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**United Kingdom of Great Britain and Northern Ireland
and
France**

Treaty between the French Republic and the United Kingdom of Great Britain and Northern Ireland relating to joint radiographic/hydrodynamics facilities. London, 2 November 2010

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**Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
et
France**

Traité entre la République française et le Royaume-Uni de Grande-Bretagne et d'Irlande du Nord relatif à des installations radiographiques et hydrodynamiques communes. Londres, 2 novembre 2010

Entrée en vigueur : *1^{er} septembre 2011, conformément à l'article 20*

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**TREATY BETWEEN THE UNITED KINGDOM OF GREAT BRITAIN
AND NORTHERN IRELAND AND THE FRENCH REPUBLIC RELATING
TO JOINT RADIOGRAPHIC/HYDRODYNAMICS FACILITIES**

The United Kingdom of Great Britain and Northern Ireland and the French Republic hereinafter referred to as “The Parties”,

Mindful of their common defence interests and of the importance of nuclear deterrence, a core element of their national and Allied defence strategies, and bearing in mind that they do not see situations arising in which the vital interests of either Party could be threatened without the vital interests of the other also being threatened,

Being determined to maintain only a minimum credible nuclear capability, consistent with the strategic and security context of their commitments under ARTICLE 5 of the North Atlantic Treaty, done at Washington on 4 April 1949 , and considering that their nuclear forces contribute to Europe’s security as a whole,

Reaffirming their rights and obligations under the Treaty on the Non-Proliferation of Nuclear Weapons (NPT), done on 1 July 1968 , and commitments under the Comprehensive Nuclear-Test-Ban Treaty, done on 10 September 1996 ,

Reiterating their mutual interest in keeping their independent nuclear forces at the highest level of safety and reliability, at least cost, and determined to co-operate to this end in the industrial, technological and scientific fields,

Seeking to improve further the effectiveness of their armed forces, in accordance with the Treaty between the United Kingdom of Great Britain and Northern Ireland and the French Republic for Defence and Security Co-operation, signed at London on 2 November 2010 ,

Have agreed on the following:

ARTICLE 1

General co-operation

1.1 The Parties shall co-operate, including through the exchange of relevant classified information, in the following areas:

- a) safety and security of nuclear weapons;
- b) stockpile certification;

- c) counter nuclear or radiological terrorism.

1.2 As part of the co-operation in these areas, the Parties have decided to build and operate jointly dedicated radiographic and hydrodynamics facilities, referred to hereinafter as TEUTATES or “The Programme”. In particular the Parties have agreed:

- a) to build and operate jointly a radiographic/hydrodynamic facility in France. This joint facility is referred to hereinafter as the “TEUTATES EPURE” or “EPURE” facility;
- b) to co-operate in a joint radiography and diagnostics technology programme in a joint facility in the United Kingdom referred to hereinafter as the “TEUTATES” Technology Development Centre or “TDC” facility. The output of this joint facility shall comprise development work to underpin the technologies used in the EPURE facility throughout its operational life.

1.3 Other reciprocal programmes shall be considered in due course and shall become the subject of separate agreements as appropriate.

ARTICLE 2

The facilities

2.1 The EPURE facility shall be built in France, on the Valduc site of the Commissariat à l’Energie Atomique et aux Energies Alternatives – Direction des Applications Militaires (CEA-DAM). The TDC facility shall be built in the United Kingdom at the Atomic Weapons Establishment, Aldermaston (AWE).

2.2 On the basis of initial designs for both facilities, a joint project team from the Parties shall be responsible for the design, build and commissioning of the facilities according to a jointly agreed set of requirements. With the exception of work being undertaken solely in support of national programmes, both facilities shall be operated by joint teams, under the supervision of a steering committee co-chaired by the “Principals” of the Programme.

Operations at EPURE shall be conducted in accordance with French regulations and those at the TDC facility in accordance with United Kingdom regulations.

2.3 Either Party shall be able to conduct independent hydrodynamics trials needed for its national programmes at EPURE in a safe and secure environment.

2.4 The TDC facility shall enable both Parties to undertake development work to underpin the radiographic equipment technologies being used at the EPURE facility throughout its operational life.

2.5 Joint use of the facilities shall not imply that all the work conducted by the Parties shall be shared. Both facilities shall include the necessary features to guarantee the security of each Party's national information and operations.

2.6 Detailed technical, financial, security and administrative arrangements relating to the design, construction, operation, maintenance, decommissioning and dismantlement of the joint facilities shall be set out in separate, and appropriately classified, "facilities arrangements" consistent with this Treaty. The facilities arrangements shall be finalised and agreed by the Principals no later than 31 March 2011.

ARTICLE 3

Focal points

3.1 The Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA), represented by the Directeur des Applications Militaires, shall serve as the Programme focal point for the French Republic. It shall co-ordinate with other French agencies on matters affecting their participation in this Programme.

3.2 The Ministry of Defence, represented by the Chief Scientific Adviser, shall serve as the Programme focal point for the United Kingdom of Great Britain and Northern Ireland. It shall co-ordinate with other United Kingdom agencies on matters affecting their participation in this Programme.

3.3 The Directeur des Applications Militaires (DAM) and the Chief Scientific Adviser of the United Kingdom Ministry of Defence shall constitute the Principals of the Programme. The Principals shall meet periodically, and at least once a year, to review the implementation and the effectiveness of the Programme and approve future directions and other matters related to the Programme.

3.4 Taking into account the sensitivity of the Programme, the Principals shall also report progress to the Senior Level Group which shall provide strategic direction and exercise oversight of the Programme in accordance with the Treaty between the United Kingdom of Great Britain and Northern Ireland and the French Republic for Defence and Security Co-operation, signed at London on 2 November 2010.

ARTICLE 4

Schedule for construction of joint facilities

4.1 The EPURE facility shall be built in two phases:

Phase 1 shall consist of:

- a) A first firing point comprising a single, high-performance radiographic machine where hydrodynamic experiments can be performed.
- b) An assembly hall for French operations, and all the associated ancillary facilities. It shall be commissioned in 2014, to match French programme requirements.
- c) Preparatory work in readiness for Phase 2, hereinafter referred to as “Phase 1 Enhancement”.

4.2 All trials undertaken in Phase 1 facilities shall be contained in appropriately certified vessels.

4.3 Phase 2 shall consist of:

- a) The necessary assembly and ancillary facilities, designed, constructed and commissioned in 2016 to meet United Kingdom programme requirements.
- b) A second high-performance radiographic machine on the first firing point by 2019.
- c) A second firing point with appropriate diagnostics to meet the required trials throughput together with a waste processing facility by 2022.
- d) A third high-performance radiographic machine on the first firing point by 2022.

4.4 The TDC facility shall consist of:

- a) A high-performance radiographic machine assembly/development hall with ancillary X-ray imaging cell.
- b) Laboratories to facilitate the study of laser, electrical and optical diagnostic equipment.

4.5 Experiments undertaken in the TDC shall not involve fissile material.

4.6 The TDC facility shall be designed, constructed and commissioned by 2014.