Bill

Received: 02/25/2009	Received By: mkunkel Identical to LRB:					
Wanted: As time permits						
For: Garey Bies (608) 266-5350	By/Representing: Andrew					
This file may be shown to any legislator: NO	Drafter: mkunkel					
May Contact:	Addl. Drafters:					
Subject: Public Util energy	Extra Copies:					
Submit via email: YES						
Requester's email: Rep.Bies@legis.wisconsin.gov						
Carbon copy (CC:) to:						
Pre Topic:						
No specific pre topic given						
Topic:						
Payments to local governments by public utilities for spent nuc	lear fuel storage					

Instructions:

A pub. util. must pay muni. \$250,000 per year plus \$40,000 per cask if the pub. util. stores spent nuclear fuel rods in the muni. Also, must pay county \$150,000 per year (no per cask amt. to county). Adjust amts. for inflation every 5 years.

Drafting History:										
Vers.	Drafted	Reviewed	<u>Typed</u>	Proofed	Submitted	<u>Jacketed</u>	Required			
/?							Local			
/1	mkunkel 02/26/2009	wjackson 03/04/2009	phenry 03/05/2009)	sbasford 03/05/2009		Local			
/2	mkunkel 03/23/2009	wjackson 03/24/2009	rschluet 03/24/2009)	lparisi 03/24/2009	cduerst 05/21/2009				

LRB-2227 05/21/2009 09:42:43 AM Page 2

FE Sent For: at into

<**END>**

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<**END>**

Bill

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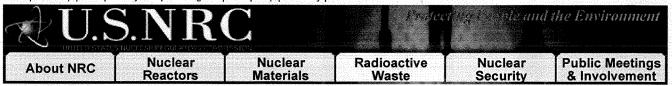
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Radioactive Waste

Regulated Waste:

Low-Level Waste

Waste Incidental to Reprocessing

High-Level Waste

Uranium Mill Tailings

Regulated Activities:

Low-Level Waste Disposal

High-Level Waste Disposal

Storage of Spent Nuclear

Transportation of Spent Nuclear Fuel

Quick Links:

Waste Quick Links

Home > Radioactive Waste > Spent Fuel Storage

Storage of Spent Nuclear Fuel

What We Regulate

There are two acceptable storage methods for spent fuel after it is removed from the reactor core:

- Spent Fuel Pools Currently, most spent nuclear fuel is safely stored in specially designed pools at individual reactor sites around the country.
- Dry Cask Storage If pool capacity is reached, licensees may move toward use of above-ground dry storage casks.

Spent Fuel Project Office -Licensing Process Conference

Regulatory Initiatives

- · Interim Staff Guidance for Public Comment
- Diablo Canyon ISFSI License Application

How We Regulate

The NRC regulates spent fuel through a combination of regulatory requirements, licensing; safety oversight, including inspection, assessment of performance; and enforcement; operational experience evaluation; and regulatory support activities. For general information, see the How We Regulate page. For details, see the following:

- · Regulations, Guidance, and Communications
- Licensina
- Oversight
- Public Involvement

Related Information

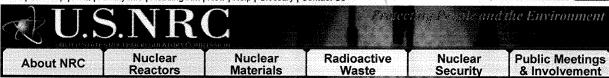
- Radioactive Waste: Production, Storage, Disposal (NUREG/BR-0216)
- Materials Safeguards and Threat Assessment
- Transportation of Spent Nuclear Fuel
- Locations of Independent Spent Fuel Storage Installations
- Dry Spent Fuel Storage Designs: NRC Approved for General Use
- **Nuclear Fuel Pool Capacity**
- Diablo Canyon ISFSI License Application

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Spent Fuel Storage

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Licensed Facilities

Locations

Designs

Graph of Fuel Capacity

What We Regulate

Spent Fuel Pools

Dry Cask Storage

How We Regulate

Regulations, Guidance, and Communications

Oversight

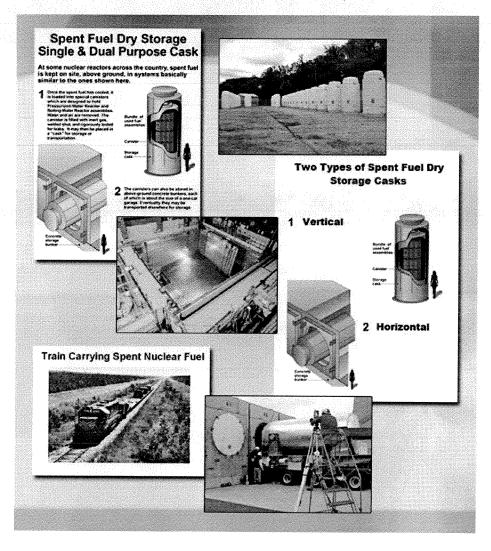
Public Involvement

Spent Fuel Pools

The water-pool option involves storing spent fuel rods under at least 20 feet of water, which provides adequate shielding from the radiation for anyone near the pool. The rods are moved into the water pools from the reactor along the bottom of water canals, so that the spent fuel is always shielded to protect workers.

