

Site (Data) : RWMF

Stock of waste as at December 2009

Country: CUBA

Reporting Year: 2009

Site Name: RWMF

Full Name: Radioactive Waste Management Facility

Inventory Reporting Date: December 2009 Waste Matrix Used: Waste Cuba

Comment # 181: RWMF

Radioactive Waste Management Facility belongs to the Center for Radiation Protection and Hygiene, which is the License Holder

Processing - Treatment method(s)

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

Processing - Conditioning method(s)

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

Spent Sources <=30 years in Storage

| 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 | | | | | |
| Ba-133 | 6 | | | Y | N | Y | 0.000E+000 | |
| | 0.000E+000 | | | | | | | |
| Cf-252 | 6 | | | N | Y | Y | 6.000E-001 | |
| | 6.000E-001 | | | | | | | |
| Co-60 | | | 4 | Y | N | Y | 1.300E+006 | |
| | | | 1.300E+006 | | | | | |
| Co-60 | | 6 | 15 | N | Y | Y | 4.010E+006 | |
| | | 2.100E+005 | 3.800E+006 | | | | | |
| Co-60 | | 6 | | N | Y | Y | 9.600E+003 | |
| | | 9.600E+003 | | | | | | |

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| | | | | | | | | |
|--------|------------|------------|--|---|---|---|------------|--|
| Co-60 | 5 | 5 | | Y | N | Y | 5.800E+002 | |
| | 2.000E+001 | 5.600E+002 | | | | | | |
| Co-60 | | 3 | | N | Y | Y | 1.970E+002 | |
| | | 1.970E+002 | | | | | | |
| Co-60 | 51 | 41 | | Y | N | Y | 3.900E+002 | |
| | 1.200E+002 | 2.700E+002 | | | | | | |
| Co-60 | 21 | | | N | Y | Y | 4.140E+001 | |
| | 4.140E+001 | | | | | | | |
| Co-60 | 155 | | | Y | N | Y | 8.300E+000 | |
| | 8.300E+000 | | | | | | | |
| Co-60 | 98 | | | N | Y | Y | 9.000E-001 | |
| | 9.000E-001 | | | | | | | |
| Cs-137 | | 5 | | Y | N | Y | 5.600E+004 | |
| | | 5.600E+004 | | | | | | |
| Cs-137 | 1 | 99 | | Y | N | Y | 2.200E+004 | |
| | 2.000E-001 | 2.200E+004 | | | | | | |
| Cs-137 | | 17 | | N | Y | Y | 2.900E+003 | |
| | | 2.900E+003 | | | | | | |
| Cs-137 | 4 | 365 | | Y | N | Y | 4.602E+004 | |
| | 1.500E+001 | 4.600E+004 | | | | | | |
| Cs-137 | 1 | 10 | | N | Y | Y | 1.734E+003 | |
| | 4.000E+000 | 1.730E+003 | | | | | | |
| Cs-137 | 137 | 82 | | Y | N | Y | 1.430E+003 | |
| | 2.300E+002 | 1.200E+003 | | | | | | |
| Cs-137 | 7 | | | N | Y | Y | 1.790E+001 | |
| | 1.790E+001 | | | | | | | |
| Cs-137 | 144 | | | Y | N | Y | 2.100E+001 | |
| | 2.100E+001 | | | | | | | |
| Cs-137 | 40 | | | N | Y | Y | 1.710E+000 | |
| | 1.710E+000 | | | | | | | |

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|--------|------------|------------|--|---|---|---|------------|--|
| Eu-152 | 2 | | | Y | N | Y | 4.400E-004 | |
| | 4.400E-004 | | | | | | | |
| Eu-154 | 2 | | | Y | N | Y | 2.100E+000 | |
| | 2.100E+000 | | | | | | | |
| Eu-154 | 1 | | | N | Y | Y | 2.000E-004 | |
| | 2.000E-004 | | | | | | | |
| Eu-155 | 1 | | | N | Y | Y | 0.000E+000 | |
| | 0.000E+000 | | | | | | | |
| H-3 | 18 | | | Y | N | Y | 5.000E+001 | |
| | 5.000E+001 | | | | | | | |
| H-3 | 53 | | | N | Y | Y | 2.000E-003 | |
| | 2.000E-003 | | | | | | | |
| Hg-203 | 2 | | | Y | N | Y | 1.500E-003 | |
| | 1.500E-003 | | | | | | | |
| Hg-203 | 2 | | | N | Y | Y | 3.000E-003 | |
| | 3.000E-003 | | | | | | | |
| Kr-85 | 2 | | | Y | N | Y | 4.600E+000 | |
| | 4.600E+000 | | | | | | | |
| Kr-85 | 1 | 1 | | N | Y | Y | 1.700E+001 | |
| | 2.000E+000 | 1.500E+001 | | | | | | |
| Kr-85 | 15 | | | Y | N | Y | 0.000E+000 | |
| | 0.000E+000 | | | | | | | |
| Kr-85 | 1681 | | | N | Y | Y | 1.830E+000 | |
| | 1.830E+000 | | | | | | | |
| Pb-210 | 70 | | | Y | N | Y | 2.000E-003 | |
| | 2.000E-003 | | | | | | | |
| Sr-90 | 199 | 2 | | Y | N | Y | 5.800E+002 | |
| | 1.700E+002 | 4.100E+002 | | | | | | |
| Sr-90 | 46 | | | N | Y | Y | 4.220E+001 | |
| | 4.220E+001 | | | | | | | |

