives adequate instructions (to the extent that this is necessary having regard to the circumstances of that person being on the site) as regards the risks and hazards associated with the plant and its operation, the precautions to be observed in connection therewith and the action to be taken in the event of an accident or emergency on the site.

10 TRAINING

(1) The licensee shall make and implement adequate arrangements for suitable training of all those on site who have responsibility for any operations which may affect safety.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

11 EMERGENCY ARRANGEMENTS

(1) Without prejudice to any other requirements of the conditions attached to this licence the licensee shall make and implement adequate arrangements for dealing with any accident or emergency arising on the site and their effects.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) Where any such arrangements require the assistance or co-operation of, or render it necessary or expedient to make use of the services of any person, local authority or other body the licensee shall ensure that each person, local authority or other body is consulted in the making of such arrangements.

(5) The licensee shall ensure that such arrangements are rehearsed at such intervals and at such times and to such extent as ONR may specify or, where ONR has not so specified, as the licensee considers necessary.

(6) The licensee shall ensure that such arrangements include procedures to ensure that all persons in his employ who have duties in connection with such arrangements are properly instructed in the performance of the same, in the use of the equipment required and the precautions to be observed in connection therewith.

12 DULY AUTHORISED AND OTHER SUITABLY QUALIFIED AND EXPERIENCED PERSONS

(1) The licensee shall make and implement adequate arrangements to ensure that only suitably qualified and experienced persons perform any duties which may affect the safety of operations on the site or any duties assigned by or under these conditions or any arrangements required under these conditions.

(2) The aforesaid arrangements shall also provide for the appointment, in appropriate cases, of duly authorised persons to control and supervise operations which may affect plant safety.

(3) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(4) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(5) The licensee shall ensure that no person continues to act as a duly authorised person if, in the opinion of ONR, he is unfit to act in that capacity and ONR has notified the licensee to that effect.

13 NUCLEAR SAFETY COMMITTEE

(1) The licensee shall establish a nuclear safety committee or committees to which it shall refer for consideration and advice the following:

(a) all matters required by or under these conditions to be referred to a nuclear safety committee;

(b) such arrangements or documents required by these conditions as ONR may specify and any subsequent alteration or amendment to such specified arrangements or documents;

(c) any matter on the site affecting safety on or off the site which ONR may specify; and

(d) any other matter which the licensee considers should be referred to a nuclear safety committee.

(2) The licensee shall submit to ONR for approval the terms of reference of any such nuclear safety committee and shall not form a nuclear safety committee without the aforesaid approval.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the terms of reference of such a nuclear safety committee unless ONR has approved such alteration or amendment.

(4) The licensee shall appoint at least seven persons as members of a nuclear safety committee including one or more members who are independent of the licensee's operations and shall ensure that at least five members are present at each meeting including at least one independent member.

(5) The licensee shall furnish to ONR the name, qualifications, particulars of current posts held and the previous relevant experience of every person whom he appoints as a member of any nuclear safety committee forthwith after making such appointment. Notwithstanding such appointment the licensee shall ensure that a person so appointed does not remain a member of any nuclear safety committee if ONR notifies the licensee that it does not agree to the appointment.

(6) The licensee shall ensure that the qualifications, current posts held and previous relevant experience of the members of any such committee, taken as a whole, are such as to enable that committee to consider any matter likely to be referred to it and to advise the licensee authoritatively and, so far as practicable, independently.

(7) The licensee shall ensure that a nuclear safety committee shall consider or advise only during the course of a properly constituted meeting of that committee.

(8) The licensee shall send to ONR within 14 days of any meeting of any such committee a full and accurate record of all matters discussed at that meeting including in particular any advice given to the licensee.

(9) The licensee shall furnish to ONR copies of any document or any category of documents considered at any such meetings that ONR may specify.

(10) The licensee shall notify ONR as soon as practicable if it is intended to reject, in whole or in part, any advice given by any such committee together with the reasons for such rejection.

(11) Notwithstanding paragraph (7) of this condition, where it becomes necessary to obtain consideration of, or advice on, urgent safety proposals (which would normally be considered by a nuclear safety committee) the licensee may do so in accordance with appropriate arrangements made for the purpose by the licensee, considered by the relevant nuclear safety committee and approved by ONR.

