



**Kyoto University Seismic Retrofitting
Promotion Policy**

Historical Buildings / Wooden Buildings / Research Reactor Facilities

March 2007

Kyoto University

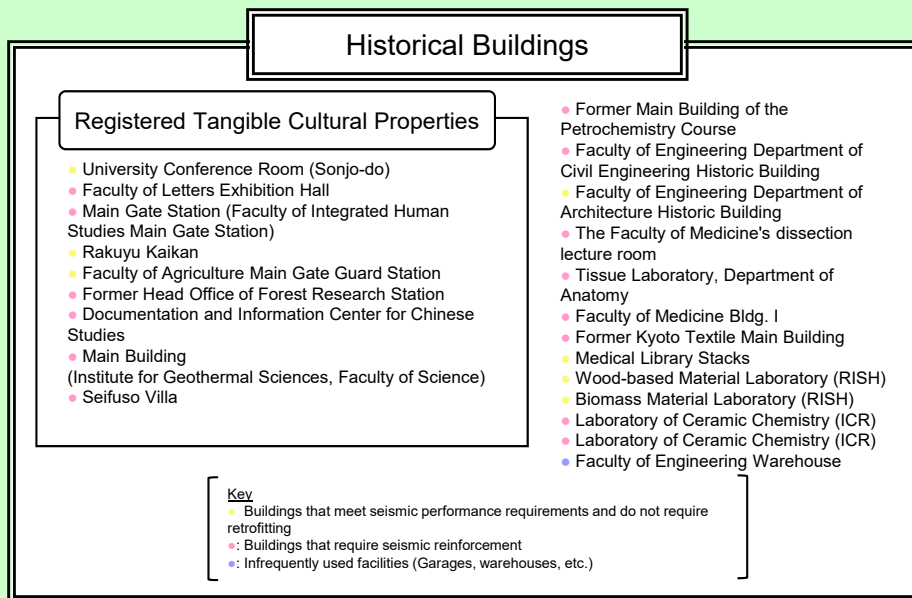
Historical Buildings

Policy

Kyoto University is committed to protecting its assets (important cultural properties, national treasures, etc.) while fulfilling its education and research functions.

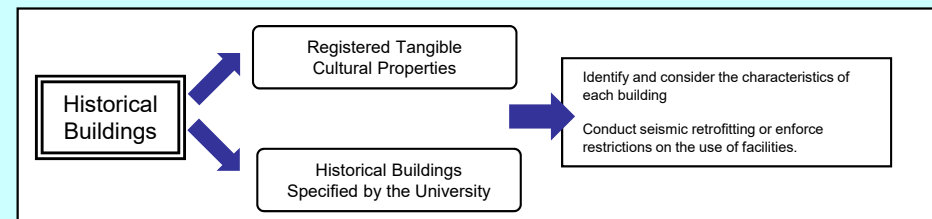
Current Situation

There are two types of historical buildings: registered tangible cultural properties and historical buildings specified by the university. There are about 19,000 m² of historical buildings, of which around 14,000 m² are in need of seismic reinforcement.



Measures

- It is necessary to distinguish between registered tangible cultural properties and historical buildings specified by the university.
- The evaluation of historical buildings does not depend solely on seismic performance but must also take into account the characteristics of each building.
- We will continue to fulfill our education and research functions while promoting earthquake-resistant construction when necessary to protect university assets.
- Important cultural properties that do not have educational or research functions should be preserved by either making them earthquake-resistant, restricting usage, or changing their purpose of use.



Objectives

To review the potential uses of historical buildings in ways that maintain their educational and research functions in order to protect the university's assets and promote improved seismic performance by formulating a preservation and utilization plan that includes maintenance and management.

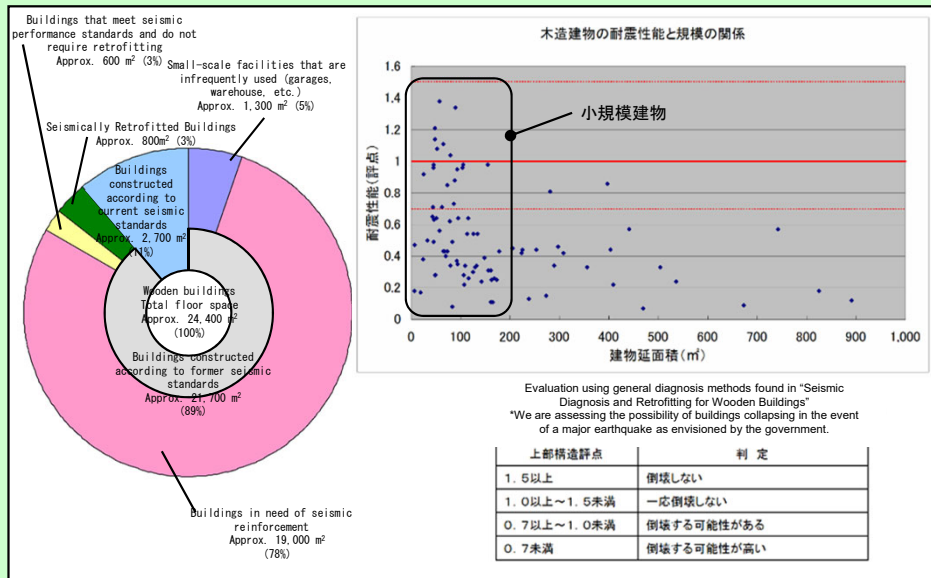
Wooden Buildings

Policy

Upon reviewing the use and functions of wooden buildings, we will demolish, rebuild, or seismically reinforce them from the perspective of comprehensive disaster prevention that considers aging facilities and fire resistance.

