



# **Country Waste Profile Report for INDONESIA Reporting Year: 2008**

*For guidance on reading Country Waste Profile Reports,  
please refer to the following internet based document:*

*<http://www-newmdb.iaea.org/help/profiles9/guide.pdf>*

*For further information, please contact the Responsible Officer via e-mail:  
[NEWMDB@IAEA.org](mailto:NEWMDB@IAEA.org)*

## Waste Classification Schemes

Country: INDONESIA

Reporting Year: 2008

Waste Class Matrix: **IAEA Def.**

This country does use the IAEA Scheme: No

Description: The Agency's standard matrix

| Waste Class Name | Distribution % |         |       |
|------------------|----------------|---------|-------|
|                  | LILW-SL        | LILW-LL | HLW   |
| LILW-SL          | 100.0          | 0.0     | 0.0   |
| LILW-LL          | 0.0            | 100.0   | 0.0   |
| HLW              | 0.0            | 0.0     | 100.0 |

Waste Class Matrix: **National**

Yes

Description: LILW means LILW-SL in IAEA definition. Alpha Waste for unsealed LILW-LL, and HLW for spent fuels.

| Waste Class Name | Distribution % |       |       |       |
|------------------|----------------|-------|-------|-------|
|                  | VLLW           | LLW   | ILW   | HLW   |
| LILW             | 0.0            | 100.0 | 0.0   | 0.0   |
| Alpha Waste      | 0.0            | 0.0   | 100.0 | 0.0   |
| HLW              | 0.0            | 0.0   | 0.0   | 100.0 |

Comment **# 182: Waste classification**

Not declared clearly on:

- (1) Batan, Regulation for safety of Radwaste Management, 1986
- (2) Bapeten, Regulation for safety of Radwaste Management, No.3/V-99.
- (3) Act. No.10/1997 on Nuclear Energy.

The definition adapted from above regulation and radwaste management practice in Indonesia. Formally, government regulation is important to state clearly the above waste classification.

**Definition of «unprocessed waste» and «processed waste»:**

This country uses the following definitions:

|                    | as-generated waste | processed for handling | processed for storage | processed for disposal |
|--------------------|--------------------|------------------------|-----------------------|------------------------|
| Unprocessed means: | x                  | x                      |                       |                        |
| Processed means:   |                    |                        | x                     | x                      |

## Groups Overview

Country: INDONESIA

Reporting Year: 2008

|                           |   |
|---------------------------|---|
| <b>Reporting Group:</b>   | <b>Serpong</b>  |
| Inventory Reporting Date: | December 2008   |
| Waste Matrix Used:        | National  |
| Description:              | Reporting group located at Radioactive Waste Management Development Center, Serpong Research Establishment, BATAN |

| Site Name | Facility Name | Facilities Defined |         |          |
|-----------|---------------|--------------------|---------|----------|
| RWMDC     | ENSF          |                    |         | disposal |
|           | HAW-IS        |                    | storage |          |
|           | IS            |                    | storage |          |
|           | RCF           | processing         |         |          |
|           | RWI           | processing         |         |          |

## Site (Structure) : RWMDC

Country: INDONESIA

Reporting Year: 2008

Full Name: Radioactive Waste Management Development Center, BATAN

Description:

Official Website:

License Holder(s): Radioactive Waste Management Development Center, BATAN

Waste management facilities that are located at this site:

|  |   |                     |                 |
|--|---|---------------------|-----------------|
| <b>Facility:</b>   | <b>ENSF</b>                               |                     |                 |
| <b>Description:</b>  | Engineered Near Surface Disposal Facility |                     |                 |
| <b>Disposal part of facility</b>                               |   |                     |                 |
| The following shows disposal status for waste classes and SRS. |   |                     |                 |
| <b>Waste Class</b>   | <b>Actual</b>                             | <b>Planned</b>      |                 |
| LILW   | No  | No                  |                 |
| Alpha Waste  | No  | No                  |                 |
| HLW  | No  | No                  |                 |
| <b>List SRS?</b>   | #Error                                    |                     |                 |
| <b>List UMMT?</b>  | #Error                                    |                     |                 |
| <b>Type:</b>   |   |                     |                 |
| <b>Facility is modular?</b>                                    | #Error                                    |                     |                 |
| <b>Depth (m):</b>  |   | <b>Host medium:</b> |                 |
| <b>Phase Name</b>  | <b>Start Year</b>                         | <b>End Year</b>     | <b>Estimate</b> |

