



**SSI FS 1995:4**

**Unofficial translation**

**The Swedish Radiation Protection Authority's Regulations  
on Control of Shipments of Radioactive Waste into or out of Sweden;**

issued on December 4, 1995.

On the basis of § 2, second sub-clause and §§ 7 and 8 of the Swedish Radiation Protection Ordinance (1988:293), the Swedish Radiation Protection Authority has issued the following regulations.<sup>1</sup>

**§ 1** These regulations apply to matters concerning licences and documents related to transports<sup>2</sup> of radioactive waste into or out of Sweden, having a total activity exceeding the values given in Annex 1<sup>3</sup>, and with specific activity of the radioactive substances exceeding 100 kilobecquerels per kilogram (kBq/kg) or, in the case of natural radioactive solids, exceeding 500 kBq/kg.

The regulations shall also apply to such transports when Sweden is a transit country.

The regulations shall apply regardless of the general exception in § 2, first sub-clause of the Swedish Radiation Protection Ordinance.

The regulations shall, according to the sections 10-12, not apply to certain reshipping, nor shall they apply to shipping of high level waste or fissile substances that will not be used any longer.<sup>4</sup>

<sup>1</sup> Cf. the CE-Directive 93/3/Euratom, OJ L 35, 12.2.92, p.24 (Celex 392L0003).

<sup>2</sup> Regulations on the very transport, containers, marking etc are given for transport on road: ADR,  
transport by rail-way: RID,  
transport by sea: IMDG-CODE  
air transport: ICAO-TI.

<sup>3</sup> Identical with the values given by the Articles 4a and 4b of the Directive 80/836/Euratom, OJ L 246, 17.9.1980, p. 1 (Celex 380L0836). Changed by the Directive 84/467/Euratom, OJ L 265, 5.10.1984, s. 4 (Celex 384L0467). The values also define the limits of applicability of the EC-Regulations Euratom no 1493/93.

<sup>4</sup> Cases regarding such substances are handled in accordance with the Act (1984:3) on Nuclear Activities. The Swedish Nuclear Power Inspectorate is the competent authority in those cases. The Act contains among others a ban on final deposit of foreign used nuclear fuel in Sweden.

## **Definitions**

**§ 2** In these regulations the following concepts are used with the meanings specified here.

<i>Radioactive waste:</i>	materials that contain or are contaminated with radio nuclides and for which there are no use,
<i>shipment:</i>	transport of radioactive waste from the place of origin to the place of destination including loading and unloading,
<i>holder:</i>	any natural or legal person who, before carrying out a shipment, has the legal responsibility for radioactive waste, and intend to ship it to a consignee,
<i>consignee:</i>	any natural or legal person to whom radioactive waste is shipped,
<i>place of origin and place of destination:</i>	places situated in two different countries, either EC Member States or third countries, thus denoted country of origin and country of destination,
<i>competent authority:</i>	any authority which, under the law or regulations of the countries of origin, transit or destination, is empowered to perform the supervision and controls as mentioned in these regulations,
<i>third country:</i>	a state that is not a member of the European Community,
<i>sealed source:</i>	a radioactive source firmly bound to a non radioactive solid or sealed into a non radioactive capsule, strong enough to prevent spreading of the radioactive substance at normal use.

## **Shipment between Member States**

**§ 3** A holder who intends to ship the waste from Sweden to another Member State, shall apply for a licence at the Swedish Radiation Protection Authority. The application shall be made using the standard form as shown in Annex 2<sup>5</sup>.

**§ 4** An application may regard more than one shipment provided that

1. the radioactive waste essentially has the same physical, chemical and radioactive characteristics, and
2. the shipments are made from the same holder to the same consignee and involve the same competent authorities, and
3. if the shipments involve third countries, the transports are made via the same frontier post of entry to, or exit from, the EC and the same frontier post of the third country or countries concerned, if not otherwise is agreed between the competent authorities concerned.

<sup>5</sup> According to the Commission's decision 93/552/Euratom, OJ L 268, 29.10.1993, p 83 (Celex 393L0552). Not included in this issue.