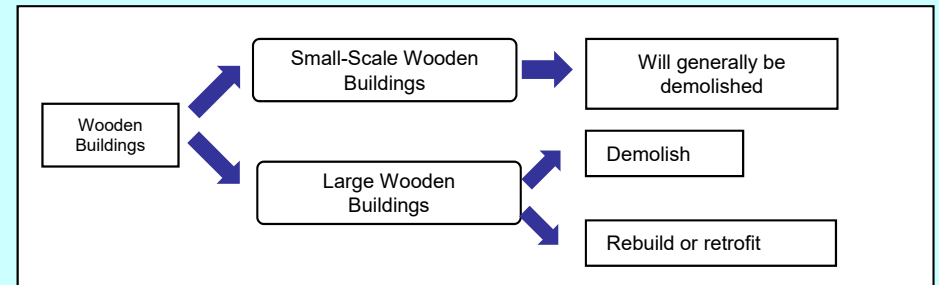
Current Situation

- There are about 24,000 m² of wooden buildings (about 2% of all Kyoto University facilities), of which more than 80% need seismic reinforcement.
- Most small-scale buildings have been closed and are considerably dilapidated.
- Some large wooden buildings still remain.



Measures

- Small-scale and large wooden buildings will be considered separately.
- Small-scale wooden buildings with poor seismic capacity and significant deterioration located across university campuses will generally be demolished after reviewing their uses and consolidating building functions.
- Large wooden buildings should be demolished, rebuilt, or reinforced to improve seismic performance, taking into consideration intended use and cost-effectiveness.



Objectives

To not only seismically retrofit wooden buildings but also systematically promote environmental improvements, with an emphasis on disaster prevention measures and the consolidation of building functions, with the aim of fireproofing facilities.

Research Reactor Facilities

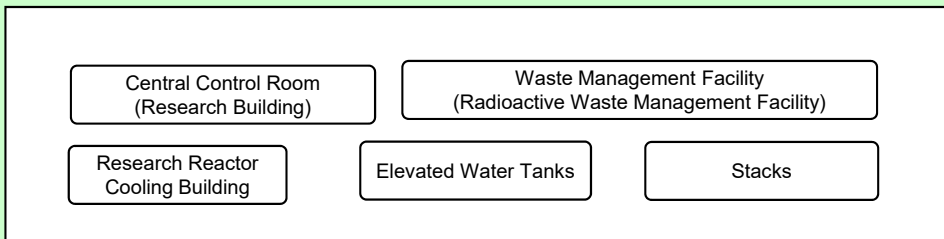
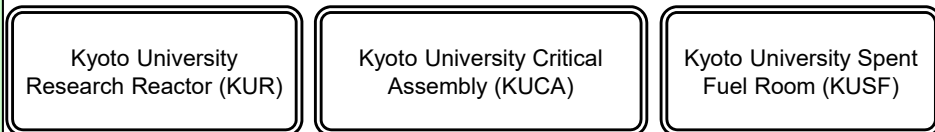
Policy

In order to ensure a safe and secure environment and maintain functions necessary for business continuity, the New Regulatory Guide for Reviewing Seismic Design of Nuclear Power Reactor Facilities, which were revised in September 2006, will be applied *mutatis mutandis*, and we will continually improve the seismic performance of facilities.

Current Situation

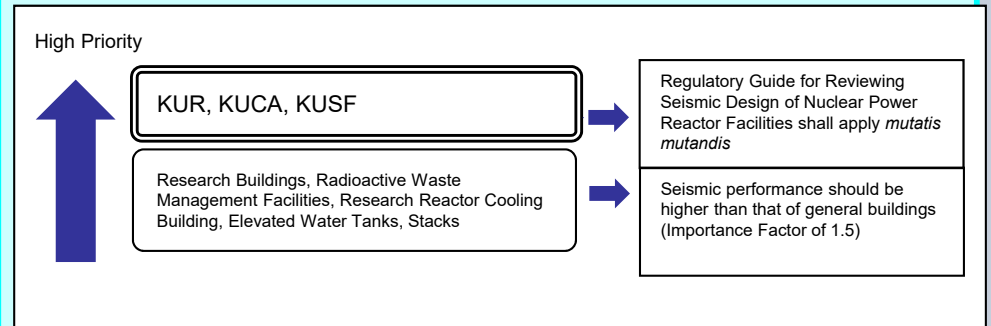
- Facilities whose seismic performance is determined based on their functional importance

Facilities of particular importance that must comply with new guidelines



Measures

- For important research reactor facilities (KUR, KUCA, and KUSF), seismic diagnoses will be conducted according to new regulatory guidelines, and if necessary, plans for retrofitting will be developed to improve seismic performance.
- Other facilities will each be reviewed for seismic performance (an importance factor of 1.5) according to their respective functions, and if necessary, plans for retrofitting will be developed to improve seismic performance.



Objectives

To improve the seismic performance of nuclear reactor facilities to ensure a safe and secure environment for educational, research, and medical activities.