

AMENDMENT VI TO THE AGREEMENT
BETWEEN THE JAPAN ATOMIC ENERGY RESEARCH INSTITUTE
AND THE UNITED STATES DEPARTMENT OF ENERGY
ON COOPERATION IN DOUBLET III PROJECT

Whereas the Japan Atomic Energy Research Institute (hereinafter referred to as "JAERI") and the United States Department of Energy (hereinafter referred to as "DOE") have been cooperating satisfactorily on the Doublet III Project pursuant to the Agreement between them signed on August 28, 1979, as amended five times on July 29, 1983, May 19, 1988, July 1, 1992, June 12, 1996, and August 29, 2000 (hereinafter referred to as "the Agreement");

Whereas JAERI and DOE (hereinafter referred to as "the Parties") consider the research based upon operation of the Doublet III facility with a dee-shaped vacuum vessel (hereinafter referred to as 'the DIII-D facility') a very important part of their respective fusion programs;

Whereas the Joint Research Program has demonstrated significant achievements in producing high-beta and improved-confinement plasmas in quasi-steady state by means of the active current profile control, in producing high density improved-confinement plasmas with radiative improved mode of operation under the advanced tokamak concept, in stabilizing a resistive wall mode, and in carrying out extended electron cyclotron current drive experiments;

Whereas the newly installed I-coil system allows investigation of optimized resistive wall mode stabilization, the discovery of the ELM-free QH-mode in both DIII-D and JT-60 opens a new important area of joint interest, and application of the high power electron cyclotron current drive for the tailoring of local current profile and suppression of neoclassical tearing modes is anticipated to further enhance the performance of advanced tokamak in steady-state;

Whereas the Parties desire to pursue aforementioned promising areas of physics research; and

Whereas the Parties wish to continue their present cooperative activities under the Agreement for an additional term of five years;

NOW THEREFORE, pursuant to Article VIII, "Additional Provisions", paragraph 5, the Parties have agreed to amend the Agreement as follows:

1. Article II, "Project", paragraph 4, is amended to read as follows:
 - '4. The Parties shall continue joint research to investigate principles of steady-state operation of advanced high performance tokamak plasmas at high beta with dee-shaped plasma cross-sections of single-null and double-null divertor configurations, using new improvements and discoveries accomplished during the past period. The joint research carried out with increased electron cyclotron current drive capabilities, improved resistive wall mode stabilization systems, and improved diagnostics, is hereinafter referred to as 'Joint Research Program.' JAERI scientists shall be assigned to the Joint Research Program, in accordance with Article V of the Agreement, to join with the DOE-supported scientists as equal members of the physics research team, unless otherwise mutually agreed to by the Parties.'

2. Article VII, "Information and Patents", is amended as follows:

'Treatment of information and intellectual property under this Amendment VI to the Doublet III Project Agreement shall be in accordance with the provisions of Article VII and the Annex of the U.S.-Japan Agreement with the understanding that the terms "Government(s)" and "Joint Committee" in said Article VII and Annex are to be read "Party(ies)" and "Steering Committee", respectively, for purposes of this Agreement.'

3. Amendment VI to the Doublet III Project Agreement shall be in accordance with the provisions of Article II of the U.S.-Japan Agreement.

4. Article VIII, "Additional Provisions", paragraph 1, is amended to read as follows:
 - '1. This Agreement as amended shall enter into force upon signature and shall remain in force until August 28, 2009, subject to the effectiveness of the U.S.-Japan Agreement.'

IN WITNESS WHEREOF, this Amendment has been signed in duplicate in the English and Japanese languages, both being equally authentic.

FOR THE UNITED STATES
DEPARTMENT OF ENERGY

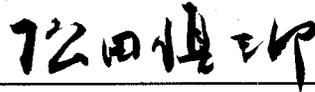


N. Anne Davies
Associate Director for
Fusion Energy Sciences
Office of Science

August 20, 2004

Date

FOR THE JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE



Sinzaburou Matsuda
Executive Director
JAERI

August 25, 2004

Date