## Site (Structure) : RWMDC

Country: INDONESIA

Reporting Year: 2008

|   |  |                    |                |              |                 |                      |
|---|--|--------------------|----------------|--------------|-----------------|----------------------|
| <b>Facility:</b>  | <b>HAW-IS</b>  |                    |                |              |                 |                      |
| <b>Description:</b>   | Interim Storage for high active waste (HAW). The HAW mainly are fission products that generated from the Isotope Production Center. This facility is a place for delaying and reducing radiation exposure of the HAW for treatment |                    |                |              |                 |                      |
| <b>Storage part of facility</b>                               |  | <b>HAW-IS</b>      |                |              |                 |                      |
| The following shows storage status for waste classes and SRS. |  |                    |                |              |                 |                      |
| <b>Waste Class</b>  | <b>Actual</b>  | <b>Planned</b>     |                |              |                 |                      |
| LILW  | Yes  | Yes                |                |              |                 |                      |
| Alpha Waste   | Yes  | Yes                |                |              |                 |                      |
| HLW   | No   | No                 |                |              |                 |                      |
| <b>List SRS?</b>  | Yes  |                    |                |              |                 |                      |
| <b>List UMMT?</b>   | No   |                    |                |              |                 |                      |
| <b>Capacity:</b>  | Consists of 2 type of storages, pool and well storages. The pool type has 3 pools, each has a 3mx4mx3.6m dimension. The well storage has 20 wells and each well can contain 6 x 60 litres waste containers.                        |                    |                |              |                 |                      |
| <b>Types of Storage Units</b>                                 |  |                    |                |              |                 |                      |
| <b>Storage Unit Name</b>                                      | <b>Type Name</b>   | <b>Year Opened</b> | <b>Closed?</b> | <b>Full?</b> | <b>Modular?</b> | <b>Contains SRS?</b> |
| Pool  | pool   | 1997               | No             | No           | No              | Yes                  |
| Well  | well   | 1997               | No             | No           | No              | Yes                  |

## Site (Structure) : RWMDC

Country: INDONESIA

Reporting Year: 2008

|                     |   |
|---------------------|---|
| <b>Facility:</b>    | <b>IS</b>   |
| <b>Description:</b> | The IS facility is for storing conditioned waste before disposal. There are 2 modules: IS-1 and IS-2. |

**Storage part of facility IS**

The following shows storage status for waste classes and SRS.

| Waste Class | Actual | Planned |
|-------------|--------|---------|
| LILW        | Yes    | Yes     |
| Alpha Waste | Yes    | Yes     |
| HLW         | No     | No      |

|                   |     |
|-------------------|-----|
| <b>List SRS?</b>  | Yes |
| <b>List UMMT?</b> | No  |

|                  |   |
|------------------|---|
| <b>Capacity:</b> | Design capacity of each module is 1500 units of 200L drum and 500 units of 950L/350L shell. |
|------------------|---|

## Types of Storage Units

| Storage Unit Name | Type Name | Year Opened | Closed? | Full? | Modular? | Contains SRS? |
|-------------------|-----------|-------------|---------|-------|----------|---------------|
| IS-1              | building  | 1989        | No      | No    | Yes      | Yes           |
| IS-2              | building  | 2003        | No      | No    | Yes      | No            |

## Site (Structure) : RWMDC

Country: INDONESIA

Reporting Year: 2008

| <b>Facility:</b>   | <b>RCF</b>  |         |         |      |    |    |             |    |    |     |    |    |  |
|--|---|---------|---------|------|----|----|-------------|----|----|-----|----|----|--|
| <b>Description:</b>  | Radium Conditioning Facility (RCF) is facility for conditioning of Spent Radium Sources |         |         |      |    |    |             |    |    |     |    |    |  |
| <b>Processing part of facility</b>   |   |         |         |      |    |    |             |    |    |     |    |    |  |
| The following shows processing status for waste classes and SRS.   |   |         |         |      |    |    |             |    |    |     |    |    |  |
| <table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>LILW</td><td>No</td><td>No</td></tr><tr><td>Alpha Waste</td><td>No</td><td>No</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table> | Waste Class   | Actual  | Planned | LILW | No | No | Alpha Waste | No | No | HLW | No | No |  |
| Waste Class  | Actual  | Planned |         |      |    |    |             |    |    |     |    |    |  |
| LILW   | No  | No      |         |      |    |    |             |    |    |     |    |    |  |
| Alpha Waste  | No  | No      |         |      |    |    |             |    |    |     |    |    |  |
| HLW  | No  | No      |         |      |    |    |             |    |    |     |    |    |  |
| <b>Type:</b>   |   |         |         |      |    |    |             |    |    |     |    |    |  |
| <b>Year opened:</b>  |   |         |         |      |    |    |             |    |    |     |    |    |  |