(12) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements described in paragraph (11) of this condition unless the relevant nuclear safety committee has considered and ONR has approved such alteration or amendment.

14 SAFETY DOCUMENTATION

(1) Without prejudice to any other requirements of the conditions attached to this licence the licensee shall make and implement adequate arrangements for the production and assessment of safety cases consisting of documentation to justify safety during the design, construction, manufacture, commissioning, operation and decommissioning phases of the installation.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) The licensee shall furnish to ONR copies of any such documentation or any such category of documentation as ONR may specify.

15 PERIODIC REVIEW

(1) The licensee shall make and implement adequate arrangements for the periodic and systematic review and reassessment of safety cases.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) The licensee shall, if so directed by ONR, carry out a review and reassessment of safety and submit a report of such review and reassessment to ONR at such intervals, within such a period and for such of the matters or operations as may be specified in the direction.

16 SITE PLANS, DESIGNS AND SPECIFICATIONS

(1) The licensee shall submit to ONR an adequate plan of the site (hereinafter referred to as the site plan) showing the location of the boundary of the licensed site and every building or plant on the site which might affect safety.

(2) The licensee shall submit to ONR with the site plan a schedule giving particulars of each such building and plant thereon and the operations associated therewith.

(3) If any changes are made on the site which affect the said buildings, plant or operations, the licensee shall forthwith send an amended site plan and schedule to ONR incorporating these changes.

(4) The licensee shall furnish to ONR such plans, designs, specifications or other information relating to such buildings, plants and operations as ONR may specify.

17 MANAGEMENT SYSTEMS

(1) Without prejudice to any other requirements of the conditions attached to this licence the licensee shall establish and implement management systems which give due priority to safety.

(2) The licensee shall, within its management systems, make and implement adequate quality management arrangements in respect of all matters which may affect safety.

(3) The licensee shall submit to ONR for approval such part or parts of the aforesaid quality management arrangements as ONR may specify.

(4) The licensee shall ensure that once approved no alteration or amendment is made to the approved management systems or approved quality management arrangements unless ONR has approved the alteration or amendment.

(5) The licensee shall furnish to ONR such copies of records or documents made in connection with the aforesaid quality management arrangements as ONR may specify.

18 RADIOLOGICAL PROTECTION

(1) The licensee shall make and implement adequate arrangements for the assessment of the average effective dose (including any committed effective dose) to such class or classes of persons as may be specified in the aforesaid arrangements and the licensee shall forthwith notify ONR if the average effective dose to such class or classes of persons exceeds such level as ONR may specify.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

19 CONSTRUCTION OR INSTALLATION OF NEW PLANT

(1) Where the licensee proposes to construct or install any new plant which may affect safety the licensee shall make and implement adequate arrangements to control the construction or installation.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) The aforesaid arrangements shall where appropriate divide the construction or installation into stages. Where ONR so specifies the licensee shall not commence nor thereafter proceed from one stage to the next of the construction or installation without the consent of ONR. The arrangements shall include a requirement for the provision of adequate documentation to justify the safety of the proposed construction or installation and shall where appropriate provide for the submission of this documentation to ONR.

(5) The licensee shall, if so directed by ONR, halt the construction or installation of a plant and the licensee shall not recommence such construction or installation without the consent of ONR.

20 MODIFICATION TO DESIGN OF PLANT UNDER CONSTRUCTION

(1) The licensee shall ensure that no modification to the design which may affect safety is made to any plant during the period of construction except in accordance with adequate arrangements made and implemented by the licensee for that purpose.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) The aforesaid arrangements shall provide for the classification of modifications according to their safety significance. The arrangements shall where appropriate divide modifications into stages. Where ONR so specifies the licensee shall not commence nor thereafter proceed from one stage to the next of the modification without the consent of ONR. The arrangements shall include a requirement for the provision of adequate documentation to justify the safety of the proposed modification and shall where appropriate provide for the submission of this documentation to ONR.

21 COMMISSIONING

(1) The licensee shall make and implement adequate arrangements for the commissioning of any plant or process which may affect safety.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) The aforesaid arrangements shall where appropriate divide the commissioning into stages. Where ONR so specifies the licensee shall not commence nor thereafter proceed from one stage to the next of the commissioning

without the consent of ONR. The arrangements shall include a requirement for the provision of adequate documentation to justify the safety of the proposed commissioning and shall where appropriate provide for the submission of this documentation to ONR.

