

Proton Radiography Proposal Form

Submit to: Los Alamos National Laboratory, LANSCE User Office, Los Alamos, NM 87545
 UNCLASSIFIED materials to MS H831, CLASSIFIED materials to MS H803

Title:	<i>(To be completed by LANSCE)</i>	
	Number	Date Received

Name of Shot Series
 Number of shots previously fired in this series: _____ Classification level: _____
 Number of dynamic shots proposed: _____ Needs proofing Has been proofed
 Number of static measurements proposed (describe):

Principal Investigator: _____ Citizenship: _____
 Institution & Address: _____
 Phone: _____ Fax: _____ E-mail: _____

Co-Investigators (attach additional sheets if necessary)	Institution	Citizenship	E-mail Address

Primary pRad Team Contact:

Estimated amount of beam time for static and dynamic experiments: _____
 Dates Desired: _____ Impossible Dates: _____
 Milestone requirements from external programs (describe):

For statistical purposes, please categorize your proposal:

RESEARCH AREA (check all that apply)	FUNDING AGENCY (check all that apply)
<input type="checkbox"/> Defense Science	<input type="checkbox"/> DOE/DP (campaign) _____
<input type="checkbox"/> Engineering	<input type="checkbox"/> LDRD (title) _____
<input type="checkbox"/> Materials Science	<input type="checkbox"/> DOD _____
<input type="checkbox"/> Medical Applications	<input type="checkbox"/> Industry (describe) _____
<input type="checkbox"/> Nuclear Physics	<input type="checkbox"/> Other US Gov't: _____
<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____

PROTON RADIOGRAPHY SAFETY & EXPERIMENTAL DETAILS

Shot Configuration

<input type="checkbox"/> Explosive Experiment _____ _____	<input type="checkbox"/> Gas handling systems (specify): _____ _____
HE weight (TNT eqv.) _____ (< _____ lbs) Type: _____	
Fire set requirements (specify proposed detonator and special fire set needs): _____ _____ _____	
Firing Temperature (specify acceptable range): _____	
Inert Materials Material: _____ Quantity: _____ _____ _____ _____ _____	

Radiographic Configuration

Minimum Field of View: _____	Minimum # of Frames: _____
Timing requirements Explosive: _____	Spacing: _____
<input type="checkbox"/> 4' vessel, -I system, two planes ~14-21 radiograph times, 120 mm FOV	
<input type="checkbox"/> 6' vessel, -I system, two image planes ~14-21 radiograph times, 120 mm FOV	
<input type="checkbox"/> 4' vessel, -I X3 system, one image plane, 5-7 radiograph times, 40 mm FOV	
Optical magnification (specify): _____ _____	
Scintillator requirements (specify): _____ _____	

Static Measurements

Motion Control: _____ _____ _____
Alignment: _____ _____ _____
Describe Radioactive Materials: _____ _____ _____

PROTON RADIOGRAPHY SAFETY & EXPERIMENTAL DETAILS (Continued)**Diagnostics**

<input type="checkbox"/> VISAR (minimum number of measurement points):
<input type="checkbox"/> Pins (specify material, type number and readout requirements): _____ _____
<input type="checkbox"/> Other: _____

Safety

<input type="checkbox"/> Proposed experiment known to be outside existing authorization basis (if yes, explain): _____ _____ _____
<input type="checkbox"/> Proposed experiment introduces known hazards outside existing HCP (if yes, explain): _____ _____ _____

Status

<input type="checkbox"/> Parts have been designed.
<input type="checkbox"/> Parts have been designed, not fabricated. Specify expected fabrication date: _____
<input type="checkbox"/> Parts have been fabricated, ready for proof or experiment.

Pre-shot Calculations

<input type="checkbox"/> Pre-shot calculations have been completed (describe): _____ _____ _____
<input type="checkbox"/> Pre-shot calculations have not been completed (expected completion date): _____ _____ _____

I certify that the above information is correct to the best of my knowledge. **E-mail submission by the Principal Investigator constitutes signature. Do not follow up with a hard copy.**

Signature_____
Printed name_____
Date

DETAILED DESCRIPTION OF THE EXPERIMENT OR ACTIVITY

(Describe the science of engineering research being addressed, importance, and a description of how this experiment campaign will contribute to the progress of this research.)

DETAILED DESCRIPTION OF THE EXPERIMENT OR ACTIVITY (continued)