16	SOME OTHER THINGS ABOUT TYPE B PACKAGES YOU SHOULD KNOW
	TYPE B PACKAGES MUST INCORPORATE A FEATURE THAT SHOWS THE PACKAGE HAS NOT BEEN OPENED BY UNAUTHORIZED PERSONS.
	MUST BE PERMANENTLY MARKED WITH ITS MODEL NUMBER, SERIAL NUMBER, GROSS WEIGHT, AND PACKAGE IDENTIFICATION NUMBER.
	MUST BE PERMANENTLY MARKED "TYPE B".
17	THIS CONCLUDES MODULE 6. IN MODULE 7, WE WILL SHOW YOU SOME OF THE RADIOLOGICAL MATERIAL YOU MAY ENCOUNTER AS AN EMERGENCY RESPONDER.

13	TYPE B CONTAINERS MUST UNDERGO TESTING FAR MORE
15	DEMANDING THAN TYPE A
	DEMANDING THAN TIPE A.
	TYPE B SHIPPING CONTAINERS MUST WITHSTAND ALL OF THE
	TYPE A TESTS, PLUS THE FOLLOWING TYPE B TESTS:
	A DROP OF 30 FEET ONTO A HARD, UNYIELDING SURFACE,
	STRIKING THE WEAKEST POINT OF THE CONTAINER
	BEING DROPPED ONTO A STEEL ROD 6 INCHES IN DIAMETER AND 8
	INCHES LONG FROM A HEIGHT OF 40 INCHES.
	BEING EXPOSED TO A FLAMMABLE LIOUID FUELED POOL FIRE
	WITH A TEMPERATURE OF 1, 475 DEGREES FOR AT LEAST 30
	MINUTES
	SUBMERGED IN A POOL OF WATER NOT LESS THAN FIFTY FEFT
	DEEP FOR AT LEAST & HOURS
	DELI TOR AT ELAST O HOOKS.
	AS WITH THE TYPE A PACKAGES. THE TYPE B MUST PASS THESE
	TESTS WITHOUT ANY LEAKAGE
	TESTS WITHOUT ANT LEARAOE.
14	IN SOME CASES, THE CONTAINEDS ARE TESTED UNDER
14	CONDITIONS THAT ARE FAR REVOND WHAT MAY RE EXPECTED IN
	DEAL WORLD CONDITIONS AS SHOWN IN THESE DICTUDES
	REAL WORLD CONDITIONS, AS SHOWN IN THESE FICTURES.
	THIS TYPE D CONTAINED WAS CDASHED INTO A 600 TOME
	CONCRETE DADIED AT 60 MILE DED HOUD WITH E THE VELLOW
	CONCRETE BARKIER AT 00 MILE PER HOUR. WHILE THE TELLOW
	IMPACT CUSHION MATERIAL AND THE CAB OF THE TRUCK WERE
	BOTH DESTROYED, THE CONTAINER DID NOT FAIL.
1 -	
15	IN ANOTHER TEST, A DIFFERENT TYPE OF CONTAINER IS CRASHED
	INTO THE SAME 690 TON WALL WHILE CARRIED ON A TRAIN CAR
	MOVING AT 81 MILES PER HOUR. AS WITH THE TRUCK TEST, THE
	CUSHIONING FEATURES OF THE PACKAGE COUPLED WITH THE
	STRENGTH OF CONSTRUCTION KEPT THE CONTENTS SAFE.

