



Australian Government
Australian Safeguards and Non-Proliferation Office

Form ASO108
(Replaces three forms – see Page 2 for details)

**APPLICATION to CONSUME, DILUTE or
DISPOSE of NUCLEAR MATERIAL, or
ASSOCIATED ITEM**

Ref. No.

What is this Application for?

<u>Nuclear Material</u>	Consumption?..... <input type="checkbox"/>	Dilution?..... <input type="checkbox"/>	Disposal? <input type="checkbox"/>	} <input type="text"/>
<u>Associated Item</u>	Disposal? <input type="checkbox"/>			

NUCLEAR MATERIAL details

Batch number:	<input type="text"/>	Item Identification:	<input type="text"/>	Material category:	<input type="text"/>
Chemical/physical form, and purity:	<input type="text"/>				
Attributed country obligation?	<input type="text"/>	Irradiated? (Yes/No)	<input type="checkbox"/>	Containment:	<input type="text"/>
Element Weight:	<input type="text"/>	Kg <input type="checkbox"/>	²³⁵ U grams	<input type="text"/>	²³³ U grams: <input type="text"/>
		grams ... <input type="checkbox"/>			
Proposed use of the material:	<input type="text"/>				

For enriched uranium

ASSOCIATED ITEM details

Item name:	<input type="text"/>	Item Classification:	<input type="text"/>	Item status:	<input type="text"/>
Country of origin:	<input type="text"/>	Foreign obligation:	<input type="text"/>		
Item description:	<input type="text"/>				

Description of the activities → *if insufficient space, send attachments*

Description of how the nuclear material—OR associated item—will be consumed, diluted, or disposed of , as applicable:	<input type="text"/>
Description of how the material will become " practically irrecoverable ".	<input type="text"/>

Applicant's Signature

Name :	<input type="text"/>	ASNO use only
Position:	<input type="text"/>	
Signature: _____	Date: ____/____/____	Approved: ____/____/____
Name of Permit Holder: <input type="text"/>		_____ <i>For Director General ASNO</i>
		Permit number: <input type="text"/>



Explanatory Notes

**** Approval is not required for the consumption of nuclear material in nuclear reactors ****

- Ref No** A sequential reference number is required for each form of this type submitted by the Permit Holder (eg 001, 002, 003 etc). Where amendments are made to a previously submitted form, please use the same reference with a sequential revision number (eg 2005-003 Rev 1)
- Nuclear material** As defined in the *Nuclear Non-Proliferation (Safeguards) Act 1987*
- Associated item** As defined in the *Nuclear Non-Proliferation (Safeguards) Act 1987*, and includes associated material (heavy water and graphite), associated equipment (eg, reactors, Zirconium tubes) and associated technology (enrichment technology).
- Proposed date** The action must not take place prior to approval. Note that approvals for consumption or dilution are typically returned within 7 working days after receipt of the application, but ASNO assessment of disposal plans can be extensive dependent on the application.
- Batch number / Item Identifier** Either one or several items with the same chemical and isotopic composition, physical form. Provide individual item identifiers (eg serial numbers) where known.
- Material category** Options are D (depleted uranium), N (natural uranium), L (uranium enriched to <20%), H (uranium enriched >20%), P (plutonium), T (thorium), W (heavy water), or G (graphite).
- Any attributed Country obligations** Provide details where known otherwise “unknown”.
- Containment** Describe type and size/volume of container. Eg. 100g bottle, 0.5 litre flask, within radiography camera.
- Chemical / Physical form and Purity** Provide chemical formula (or name if unknown) and describe physical form. Eg UF₆ gas, UO₂ powder, metal shielding block, Thorium nitrate solution, etc. Common compounds are described for example in the Handbook of Chemistry and Physics and the Merck Index. Describe also purity of batch eg heterogeneous, variable, manufactured, standard etc.
- Element weight** This refers to the contained weight of nuclear material in the compound. Eg U weight = 84.8% U₃O₈ weight. Use compound weight for Heavy Water.
- Item Classification** Determined by reference to the Classification Guide.
- Item status** Examples are draft, final, incomplete, operational, damaged
- Foreign obligation** The prescribed International Agreement which the item is subject to.
- Item description** For documents, include title and completion date.
- Practically Irrecoverable** Nuclear material in a state or condition where it would be more economical to produce similar material from scratch than to recover the material itself.
- Applicant's Signature** This form must be signed by a representative of the Permit Holder (i.e. the organisation) who will take responsibility and sign documents on behalf of the organisation.

This form replaces the following forms →

ASO108 (revision 4 – issued 22 July 2010), ASO109 and ASO119