## Site (Structure) : RWMDC

Country: INDONESIA

Reporting Year: 2008

|  |   |                |  |
|--|---|----------------|--|
| <b>Facility:</b>   | <b>RWI</b>  |                |  |
| <b>Description:</b>  | Radioactive Waste Installation (RWI) is installation for processing radioactive waste such as, volume reduction and conditioning. |                |  |
| <br>   |   |                |  |
| <b>Processing part of facility</b>                               | <b>RWI</b>  |                |  |
| The following shows processing status for waste classes and SRS. |   |                |  |
| <b>Waste Class</b>   | <b>Actual</b>   | <b>Planned</b> |  |
| LILW   | No  | No             |  |
| Alpha Waste  | No  | No             |  |
| HLW  | No  | No             |  |
| <b>Type:</b>   | Treatment, Conditioning   |                |  |
| <b>Year opened:</b>  | 1989  |                |  |



## Site (Data) : RWMDC

Stock of waste as at December 2008

Country: INDONESIA

Reporting Year: 2008

**Site Name:** RWMDC

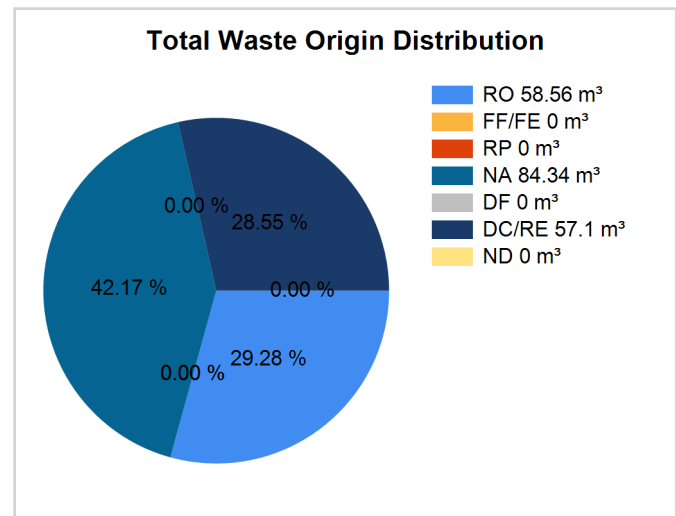
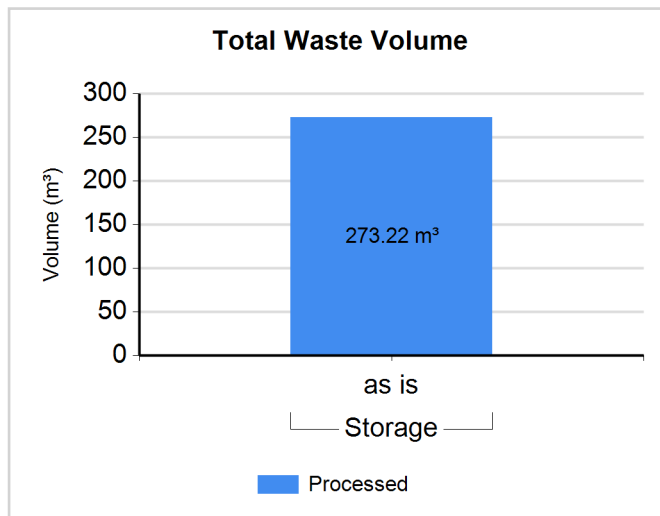
Full Name: Radioactive Waste Management Development Center, BATAN

Inventory Reporting Date: December 2008

Waste Matrix Used: National

**Waste Inventory**

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

**Waste Class:** LILW

| Waste Class Name | Location / Facility | Proc | Est. | Volume "as is" (m³) | Volume "as dispo" (m³) | RO %  | FF/FE % | RP % | NA %  | DF % | DC/RE % | ND % |
|------------------|---------------------|------|------|---------------------|------------------------|-------|---------|------|-------|------|---------|------|
| LILW             | Storage             | Y    | Y    | 195.820             | 195.820                | 58.56 | 0.00    | 0.00 | 41.44 | 0.00 | 0.00    | 0.00 |

