FACILITY LICENCE APPLICATION

Nuclear installation

REGULATORY SERVICES

ARPANSA-FORM-1802 v9.4

June 2021

# Section A: Applicant information

|  |  |
| --- | --- |
| **Department or Commonwealth body:** |  |
| **Portfolio:** |  |
| **Person making the application**: **(Department Secretary, CEO or other authorised delegate[[1]](#footnote-1))**  name:  POSITION:  BUSINESS ADDRESS:  PH:       FAX:  EMAIL: | |
| **Nominee (where applicable):**  name:  POSITION:  BUSINESS ADDRESS:  PH:       FAX:  EMAIL: | |
| **Radiation Safety Officer (or contact person)**  NAME:  POSITION:  BUSINESS ADDRESS:  PH:       FAX:  EMAIL: | |

**Declaration** **(to be signed by the person making the application)**

I hereby declare that the information provided on this form and in support of this application is, to the best of my knowledge, complete and true in every particular.

Signed: Date:

Print name:

# Section B: Kind of nuclear installation & type of authorisation

### Indicate the kind of nuclear installation and type(s) of authorisation for which a licence is sought

|  |  |  |
| --- | --- | --- |
| ITEM | KIND OF NUCLEAR INSTALLATION AND TYPE OF AUTHORISATION REQUIRED | CHECK |
| 1 | Preparing a site for a nuclear reactor designed:  (a) for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) to have maximum thermal power less than 1 megawatt |  |
| 2 | Constructing a nuclear reactor designed:  (a) for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) to have maximum thermal power less than 1 megawatt |  |
| 3 | Possessing or controlling a nuclear reactor:  (a) for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) with maximum thermal power less than 1 megawatt |  |
| 4 | Operating a nuclear reactor:  (a) for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) with maximum thermal power less than 1 megawatt |  |
| 5 | Decommissioning, disposing of or abandoning a nuclear reactor that:  (a) was used for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) had maximum thermal power less than 1 megawatt |  |
| 6 | Preparing a site for a nuclear reactor that is designed:  (a) for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) to have maximum thermal power of at least 1 megawatt |  |
| 7 | Constructing a nuclear reactor that is designed:  (a) for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) to have maximum thermal power of at least 1 megawatt |  |
| 8 | Possessing or controlling a nuclear reactor:  (a) for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) with maximum thermal power of at least 1 megawatt |  |
| 9 | Operating a nuclear reactor:  (a) for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) with maximum thermal power of at least 1 megawatt |  |
| 10 | Decommissioning, disposing of or abandoning a nuclear reactor that:  (a) was used for research or production of radioactive materials for industrial or medical use (including critical and subcritical assemblies); and  (b) had maximum thermal power of at least 1 megawatt |  |
| 11 | Preparing a site for a plant for preparing or storing fuel for use in a nuclear reactor of a kind mentioned in any of items 1 to 9 |  |
| 12 | Constructing a plant for preparing or storing fuel for use in a nuclear reactor of a kind mentioned in any of items 1 to 9 |  |
| 13 | Possessing or controlling a plant for preparing or storing fuel for use in a nuclear reactor of a kind mentioned in any of items 1 to 9 |  |
| 14 | Operating a plant for preparing or storing fuel for use in a nuclear reactor of a kind mentioned in any of items 1 to 9 |  |
| 15 | Decommissioning, disposing of or abandoning a plant that was used for preparing or storing fuel for use in a nuclear reactor of a kind mentioned in any of items 1 to 9 |  |
| 16 | Preparing a site for:  (a) a radioactive waste storage facility that is designed to contain controlled materials with an activity greater than the applicable activity level prescribed by section 10 of the Regulations; or  (b) a radioactive waste disposal facility designed to contain controlled materials and have an activity greater than the applicable activity level prescribed by section 11 of the Regulations |  |
| 17 | Constructing:  (a) a radioactive waste storage facility designed to contain controlled materials and have an activity that is greater than the applicable activity level prescribed by section 10 of the Regulations; or  (b) a radioactive waste disposal facility that is designed to contain controlled materials and have an activity greater than the applicable activity level prescribed by section 11 of the Regulations |  |
| 18 | Possessing or controlling:  (a) a radioactive waste storage facility that contains controlled materials that has an activity greater than the applicable activity level prescribed by section 10 of the Regulations; or  (b) a radioactive waste disposal facility that contains controlled materials that has an activity greater than the applicable activity level prescribed by section 11 of the Regulations |  |
| 19 | Operating a controlled facility, being:  (a) a radioactive waste storage facility that contains controlled materials that has an activity greater than the applicable activity level prescribed by section 10 of the Regulations; or  (b) a radioactive waste disposal facility that contains controlled materials that has an activity greater than the applicable activity level prescribed by section 11 of the Regulations |  |
| 20 | Decommissioning, disposing of or abandoning:  (a) a radioactive waste storage facility that formerly contained controlled materials and had an activity greater than the applicable activity level prescribed by section 10 of the Regulations; or  (b) a radioactive waste disposal facility that formerly contained controlled materials and had an activity that was greater than the applicable activity level prescribed by section 11 of the Regulations |  |
| 21 | Preparing a site for a facility to produce radioisotopes, that is designed to contain controlled materials and have an activity greater than the applicable activity level prescribed by section 12 of the Regulations |  |
| 22 | Constructing a facility to produce radioisotopes, that is designed to contain controlled materials and have an activity greater than the applicable activity level prescribed by section 12 of the Regulations |  |
| 23 | Possessing or controlling a facility producing radioisotopes and containing controlled materials that has an activity greater than the applicable activity level prescribed by section 12 of the Regulations |  |
| 24 | Operating a facility producing radioisotopes and containing controlled materials that has an activity greater than the applicable activity level prescribed by section 12 of the Regulations |  |
| 25 | Decommissioning, disposing of, or abandoning a facility that formerly produced radioisotopes, contained controlled materials and had an activity greater than the applicable activity level prescribed by section 12 of the Regulations |  |