(5) The licensee shall appoint a suitably qualified person or persons for the purpose of controlling, witnessing, recording and assessing the results of any tests carried out in accordance with the requirements of the aforesaid commissioning arrangements.

(6) The licensee shall ensure that full and accurate records are kept of the results of every test and operation carried out in pursuance of this condition.

(7) The licensee shall ensure that no plant or process which may affect safety is operated (except for the purpose of commissioning) until:

(a) the appropriate stage of commissioning has been completed and a report of such commissioning, including any results and assessments of any tests as may have been required under the commissioning arrangements referred to in paragraph (1) of this condition, has been considered in accordance with those arrangements; and

(b) a safety case or cases as appropriate, which shall include the safety implications of modifications made since the commencement of construction of the plant and those arising from the commissioning of the plant, and any matters whereby the operation of the plant may be affected by such modifications or commissioning, has been considered in accordance with the arrangements referred to in paragraph (1) of this condition.

(8) The licensee shall, if so notified by ONR, submit to ONR the safety case for the aforesaid plant or processes prepared in pursuance of paragraph (7) of this condition and shall not commence operation of the relevant plant or process without the consent of ONR.

22 MODIFICATION OR EXPERIMENT ON EXISTING PLANT

(1) The licensee shall make and implement adequate arrangements to control any modification or experiment carried out on any part of the existing plant or processes which may affect safety.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) The aforesaid arrangements shall provide for the classification of modifications or experiments according to their safety significance. The arrangements shall where appropriate divide the modification or experiment into stages. Where ONR so specifies the licensee shall not commence nor thereafter proceed from one stage to the next of the modification or experiment without the consent of ONR. The arrangements shall include a requirement for the provision of adequate documentation to justify the safety of the proposed modification or experiment and shall where appropriate provide for the submission of the documentation to ONR.

(5) The licensee shall, if so directed by ONR, halt the modification or experiment and the licensee shall not recommence such modification or experiment without the consent of ONR.

23 OPERATING RULES

(1) The licensee shall, in respect of any operation that may affect safety, produce an adequate safety case to demonstrate the safety of that operation and to identify the conditions and limits necessary in the interests of safety. Such conditions and limits shall hereinafter be referred to as operating rules.

(2) The licensee, where ONR so specifies, shall refer the operating rules arising from paragraph (1) of this condition to the relevant nuclear safety committee for consideration.

(3) The licensee shall ensure that operations are at all times controlled and carried out in compliance with such operating rules. Where the person appointed by the licensee for the purposes of condition 26 identifies any matter indicating that the safety of any operation or the safe condition of any plant may be affected that person shall bring that matter to the attention of the licensee forthwith who shall take appropriate action and ensure the matter is then notified, recorded, investigated and reported in accordance with arrangements made under condition 7.

(4) The licensee shall submit to ONR for approval such of the aforesaid operating rules as ONR may specify.

(5) The licensee shall ensure that once approved no alteration or amendment is made to any approved operating rule unless ONR has approved such alteration or amendment.

(6) Notwithstanding the preceding provisions of this condition ONR may, if in its opinion circumstances render it necessary at any time, agree to the temporary suspension of any approved operating rule.

24 OPERATING INSTRUCTIONS

(1) The licensee shall ensure that all operations which may affect safety are carried out in accordance with written instructions hereinafter referred to as operating instructions.

(2) The licensee shall ensure that such operating instructions include any instructions necessary in the interests of safety and any instructions necessary to ensure that any operating rules are implemented.

(3) The licensee shall, if so specified by ONR, furnish to ONR copies of such operating instructions and when any alteration is made to the operating instructions furnished to ONR, the licensee shall ensure that such alteration is furnished to ONR within such time as may be specified.

(4) The licensee shall make and implement adequate arrangements for the preparation, review and amendment of such operating instructions.

(5) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(6) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

25 OPERATIONAL RECORDS

(1) The licensee shall ensure that adequate records are made of the operation, inspection and maintenance of any plant which may affect safety.

(2) The aforesaid records shall include records of the amount and location of all radioactive material, including nuclear fuel and radioactive waste, used, processed, stored or accumulated upon the site at any time.

(3) The licensee shall record such additional particulars as ONR may specify.

(4) The licensee shall furnish to ONR such copies of extracts from such records at such times as ONR may specify.

