

Site (Data) : Püspökszil

Stock of waste as at December 2007

Country: HUNGARY

Reporting Year: 2007

Site Name: Püspökszil

Full Name: Radioactive Waste Treatment and Disposal Facility

Inventory Reporting Date: December 2007

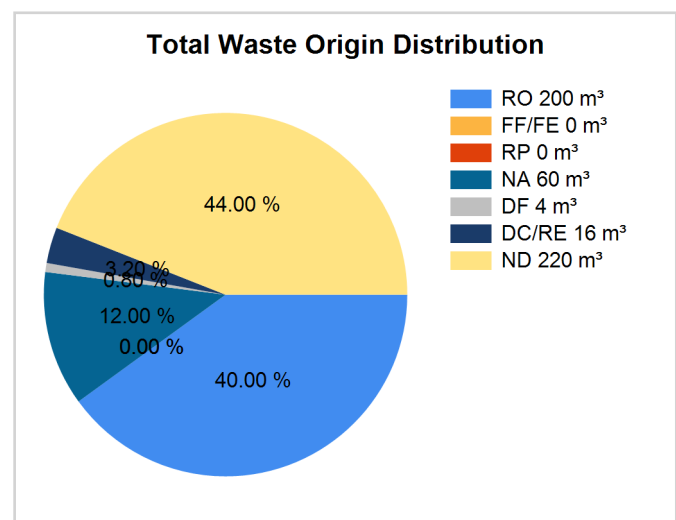
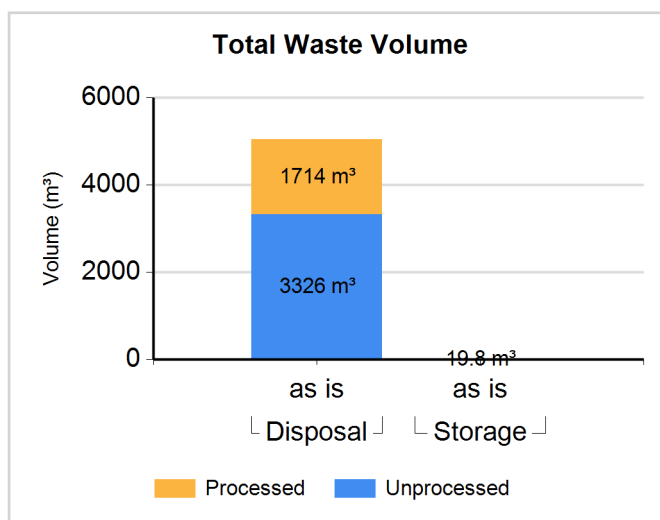
Waste Matrix Used: PURAM

Comment # 339: Percentage of Capacity Used

The percentage of disposal facility capacity used takes in to consideration the volume of waste plus losses due to voids, buffer and backfill materials

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-SL

| 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-SL | Disposal | N | N | 1330.000 | 1330.000 | 20.00 | 0.00 | 0.00 | 20.00 | 2.00 | 8.00 | 50.00 |
| LILW-SL | Disposal | Y | N | 685.000 | 685.000 | 80.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 |

Waste Class: LILW-LL

| 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-LL | Storage | N | N | 19.800 | 19.800 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 80.00 |
| LILW-LL | Disposal | N | N | 1996.000 | 1996.000 | 20.00 | 0.00 | 0.00 | 20.00 | 2.00 | 8.00 | 50.00 |
| LILW-LL | Disposal | Y | N | 1029.000 | 1029.000 | 80.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 |

Processing - Treatment method(s)

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

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Processing - Conditioning method(s)

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

Spent Sources <=30 years in Disposition

| Nuclide | Number of Sources/Total Activity of Sources (GBq) | | | c o n d | u n c o n d | c a t | 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 | | | | | |
| Co-60 | 6988 | 447 | | Y | Y | N | 4.505E+005 | |
| | 4.500E+002 | 4.500E+005 | | | | | | |
| Cs-137 | 2844 | 269 | | N | Y | N | 1.500E+004 | |
| | 1.000E+003 | 1.400E+004 | | | | | | |
| H-3 | 1637 | 609 | | Y | Y | N | 1.308E+005 | |
| | 8.000E+002 | 1.300E+005 | | | | | | |
| Ir-192 | 4662 | 91 | | Y | N | N | 3.920E+003 | |
| | 1.200E+002 | 3.800E+003 | | | | | | |
| Kr-85 | 7195 | 3 | | Y | Y | N | 1.240E+002 | |
| | 1.100E+002 | 1.400E+001 | | | | | | |
| Pm-147 | 713 | | | N | Y | N | 2.000E+001 | |
| | 2.000E+001 | | | | | | | |
| Po-210 | 531 | | | N | Y | N | 8.100E-008 | |
| | 8.100E-008 | | | | | | | |
| Sr-90 | 1288 | 64 | | Y | N | N | 2.924E+004 | |
| | 2.400E+002 | 2.900E+004 | | | | | | |
| Tm-170 | 117 | | | N | Y | N | 5.000E-012 | |
| | 5.000E-012 | | | | | | | |

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Spent Sources > 30 years in Disposition

| Nuclide | Number of Sources/Total Activity of Sources (GBq) | | c o n d | u n c o n d | c a t | Total Activity for all Groups (GBq) | Decay Date |
|---------|---|----------------------------|------------------|----------------------------|-------------|--|------------|
| | Group I less than or equal 2 GBq | Group II more than 2GBq | | | | | |
| | num/activity | num/activity | | | | | |
| Am-241 | 7517 | 63 | N | Y | N | 1.920E+003 | |
| | 2.200E+002 | 1.700E+003 | | | | | |
| Am-241 | 60 | 66 | N | Y | N | 1.211E+004 | |
| | 1.100E+002 | 1.200E+004 | | | | | |
| C-14 | 152 | | Y | N | N | 1.000E+001 | |
| | 1.000E+001 | | | | | | |
| Pu-238 | 74 | 1 | N | Y | N | 1.160E+002 | |
| | 2.500E+001 | 9.100E+001 | | | | | |
| Pu-238 | 3 | 3 | N | Y | N | 8.310E+002 | |
| | 1.000E+000 | 8.300E+002 | | | | | |
| Pu-239 | 520 | 1 | N | Y | N | 1.230E+001 | |
| | 2.600E+000 | 9.700E+000 | | | | | |
| Ra-226 | 1669 | 2 | Y | N | N | 2.230E+002 | |
| | 2.000E+002 | 2.300E+001 | | | | | |
| Ra-226 | 29 | 12 | N | Y | N | 1.580E+002 | |
| | 3.800E+001 | 1.200E+002 | | | | | |
| Tc-99 | 3091 | | N | Y | N | 1.900E+002 | |
| | 1.900E+002 | | | | | | |