# Section C: Facility details

### Address of the nuclear installation

### Detailed description of the purpose of the nuclear installation

### Detailed description of the nuclear installation and the site

# Section D: Safety Analysis Report

*For each type of authorisation sought a reference must be given to a Safety Analysis Report (SAR). Provide a reference in the space provided to the SAR with the full title and version or edition or (the approval) date of the report. The report must be as* ***complete as possible*** *for each type of authorisation required.*

*Where a space is not applicable as the authorisation is not required as part of this application mark it as ‘N/A’. If applying to prepare a site and construct in the same application then a reference to the SAR must be included under both headings.*

### Prepare a site

### Construct

### Possess or control

### Operate

### Decommission

### Dispose of or abandon

# Section E: Plans & Arrangements

*Describe the plans and arrangements for managing the facility and any associated sources in the space provided or provide clear references to where this information may be found within accompanying documentation.*

## Effective control arrangements

## Safety management plan

## Radiation protection plan

## Radioactive waste management plan

## Security plan

## Emergency plan

## Environment protection plan

## Decommissioning plan

# Section F: Extra information

*Complete the section(s) below corresponding to each type of authorisation required*

1. **Prepare a site for a nuclear installation**

*Provide a detailed site evaluation establishing the suitability of the site for the facility*

*Describe the characteristics of the site, including the extent to which the site may be affected by natural and human events*

*Provide information about any environmental impact statement requested or required by a government agency, and the outcome of the environmental assessment*

1. **Construct a nuclear installation**

*Describe the design of the controlled facility, including ways in which the design deals with the physical and environmental characteristics of the site*

*Describe any fundamental difficulties that will need to be resolved before any future authorisation is given*

*Describe the construction plan and schedule*

*Describe the arrangements for testing and commissioning safety related items*

1. **Possess or control a nuclear installation**

*Describe the arrangements for maintaining criticality safety during loading, moving or storing nuclear fuel and other fissile materials at the facility*

*Describe the arrangements for safe storage of controlled material and maintaining the facility*

1. **Operate a nuclear installation**

*Describe the structures, components, systems and equipment of the facility as they have been constructed*

