Radcalc 4.1 software was designed as a tool to help evaluate domestic radioactive material shipments by ground. This software was not designed or tested to evaluate international requirements by any mode. Two important cases where the differences between domestic and International requirement are highlighted below:

1. Radcalc 4.1 is not an appropriate tool to make fissile exception determinations for International shipment by any mode or for domestic shipment by air, which is offered to International Air Transport Association (IATA) carriers. Users must recognize that the fissile exceptions as authorized in 49 CFR 173.453 and evaluated in Radcalc are not the same as those required by:
   - IATA Dangerous Goods Regulations.
   - International Atomic Energy Agency (IAEA) Regulations for the Safety Transport of Radioactive Material
   - International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods
   - International Maritime Organization (IMO) International Maritime Dangerous Goods (IMDG) Code
   - Transport Canada Transportation of Dangerous Goods Regulations and the Canadian Nuclear Safety Commission Packaging and Transport of Nuclear Substances Regulations

2. Radcalc 4.1 is not an appropriate tool to make International shipments involving Cf-252 and Mo-99. The A₁ and A₂ values assigned to Cf-252 and the A₂ value assigned to Mo-99 are different for domestic and International shipments. Radcalc only evaluates A values using the domestic criteria.

DOE is considering whether to incorporate International fissile exceptions and A₁/A₂ values in the next version of Radcalc. User input and recommendations are welcome.

Need more information?
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