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|-------|------------|------------|--|---|---|---|------------|--|
| Sr-90 | 579 | 1 | | Y | N | Y | 3.740E+001 | |
| | 3.000E+001 | 7.400E+000 | | | | | | |
| Sr-90 | 677 | | | N | Y | Y | 6.770E+000 | |
| | 6.770E+000 | | | | | | | |

Spent Sources > 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 2 GBq | Group II more than 2GBq | | | | | |
| | num/activity | num/activity | | | | | |
| Am-241 | 8460 | | Y | N | Y | 1.500E+001 | |
| | 1.500E+001 | | | | | | |
| Am-241 | 15614 | | N | Y | Y | 3.500E+000 | |
| | 3.500E+000 | | | | | | |
| Am-241 | 1 | 18 | N | Y | Y | 1.501E+003 | |
| | 1.100E+000 | 1.500E+003 | | | | | |
| Am-241 | 6 | | N | Y | Y | 1.200E+001 | |
| | 1.200E+001 | | | | | | |
| Am-241 | 1 | 2 | N | Y | Y | 1.270E+001 | |
| | 1.700E+000 | 1.100E+001 | | | | | |
| Am-241 | | | N | Y | Y | 0.000E+000 | |
| | | | | | | | |
| Am-241 | 1 | | N | Y | Y | 5.000E-001 | |
| | 5.000E-001 | | | | | | |
| Am-241 | 6 | | Y | N | Y | 4.100E+000 | |
| | 4.100E+000 | | | | | | |
| Am-241 | 6 | 7 | Y | N | Y | 4.200E+001 | |
| | 1.000E+001 | 3.200E+001 | | | | | |
| C-14 | 5 | | Y | N | Y | 0.000E+000 | |
| | 0.000E+000 | | | | | | |

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| | | | | | | | |
|--------|------------|------------|---|---|---|------------|--|
| C-14 | 8 | | N | Y | Y | 0.000E+000 | |
| | 0.000E+000 | | | | | | |
| I-129 | 2 | | Y | N | Y | 0.000E+000 | |
| | 0.000E+000 | | | | | | |
| Ni-63 | 4 | | Y | N | Y | 1.600E+000 | |
| | 1.600E+000 | | | | | | |
| Pu-238 | 6 | | N | Y | Y | 6.800E+000 | |
| | 6.800E+000 | | | | | | |
| Pu-238 | 13 | | N | Y | Y | 8.900E+000 | |
| | 8.900E+000 | | | | | | |
| Pu-238 | 1 | 4 | N | Y | Y | 7.212E+002 | |
| | 1.200E+000 | 7.200E+002 | | | | | |
| Pu-238 | 2 | | N | Y | Y | 2.400E+000 | |
| | 2.400E+000 | | | | | | |
| Pu-239 | 40 | | N | Y | Y | 0.000E+000 | |
| | 0.000E+000 | | | | | | |
| Pu-239 | | 6 | N | Y | Y | 1.300E+003 | |
| | | 1.300E+003 | | | | | |
| Ra-226 | 1010 | | Y | N | Y | 1.700E+002 | |
| | 1.700E+002 | | | | | | |
| Ra-226 | 62 | | Y | N | Y | 8.000E+000 | |
| | 8.000E+000 | | | | | | |
| Ra-226 | 8 | | N | Y | Y | 3.000E-001 | |
| | 3.000E-001 | | | | | | |
| Ra-226 | 1 | | N | Y | Y | 2.000E-001 | |
| | 2.000E-001 | | | | | | |

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Multiple Nuclides SRS in Storage

| Nuclide | Activity of Sources (GBq) | cond | uncond | cat | Decay Date |
|---------|---------------------------|------|--------|-----|------------|
| Am-241 | 1.000E-004 | Y | N | Y | |
| Sr-90 | 1.000E-004 | Y | N | N | |