§ 5 In addition to shipment documents that might be required due to other regulations, the documents that are drawn up according to these regulations shall accompany the transport. If the licence covers several shipments, a set of documents shall accompany each transport.

§ 6 Anyone in Sweden that is a consignee of radioactive waste shall, within two weeks after the day on receipt, confirm to the Swedish Radiation Protection Authority, that the shipment has arrived. For confirmation the standard form according to Annex 2 shall be used.

#### **Shipment into and out of the European Community**

§ 7 If radioactive waste is to be brought into Sweden from a third country, the Swedish consignee shall apply for a licence at the Swedish Radiation Protection Authority. In connection with that application the consignee shall show that the holder in the third country has assumed the liability to take back the waste if the shipment can not be completed. For application the standard form according to Annex 2 shall be used.

§ 8 If radioactive waste is to be brought into Sweden from a third country and the country of destination is not a Member State, i.e. all countries involved within the European Community are transit countries, the first person in Sweden who will be responsible for the transport within Sweden shall in advance inform the Swedish Radiation Protection Authority.

§ 9 If radioactive waste is to be brought out of Sweden, the holder shall apply for a licence at the Swedish Radiation Protection Authority. For application the standard form according to Annex 2 shall be used.

The holder shall ensure that the consignee immediately confirms, in writing, that the waste has reached its place of destination tells which frontier post it passed at arrival to the country of destination.

After the shipment is completed the original holder shall, within two weeks after the day when the waste arrived to its place of destination, confirm to the Swedish Radiation Protection Authority that the waste has reached its place of destination and in that connection tell which frontier post that last was passed out of the European Community. The confirmation of the consignee shall be included.

#### **Reshipment**

§ 10 These regulations shall not apply on shipment where a holder sends a sealed source back to the supplier in another country.

§ 11 If a shipment of radioactive waste from Sweden to another country can not be completed or if the stipulations for the shipment are not met, the holder shall take the waste back. These regulations shall not prevent such reshipment.

**§ 12** If a shipment of radioactive waste from another country to Sweden can not be completed or if the stipulations for the shipment are not met, these regulations shall not prevent reshipment of the waste to the original holder.

---

These regulations enter into force\* two weeks after the day when they were published in the Code of Statutes of the Swedish Radiation Protection Authority.

On behalf of the Board of the Swedish Radiation Protection Authority

JAN OLOF SNIHS

Anders Glansholm

\* i.e. enter into force on January 17, 1996.

**The lowest activities to which these regulations apply**

The regulations (SSI FS 1995:4) shall apply if the activity of the radioactive waste that is shipped exceeds what is stated below for the different radio toxicity Classes:

Class 1 (very high radio toxicity)	$5 \cdot 10^3$ Bq,
Class 2 (high radio toxicity)	$5 \cdot 10^4$ Bq,
Class 3 (moderate radio toxicity)	$5 \cdot 10^5$ Bq,
Class 4 (low radio toxicity)	$5 \cdot 10^6$ Bq.

The different nuclides belong to Classes as shown in the tables.

*Class 1 Very high radio toxicity*

<sup>148</sup> Gd	<sup>210</sup> Pb	<sup>210</sup> Po	<sup>223</sup> Ra	<sup>225</sup> Ra	<sup>226</sup> Ra	<sup>228</sup> Ra	<sup>225</sup> Ac
<sup>227</sup> Ac	<sup>227</sup> Th	<sup>228</sup> Th	<sup>229</sup> Th	<sup>230</sup> Th	<sup>231</sup> Pa	<sup>230</sup> U	<sup>232</sup> U
<sup>233</sup> U	<sup>234</sup> U	<sup>236</sup> Np ( $1,15 \cdot 10^5$ y)		<sup>237</sup> Np	<sup>236</sup> Pu	<sup>238</sup> Pu	<sup>239</sup> Pu
<sup>240</sup> Pu	<sup>241</sup> Pu	<sup>242</sup> Pu	<sup>241</sup> Am	<sup>242m</sup> Am	<sup>243</sup> Am	<sup>240</sup> Cm	<sup>242</sup> Cm
<sup>243</sup> Cm	<sup>244</sup> Cm	<sup>245</sup> Cm	<sup>246</sup> Cm	<sup>247</sup> Cm	<sup>248</sup> Cm	<sup>247</sup> Bk	<sup>248</sup> Cf
<sup>249</sup> Cf	<sup>250</sup> Cf	<sup>251</sup> Cf	<sup>252</sup> Cf	<sup>254</sup> Cf	<sup>254</sup> Es	<sup>257</sup> Fm	<sup>258</sup> Md