**Waste Class:** Alpha Waste

| Waste Class Name | Location / Facility | Proc | Est. | Volume "as is" (m³) | Volume "as dispo" (m³) | RO % | FF/FE % | RP % | NA %  | DF % | DC/RE % | ND % |
|------------------|---------------------|------|------|---------------------|------------------------|------|---------|------|-------|------|---------|------|
| Alpha Waste      | Storage             | Y    | Y    | 77.400              | 77.400                 | 0.00 | 0.00    | 0.00 | 42.90 | 0.00 | 57.10   | 0.00 |

**Processing - Treatment method(s)**

| Method                 | Status  |             |   |               |
|------------------------|---------|-------------|---|---------------|
|                        | Planned | R&D program | Current practice method use over the last 5 years | Past Practice |
| Chemical Precipitation | Y       | N           |   | N             |
| Compaction             | N       | N           | Same  | N             |
| Decontamination        | N       | N           | Same  | N             |
| Evaporation            | N       | N           | Same  | N             |
| Incineration           | N       | N           | Same  | N             |
| Membrane Technology    | N       | Y           |   | N             |

## Site (Data) : RWMDC

Stock of waste as at December 2008

Country: INDONESIA

Reporting Year: 2008

## Processing - Conditioning method(s)

| Method        | Status  |             |   |               |
|---------------|---------|-------------|---|---------------|
|               | Planned | R&D program | Current practice method use over the last 5 years | Past Practice |
| Cementation   | N       | N           | Same  | N             |
| Vitrification | N       | Y           |   | N             |

## Spent Sources &lt;=30 years in Storage

| Nuclide | Number of Sources/Total Activity of Sources (GBq) |  |                             | c | u | c | Total Activity for all Groups (GBq) | Decay Date |
|---------|---|--|-----------------------------|---|---|---|-------------------------------------|------------|
|         | Group I less than or equal 4GBq                   | Group II more than 4GBq but less than or equal 4E+4GBq | Group III more than 4E+4GBq |   |   |   |                                     |            |
|         | num/activity                                      | num/activity   | num/activity                |   |   |   |                                     |            |
| Cd-109  | 4   |  |                             | Y | Y | Y | 3.200E-001                          | 2008.12    |
|         | 3.200E-001  |  |                             |   |   |   |                                     |            |
| Cf-252  | 6   |  |                             | Y | N | Y | 2.700E+000                          | 2006.12    |
|         | 2.700E+000  |  |                             |   |   |   |                                     |            |
| Cm-244  | 2   | 2  |                             | N | Y | Y | 3.920E+001                          | 2006.12    |
|         | 2.200E+000  | 3.700E+001   |                             |   |   |   |                                     |            |
| Co-60   | 53  | 122  | 4                           | Y | Y | Y | 8.800E+005                          | 2008.12    |
|         | 7.800E+000  | 6.200E+005   | 2.600E+005                  |   |   |   |                                     |            |
| Cs-137  | 155   | 79   | 3                           | Y | Y | Y | 1.921E+005                          | 2008.12    |
|         | 7.500E+001  | 3.200E+004   | 1.600E+005                  |   |   |   |                                     |            |
| Fe-55   | 5   |  |                             | Y | Y | Y | 5.800E+000                          | 2007.12    |
|         | 5.800E+000  |  |                             |   |   |   |                                     |            |
| Ir-192  | 28  | 1  |                             | Y | N | Y | 2.800E+002                          | 2005.12    |
|         | 3.700E-002  | 2.800E+002   |                             |   |   |   |                                     |            |
| Kr-85   | 13  | 55   |                             | Y | Y | Y | 4.500E+004                          | 2008.12    |
|         | 1.500E-001  | 4.500E+004   |                             |   |   |   |                                     |            |
| Pm-147  | 7   | 16   |                             | N | Y | Y | 9.907E+001                          | 2008.12    |
|         | 6.800E-002  | 9.900E+001   |                             |   |   |   |                                     |            |
| Sr-90   | 226   |  |                             | Y | Y | Y | 1.300E+002                          | 2008.12    |
|         | 1.300E+002  |  |                             |   |   |   |                                     |            |