About one-fourth to one-third of the total fuel load from the pools is spent and removed from the reactor every 12 to 18 months and replaced with fresh fuel.

Current regulations permit re-racking of the spent fuel pool grid and fuel rod consolidation, subject to NRC review and approval, to increase the amount of spent fuel that can be stored in the pool. Both of these methods are constrained by the size of the pool.

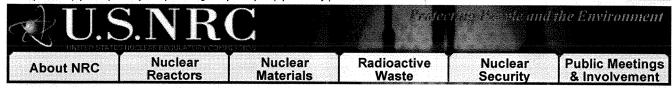


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Spent Fuel Storage

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Licensina

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Public Involvement

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Dry Cask Storage

In the late 1970s and early 1980s, the need for alternative storage began to grow when pools at many nuclear reactors began to fill up with stored spent fuel. Utilities began looking at options such as dry cask storage for increasing spent fuel storage capacity. See the graph of nuclear fuel storage pool capacity.

Dry cask storage allows spent fuel that has already been cooled in the spent fuel pool for at least one year to be surrounded by inert gas inside a container called a cask. The casks are typically steel cylinders that are either welded or bolted closed. The steel cylinder provides a leak-tight containment of the spent fuel. Each cylinder is surrounded by additional steel, concrete, or other material to provide radiation shielding to workers and members of the public. Some of the cask designs can be used for both storage and transportation.

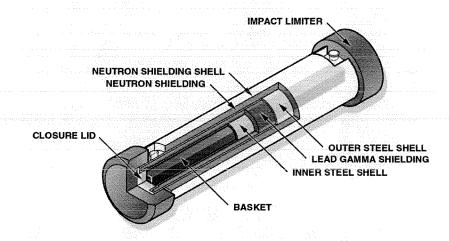
There are various dry storage cask system designs. With some designs, the steel cylinders containing the fuel are placed vertically in a concrete vault; other designs orient the cylinders horizontally. The concrete vaults provide the radiation shielding. Other cask designs orient the steel cylinder vertically on a concrete pad at a dry cask storage site and use both metal and concrete outer cylinders for radiation shielding. See the picture of a typical dry cask storage system.

The first dry storage installation was licensed by the NRC in 1986 at the Surry Nuclear Power Plant in Virginia.

Spent fuel is currently stored in dry cask systems at a growing number of power plant sites, and at an interim facility located at the Idaho National Environmental and Engineering Laboratory near Idaho Falls, Idaho. See the map showing the location of existing independent spent fuel storage installations.

> Privacy Policy I Site Disclaimer Tuesday, February 13, 2007

TYPICAL SPENT FUEL TRANSPORTATION CASKS



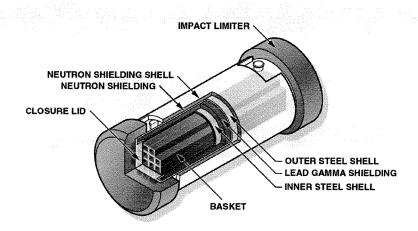
Generic Truck Cask for Spent Fuel

Typical Specifications

Gross Weight (including fuel): 50,000 pounds (25 tons)

Cask Diameter: 4 feet

Overall Diameter (including Impact Limiters): 6 feet Overall Length (including Impact Limiters): 20 feet Capacity: Up to 4 PWR or 9 BWR fuel assemblies



Generic Rail Cask for Spent Fuel

Typical Specifications

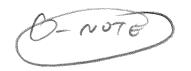
Gross Weight (including fuel): 250,000 pounds (125 tons)

Cask Diameter: 8 feet

Overall Diameter (including Impact Limiters): 11 feet Overall Length (including Impact Limiters): 25 feet Capacity: Up to 26 PWR or 61 BWR fuel assemblies



State of Misconsin 2009 - 2010 LEGISLATURE



2009 BILL

2-26-09

AN ACT ...; relating to: storage of spent fuel from nuclear power plants and

granting rule-making authority.

Analysis by the Legislative Reference Bureau

This bill requires a public utility that stores spent fuel from a nuclear power plant to make annual payments to the city, village, or town (municipality), as well as the county, in which the spent fuel is stored. As defined under current law, a "nuclear power plant" is a nuclear-fired electric generating facility with a nominal operating capacity of 100 megawatts or more. The bill requires a public utility to pay a municipality \$250,000 for each year or portion of the year the public utility stores spent fuel in the municipality. Also, the public utility must pay a county \$150,000 for each year or portion of a year that the public utility stores spent fuel in the county.

In addition, if a public utility uses dry cask storage for spent fuel, the public utility must pay a municipality \$40,000 for each dry cask for each year or portion of a year that spent fuel is stored in a dry cask in the municipality. Dry cask storage is a method of storage that the United States Nuclear Regulatory Commission allows a nuclear power plant to use after the plant reaches its capacity for on-site storage in water pools.

