



TEPP/MERRTT

Case Histories





Module Objectives

- Identify different size up considerations using photos from actual radioactive material transportation accidents.
- List issues that should be considered during development of a recovery plan.
- Identify common post-incident concerns that the IC should consider.



Seneca, Ohio Transportation Accident



















The truck hauling radioactive material contained 12 packages. Of the 12 packages it is estimated that 8 packages broke open and the contents (syringe containers) were spilled onto the highway. One of the packages remained in the pickup truck and was destroyed in the fire. However, the lead pigs located inside the destroyed package were only charred. The contents were intact.



Blackfoot, Idaho Transportation Accident







TRUPACT II SHIPPING PACKAGE
MANUFACTURED FOR U.S.
DEPARTMENT OF ENERGY
UNDER DEPARTMENT OF ENERGY
CONTRACT DE-AC04-COAL66470
BY WESTINGHOUSE ENGINEERED
PRODUCTS DEPT.
PKG. ID NO: USA/9218/B(U)F-85
GROSS WEIGHT: 19,250 LBS
/N 164







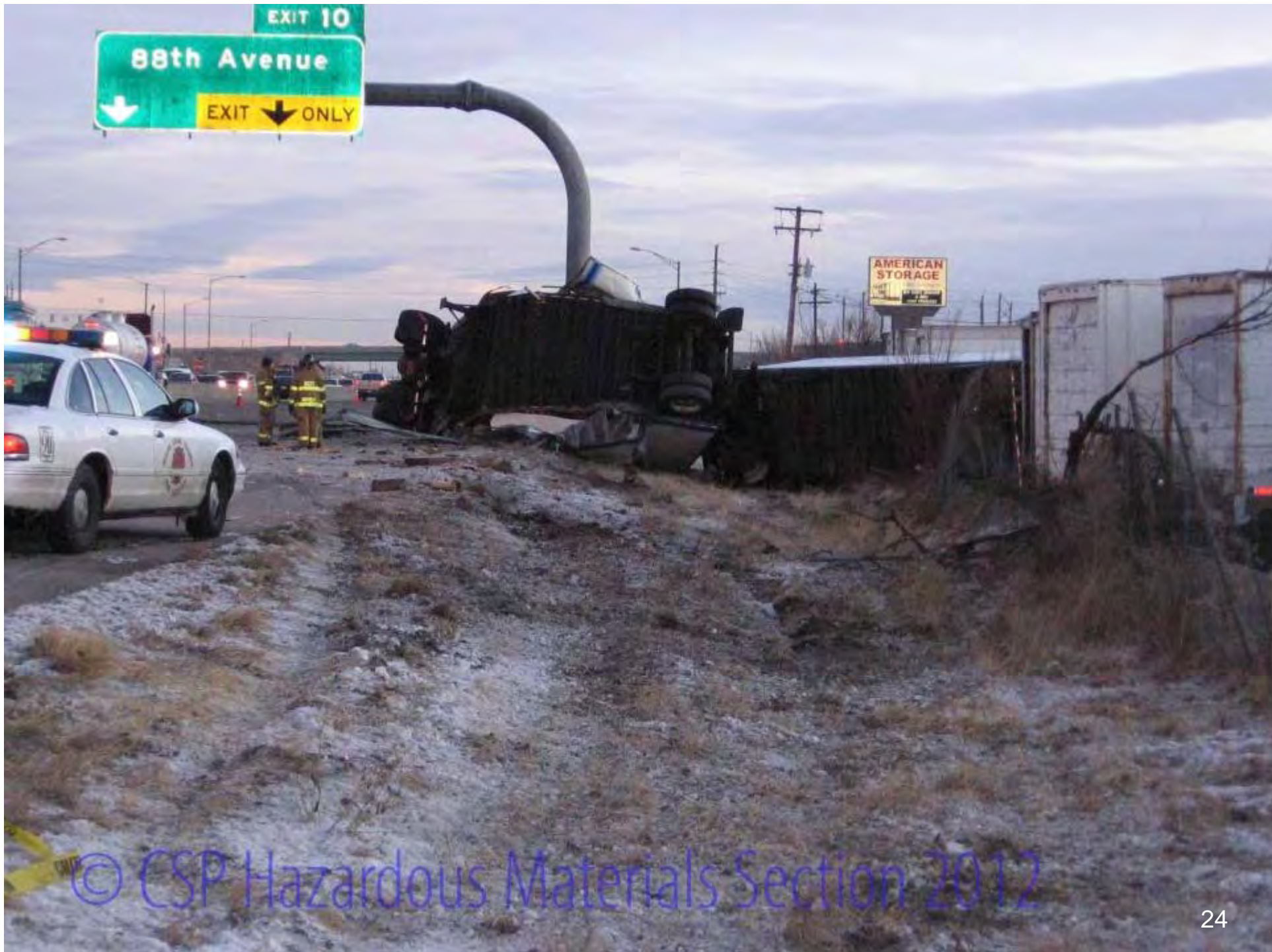




Denver, CO Transportation Accident

EXIT 10
88th Avenue
EXIT ONLY

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SHIPPER'S DECLARATION OF DANGEROUS GOODS (provide at least 2 copies to the airline)

Shipper: SpectraTek Services
 2726 Aztec NE Bldg B
 Albuquerque NM 87107
 505 888 0144

Shipper's Reference Number: Page 1 of 1

Consignee:
 PROTECHNICS INTL' INC.
 Randy Shamblin
 STATE ROUTE 14.
 WilliamsTown WV 26187
 Phone: (304) 482 1000

500780534



SpectraTek Services Division of
ProTechnics
 A CORE LABORATORIES COMPANY

**24-Hour Emergency Response Phone Numbers:
 800-535-5053 or +1 352-323-3500 (collect)**

WARNING! Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder, or an IATA cargo agent.

