

Status Briefing on Staff Response to the Baltimore Tunnel Fire Accident

1/12



CHRISTOPHER S. BAJWA

SPENT FUEL PROJECT OFFICE

OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

APRIL 10, 2002

ROCKVILLE, MD

INTRODUCTION

- BALTIMORE TUNNEL FIRE EVENT
- INITIAL STAFF EFFORTS
- ONGOING ACTIVITIES
- SCHEDULE

BALTIMORE TUNNEL FIRE

- JULY 18TH, 2001
- HOWARD STREET TUNNEL
- CSX FREIGHT TRAIN
- DERAILMENT AND FIRE
 - TRIPROPYLENE

INITIAL STAFF EFFORTS

- MEETINGS WITH NTSB
- PRELIMINARY CASK ANALYSIS
- PRESENTED RESULTS AT NSRC

CURRENT WORK

- DEVELOPMENT OF FIRE MODEL (NIST)
- REFINEMENT OF CASK MODEL (PNNL)
- COORDINATION WITH NTSB

FUTURE WORK

- APPLY TUNNEL FIRE MODEL RESULTS
- COMPLETE REFINED CASK ANALYSIS
- REPORT RESULTS

SCHEDULE

- REFINED CASK MODEL
 - JULY 2002
- TUNNEL FIRE MODEL RESULTS
 - AUGUST 2002
- REVISED CASK ANALYSIS
 - OCTOBER 2002
- COMMISSION PAPER
 - DECEMBER 2002