Finally, the bill requires the Public Service Commission to promulgate rules implementing the bill's requirements and adjusting the payment amounts described above every 5 years to account for inflation.

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For further information see the *local* fiscal estimate, which will be printed as an appendix to this bill.

The people of the state of Wisconsin, represented in senate and assembly, do enact as follows:

SECTION 1. 196.491 (3) (d) (intro.) of the statutes is amended to read:

196.491 (3) (d) (intro.) Except as provided under par. (e) and s. 196.493 (2), the

commission shall approve an application filed under par. (a) 1. for a certificate of public convenience and necessity only if the commission determines all of the following:

History: 1975 c. 68, 199; 1979 c. 221, 361; 1983 a. 53 s. 114; 1983 a. 192, 401; 1985 a. 182 s. 57; 1989 a. 31; 1993 a. 184; 1995 a. 27 ss. 9116 (5), 9126 (19); 1995 a. 227, 409; 1997 a. 27, 35, 204; 1999 a. 9; 1999 a. 150 s. 672; 2001 a. 16; 2003 a. 33, 89; 2005 a. 24, 29; 2007 a. 20 s. 9121 (6) (a).

SECTION 2. 196.493 (title) of the statutes is amended to read:

196.493 (title) Construction of nuclear Nuclear power plants limited.

History: 1983 a. 401; 1997 a. 204.
SECTION 3. 196.493 (3) of the statutes is created to read:

196.493 (3) Spent fuel storage. (a) A public utility that stores spent fuel from a nuclear power plant shall do all of the following:

- 1. Pay the municipality in which the spent fuel is stored \$250,000, or the amount specified in rules promulgated under par. (b), for each year or portion of a year that the spent fuel is stored and, if the public utility uses dry cask storage for the spent fuel, pay the municipality \$40,000, or the amount specified in rules promulgated under par. (b), for each dry cask for each year or portion of a year that the fuel is stored in a dry cask in the municipality.
- 2. Pay the county in which the spent fuel is stored \$150,000, or the amount specified in rules promulgated under par. (b), for each year or portion of a year that the spent fuel is stored in the county.

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(b) The commission shall promulgate rules to implement this subsection and to adjust the amounts specified in par. (a) every 5 years to account for inflation.

(END)

DRAFTER'S NOTE FROM THE LEGISLATIVE REFERENCE BUREAU

LRB-2227/1dn MDK:.....



Rep. Bies:

Note that I haven't researched whether federal law poses any preemption problems for this bill. If you'd like me to do so, please let me know.

Mark D. Kunkel Senior Legislative Attorney Phone: (608) 266-0131

E-mail: mark.kunkel@legis.wisconsin.gov

DRAFTER'S NOTE FROM THE LEGISLATIVE REFERENCE BUREAU

LRB-2227/1dn MDK:wlj:ph

March 5, 2009

Rep. Bies:

Note that I haven't researched whether federal law poses any preemption problems for this bill. If you'd like me to do so, please let me know.

Mark D. Kunkel Senior Legislative Attorney Phone: (608) 266-0131

E-mail: mark.kunkel@legis.wisconsin.gov



State of Misconsin 2009 - 2010 LEGISLATURE

3-72-07

2009 BILL

LRB-2227/1 MDK:wlj:ph

(stay6)

PM Page



uses din storage to

AN ACT to amend 196.491 (3) (d) (intro.) and 196.493 (title); and to create

2 196.493 (3) of the statutes; **relating to:** storage of spent fuel from nuclear power plants and granting rule-making authority.

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This bill requires a public utility that stores spent fuel from a nuclear power plant to make annual payments to the city, village, or town (municipality), and to the county, in which the spent fuel is stored. As defined under current law, a "nuclear power plant" is a nuclear-fired electric generating facility with a nominal operating capacity of 100 megawatts or more. The bill requires a public utility to pay a municipality \$250,000 for each year or portion of the year the public utility stores spent fuel in the municipality. Also, the public utility must pay a county \$150,000 for each year or portion of a year that the public utility stores spent fuel in the county. In addition, if a public utility uses dry cask storage for spent fuel, the public utility must pay a municipality \$40,000 for each dry cask for each year or portion of a year that spent fuel is stored in a dry cask in the municipality. Dry cask storage is a method of storage that the United States Nuclear Regulatory Commission allows a nuclear power plant to use after the plant reaches its capacity for on-site storage in water pools.

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(END)

Basford, Sarah

From:

Nowlan, Andrew

Sent:

Thursday, May 21, 2009 9:04 AM

To:

LRB.Legal

Subject:

Draft Review: LRB 09-2227/1 Topic: Payments to local governments by public utilities for

spent nuclear fuel storage

Please Jacket LRB 09-2227/1 for the ASSEMBLY.

It called andrew in Bied office - Derain.

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5/21/09