

## Overview of Petition for Inspection of Imported MOX Fuel Assemblies (for second production)

The following is an overview of fuel assemblies petitioned this time and a description of the petition.

### 1. Overview of fuel assemblies petitioned

Item	Overview			
Types of fuel assemblies	MOX fuel			
Initial degree of enrichment	Uranium-235 degree of enrichment equivalent to approx. 3.0 wt% or less			
Maximum burnup of fuel assemblies	40,000 MWd/t			
Construction	Arranged in 8 × 8 square lattices consisting of 60 fuel rods (48 MOX fuel rods and 12 uranium fuel rods) and one water rod that is equivalent to four fuel rods.			
Production location	MELOX plant (France)			
Location of use	Hamaoka Nuclear Power Station Reactor 4			
Number of assemblies produced	60 rods (*)			
	20 rods	10 rods	10 rods	20 rods
Requested date for inspection	From April 26, 2010 to December 31, 2011	From April 26, 2010 to December 31, 2012	From April 26, 2010 to December 31, 2012	From April 26, 2010 to December 31, 2012

\* To allow us to respond to inspections flexibly based on the timing of the MOX fuel production process and sea transport, the produced assemblies noted on the petition have been separated into four parts, and we petitioned for each part separately.

### 2. Description of the petition

The petition is composed of main body and attachment supplementing the contents.

Petition		Description
Main body		Detailed specifications, production number and production plant, etc., of fuel assembly
Attachment	Explanation of performance of fuel assembly	Heat resistance and radiation resistance, etc., of fuel assembly
	Strength statement of fuel assembly	Evaluation results on mechanical integrity of fuel assembly
	Structural drawing of fuel assembly	Structural drawing and part drawing of fuel assembly
	Process flow sheet	Process drawing of fuel assembly
	Materials concerning test plan (*)	Plans for tests and inspections to be conducted for fuel assemblies or components
	Explanation of quality assurance plans (*)	Points to be checked concerning production structure and quality assurance of fuel assemblies

\* These two attached documents contain plans, policies, etc., prior to production as of the time of petition. After production of fuel assemblies is complete, we will write

and submit a "Material Concerning Test Results" and "Explanation of Quality Assurance" reflecting, among others, results of inspections done during production.