26 CONTROL AND SUPERVISION OF OPERATIONS

The licensee shall ensure that no operations are carried out which may affect safety except under the control and supervision of suitably qualified and experienced persons appointed for that purpose by the licensee.

27 SAFETY MECHANISMS, DEVICES AND CIRCUITS

The licensee shall ensure that a plant is not operated, inspected, maintained or tested unless suitable and sufficient safety mechanisms, devices and circuits are properly connected and in good working order.

28 EXAMINATION, INSPECTION, MAINTENANCE AND TESTING

(1) The licensee shall make and implement adequate arrangements for the regular and systematic examination, inspection, maintenance and testing of all plant which may affect safety.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) The aforesaid arrangements shall provide for the preparation of a plant maintenance schedule for each plant. The licensee shall submit to ONR for its approval such part or parts of any plant maintenance schedule as ONR may specify.

(5) The licensee shall ensure that once approved no alteration or amendment is made to any approved part of any plant maintenance schedule unless ONR has approved such alteration or amendment.

(6) The licensee shall ensure in the interests of safety that every examination, inspection, maintenance and test of a plant or any part thereof is carried out:

(a) by suitably qualified and experienced persons;

(b) in accordance with schemes laid down in writing;

(c) within the intervals specified in the plant maintenance schedule; and

(d) under the control and supervision of a suitably qualified and experienced person appointed by the licensee for that purpose.

(7) Notwithstanding the above paragraphs of this condition ONR may agree to an extension of any interval specified in the plant maintenance schedule.

(8) When any examination, inspection, maintenance or test of any part of a plant reveals any matter indicating that the safe operation or safe condition of that plant may be affected, the suitably qualified and experienced person appointed to control or supervise any such examination, inspection, maintenance or test shall bring it to the attention of the licensee forthwith who shall take appropriate action and ensure the matter is then notified, recorded, investigated and reported in accordance with arrangements made under condition 7.

(9) The licensee shall ensure that a full and accurate report of every examination, inspection, maintenance or test of any part of a plant indicating the date thereof and signed by the suitably qualified and experienced person appointed by the licensee to control and supervise such examination, inspection, maintenance or test is made to the licensee forthwith upon completion of the said examination, inspection, maintenance or test.

29 DUTY TO CARRY OUT TESTS, INSPECTIONS AND EXAMINATIONS

(1) The licensee shall carry out such tests, inspections and examinations in connection with any plant (in addition to any carried out under condition 28 above) as ONR may, after consultation with the licensee, specify.

(2) The licensee shall furnish the results of any such tests, inspections and examinations carried out in accordance with paragraph (1) of this condition to ONR as soon as practicable.

30 PERIODIC SHUTDOWN

(1) When necessary for the purpose of enabling any examination, inspection, maintenance or testing of any plant or process to take place, the licensee shall ensure that any such plant or process shall be shut down in accordance with the requirements of its plant maintenance schedule referred to in condition 28.

(2) Notwithstanding paragraph (1) of this condition ONR may agree to an extension of a plant's operating period.

(3) The licensee shall, if so specified by ONR, ensure that when a plant or process is shut down in pursuance of paragraph (1) of this condition it shall not be started up again thereafter without the consent of ONR.

31 SHUTDOWN OF SPECIFIED OPERATIONS

(1) The licensee shall, if so directed by ONR, shut down any plant, operation or process on the site within such period as ONR may specify.

(2) The licensee shall ensure that when a plant, operation or process is shut down in pursuance of paragraph (1) of this condition it shall not be started up again thereafter without the consent of ONR.

32 ACCUMULATION OF RADIOACTIVE WASTE

(1) The licensee shall make and implement adequate arrangements for minimising so far as is reasonably practicable the rate of production and total quantity of radioactive waste accumulated on the site at any time and for recording the waste so accumulated.

(2) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(3) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(4) Without prejudice to paragraph (1) of this condition the licensee shall ensure that radioactive waste accumulated or stored on the site complies with such limitations as to quantity, type and form as may be specified by ONR.

(5) The licensee shall, if so specified by ONR, not accumulate radioactive waste except in a place and in a manner approved by ONR.

33 DISPOSAL OF RADIOACTIVE WASTE

The licensee shall, if so directed by ONR, ensure that radioactive waste accumulated or stored on the site is disposed of as ONR may specify and in accordance with an environmental permit, or an existing permit which has become an environmental permit, granted under the Environmental Permitting (England and Wales) regulations 2016.