10	IT IS IMPORTANT FOR YOU TO UNDERSTAND
	ALL TYPE A PACKAGES WILL HAVE "TYPE A" PRINTED ON THE
	PACKAGE, AND WILL HAVE A RADIOACTIVE LABEL APPLIED.
	TYPE A CONTAINERS ARE DESIGNED TO WITHSTAND ORDINARY
	SHIPPING AND HANDLING CONDITIONS.
	MOST IMPORTANTLY, TYPE A PACKAGES WILL NEVER CONTAIN
	LIFE ENDANGERING QUANTITIES OF RADIOACTIVE MATERIAL.
11	FOR HIGHER LEVELS OF RADIOLOGICAL MATERIAL, THE TYPE B
	CONTAINER MUST BE USED.
	TYPE B PACKAGES ARE TIGHTER, STRONGER, AND HEAVIER THAN TYPE A.
	AND AS SHOWN IN THESE PICTURES. TYPE B CONTAINERS ALSO
	COME IN A VARIETY OF SIZES AND SHAPES.
12	THESE ARE ALSO TYPE B PACKAGES.
	YOU MAY SEEN THE ONES IN THE RIGHT HAND PICTURE ON OUR
	HIGHWAYS. THESE ARE CALLED TRUPAC SHIPPING CASKS, AND
	STORAGE FACILITY IN NEW MEXICO.

7	THIS IS A TYPICAL TYPE A PACKAGE YOU MIGHT ENCOUNTER IN A
	TRANSPORTATION ACCIDENT. IT RESEMBLES AN ORDINARY
	CARDBOARD BOX FROM THE OUTSIDE.
	INSIDE, YOU CAN SEE HOW THE PACKAGING IS ARRANGED. THERE
	IS A DIVIDER TO HOLD STYROFOAM POPCORN AROUND THE
	CENTRAL CHAMBER. INSIDE THE CENTER IS THE RADIOACTIVE
	MATERIAL WHICH IS INSIDE A LEAD CONTAINER CALLED A PIG.
	THIS PIG IS, IN TURN, PLACED INSIDE A SEALED CAN.
	LOOKING CLOSER AT THE BOX, THERE ARE SOME ADDITIONAL
	REQUIRED LABELS. FIRST IS THE PRINTED SPECIFICATION THAT
	THIS IS A TYPE A PACKAGE.
	SECOND ARE THE TWO ARROWS POINTING UP. THIS NOT ONLY
	SHOWS THE CORRECT ORIENTATION FOR THE PACKAGE, BUT
	INDICATES THAT THE CONTENTS ARE A LIQUID
	FINALLY, THE DESCRIPTION OF THE CONTENTS, INCLUDING THE U
	N NUMBER ARE PRINTED ON THE OUTSIDE.
	AS YOU CAN SEE, EVEN THIS SEEMINGLY SIMPLE CARDBOARD
	BOX IS ACTUALLY A WELL DESIGNED SYSTEM WHICH PROVIDES A
	LOT OF PROTECTION FOR THE CONTENTS.
0	
8	SHOWN HERE IS A COMPLETELY DIFFERENT TYPE A PACKAGE.
	THIS LOOKS LIKE A CARRYING CASE, WITH A YELLOW 2 LABEL.
	AS WITH THE BOX. THIS CASE ALSO HAS THE TYPE A
	DESIGNATION PRINTED ON IT. AND HAS THE ORIENTATION
	ARROWS.
	INSIDE, THIS CASE HAS SEVERAL LEAD CONTAINERS PROTECTED
	BY CUSHIONING.
9	THE MOST COMMON TYPE A MATERIALS ARE
	RADIOPHARMACEUTICALS USED IN MEDICAL TESTING AND
	TREATMENT.
	SOME KADIOPHARMACEUTICALS INCLUDE RADIOIODINE, IRIDIUM,
	IECHNEHUM, AND GALLIUM.