*Class 2 High radio toxicity*

<sup>10</sup> Be	<sup>26</sup> Al	<sup>32</sup> Si	<sup>44</sup> Ti	<sup>60</sup> Fe	<sup>60</sup> Co	<sup>68</sup> Ge	<sup>90</sup> Sr
<sup>91</sup> Y	<sup>93</sup> Zr	<sup>94</sup> Nb	<sup>106</sup> Ru	<sup>102m</sup> Rh	<sup>102</sup> Rh	<sup>108m</sup> Ag	<sup>110m</sup> Ag
<sup>109</sup> Cd	<sup>113m</sup> Cd	<sup>115m</sup> Cd	<sup>114m</sup> In	<sup>126</sup> Sn	<sup>124</sup> I	<sup>125</sup> I	<sup>126</sup> I
<sup>131</sup> I	<sup>134</sup> Cs	<sup>137</sup> La	<sup>144</sup> Ce	<sup>144</sup> Pm	<sup>146</sup> Pm	<sup>146</sup> Sm	<sup>151</sup> Sm
<sup>150</sup> Eu (34,2 y)	<sup>152</sup> Eu	<sup>154</sup> Eu	<sup>154</sup> Eu	<sup>155</sup> Eu	<sup>158</sup> Tb	<sup>166m</sup> Ho	<sup>174</sup> Lu
<sup>177m</sup> Lu	<sup>172</sup> Hf	<sup>178m</sup> Hf	<sup>182</sup> Hf	<sup>194</sup> Os	<sup>192m</sup> Ir	<sup>194m</sup> Ir	<sup>194</sup> Hg
<sup>202</sup> Pb	<sup>212</sup> Pb	<sup>210m</sup> Bi	<sup>210</sup> Bi	<sup>211</sup> At	<sup>224</sup> Ra	<sup>224</sup> Ac	<sup>226</sup> Ac
<sup>228</sup> Ac	<sup>232</sup> Th	Th nat	<sup>227</sup> Pa	<sup>228</sup> Pa	<sup>230</sup> Pa	<sup>232</sup> Pa	<sup>236</sup> U
<sup>236</sup> Np (22,5 h)	<sup>238</sup> Np	<sup>244</sup> Pu	<sup>242</sup> Am	<sup>241</sup> Cm	<sup>249</sup> Bk	<sup>246</sup> Cf	<sup>246</sup> Cf
<sup>253</sup> Cf	<sup>253</sup> Es	<sup>254m</sup> Es	<sup>252</sup> Fm	<sup>253</sup> Fm	<sup>254</sup> Fm	<sup>255</sup> Fm	<sup>257</sup> Md