34 LEAKAGE AND ESCAPE OF RADIOACTIVE MATERIAL AND RADIOACTIVE WASTE

(1) The licensee shall ensure, so far as is reasonably practicable, that radioactive material and radioactive waste on the site is at all times adequately controlled or contained so that it cannot leak or otherwise escape from such control or containment.

(2) Notwithstanding paragraph (1) of this condition the licensee shall ensure, so far as is reasonably practicable, that no such leak or escape of radioactive material or radioactive waste can occur without being detected, and that any such leak or escape is then notified, recorded, investigated and reported in accordance with arrangements made under Condition 7.

(3) Nothing in this condition shall apply to discharges or releases of radioactive waste in accordance with an approved operating rule or environmental permit, or an existing permit which has become an environmental permit, granted under the Environmental Permitting (England and Wales) Regulations 2016.

35 DECOMMISSIONING

(1) The licensee shall make and implement adequate arrangements for the decommissioning of any plant or process which may affect safety.

(2) The licensee shall make arrangements for the production and implementation of decommissioning programmes for each plant.

(3) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements or programmes as ONR may specify.

(4) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements or programmes unless ONR has approved such alteration or amendment.

(5) The aforesaid arrangements shall where appropriate divide the decommissioning into stages. Where ONR so specifies the licensee shall not commence nor thereafter proceed from one stage to the next of the decommissioning without the consent of ONR. The arrangements shall include a requirement for the provision of adequate documentation to justify the safety of the

proposed decommissioning and shall where appropriate provide for the submission of this documentation to ONR.

(6) The licensee shall, if so directed by ONR where it appears to them to be in the interests of safety, commence decommissioning in accordance with the aforesaid arrangements and decommissioning programmes.

(7) The licensee shall, if so directed by ONR, halt the decommissioning of a plant and the licensee shall not recommence such decommissioning without the consent of ONR.

36 ORGANISATIONAL CAPABILITY

(1) The licensee shall provide and maintain adequate financial and human resources to ensure the safe operation of the licensed site.

(2) Without prejudice to the requirements of paragraph 1, the licensee shall make and implement adequate arrangements to control any change to its organisational structure or resources which may affect safety.

(3) The licensee shall submit to ONR for approval such part or parts of the aforesaid arrangements as ONR may specify.

(4) The licensee shall ensure that once approved no alteration or amendment is made to the approved arrangements unless ONR has approved such alteration or amendment.

(5) The aforesaid arrangements shall provide for the classification of changes to the organisational structure or resources according to their safety significance. The arrangements shall include a requirement for the provision of adequate documentation to justify the safety of any proposed change and shall where appropriate provide for the submission of such documentation to ONR.

(6) The licensee shall if so directed by ONR halt the change to its organisational structure or resources and the licensee shall not recommence such change without the consent of ONR.

SCHEDULE 3

Continuing valid Approvals issued under Licence No. 42B

Licence Instrument No.	Date	Subject	Licence Condition
516	1 Feb 2017	**Approval:** Site Emergency Plan NSRD/GR04-002	11(3)
517	4 Jun 2018	**Approval:** Nuclear Safety Committee Terms of Reference	13(3)
518	4 Jun 2018	**Approval:** Arrangements for Consideration of Urgent Safety Proposals	13(11)

DRG. No. PT/92/91/309/SHT 1 of 3
USED ON

DO NOT SCALE

UK OFFICIAL
BAE SYSTEMS PROPRIETARY

SD19100 SD19200 SD19300 SD19400 SD19500 SD19600 SD19700 SD19800 SD19900 SD20000
SD69300 SD69200 SD69100 SD69000 SD68900 SD68800 SD68700 SD68600
SD19000 SD18900