4	THE NEXT LEVEL IS DESIGNATED AS TYPE A PACKAGING.
	MATERIALS SHIPPED IN TYPE A PACKAGING ARE SMALL
	AMOUNTS OF RADIOACTIVE MATERIAL. TYPE A PACKAGES MUST
	MEET FEDERAL REQUIREMENTS.
5	TYPE A PACKAGES MUST UNDERGO A SERIES OF TESTS BEFORE
	BEING USED TO TRANSPORT RADIOLOGICAL MATERIAL. THESE
	TESTS INCLUDE:
	BEING SUBJECTED TO A WATER SPRAY THAT SIMULATES A 2 INCH
	PER HOUR RAINFALL FOR AT LEAST ONE HOUR
	BEING DROPPED ONTO A HARD FLAT SURFACE
	HAVING A WEIGHT AT LEAST 5 TIMES THE WEIGHT OF THE
	PACKAGE STACKED ON TOP OF IT FOR AT LEAST 24 HOURS
	AND HAVING A ONE AND A QUARTER INCH 13 POUND STEEL BAR
	DROPPED ONTO IT FROM A DISTANCE OF 3 3 FEET ABOVE THE
	PACKAGE
	ONLY IF THE PACKAGE PASSES ALL OF THESE TESTS WITHOUT
	ALLOWING THE CONTENTS TO BE DAMAGED IS IT APPROVED FOR
	LISE IN SHIPPING
6	THIS ARE EXAMPLES OF TYPE A PACKAGING AS YOU CAN SEE
0	THE PACKAGES ARE OUTE DIFFERENT IN SIZE SHAPE
	CONSTRUCTION AND USE
	CONSTRUCTION, AND USE.

FOSTER ON LINE NARRATION SCRIPT

MODULE: 6

SLIDE	NARRATION
1	IN MODULE SIX, YOU WILL BEGIN TO UNDERSTAND THE ROLE
	PACKAGING PLAYS IN PROTECTING YOU AND THE PUBLIC FROM
	THE HAZARDS OF RADIOLOGICAL MATERIAL.
2	AS A RESPONDER, YOU SHOULD BE AWARE THAT RAM COMES IN
	PACKAGES OF ALL SIZES AND SHAPES. YOU WILL SEE SOME
	EXAMPLES OF THIS SHORTLY.
	THESE DACKAGES CAN DE ANV WEIGHT DUT GENEDALLY DAM
	DACKAGING IS MUCH HEAVIED THAN THAT USED FOD OTHED
	MATERIALS
	RAM IS ALSO SHIPPED VIA ALL MODES OF TRANSPORT. MOST
	COMMONLY IT IS SHIPPED BY TRUCK, BUT IT IS ALSO SHIPPED BY
	AIR, WATER, AND RAIL.
	FINALLY, AND IMPORTANTLY, UNLIKE OTHER PACKAGING, ANY
	RADIOACTIVE MATERIAL THAT COULD POTENTIALLY HARM YOU
	OR THE ENVIRONMENT MUST BE SHIPPED IN PACKAGING THAT IS
	CONSTRUCTED TO MEET STRINGENT FEDERAL STANDARDS.
2	THE LEAST HAZADDOUS CLASS OF DACKACING IS FOD WHAT IS
3	THE LEAST HAZARDOUS CLASS OF PACKAGING IS FOR WHAT IS CALLED EVCEDTED MATERIAL THESE ARE MATERIALS THAT
	HAVE VERY LIMITED AMOUNTS OF RADIOACTIVE MATERIAL AND
	THE MATERIAL IS INCORPORATED INTO A SPECIFIC ITEM
	PACK AGING FOR THESE MATERIALS IS NOT SUBJECT TO ANY
	SPECIAL FEDERAL DESIGN REOUIREMENTS.
	THE EXCEPTED PACKAGE IS NOT REQUIRED TO HAVE A
	RADIOACTIVE LABEL.
	THESE MATERIALS ARE SHIPPED VIA COMMON CARRIER, AND ARE
	NOT CLASSIFIED AS HAZARDOUS CARGO.
	GOME EVANDIES OF EXCEPTED MATERIALS NOT USE SMOVE
	SOME EXAMPLES OF EXCEPTED MATERIALS INCLUDE SMOKE
	DETECTORS, SELF-ILLUMINATED EXIT SIGNS, AND TRITIUM GUN
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