

TABLE: CATEGORIZATION OF NUCLEAR MATERIAL

| <u>Material</u>    | <u>Form</u>   | <u>Category I</u>      | <u>Category II</u>   | <u>Category III</u>  |
|--------------------|---|------------------------|--|--|
| 1. Plutonium*      | Unirradiated <sup>b</sup>   | 2 kg or more           | Less than 2kg but more than 500 g  | 500 g or less <sup>c</sup>   |
| 2. Uranium-235     | Unirradiated <sup>b</sup> :<br>- Uranium enriched to 20% 235U or more<br>- Uranium enriched to 10% 235U but less than 20%<br>- Uranium enriched above natural, but less than 10% 235Ud  | 5 kg or more<br>-<br>- | Less than 5 kg but more than 1kg 10kg or more<br>-<br>-  | 1 kg or less <sup>c</sup><br>Less than 10 kg <sup>c</sup><br>10 kg or more |
| 3. Uranium-233     | Unirradiated <sup>b</sup>   | 2 kg or more           | Less than 2 kg but more than 500 g   | 500 g or less <sup>c</sup>   |
| 4. Irradiated Fuel |   |                        | Depleted or natural uranium, thorium or low enriched fuel (less than 10% fissile content) <sup>e</sup> |  |
| a.                 | All plutonium except that with isotopic concentration exceeding 80% in plutonium -238.  |                        |  |  |
| b.                 | Material not irradiated in a reactor or material irradiated in a reactor but with a radiation level equal to or less than 100 rad/hour at one metre unshielded.   |                        |  |  |
| c.                 | Less than a radiologically significant quantity should be exempted.   |                        |  |  |
| d.                 | Natural uranium, depleted uranium and thorium and quantities of uranium enriched to less than 10% not falling into Category III should be protected in accordance with prudent management practice.   |                        |  |  |
| e.                 | Other fuel which by virtue of its original fissile material content is classified as Category I or II before irradiation may be reduced one category level when the radiation level from the fuel exceeds 100 rad/hour at one metre unshielded. |                        |  |  |