*Class 3 Moderate radio toxicity*

<sup>14</sup> C	<sup>22</sup> Na	<sup>24</sup> Na	<sup>28</sup> Mg	<sup>32</sup> P	<sup>33</sup> P	<sup>36</sup> Cl	<sup>41</sup> Ar
<sup>42</sup> K	<sup>43</sup> K	<sup>45</sup> Ca	<sup>47</sup> Ca	<sup>44m</sup> Sc	<sup>44</sup> Sc	<sup>46</sup> Sc	<sup>47</sup> Sc
<sup>48</sup> Sc	<sup>48</sup> V	<sup>48</sup> Cr	<sup>52</sup> Mn	<sup>54</sup> Mn	<sup>52</sup> Fe	<sup>55</sup> Fe	<sup>59</sup> Fe
<sup>55</sup> Co	<sup>56</sup> Co	<sup>57</sup> Co	<sup>58</sup> Co	<sup>56</sup> Ni	<sup>57</sup> Ni	<sup>63</sup> Ni	<sup>66</sup> Ni
<sup>67</sup> Cu	<sup>62</sup> Zn	<sup>65</sup> Zn	<sup>69m</sup> Zn	<sup>72</sup> Zn	<sup>66</sup> Ga	<sup>67</sup> Ga	<sup>72</sup> Ga
<sup>69</sup> Ge	<sup>77</sup> Ge	<sup>71</sup> As	<sup>72</sup> As	<sup>73</sup> As	<sup>74</sup> As	<sup>76</sup> As	<sup>77</sup> As
<sup>73</sup> Se	<sup>75</sup> Se	<sup>79</sup> Se	<sup>76</sup> Br	<sup>82</sup> Br	<sup>74</sup> Kr	<sup>77</sup> Kr	<sup>87</sup> Kr
<sup>88</sup> Kr	<sup>83</sup> Rb	<sup>84</sup> Rb	<sup>86</sup> Rb	<sup>83</sup> Sr	<sup>85</sup> Sr	<sup>89</sup> Sr	<sup>91</sup> Sr

