LANSCE
Los Alamos Neutron Science Center

Research Proposal for the use of Neutron Science Facilities (NS)

Proposal Number:
Date Received:

☐ **Fast Access** ☐ **Proprietary**

Title:	
Continuation of Proposal #:	
Ph.D Thesis for:	
Topical Area:	
Flight Path/Instrument:	1FP05-A/ER1
Estimated Total Beam Time (days):	
Principal Investigator:	
Institution:	
Citizenship:	
Phone:	
Email:	
Local Contact:	

Co-Proposer	Institution	Citizenship	Email Address

Research Area	Funding Agency
☐ Astrophysics ☐ Defense Science/Weapons Physics ☐ Dosimetry/Medical/Biological ☐ Earth/Space Sciences ☐ Electronic Device Testing ☐ Few Body Physics ☐ Fission ☐ Fundamental Physics ☐ Instrument Development and Technique ☐ Materials Property/Testing ☐ Neutron Physics ☐ Nuclear Physics/Chemistry ☐ Nuclear/Accelerator/Reactor Engineering ☐ Radiography ☐ Reactions ☐ Spectroscopy ☐ Threat Reduction/Homeland Security ☐ Other:	☐ DOE/NA-10 (DSW) ☐ DOE/NA-10 (Science Campaigns) ☐ DOE/NA-20 (Non-Proliferation) ☐ DOE/Nuclear Energy ☐ DOE/Office of Science ☐ DOE/Other ☐ Industry ☐ LDRD ☐ University (non-SSAA) ☐ University (SSAA) ☐ Other: _____

Publications

Brief Description

Resources/Safety

Beam Parameters

- ☐ Standard WNR Target 4 (1.8 us micropulse spacing)
- ☐ WNR Target 2 / Blue Room
- ☐ Standard Lujan (20 Hz max. current)
- ☐ Other:

Linac Beam (steady, continuous beam)

Sample Materials

Sample Description/Chemical Name (ex: iron oxide)

Mass (grams) OR Volume (cm^3)

Chemical Composition of Sample (ex: Fe203) (ex: Fe203)

Number of Samples with this Chemical Composition and this Mass or Volume

Are sample containers required? ☐ Yes ☐ No

Physical State

Solid

Sample Disposition

Retained and Stored at LANL for Future Use

Hazardous? ☐ Yes ☐ No

Radioactive? ☐ Yes ☐ No

User Supplied Equipment

☐ None ☐ Other:

Please Specify. Include electrical equipment with voltages > 50 V.

Data Acquisition

☐ No Data Acquisition Required
☐ User Supplied
☐ WNR Supplied

Please specify data acquisition requirements or user equipment

Facility Requirements or Modifications

☐ Standard Configuration
☐ Special Configuration (select all systems below that require non-standard configuration)

☐ air	☐ cooling	☐ user provided sample can
☐ alarms	☐ electrical	☐ vacuum
☐ beam lines	☐ interlocks	☐ other:
☐ collimation	☐ shielding	
☐ control	☐ shutters	

Hazard Concerns

- ☐ None
- ☐ Biological hazards
- ☐ Chemical hazards
- ☐ Compressed gases/high pressure (> 15 psi)
- ☐ Energized electrical equipment (exposed conductors)
- ☐ Explosives
- ☐ High magnetic fields
- ☐ High temperatures
- ☐ Hydraulic systems
- ☐ Hydrogen/deuterium/other flammable gases
- ☐ Lasers (>5 mw)
- ☐ Low temperatures or cryogens
- ☐ Radio frequency/microwave fields
- ☐ Radioactive material or sources
- ☐ Toxic gases
- ☐ Unbound engineered nanoparticles
- ☐ Vacuum or pressure vessels
- ☐ Waste (biological, chemical, radioactive, other)
- ☐ Other

Please provide details for all checked items

Waste Generation

- ☐ None or not sure
- ☐ Radioactive Waste
- ☐ Hazardous (chemical or other) Waste
- ☐ Mixed (hazardous + radioactive) Waste
- ☐ Nanoparticle

Storage and disposal path. For each generated waste please provide name of chemical, physical state, and quantity (ml, mg) of waste generated: Example: acetone 10 ml liquid

Special Procedures

- ☐ None - standard facility and flight path procedures only
- ☐ Not sure
- ☐ Special

Provide Details for Special Procedures:

Anticipated Personnel Dose Evaluations

- ☐ Don't know
- ☐ Less than 50 mrem
- ☐ Greater than 50 mrem

Please describe basis for dose estimate: