

FORM PTO-1619A  
Expires 08/30/99  
OMB 0651-0027

U.S. Department of Commerce  
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Name (line 1) U. S. Department of Energy

Name (line 2)

Address (line 1) 1000 Independence Avenue, S.W.

Address (line 2)

Address (line 3) Washington

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**PATENT**  
REEL: 014317 FRAME: 0047

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PATENT

## Correspondent Name and Address

Area Code and Telephone Number

202-586-2810

Name Betty A. WinchesterAddress (line 1) U. S. Department of EnergyAddress (line 2) 1000 Independence Avenue, S.W.Address (line 3) Washington, D. C. 20585-0162Address (line 4) 

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Patent Application Number(s)

10/714,703

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application  
was

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## Patent Cooperation Treaty (PCT)

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10/114 703  
SD-7370/S100450  
January 21, 2004

## CONFIRMATORY LICENSE

Application for: **MEASURING IN-SITU MDF VELOCITY OF DETONATION**  
Inventors: **Frank M. Horine and James B. Forrest, Jr.**  
Serial Number: 10/714,703  
Filing Date: 11/17/2003  
Contract No.: DE-AC04-94AL85000  
Contractor: Sandia Corporation

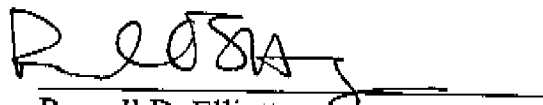
The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provisions of the above-numbered contract certified on January 9, 1996, governing patent rights in the Subject Invention at the time the invention was made, has been submitted to the U. S. Department of Energy.

The contractor hereby confirms that under the provisions of the above-numbered contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid up license to practice or have practiced for or on behalf of the United States the Subject Invention throughout the world. This license applies to the invention in the above-identified patent application and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

It is understood and agreed that this document does not preclude the Government from asserting rights under the provisions of said contract or any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

The Contractor hereby grants the Government an irrevocable power to inspect and make copies of the above-identified application.

Signed this 23<sup>rd</sup> day of January 2004.

  
Russell D. Elliott  
Director of Intellectual Property

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