

Site (Structure) : HIFAR

Country: AUSTRALIA

Reporting Year: 2005

Full Name: ANSTO facilities for the storage of spent fuel from the HIFAR reactor

Description:

Official Website:

License Holder(s): Australian Nuclear Science and Technology Organization (ANSTO) - Australian Government Jurisdiction

Comment # 12300: Site HIFAR

The Australian government is the only jurisdiction with a requirement to manage spent fuel resulting from the research reactor operations at Lucas Heights (ANSTO). ANSTO possesses the only facilities in Australia for managing spent fuel, as all the spent fuel produced in Australia comes from research reactors once operated, or currently operated, by ANSTO. The relevant regulatory authority, ARPANSA, has issued an operating licence to ANSTO for their spent fuel management facilities. Spent fuel is subject to a period of interim storage at ANSTO's facilities near Sydney, prior to further handling, such as transport offshore for long-term storage or reprocessing, depending on its destination.

Comment # 12314: Site HIFAR

HIFAR, a 10 MW research reactor, is the only operational reactor in Australia. Operating the reactor produces approximately 37 spent fuel elements each year. Once discharged from the reactor, the spent fuel elements are stored for several years under water, to allow much of the short-lived activity to decay. The fuel elements are then transferred to a dry storage facility, consisting of holes drilled into the bedrock and lined with stainless steel. Spent fuel from HIFAR has been shipped to the United States, to the BNFL facility at Dounreay, United Kingdom and to the COGEMA facility at La Hague, France. The waste arising from reprocessing of spent fuel elements shipped to the US under the FRR-SNF program will not be returned to Australia. It is a contractual requirement with BNFL and COGEMA that waste arising from reprocessing of spent fuel elements at their plants will be returned to Australia as long-lived intermediate-level waste.

Comment # 12315: Site HIFAR

Spent fuel is not considered as waste, so it was not included in the NEWMDB

Waste management facilities that are located at this site:

Facility:	Dry Store
Description:	Dry storage facility

Site (Structure) : HIFAR

Country: AUSTRALIA

Reporting Year: 2005

Storage part of facility**Dry Store**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
LILW-SL	No	No
LILW-LL	No	No
HLW	No	No

List SRS?	No
List UMMT?	No

Capacity:	The facility is comprised of 50 storage holes with capacity for 1100 spent fuel elements.
-----------	---

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Dry Store	not in list	0	No	No	No	No

Comment **# 12299: Storage Facility Dry Store**

The dry storage facility was built in 1968. An improvement in the 1980's was the construction of a building completely enclosing the facility.

Site (Structure) : HIFAR

Country: AUSTRALIA

Reporting Year: 2005

Facility:	Load Pond					
Description:	Inspection and loading pond for spent fuel					
Storage part of facility		Load Pond				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	No	No				
LILW-LL	No	No				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Pond	pool	0	No	No	No	No

Site (Structure) : HIFAR

Country: AUSTRALIA

Reporting Year: 2005

Facility:	Wet Store																																					
Description:	Ponds for cropping and wet storage of spent fuel																																					
<p>Storage part of facility Wet Store</p> <p>The following shows storage status for waste classes and SRS.</p> <table border="1"> <thead> <tr> <th>Waste Class</th> <th>Actual</th> <th>Planned</th> </tr> </thead> <tbody> <tr> <td>LILW-SL</td> <td>No</td> <td>No</td> </tr> <tr> <td>LILW-LL</td> <td>No</td> <td>No</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table> <table border="1"> <tr> <td>List SRS?</td> <td>No</td> </tr> <tr> <td>List UMMT?</td> <td>No</td> </tr> </table> <table border="1"> <tr> <td>Capacity:</td> <td></td> </tr> </table> <p>Types of Storage Units</p> <table border="1"> <thead> <tr> <th>Storage Unit Name</th> <th>Type Name</th> <th>Year Opened</th> <th>Closed?</th> <th>Full?</th> <th>Modular?</th> <th>Contains SRS?</th> </tr> </thead> <tbody> <tr> <td>Wet Store</td> <td>pool</td> <td>0</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> </tr> </tbody> </table> <p>Comment # 12298: Storage Facility Wet Store The facility is used for long term cooling of fresh spent fuel</p>							Waste Class	Actual	Planned	LILW-SL	No	No	LILW-LL	No	No	HLW	No	No	List SRS?	No	List UMMT?	No	Capacity:		Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?	Wet Store	pool	0	No	No	No	No
Waste Class	Actual	Planned																																				
LILW-SL	No	No																																				
LILW-LL	No	No																																				
HLW	No	No																																				
List SRS?	No																																					
List UMMT?	No																																					
Capacity:																																						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?																																
Wet Store	pool	0	No	No	No	No																																