to be continued

## Class 3 continuation

<sup>92</sup> Sr	<sup>86</sup> Y	<sup>87</sup> Y	<sup>88</sup> Y	<sup>90m</sup> Y	<sup>90</sup> Y	<sup>92</sup> Y	<sup>93</sup> Y
<sup>86</sup> Zr	<sup>88</sup> Zr	<sup>89</sup> Zr	<sup>95</sup> Zr	<sup>97</sup> Zr	<sup>90</sup> Nb	<sup>93m</sup> Nb	<sup>95</sup> Nb
<sup>95m</sup> Nb	<sup>96</sup> Nb	<sup>90</sup> Mo	<sup>93</sup> Mo	<sup>99</sup> Mo	<sup>96</sup> Tc	<sup>97m</sup> Tc	<sup>97</sup> Ru
<sup>103</sup> Ru	<sup>105</sup> Ru	<sup>99</sup> Rh	<sup>100</sup> Rh	<sup>101m</sup> Rh	<sup>101</sup> Rh	<sup>105</sup> Rh	<sup>100</sup> Pd
<sup>103</sup> Pd	<sup>109</sup> Pd	<sup>105</sup> Ag	<sup>106m</sup> Ag	<sup>111</sup> Ag	<sup>112</sup> Ag	<sup>115</sup> Cd	<sup>117</sup> Cd
<sup>111</sup> In	<sup>110</sup> Sn	<sup>113</sup> Sn	<sup>117m</sup> Sn	<sup>119m</sup> Sn	<sup>121m</sup> Sn	<sup>121</sup> Sn	<sup>123</sup> Sn
<sup>125</sup> Sn	<sup>120</sup> Sb (5,76 days)	<sup>122</sup> Sb	<sup>122</sup> Sb	<sup>124</sup> Sb	<sup>125</sup> Sb	<sup>126</sup> Sb	<sup>127</sup> Sb
<sup>128</sup> Sb (9,01 h)	<sup>129</sup> Sb	<sup>121</sup> Te	<sup>121</sup> Te	<sup>121m</sup> Te	<sup>123m</sup> Te	<sup>125m</sup> Te	<sup>127m</sup> Te
<sup>129m</sup> Te	<sup>131</sup> Te	<sup>131m</sup> Te	<sup>132</sup> Te	<sup>133m</sup> Te	<sup>120</sup> I	<sup>123</sup> I	<sup>130</sup> I
<sup>132</sup> I	<sup>132m</sup> I	<sup>133</sup> I	<sup>135</sup> I	<sup>121</sup> Xe	<sup>123</sup> Xe	<sup>138</sup> Xe	<sup>132</sup> Cs
<sup>136</sup> Cs	<sup>137</sup> Cs	<sup>128</sup> Ba	<sup>131</sup> Ba	<sup>133m</sup> Ba	<sup>133</sup> Ba	<sup>135m</sup> Ba	<sup>140</sup> Ba
<sup>132</sup> La	<sup>140</sup> La	<sup>141</sup> La	<sup>134</sup> Ce	<sup>135</sup> Ce	<sup>137m</sup> Ce	<sup>139</sup> Ce	<sup>141</sup> Ce
<sup>143</sup> Ce	<sup>142</sup> Pr	<sup>143</sup> Pr	<sup>145</sup> Pr	<sup>138</sup> Nd	<sup>147</sup> Nd	<sup>143</sup> Pm	<sup>145</sup> Pm
<sup>147</sup> Pm	<sup>148m</sup> Pm	<sup>148</sup> Pm	<sup>149</sup> Pm	<sup>151</sup> Pm	<sup>145</sup> Sm	<sup>153</sup> Sm	<sup>156</sup> Sm
<sup>145</sup> Eu	<sup>146</sup> Eu	<sup>147</sup> Eu	<sup>148</sup> Eu	<sup>149</sup> Eu	<sup>150</sup> Eu (12,62 h)	<sup>152m</sup> Eu	<sup>152m</sup> Eu
<sup>156</sup> Eu	<sup>157</sup> Eu	<sup>146</sup> Gd	<sup>147</sup> Gd	<sup>149</sup> Gd	<sup>151</sup> Gd	<sup>153</sup> Gd	<sup>159</sup> Gd
<sup>149</sup> Tb	<sup>151</sup> Tb	<sup>153</sup> Tb	<sup>154</sup> Tb	<sup>155</sup> Tb	<sup>156m</sup> Tb (24,4 h)	<sup>156</sup> Tb	<sup>156</sup> Tb
<sup>157</sup> Tb	<sup>160</sup> Tb	<sup>161</sup> Tb	<sup>159</sup> Dy	<sup>166</sup> Dy	<sup>166</sup> Ho	<sup>169</sup> Er	<sup>171</sup> Er
<sup>172</sup> Er	<sup>167</sup> Tm	<sup>170</sup> Tm	<sup>171</sup> Tm	<sup>172</sup> Tm	<sup>173</sup> Tm	<sup>166</sup> Yb	<sup>169</sup> Yb
<sup>175</sup> Yb	<sup>169</sup> Lu	<sup>170</sup> Lu	<sup>171</sup> Lu	<sup>172</sup> Lu	<sup>173</sup> Lu	<sup>174m</sup> Lu	<sup>177</sup> Lu
<sup>170</sup> Hf	<sup>173</sup> Hf	<sup>175</sup> Hf	<sup>179m</sup> Hf	<sup>181</sup> Hf	<sup>184</sup> Hf	<sup>176</sup> Ta	<sup>179</sup> Ta
<sup>182</sup> Ta	<sup>183</sup> Ta	<sup>184</sup> Ta	<sup>185</sup> W	<sup>187</sup> W	<sup>188</sup> W	<sup>181</sup> Re <sup>182</sup> Re (64 h)	<sup>181</sup> Re <sup>182</sup> Re (64 h)
<sup>184m</sup> Re	<sup>184</sup> Re	<sup>186</sup> Re	<sup>188</sup> Re	<sup>189</sup> Re	<sup>182</sup> Os	<sup>185</sup> Os	<sup>191</sup> Os
<sup>193</sup> Os	<sup>185</sup> Ir	<sup>186</sup> Ir	<sup>188</sup> Ir	<sup>189</sup> Ir	<sup>190</sup> Ir	<sup>192</sup> Ir	<sup>194</sup> Ir
<sup>188</sup> Pt	<sup>191</sup> Pt	<sup>193m</sup> Pt	<sup>195m</sup> Pt	<sup>197</sup> Pt	<sup>200</sup> Pt	<sup>194</sup> Au	<sup>195</sup> Au
<sup>198m</sup> Au	<sup>198</sup> Au	<sup>199</sup> Au	<sup>200m</sup> Au	<sup>193m</sup> Hg	<sup>195m</sup> Hg	<sup>197m</sup> Hg	<sup>197</sup> Hg
<sup>203</sup> Hg	<sup>200</sup> Tl	<sup>202</sup> Tl	<sup>204</sup> Tl	<sup>200</sup> Pb	<sup>203</sup> Pb	<sup>211</sup> Pb	<sup>214</sup> Pb
<sup>203</sup> Bi	<sup>205</sup> Bi	<sup>206</sup> Bi	<sup>207</sup> Bi	<sup>212</sup> Bi	<sup>213</sup> Bi	<sup>214</sup> Bi	<sup>207</sup> At
<sup>222</sup> Rn	<sup>222</sup> Fr	<sup>223</sup> Fr	<sup>226</sup> Th	<sup>231</sup> Th	<sup>234</sup> Th	<sup>233</sup> Pa	<sup>234</sup> Pa
<sup>231</sup> U	<sup>237</sup> U	<sup>240</sup> U	<sup>232</sup> Np	<sup>234</sup> Np	<sup>235</sup> Np	<sup>239</sup> Np	<sup>234</sup> Pu
<sup>237</sup> Pu	<sup>245</sup> Pu	<sup>238</sup> Am	<sup>240</sup> Am	<sup>244m</sup> Am	<sup>244</sup> Am	<sup>238</sup> Cm	<sup>245</sup> Bk
<sup>246</sup> Bk	<sup>250</sup> Bk	<sup>244</sup> Cf	<sup>250</sup> Es	<sup>251</sup> Es			