Two completed and signed copies of this declaration must be handed to the operator.

TRANSPORT DETAILS: This shipment is within the limitations prescribed for: CARGO AIRCRAFT ONLY	Airport of Departure: ALBUQUERQUE, NM USA
	Airport of Destination: WilliamsTown

Nature and Quantity of Dangerous Goods:
 UN 2915, Radioactive Materials, Type A package, 7

Shipment Type: RADIOACTIVE

Pkg#	Radionuclide	Chemical Form	Physical Form	Activity	Warning labels	T.I./Surface	Waybill Number
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1	Iridium-192	Oxide	Solid-zw	8.88 GBq 240 mCi	Yellow III	7.0	(18 x 18 x 15)
						175	
2	Iridium-192	Oxide	Solid-zw	8.88 GBq 240 mCi	Yellow III	7.0	(18 x 18 x 15)
						175	

Total Number of Type A containers:

Total Activity

Total T.I. :

ORDER NO. 4 RMS 12/008
 CONSIGNEE
 ALBUQUERQUE VA MED CTR
 501 SAN PEDRO SE
 APO, N.M. 87108
 MEDI RAY, INC.
 150 MARBLEDALE ROAD
 TUCUMCUM, NY 10707

ORDER SHIPPING NAME / CLASSIFICATION
Radioactive material, Type A Package, 7. UN2915

PKGS	FORM	RADIO NUCLIDE	PHYSICAL / CHEMICAL FORM	ACTIVITY	RADIOACTIVE LABEL	TI	WEIGHT
4	XX	M099	SOLID/SALT THE THIRD PARTY (2004233) 110 Cass Information Systems PISTOL MYSERS SQUIBB M.I. P.O. BOX 6550 CHELSEA, ORN, MA 01854-0950	0.63g	I White		160 LBS.

500-789785
 500-789785
 DEST SIC

XEM

METER# 94426
 MRIHR READING \leq NORMAN BKED.
 037R11R

CONSIGNEE'S COPY

Emergency Response Phone Number 505-975-7497 RSD ERG GUIDE-163

CARDS TENDERED: YES NO

TOTAL PIECES	TOTAL WEIGHT	TOTAL TI	SHIPPER'S SIGNATURE	DATE / TIME
4	160	0	Daryl M. St...	12/10/08 14:00
SHIPPER'S CERTIFICATE			CARRIER'S SIGNATURE	DATE / TIME
I HEREBY DECLARE THAT THE CONTENTS OF THIS CONSIGNMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE BY PROPER PACKING NAME, AND ARE CLASSIFIED, PACKED, MARKED AND LABELED AND ARE IN ALL RESPECTS IN PROPER CONDITION FOR SHIPMENT BY AIRCRAFT ACCORDING TO APPLICABLE INTERNATIONAL AND NATIONAL GOVERNMENTAL REGULATIONS IF FOR RADIOAC TIVE MATERIALS ACCEPTABLE FOR PASSENGER CARRYING AIRCRAFT, THIS SHIPMENT IS INTENDED FOR USE IN OR INCIDENT TO SEARCH MEDICAL DIAGNOSIS OR TREATMENT, THIS SHIPMENT IS IN ACCORDANCE WITH THE LIMITATIONS PRESCRIBED FOR			Frank Sant...	12-9-08 13:00
MARK ONE () BOTH PASSENGER AND CARGO AIRCRAFT () CARGO ONLY AIRCRAFT			CONSIGNEE'S SIGNATURE	DATE / TIME
			CROWY 48X 565-5076 (48X)	

(A)





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Recovery Planning Issues from a Transportation Accident



Formulating a Recovery Plan

- The IC is responsible for preparing a recovery plan
- The IC is responsible for coordinating with appropriate agencies
- DOE has a model procedure available for recovery planning available on their website
 - www.em.doe.gov/otem
- The following two slides contain recovery planning items for consideration:



Formulating a Recovery Plan

Recovery planning items:

- List the type, quantity, form, and extent of release
- Identify sampling issues and concerns
- Identify stakeholders and responsible parties



Formulating a Recovery Plan

Recovery planning items:

- Identify monitoring and dosimetry needs
- Identify potential impacts
- Identify issues regarding waste handling, storage, and transport
- Implement procedures for complete and proper maintenance of personnel accountability and exposure records



Terminating the Incident

Documentation

- All information, records, logs accumulated during incident should be completed, distributed, and filed for future reference
- Proper documentation is essential when attempting to recoup equipment and material costs associated with the incident



Terminating the Incident

Personnel Follow-up

- Exposure records and medical actions for each person involved in incident
- Bioassay sampling to detect internal contamination or continued medical surveillance
- Post-incident stress or trauma
- IC should work with Radiation Authority on personnel follow-up issues and concerns



Terminating the Incident

Equipment Decontamination or Replacement

- Work with Radiation Authority to ensure that all items involved in the incident have been properly surveyed
- Radiation Authority will assist in determining which items cannot be decontaminated
- Items that cannot be decontaminated will need to be replaced



Summary

After available information has been collected and reviewed, the IC is responsible for preparing a recovery plan.



Summary

Proper event documentation is essential when attempting to recoup equipment and material costs associated with the incident.



Summary

The IC needs to work with the state or local Radiation Authority to ensure that all equipment used in the incident has been surveyed then properly decontaminated or disposed of as needed.



Questions

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