*Describe the operational limits and conditions of the facility*

*Describe the arrangements for commissioning the facility*

*Describe the arrangements for operating the facility*

*Describe the results of a field exercise to respond to a scenario that involves an emergency and has been agreed with the CEO*

1. **Decommission a nuclear installation**

*Describe the schedule for decommissioning the facility*

1. **Abandon a nuclear installation**

*Describe the results of decommissioning activities at the facility*

*Provide details of any environmental monitoring program proposed for the site*

# Section G: Associated sources

*Is there controlled material and/or controlled apparatus used in connection with the facility?*

*NO - proceed to Section H*  *YES – describe in the space below*

*If yes, identify the codes and standards relevant to the source(s) and describe how compliance will be achieved*

# Section H: Source details

*Complete the Excel Spreadsheet known as the Source Inventory Workbook (SIW) for any sources used in connection with the facility* [*Click here for template*](https://arpansa.govcms.gov.au/sites/g/files/net3086/f/legacy/pubs/regulatory/applications/SourceInventoryWorkbook.xlsx)

Note: For sealed sources, a copy of any sealed source certificate should accompany the application as per item 1(d) of the table in subsection 47(2) of the Regulations.

# Section I: Matters to be taken into account by the CEO

## International best practice in radiation protection and nuclear safety

*Describe how international best practice in radiation protection and nuclear safety will be considered with respect to the kind of facility and type of authorisation(s) sought*

## Information asked for by the CEO

*Confirm that all information asked for by the CEO has been provided*

### Undue Risk

*Provide information to show that there is no undue risk from radiation associated with the facility*

### Net benefit

*Provide information that demonstrates a net benefit from the proposed conduct*

### Optimisation of protection

*Provide information in relation to the proposed conduct to show that the magnitude of individual doses, the number of people exposed, and the likelihood that exposure will happen, are as low as reasonably achievable, having regard to economic and social factors*

### Capacity to comply

*Provide information to show that the applicant has the capacity to comply with the Regulations and any licence conditions that may be imposed*

### Authorised signatory

*Confirm that the application has been signed by an office holder of the applicant or a person authorised by an office holder of the applicant*

# CHECKLIST

|  |  |  |
| --- | --- | --- |
| **Item** | **Check** | **N/A** |
| 1. Completed and signed Section A – Applicant information |  |  |
| 1. Instrument of authorisation for authorised person |  |  |
| 1. Organisational chart showing nominee |  |  |
| 1. Completed Section B – Kind of facility & type of authorisation |  |  |
| 1. Completed Section C – Facility Details |  |  |
| 1. Documents to support Section C |  |  |
| 1. Completed Section D – Safety Analysis Report |  |  |
| 1. Documents to support Section D |  |  |
| 1. Completed Section E – Plans and Arrangements |  |  |
| 1. Documents to support Section E |  |  |
| 1. Completed Section F – Extra Information |  |  |
| 1. Documents to support Section F |  |  |
| 1. Completed Section G – Associated Sources |  |  |
| 1. Documents to support Section G |  |  |
| 1. Completed Section H – SIW |  |  |
| 1. A copy of any sealed source or special form certificates |  |  |
| 1. Completed Section I – Matters to be considered by the CEO |  |  |
| 1. Documents to support Section I |  |  |
| 1. A version of the application suitable for public review   *NOTE: The applicant must include alternative format of all documents (besides pdf) to satisfy* [*Australian Government Web Accessibility guidelines*](http://webguide.gov.au/accessibility-usability/accessibility/) |  |  |
| 1. Appropriate application fee |  |  |

### Submitting the application

Send application form and all supporting documents to [licenceadmin@arpansa.gov.au](mailto:licenceadmin@arpansa.gov.au)

### Application fee

Applicants should refer to section 49 of the Regulations to determine the appropriate application fee. The fee should be paid by cheque or EFT and must be received before the application can be assessed.

1. A copy of the instrument of authorisation must accompany the application if it has been signed by an authorised delegate. [↑](#footnote-ref-1)