## Site (Data) : RWMDC

Stock of waste as at December 2008

Country: INDONESIA

Reporting Year: 2008

**Spent Sources > 30 years in Storage**

| Nuclide | Number of Sources/Total Activity of Sources (GBq) |                            | c<br>o<br>n<br>d | u<br>n<br>c<br>o<br>n<br>d | c<br>a<br>t | Total<br>Activity for<br>all Groups<br>(GBq) | Decay Date |
|---------|---|----------------------------|------------------|----------------------------|-------------|--|------------|
|         | Group I less than or<br>equal 2 GBq               | Group II more than<br>2GBq |                  |                            |             |  |            |
|         | num/activity                                      | num/activity               |                  |                            |             |  |            |
| Am-241  | 2   |                            | N                | Y                          | Y           | 2.900E+000                                   | 2008.12    |
|         | 2.900E+000  |                            |                  |                            |             |  |            |
| Am-241  | 41  | 38                         | Y                | Y                          | Y           | 4.011E+003                                   | 2008.12    |
|         | 1.100E+001  | 4.000E+003                 |                  |                            |             |  |            |
| Ra-226  | 934   | 7                          | Y                | N                          | Y           | 1.250E+002                                   | 2007.12    |
|         | 1.100E+002  | 1.500E+001                 |                  |                            |             |  |            |

**Regulators**

Country: INDONESIA

Reporting Year: 2008

|               |                                  |
|---------------|----------------------------------|
| <b>Name:</b>  | <b>NERA</b>                      |
| Full Name:    | Nuclear Energy Regulatory Agency |
| Divison:      | -                                |
| City or Town: | Jakarta                          |
| Main Website: |                                  |

## Regulations / Laws

Country: INDONESIA

Reporting Year: 2008

|                                 |                       |     |  |
|---------------------------------|-----------------------|-----|--|
| <b>Name:</b>                    | <b>Act</b>            |     |  |
| Title or Name:                  | Act on Nuclear Energy |     |  |
| Reference Number:               | No.10 year 1997       |     |  |
| Date Promulgated or Proclaimed: | 4/10/1997             | Law |  |

|                                 |   |            |  |
|---------------------------------|---|------------|--|
| <b>Name:</b>                    | <b>GR-1</b>   |            |  |
| Title or Name:                  | Government's Regulation on Radioactive Waste Management |            |  |
| Reference Number:               | No. 27 year: 2002                                       |            |  |
| Date Promulgated or Proclaimed: | 5/13/2002   | Regulation |  |

|                                 |  |            |  |
|---------------------------------|--|------------|--|
| <b>Name:</b>                    | <b>GR-2</b>  |            |  |
| Title or Name:                  | Government's Regulation for Safety for Transportation of Radioactive Substance |            |  |
| Reference Number:               | No. 26 Year 2002   |            |  |
| Date Promulgated or Proclaimed: | 5/13/2002  | Regulation |  |

**Milestones**

Country: INDONESIA

Reporting Year: 2008

|  |      |           |      |
|--|------|-----------|------|
| Start Year or Reference Year:                              | 2003 | End Year: | 2008 |
| Description of Milestone:                                  |      |           |      |
| National facility for non power reactor generated radwaste |      |           |      |