## Class 4 Low radio toxicity

<sup>3</sup> H	<sup>7</sup> Be	<sup>11</sup> C	<sup>18</sup> F	<sup>31</sup> Si	<sup>35</sup> S	<sup>38</sup> Cl	<sup>39</sup> Cl
<sup>37</sup> Ar	<sup>39</sup> Ar	<sup>40</sup> K	<sup>44</sup> K	<sup>45</sup> K	<sup>41</sup> Ca	<sup>43</sup> Sc	<sup>49</sup> Sc
<sup>45</sup> Ti	<sup>47</sup> V	<sup>49</sup> V	<sup>49</sup> Cr	<sup>51</sup> Cr	<sup>51</sup> Mn	<sup>52m</sup> Mn	<sup>53</sup> Mn
<sup>56</sup> Mn	<sup>58m</sup> Co	<sup>60m</sup> Co	<sup>61</sup> Co	<sup>62m</sup> Co	<sup>59</sup> Ni	<sup>65</sup> Ni	<sup>60</sup> Cu
<sup>61</sup> Cu	<sup>64</sup> Cu	<sup>63</sup> Zn	<sup>69</sup> Zn	<sup>71m</sup> Zn	<sup>65</sup> Ga	<sup>68</sup> Ga	<sup>70</sup> Ga
<sup>73</sup> Ga	<sup>66</sup> Ge	<sup>67</sup> Ge	<sup>71</sup> Ge	<sup>75</sup> Ge	<sup>78</sup> Ge	<sup>69</sup> As	<sup>70</sup> As