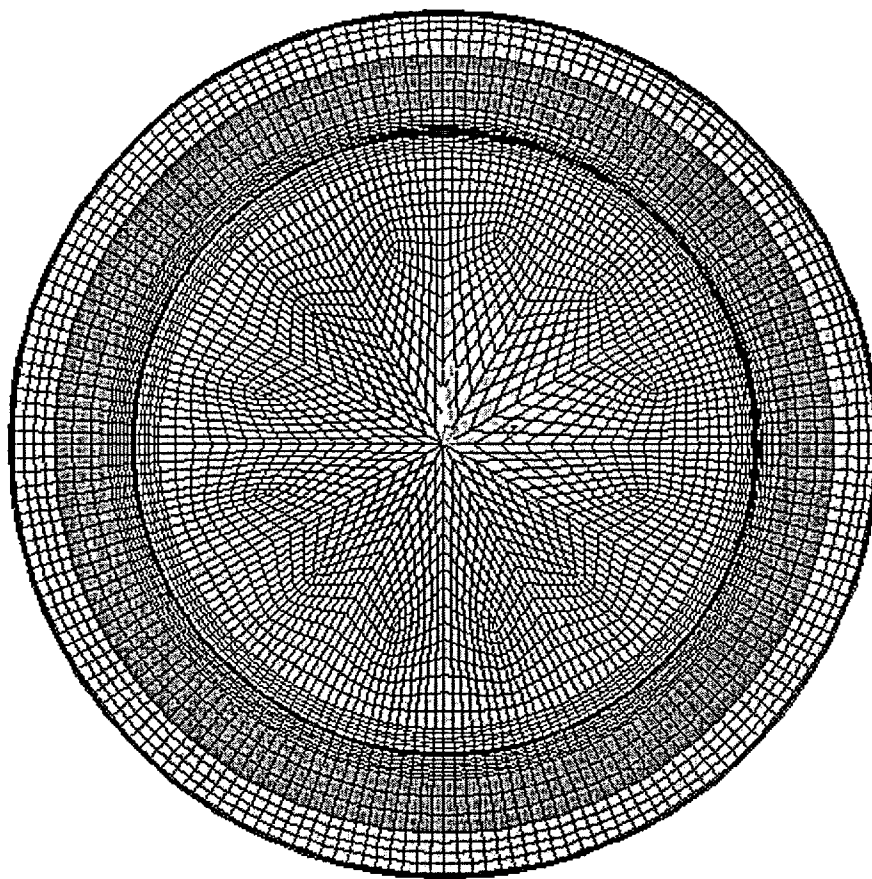
SUPPLEMENTARY SLIDES

- ANSYS ANALYSIS MODEL
- NIST TUNNEL MODEL
- NIST TUNNEL FIRE MODEL

ANSYS ANALYSIS MODEL

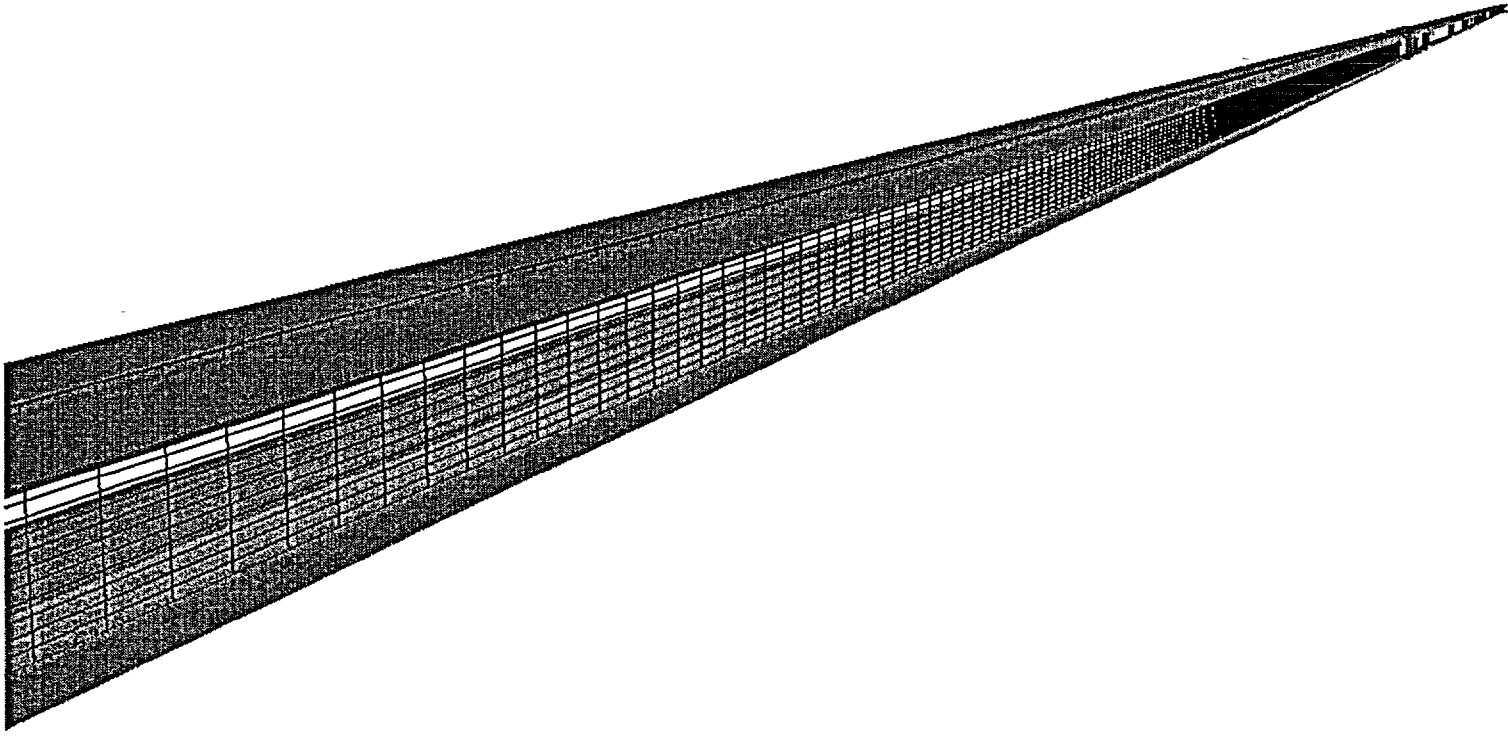
1
ELEMENTS
MAT NUM

AN
MAR 15 2002
10:52:19
PLOT NO. 1



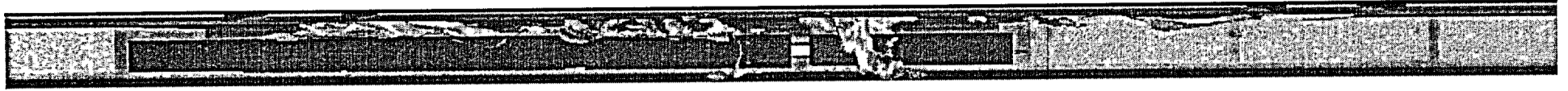
Transport Cask Tunnel Fire Analysis

NIST TUNNEL MODEL



block 1
x2 15

NIST TUNNEL FIRE MODEL



block. 1

Frame 18
Time 162



block. 1

Frame 18
Time 162

15
13
12
10
90
75
60
45
30
15
0