## Policies

Country: INDONESIA

Reporting Year: 2008

## National Systems

| <b>Policy</b>           |   | <b>(Yes;Partially;No)</b>    |
|-------------------------|---|------------------------------|
| Q14                     | Has your Country implemented a national policy for radioactive waste management?  | Yes                          |
| <b>Strategies</b>       |   | <b>(Yes;Partially;No)</b>    |
| Q15                     | Has your country developed strategies to implement a national policy?   | Partially                    |
| <b>Requirements</b>     |   | <b>(Yes;Partially;No)</b>    |
| Q17                     | identified the parties involved in the different steps of radioactive waste management  | Yes                          |
| Q18                     | specified a rational set of safety, radiological and environmental protection objectives  | Yes                          |
| Q19                     | implemented a mechanism to identify existing and anticipated radioactive wastes   | Yes                          |
| Q20                     | implemented controls over radioactive waste generation  | Yes                          |
| Q21                     | identified available methods and facilities to process, store and dispose of radioactive waste on an appropriate time-scale   | Partially                    |
| Q22                     | taken into account interdependencies among all steps in radioactive waste generation and management   | Yes                          |
| Q23                     | implemented appropriate research and development to support the operational and regulatory needs  | Yes                          |
| Q24                     | implemented a funding structure and the allocation of resources that are essential for radioactive waste management   | Partially                    |
| Q25                     | implemented formal mechanisms for disseminating information to the public and for public consultation   | Partially                    |
| <b>Responsibilities</b> |   | <b>(Complete;Incomplete)</b> |
| Q28                     | establish and implement a legal framework for the management of radioactive waste   | Incomplete                   |
| Q29                     | establish or designate a regulatory body that has the responsibility for carrying out the regulatory function with regard to safety and the protection of human health and the environment. | Complete                     |
| Q30                     | define the responsibilities of waste generators and operators of waste management facilities  | Complete                     |
| Q31                     | provide for adequate resources  | Incomplete                   |
| Q33                     | enforce compliance with regulatory requirements   | Complete                     |
| Q34                     | implement the licensing process   | Complete                     |
| Q35                     | advise the government   | Complete                     |
| Q37                     | identify an acceptable destination for the radioactive waste  | Complete                     |
| Q114                    | comply with legal requirements  | Complete                     |

## Policies

Country: INDONESIA

Reporting Year: 2008

| Activities |  | (Yes;Partially;No) |
|------------|--|--------------------|
| Q43        | perform safety and environmental impact assessments for radioactive waste management facilities  | Yes                |
| Q44        | ensure adequate radiation protection for workers, the general public and the environment   | Yes                |
| Q45        | ensure suitable staff, equipment, facilities, training and operating procedures are available to perform the safe radioactive waste management steps                               | Yes                |
| Q46        | establish and implement a quality assurance programme for the radioactive waste generated or its processing, storage and disposal  | Yes                |
| Q47        | establish and keep records of appropriate information regarding the generation, processing, storage and disposal of radioactive waste, including an inventory of radioactive waste | Yes                |
| Q48        | provide surveillance and control of activities involving radioactive waste as required by the regulatory body  | Yes                |
| Q49        | collect, analyze and, as appropriate, share operational experience to ensure continued safety improvements in radioactive waste management   | Yes                |
| Q50        | conduct or otherwise ensure appropriate research and development to support operational needs in radioactive waste management  | Yes                |

| Clearance |   | (Yes;No) |
|-----------|---|----------|
| Q128      | Does your country have "clearly defined clearance levels based on radiological criteria, with policy statements that material below those levels can be recycled or disposed of with non-radioactive wastes"? | No       |
| Q129      | Has your country ever used a "case-by-case" approach to clearing radioactive wastes (excluding spent/disused sealed radioactive sources)?   | Yes      |
| Q130      | Has your country ever used clearance levels to dispose of, reuse or recycle radioactive waste as non-radioactive waste or as a non-radioactive resource (excluding spent/disused sealed radioactive sources)? | No       |



## Policies

Country: INDONESIA

Reporting Year: 2008

**Disposal Facilities**

| <b>Licensing</b>    |  | <b>(Yes - All;Yes - Some;No)</b> |
|---------------------|--|----------------------------------|
| Q53                 | Environmental Assessment (EA)  | Yes - All                        |
| Q54                 | Environmental Impact Statement (EIS)   | Yes - All                        |
| Q55                 | Performance Assessment (PA)  | Yes - All                        |
| Q56                 | Quality Assurance (QA)   | Yes - All                        |
| Q57                 | Safety Assessment (SA)   | Yes - All                        |
| Q59                 | If Quality Assurance is part of your Country's current, waste disposal facility licensing policy, does the QA Program conform to international standards (such as the ISO9000 series)? | Yes - Some                       |
| <b>Operation</b>    |  | <b>(Yes - All;Yes - Some;No)</b> |
| Q60                 | Does your Country have formal, documented waste acceptance criteria for its operating or proposed disposal facilities?   | No                               |
| <b>Post-Closure</b> |  | <b>(Yes;No)</b>                  |
| Q61                 | Does your Country have any written policies to address the maintenance of records that describe the design, location and inventory of waste disposal facilities?                       | No                               |
| Q63                 | Does your Country have any written policies to address active institutional controls or passive institutional controls, such as monitoring or access restrictions?                     | No                               |