to be continued

## Class 4 continuation

<sup>78</sup> As	<sup>70</sup> Se	<sup>73m</sup> Se	<sup>81m</sup> Se	<sup>81</sup> Se	<sup>83</sup> Se	<sup>74m</sup> Br	<sup>74</sup> Br
<sup>75</sup> Br	<sup>77</sup> Br	<sup>80m</sup> Br	<sup>80</sup> Br	<sup>83</sup> Br	<sup>84</sup> Br	<sup>76</sup> Kr	<sup>79</sup> Kr
<sup>81</sup> Kr	<sup>83m</sup> Kr	<sup>85m</sup> Kr	<sup>85</sup> Kr	<sup>79</sup> Rb	<sup>81m</sup> Rb	<sup>81</sup> Rb	<sup>82m</sup> Rb
<sup>87</sup> Rb	<sup>88</sup> Rb	<sup>89</sup> Rb	<sup>80</sup> Sr	<sup>81</sup> Sr	<sup>85m</sup> Sr	<sup>87m</sup> Sr	<sup>86m</sup> Y
<sup>91m</sup> Y	<sup>94</sup> Y	<sup>95</sup> Y	<sup>88</sup> Nb	<sup>89</sup> Nb (66 min)	<sup>89</sup> Nb (122 min)	<sup>97</sup> Nb	
<sup>98</sup> Nb	<sup>93m</sup> Mo	<sup>101</sup> Mo	<sup>93m</sup> Tc	<sup>93</sup> Tc	<sup>94m</sup> Tc	<sup>94</sup> Tc	<sup>96m</sup> Tc
<sup>97</sup> Tc	<sup>98</sup> Tc	<sup>99m</sup> Tc	<sup>99</sup> Tc	<sup>101</sup> Tc	<sup>104</sup> Tc	<sup>94</sup> Ru	<sup>99m</sup> Rh
<sup>103m</sup> Rh	<sup>106m</sup> Rh	<sup>107</sup> Rh	<sup>101</sup> Pd	<sup>107</sup> Pd	<sup>102</sup> Ag	<sup>103</sup> Ag	<sup>104m</sup> Ag
<sup>104</sup> Ag	<sup>106</sup> Ag	<sup>115</sup> Ag	<sup>104</sup> Cd	<sup>107</sup> Cd	<sup>113</sup> Cd	<sup>113</sup> Cd	<sup>117m</sup> Cd
<sup>109</sup> In	<sup>110</sup> In (69,1 min)		<sup>110</sup> In (4 h)	<sup>112</sup> In	<sup>113m</sup> In	<sup>115m</sup> In	<sup>115</sup> In
<sup>117m</sup> In	<sup>117</sup> In	<sup>119m</sup> In	<sup>111</sup> Sn	<sup>123m</sup> Sn	<sup>127</sup> Sn	<sup>128</sup> Sn	<sup>115</sup> Sb
<sup>116m</sup> Sb	<sup>116</sup> Sb	<sup>117</sup> Sb	<sup>118m</sup> Sb	<sup>119</sup> Sb	<sup>120</sup> Sb (15,89 min)		<sup>124m</sup> Sb
<sup>126m</sup> Sb	<sup>128</sup> Sb (10,4 min)		<sup>130</sup> Sb	<sup>131</sup> Sb	<sup>116</sup> Te	<sup>123</sup> Te	<sup>127</sup> Te
<sup>129</sup> Te	<sup>133</sup> Te	<sup>134</sup> Te	<sup>120m</sup> I	<sup>121</sup> I	<sup>128</sup> I	<sup>129</sup> I	<sup>134</sup> I
<sup>120</sup> Xe	<sup>122</sup> Xe	<sup>125</sup> Xe	<sup>127</sup> Xe	<sup>129m</sup> Xe	<sup>131m</sup> Xe	<sup>133m</sup> Xe	<sup>133</sup> Xe
<sup>135m</sup> Xe	<sup>135</sup> Xe	<sup>125</sup> Cs	<sup>127</sup> Cs	<sup>129</sup> Cs	<sup>130</sup> Cs	<sup>131</sup> Cs	<sup>134m</sup> Cs
<sup>135</sup> Cs	<sup>135m</sup> Cs	<sup>138</sup> Cs	<sup>126</sup> Ba	<sup>131m</sup> Ba	<sup>139</sup> Ba	<sup>141</sup> Ba	<sup>142</sup> Ba
<sup>131</sup> La	<sup>135</sup> La	<sup>138</sup> La	<sup>142</sup> La	<sup>143</sup> La	<sup>137</sup> Ce	<sup>136</sup> Pr	<sup>137</sup> Pr
<sup>138m</sup> Pr	<sup>139</sup> Pr	<sup>142m</sup> Pr	<sup>144</sup> Pr	<sup>147</sup> Pr	<sup>136</sup> Nd	<sup>139m</sup> Nd	<sup>139</sup> Nd
