June 7, 1991

NRC INFORMATION NOTICE NO. 91-35: LABELING REQUIREMENTS FOR TRANSPORTING MULTI-HAZARD RADIOACTIVE MATERIALS

## Addresses:

All U.S. Nuclear Regulatory Commission (NRC) licensees.

#### Purpose:

This notice is provided to inform licensees of the U.S. Department of Transportation (DOT) requirements for labeling packages containing hazardous materials that meet the definition of more than one hazard (e.g., Radioactive and Poison). It is expected that licensees will review this information and consider action, if appropriate, to ensure that packages containing multihazard materials are properly labeled. However, suggestions contained in this notice do not constitute new requirements; therefore no written response is required.

### Description of Circumstances:

A licensee was found to have labeled its multi-hazard packages only for the radioactive hazard and not for the additional hazard. An inspection revealed that the licensee inappropriately applied the exceptions for small quantities as stated in Section 173.4 of Title 49 of the Code of Federal Regulations (49 CFR 173.4) to package labeling. The NRC has received information that other licensees who are shipping dual hazard materials may also be labeling the packages only for the radioactive hazard and not for the additional hazard.

#### Discussion:

The DOT regulates the transportation of hazardous material packages. Under DOT rules, a shipper must classify a product according to its primary hazard. Unless a specific exception from labeling is granted, every package containing a hazardous material must be labeled in accordance with this classification decision. In addition to labeling for the specific class, labeling is often required for secondary hazards for materials meeting more than one hazard definition.

Specifically, DOT requires that each package containing hazardous materials be labeled (49 CFR 172.400). Additionally, Sections 172.402(a)(1) and 172.403(e) require that packages containing materials that meet the definitions of radioactive and any other hazards must be separately labeled for each hazard. Section 173.4 provides an exception from most of the DOT regulations, including labeling, for small quantities of materials that meet the definition for one or

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more hazard. For the exception to apply, the packaged material must meet all applicable hazard quantity limitations (49 CFR 173.4(a)(1)(i-iv)).

In the circumstances described herein, the material met the small quantity limit for the poison but did not meet the small quantity radioactive level limit. Therefore, the exceptions provided in 49 CFR 173.4 do not apply, and the packages must be labeled in accordance with 49 CFR 172.402(a)(1) and 172.403(e). In this case, the regulations require that both RADIOACTIVE and POISON labels be affixed to the package.

This information notice does not require any written response. If you have any questions on this matter, please contact the technical contact listed below or the appropriate NRC regional office.

Robert F. Burnett, Director Division of Safeguards and Transportation Office of Nuclear Materials Safety and Safeguards

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Technical Contacts: J. R. Cook, NMSS (301) 492-0458

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K. M. Ramsey, NMSS (301) 492-0534

Office of Hazardous Materials Standards, DOT (202) 366-4488

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Attachments:

1. List of Recently Issued NRC Information Notices

2. List of Recently Issued NMSS Information Notices 

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## LIST OF RECENTLY ISSUED NRC INFORMATION NOTICES

Information Notice No.	Subject	Date of Issuance	Issued to All holders of OLS or CPS for muclear power reactors.		
91-34	Potential Problems in Identifying Causes of Emergency Dissel Generator Nalfunctions	C6/03/91			
91-33	Reactor Safety Information for States During Exercises and Emergencies	05/31/91	All holders of OLs or CPs for nuclear power reactors.		
91-32	Possible Flaws in Certain Piping Systems Fabricated by Associated Piping and Engineering	65/15/91	All holders of OLs or CPs for nuclear power reactors.		
91-31	Nonconforming Nagnaflux Magnetic Particle (34AN) Prepared Bath	05/09/51	All holders of OLs or CPs for nuclear power reactors.		
\$1 <b>-30</b>	Inaduquate Calibration of Thermoluminescant Dosi- meters Utilized to Monitor Extremity Dose at Uranium Processing and Fabrication Facilities	04/23/91	All fuel cycle licensees and other licensees routinely handling unshielded uranium materials.		
86-21, Supp. 2	Recognition of American Society of Mechanical Engi- meers Accreditation Pro- gram for N Stamp Holders	04/16/91	All holders of OLs or CPs for nuclear power reactors and all recipients of NUREG-0040, "Licensee Con- tractor and Vendor Inspection Status Report" (White Book).		
91-29	Deficiencies Identified During Electrical Distri- bution System Functional Inspections	04/15/91	All holders of QLs or CPs for nuclear power reactors.		
91-28	Cracking in Feedwater System Piping	C4/15/91	All holders of OLS or CPS for pressurized water reactors (PMRs).		

QL = Operating License CP = Construction Permit

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## LIST OF RECENTLY ISSUED NHSS INFORMATION NOTICES

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Information Notice No.	. Subject	Date of Issuance	lssued to
91-30	Inadequate Calibration of Thermoluminescent Dosimeters Utilized to Nonitor Extremity Dose at Uranium Processing and Fabrication Facilities	04/23/91	All fuel cycle licensees routinely handling unshield ed uranium materials.
91 - 26	Potential Konconservative Errors in the Working Format Mansen-Roach Cross-Section Sat Provided with The Kano and Scale Codes	04/02/91	All fuel cycle licensees and other licensees, in- cluding all holders of operating licenses for nuclear power reactors, who use physics codes to support criticality safety in the use of fissile material.
91-23	Accidental Radiation Over- exposures to Personnel due to Industrial Radiography Accessory Equipment Malfunc- tions	03/25/91	All Nuclear Regulatory Com- mission (NRC) licensees authorized to use sealed sources for industrial radiography.
91-16	Unmonitored Release Pathways from Slightly Contaminated Re- cycle and Recirculation Mater Systems At A Fuel Facility	03/06/91	All fuel cycle facilities.
91-14	Recent Safety-Related Inci- demis at Large Irradiators	03/05/91	All Nuclear Regulatory Cummission (NRC) licensues authorized to possess and use scaled sources at large irradiators.
91-03	Management of Wastes Contan- inated with Padioactive Naterials ("Red Bag" Waste and Ordinary Trash)	01/07/91	All medical licensees.

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