21.00000°

ORDNANCE SURVEY GRID NORTH

GYMNASIUM
HINDPOOL ROAD
NEW ROUNDABOUT
WAREHOUSE
NEW 3 METRE HIGH BRICK WALL
CAR PARK
DIY STORE
CORNMILL CROSSING
Phase 2 Link Road
NORTH ROAD
STRAND
MICHAELSON ROAD
Normal Access to/from Crew Accommodation
D58 & D59 ENCLAVE FENCE AND WALL.
TEMPORARY CAR PARK
Turnstile Location
Turnstile Location
DEVONSHIRE DOCK
Shiplift Security Gates
DEVONSHIRE DOCK HALL – D34
NORTH QUAY
SHIP LIFT
SOUTH QUAY
DEEP DIVE BASIN
WET DOCK
WET DOCK QUAY
SEE NOTE 7
INNER GATE
OUTER GATE
GENERAL STORAGE
STANLEY ROAD
Ordnance Survey Site Reference Point
DDH Gate No.2 (Normal Entry/Exit)
DDH Gate No.3 (Normal Entry/Exit and Emergency Exit to Muster Area)
Ordnance Survey Grid

D44 D45 D35 D63 D38 D20 D22 D23 D24 D25 D26 D27 D53 D28 D29 D30 D31 D32 D33 D60 D42 D13 D12 D09 D02X D02 D08 D01 D07 D06 D05 D48 D49 D46 D47 D17 D16 D14 D15 D54 D61 D43 D56 D18 D19 C30 C42 C25 C09 C08 C03 C10

NOTES
1. NUCLEAR LICENSED SITE BOUNDARY SHOWN THUS –
2. SECURITY BOUNDARY SHOWN THUS – – – – –
3. OTHER SECURITY FENCING OR WALLS SHOWN THUS –
4. FOR DETAILS OF REVISIONS SEE SHEET 3.
5. POSITIONS OF NUCLEAR SITE BOUNDARY NOTICES SHOWN THUS –
6. POSITIONS OF NUCLEAR SITE CONDITIONS NOTICES SHOWN THUS –
7. WHERE THE NUCLEAR SITE BOUNDARY CROSSES THE ROAD AT THE BOTTOM OF THE RAMP ADJACENT TO BUILDINGS C09 & D05 IT IS INDICATED BY MEANS OF A YELLOW LINE AND THE WORDS "NUCLEAR SITE BOUNDARY" PAINTED ON THE GROUND.
8. SHEET 2 OF THIS DRAWING DETAILS THE PRESENT USAGE OF THE BUILDINGS/FACILITIES WITH APPROPRIATE COMMENTS.
9. FOR DETAILS AND LOCATIONS OF OTHER SAFETY NOTICES SEE DRG. No. SE/05/91/0049 SHTS. 1 & 2.
10. ORDNANCE SURVEY GRID REF. FOR S.W.ENTRANCE – SD191,689
11. THIS DRAWING ISSUE CREATED TO SUPPORT THE APPLICATION FOR SITE LICENCE 42C
12. FOR DETAILS OF WORKS RELATING TO THE PRIMARY BUILD CAPABILITY INCLUDING ENCLAVES, MUSTERING AND ACCESS/EGRESS ARRANGEMENTS REFER TO MEMO REF. SNF/16-022 KIRBY/ELLWOOD DATED 30/03/2016 A COPY OF WHICH IS INCLUDED ON SHEET No. 2 OF THIS DRAWING.

REFER TO DRG. SE/18/91/002 sht.1 FOR DETAILS OF AUTHORISED SITE BUNDARY

FOR REVISIONS SEE SHEET 3

ALL PRINCIPAL FACILITIES, SERVICES, PLANT AND EQUIPMENT ORIGINALLY COMMISSIONED 1986/87

UK OFFICIAL
BAE SYSTEMS PROPRIETARY

Date	Rev	Description	Init	Chkd
Aug18	AI	Nuclear site boundary line & security boundary redefined	CJK	CJK
Jun18	AH	Nuclear site boundary line changed	JB	JB
May18	AG	TEMPORARY CAR PARK FACILITY ADDED	CJK	CJK

BAE SYSTEMS (Marine) Ltd. SITE ENGINEERING SERVICES DEPARTMENT

TITLE: BAE SYSTEMS (Marine) Limited
Licensed Site Plan
UK OFFICIAL
BAE SYSTEMS PROPRIETARY

JOB No. 92/186

THIS DRAWING WAS PRODUCED USING AUTOCAD. ANY MODIFICATIONS MUST BE DONE ON CAD.

BAE SYSTEMS (Marine) Limited

THIS DOCUMENT AND THE INFORMATION CONTAINED THEREON IS THE PROPERTY OF BAE SYSTEMS (Marine) Ltd. AND MAY NOT BE COPIED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED WITHOUT THE EXPRESS WRITTEN AUTHORITY OF BAE SYSTEMS (Marine) Ltd.