<sup>141</sup> Nd	<sup>149</sup> Nd	<sup>151</sup> Nd	<sup>141</sup> Pm	<sup>150</sup> Pm	<sup>141m</sup> Sm	<sup>141</sup> Sm	<sup>142</sup> Sm
<sup>147</sup> Sm	<sup>155</sup> Sm	<sup>158</sup> Eu	<sup>145</sup> Gd	<sup>152</sup> Gd	<sup>147</sup> Tb	<sup>150</sup> Tb	<sup>156m</sup> Tb (5 h)
<sup>155</sup> Dy	<sup>157</sup> Dy	<sup>165</sup> Dy	<sup>155</sup> Ho	<sup>157</sup> Ho	<sup>159</sup> Ho	<sup>161</sup> Ho	<sup>162m</sup> Ho
<sup>162</sup> Ho	<sup>164m</sup> Ho	<sup>164</sup> Ho	<sup>167</sup> Ho	<sup>161</sup> Er	<sup>165</sup> Er	<sup>162</sup> Tm	<sup>166</sup> Tm
<sup>175</sup> Tm	<sup>162</sup> Yb	<sup>167</sup> Yb	<sup>177</sup> Yb	<sup>178</sup> Yb	<sup>176m</sup> Lu	<sup>176</sup> Lu	<sup>178m</sup> Lu
<sup>178</sup> Lu	<sup>179</sup> Lu	<sup>177m</sup> Hf	<sup>180m</sup> Hf	<sup>182m</sup> Hf	<sup>183</sup> Hf	<sup>172</sup> Ta	<sup>173</sup> Ta
<sup>174</sup> Ta	<sup>175</sup> Ta	<sup>177</sup> Ta	<sup>178</sup> Ta	<sup>180m</sup> Ta	<sup>180</sup> Ta	<sup>182m</sup> Ta	<sup>185</sup> Ta
<sup>186</sup> Ta	<sup>176</sup> W	<sup>177</sup> W	<sup>178</sup> W	<sup>179</sup> W	<sup>181</sup> W	<sup>177</sup> Re	<sup>178</sup> Re
<sup>182</sup> Re (12,7 h)	<sup>186m</sup> Re	<sup>187</sup> Re	<sup>187</sup> Re	<sup>188m</sup> Re	<sup>180</sup> Os	<sup>181</sup> Os	<sup>189m</sup> Os
<sup>191m</sup> Os	<sup>182</sup> Ir	<sup>184</sup> Ir	<sup>187</sup> Ir	<sup>190m</sup> Ir	<sup>195m</sup> Ir	<sup>195</sup> Ir	<sup>186</sup> Pt
<sup>189</sup> Pt	<sup>193</sup> Pt	<sup>197m</sup> Pt	<sup>199</sup> Pt	<sup>193</sup> Au	<sup>200</sup> Au	<sup>201</sup> Au	<sup>193</sup> Hg
<sup>195</sup> Hg	<sup>199m</sup> Hg	<sup>194m</sup> Tl	<sup>194</sup> Tl	<sup>195</sup> Tl	<sup>197</sup> Tl	<sup>198m</sup> Tl	<sup>198</sup> Tl
<sup>199</sup> Tl	<sup>201</sup> Tl	<sup>195m</sup> Pb	<sup>198</sup> Pb	<sup>199</sup> Pb	<sup>201</sup> Pb	<sup>202m</sup> Pb	<sup>205</sup> Pb
<sup>209</sup> Pb	<sup>200</sup> Bi	<sup>201</sup> Bi	<sup>202</sup> Bi	<sup>203</sup> Po	<sup>205</sup> Po	<sup>207</sup> Po	<sup>220</sup> Rn
<sup>227</sup> Ra	<sup>235</sup> U	<sup>238</sup> U	<sup>239</sup> U	U nat	U depleted		<sup>233</sup> Np
<sup>240</sup> Np	<sup>235</sup> Pu	<sup>243</sup> Pu	<sup>237</sup> Am	<sup>239</sup> Am	<sup>245</sup> Am	<sup>246m</sup> Am	<sup>246</sup> Am
<sup>249</sup> Cm							

Annex 2 of the Swedish printed issue comprises the standard documents according to the Commissions decision 93/552/Euratom, EGT L 268, 29.10.1993, s 83 (Celex 393L0552). The documents are translated into Swedish following the same lay-out as given by the decision. These documents are not shown here.