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Legal Weight Truck/ Tractor Trailer Testing

Presentation to the Nuclear Waste Technical Review Board Arlington, Virginia

T. C. Smith June 14, 1995

Outline

- Why we need a legal weight truck (LWT)
- LWT test background
- Test results to date
- Programmed test results

Why We Need a Legal Weight Truck

- Requirement to move some spent nuclear fuel by legal weight truck is known
- LWT system must comply with weight restrictions outlined in 1982 Surface Transportation Act
- LWT system could support transport of spent nuclear fuel via GA-4/GA-9 casks as early as 1998

Legal Weight Truck Test Background

- Nuclear Waste Technical Review Board briefed July 13, 1994
- Test broken down into two basic parts
 - Durability of the GA-9 trailer
 - Operational assessment of LWT transport system
- Durability test of GA-9 trailer completed
 - 240,000 equivalent miles completed February 16, 1995

Test Results to Date

- Trailer designed, constructed, and tested in accordance with ANSI N14.30 standards
- Durability test verified overall structural integrity
 - All cracks occurred at connections
 - Stiffeners and gussets should not be welded around ends
 - Some structural connections required design mods
 - X-brace connections need reinforcement
- Trailer refurbished, inspected, and accepted by DOE in April 1995

Programmed Test Events



- Performance test—May 1995
- Human factors considerations— August 1995
- Over-the-road assessment—April 1996 - June 1996

Emphasis
Shifts from
Trailer to Tractor

Civilian Radioactive Waste Management System

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