## Policies

Country: INDONESIA

Reporting Year: 2008

**Processing/Storage**

| <b>Policies/Procedures</b> |  | <b>(Yes;No)</b> |
|----------------------------|--|-----------------|
| Q73                        | waste sorting/segregation  | Yes             |
| Q74                        | waste minimization   | Yes             |
| Q75                        | waste storage  | Yes             |
| Q76                        | processing and/or storing and/or disposing of nuclear fuel cycle waste separately from non-nuclear fuel cycle waste (also known as nuclear applications waste) | Yes             |
| Q78                        | Does your country have any legislation, regulation, or policy that waste processing must take place prior to storage (see following note)                      | Yes             |
| <b>Implementation</b>      |  | <b>(Yes;No)</b> |
| Q80                        | In your Country are there any waste processing facilities at the same location where the waste is generated?   | Yes             |
| Q81                        | In your Country are there any centralized waste processing facilities?   | Yes             |
| Q82                        | In your Country are there any mobile waste processing facilities?  | No              |
| <b>Foreign</b>             |  | <b>(Yes;No)</b> |
| Q121                       | Has your country sent any wastes or spent fuel to another country for processing (reprocessing for fuel)?  | No              |
| Q124                       | Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)?  | No              |

## Policies

Country: INDONESIA

Reporting Year: 2008

## Spent/Disused SRS

| Registration       |   | (Yes;No) |
|--------------------|---|----------|
| Q84                | Is there a national level registry?   | Yes      |
| Q85                | If answer was yes, is the registry used only for disused/spent SRS?   | No       |
| Q87                | Are there regional-level registries (one or more)?  | No       |
| Q90                | Are there local-level registries (one or more)?   | No       |
| Procedures         |   | (Yes;No) |
| Q91                | Does your Country have documented procedures in place to ensure that sealed radioactive sources (SRS) are transferred to secure facilities in a timely manner after their user declares them to be spent? | Yes      |
| Agreements         |   | (Yes;No) |
| Q93                | Government to Government agreements   | No       |
| Q94                | Government - Supplier agreements  | No       |
| Q95                | Supplier-User agreements  | Yes      |
| Q97                | Do any agreements include suppliers that are outside of your Country?   | Yes      |
| Release / Disposal |   | (Yes;No) |
| Q99                | Does your Country have any regulations to free-release spent sealed radioactive sources (SRS)?  | No       |
| Q100               | Has your Country disposed of spent SRS in existing disposal facilities for LILW or HLW waste?   | No       |
| Q101               | Does your Country plan to dispose of spent SRS in existing or planned disposal facilities for LILW or HLW waste?  | Yes      |
| Q102               | Has your Country implemented dedicated disposal facilities for spent SRS?   | No       |
| Q103               | Does your Country have plans to implement dedicated disposal facilities for spent SRS?  | No       |

## Import-Export

| Radioactive Waste |   | (Yes;No) |
|-------------------|---|----------|
| Q104              | Does your Country have laws or Regulations restricting either the import or export of radioactive waste (excluding spent fuel)? | Yes      |
| Spent Fuel        |   | (Yes;No) |
| Q105              | Does your Country have laws or Regulations restricting either the import or export of spent fuel?                               | Yes      |

Comment # 367: Export Spent Fuels

We have no regulation for restricting of spent fuels export. Until now we do repatriate spent fuel from our research reactors to USA.

## Policies

Country: INDONESIA

Reporting Year: 2008

**Liquid HLW****Storage****(Yes;No)**

Q106 Does your Country have high-level liquid wastes in storage? No

**UMMT****Responsibility****(Yes;No)**

Q110 Does your Country have any Uranium Mine and Mill Tailings sites that do not have a designated authority to manage them? No

**Decommissioning****Funding****(Yes - All;Yes - Some;No)**

Q111 Does your Country require that funds should be set aside in support of future waste management activities, such as decommissioning activities? Yes - All

**Facilities****(Yes;No)**

Q119 Does Your Country have any nuclear fuel cycle facilities? Yes

Q120 Does Your Country have any nuclear applications facilities (non fuel cycle facilities)? Yes

**Timeframe****(Yes - All;Yes - Some;No)**

Q112 Does your Country require a time frame for the decommissioning of nuclear fuel cycle facilities once these facilities cease operation? Yes - Some

Q113 Does your Country require a time frame for the decommissioning of non-nuclear fuel cycle facilities once these facilities cease operation? Yes - Some

## Future Outlook

Country: INDONESIA

Reporting Year: 2008

**Data not available.**

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Reporting Year: 2008

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