

(27)

### DOE SOURCE SELECTION JUSTIFICATION

2 JOB CODE TITLE

Terrorist Events Assessments for Transportation and Storage of Radioactive Materials

3 SELECTED SOURCE

Sandia National Laboratory

4 BASIS FOR SELECTION (Describe the basis for selection of source. Narrative must be compelling and supported by facts. See Handbook 11.7, Part I.)

The purpose for this contract is to assess terrorist events on transportation and storage of nuclear materials. This activity is in partial response to the September 11, 2001 terrorist events at New York City and the Pentagon.

One critical elements of this contract includes modeling a [redacted] crashing into casks. This program will utilize the [redacted] model developed by RES in its sabotage analyses on Reactor Containment Buildings. Another critical element includes consequence analyses resulting from sabotage or terrorist activities. SNL is the only laboratory with a [redacted] structural model and a super computer capable of performing this analysis. Discussions with [redacted] indicated that they are not interested in performing such analyses for the NRC. Ex 2

In addition, SNL is the only laboratory with experience in [redacted] and consequence analyses for transportation and storage of radioactive materials. They have experimental data from simulated casks and depleted uranium exploded by HDD and the structural, source terms, and consequence computer codes required for this project.

5 PROJECT MANAGER (Typed name and title)

Mahendra Shah

ORGANIZATION (Office/Division/Branch)

NMSS/SFPO/TRD/TRB

SIGNATURE

Mahendra J. Shah

DATE

1/7/02

6 RECOMMENDED - ASSOCIATE COMPETITION ADVOCATE (Typed name)

SIGNATURE

DATE

APPROVAL - OFFICE DIRECTOR OR DESIGNEE (Typed name)

Petersons Ex 2

SIGNATURE

DATE

E/S