CHARGE Nos	CHECKED	DRAWN	DATE	SCALE
N/A	KGE	JAH	6/92	1:1000

DRG No. P.T./92/91/309 SHT 1 OF 3

MINISTRY OF DEFENCE
CERTIFICATE OF NUCLEAR AUTHORISATION

SUBMARINE BUILD-YARD, BARROW-IN-FURNESS

Managing Director, BAE Systems Marine Limited

1. The Defence Nuclear Safety Regulator (DNSR) is required to put in place a MOD regulatory regime for nuclear activities in the Defence Nuclear Enterprise (DNE). This regime is documented in DSA02-DNSR - Defence Nuclear Safety Regulations of the Defence Nuclear Enterprise and DSA03-DNSR - Defence Nuclear Safety Regulations of the Defence Nuclear Enterprise - Guidance.

2. Legislation governing the regulation of defence nuclear and radiological safety is identified in DSA03-DNSR. The Health and Safety At Work etc. Act 1974 applies in all circumstances in the UK (including territorial waters). In some cases the legislation does not apply to defence nuclear activities or exemptions may be provided. Specifically the Nuclear Installations Act 1965 does not apply to reactors comprised in a means of transport. Where legislation does not apply, the Secretary of State for Defence's Policy Statement on Health, Safety and Environmental Protection requires that arrangements are maintained that produce outcomes that are, so far as reasonably practicable, at least as good as those required by legislation. This authorisation is thus a MOD arrangement, similar to licensing by the statutory Office for Nuclear Regulation (ONR), which empowers DNSR and secures complete regulation of the Authorisee's activities. A Letter of Understanding between ONR and DNSR describes the principles of joined up regulation for the DNE.

3. As Head of the Defence Nuclear Safety Regulator, I hereby authorise the Managing Director, BAE Systems Marine Limited to conduct nuclear activities specified by the Scope of Authorisation of this Certificate. The Conditions associated with this Certificate are to be found in DSA02-DNSR - Defence Nuclear Safety Regulations of the Defence Nuclear Enterprise.

4. This Certificate of Nuclear Authorisation remains in force while the Authorisee is conducting nuclear activities; its withdrawal or the amendment of its terms will only occur following formal consultation between DNSR and the Authorisee.

Signed [redacted]

[redacted] MSc, CEng, FIMechE
Head of the Defence Nuclear Safety Regulator

Dated 28 May 2021

Defence Safety Authority

SCOPE OF AUTHORISATION

PART 1 – Location

The BAE Systems Marine Limited (BAESML) Authorised site at Barrow-in-Furness comprises of land and dock are as outlined on Drawing No. SE/18/91/002 Sheet 1 entitled "BAE SYSTEMS (Marine) Limited Authorised Site Plan", Revision B dated 09/18. This was submitted under cover of BAESML letter reference NSRD/RC&I/AP/eDMS 1896096 dated 26th September 2018.

The Authorised site boundary to extend to the nuclear-powered warship when it is berthed at the Devonshire Dock Quay.

PART 2 – The Nuclear Activities

The Authorisation covers the following Naval Nuclear Propulsion Programme activities undertaken by the Authorisee at the Authorisee's premises at Barrow-In-Furness at the locations specified in Part 1:

- Fabrication of naval reactor plant components (as classified by the relevant NRP safety case) both on and off the Authorised site within the confines of BAESML premises;
- Receipt, storage and in-store maintenance of naval reactor plant components and equipment (as classified by the relevant NRP safety case) both on and off the Authorised site within the confines of BAESML premises;
- Construction and integration of the naval reactor plant into the vessel;
- Launching, berthing and docking of nuclear-powered warships;
- Conduct of tests, trials and commissioning of naval reactor plant;
- Operation, maintenance, inspection, modification and repair of naval reactor plant.

PART 3 – Co-operation

The Authorisee is to co-operate fully with other Naval Nuclear Propulsion Programme Authorisees and establish and maintain coherent management arrangements for all activities which could impact on safety. In discharging these duties the Authorisee must recognise the responsibilities of the Naval Reactor Plant Approving Authority and establish and maintain appropriate coherent management arrangements.

Defence Safety Authority