

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Financial 1

Question:

How much will the development of the long-term used nuclear fuel management repository cost?

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Financial 2

Question:

How will Adaptive Phased Management be funded?

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Governance 1

Question:

Implementation of Adaptive Phased Management (APM) falls within federal jurisdiction and is regulated under the *Nuclear Safety and Control Act (NSCA)* and its associated regulations.

Under the *NSCA*, who is responsible for licensing a site for a nuclear facility?

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Governance 2

Question:

Adaptive Phased Management (APM) was developed in dialogue with Canadians to reflect values and principles considered important by citizens.

What other countries have developed similar dialogue programs with their public?

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Financial 2

Answer:

The planning, development and implementation of the project is funded by the major producers and owners of used nuclear fuel in Canada: Ontario Power Generation, NB Power Nuclear, Hydro-Québec and Atomic Energy of Canada Limited.

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Financial 1

Answer:

The development of a deep geological repository for the long-term management of used nuclear fuel and the creation of a centre of expertise will cost \$16-\$24 billion.

This includes the development of an underground demonstration facility and surface facilities such as laboratories, offices, public viewing galleries and exhibits.

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Governance 2

Answer:

Adaptive Phased Management is consistent with the programs that have been developed in many other countries with nuclear power programs, such as Switzerland, Sweden, United Kingdom, Finland and France.

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Governance 1

Answer:

A licence must be obtained from the Canadian Nuclear Safety Commission (CNSC) to prepare a site for a nuclear facility, as well as for its construction, operation, decommissioning or abandonment.

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

On Site 1

Question:

How deep will the underground safe storage site be?

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

On Site 2

Question:

How much space is required for the long-term nuclear waste management site?

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Technical 1

Question:

How many used nuclear fuel bundles has Canada's nuclear power program produced over the past 40 years?

- a) 85,000
- b) 500,000
- c) 2,000,000
- d) 5,000,000

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Technical 2

Question:

When used nuclear fuel is removed from a reactor, it is radioactive for how long?

- a) 50 years
- b) 200 years
- c) 1,000 years
- d) Many thousands of years

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

On Site 2

Answer:

The project requires a surface area of approximately two by three kilometres of open land.

Most of the site surface will be suited to landscape grounds. The surface buildings that will be constructed would cover a small fraction of the total land area.

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

On Site 1

Answer:

The deep geological repository will be constructed at a depth of approximately 500 metres and consist of a series of access and service shafts and a network of tunnels leading to placement rooms where used fuel containers will be kept.

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Technical 2

Answer:

d) is correct.

Although its radioactivity decreases with time, the used fuel will remain radioactive and poses a potential health risk for many thousands of years and therefore requires proper management.

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Technical 1

Answer:

c) is correct.

Just over two million used fuel bundles – about 40,000 metric tonnes of uranium.

If the entire current inventory of used fuel bundles could be stacked end-to-end like cordwood, it would fit into a space the size of about six hockey rinks from the ice surface to the top of the boards.

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Technical 3

Question:

Where is used nuclear fuel currently being stored?

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Transportation 1

Question:

Transportation of radioactive materials takes place routinely around the world. How many serious accidents have taken place globally in the past 40 years in the transportation of radioactive material?

- a) None
- b) 2
- c) 5
- d) 8

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Transportation 1

Answer:

a) is correct.

There have been no reported transport accidents with serious radiological consequences according to the safety records established by the International Atomic Energy Agency (IAEA) over the past 40 years.

LONG TERM NUCLEAR WASTE MANAGEMENT TRIVIA

Technical 3

Answer:

Today, used nuclear fuel is safely stored at the nuclear reactor sites where it was produced, in licensed interim storage facilities.

E.g. In New Brunswick, nuclear waste is stored where it is produced at Point Lepreau.