ABBREVIATIONS & ACRONYMS

Α	
A/E	Architecture-Engineering
AIP	Accelerator Improvement Project
ALARA	as low as reasonably achievable
ALD	Associate Laboratory Director
ANSI	American National Standards Institute
AoA	Analysis of Alternatives
APS	Advanced Photon Source-Upgrade
ATS	automatic transfer switch
В	
Be	beryllium
BES	Basic Energy Sciences
BCM	beam current monitor
BI	Beam Instrumentation
BIM	building information modeling
Bio-SANS	biological samples
BLM	beam loss monitor
BMP	best management practices
BOA	basic ordering agreement
BOE	Basis of Estimate
С	
CAD	computer-aided design
CDB	Critical Decision
CDR	component database
CEC	Conceptual Design Review or Report
CEF	credited engineering control
CF	Central Exhaust Facility
Cfm	Conventional Facilities
CHESS	cubic feet per minute
CLO	Cornell High Energy Synchrotron
CM/GC	Source
CM/GC	Central Lab and Office
CM/GC	Construction Management/General
CMS	Contractor
CNMS	cryogenic moderator system
COTS	Center for Nanophase Materials
CSMB	Sciences
CSNS	Commercial off the shelf
CUB	Center for Structural Molecular Biology
CSNS	China Spallation Neutron Source
CUB	Central Utilities Building
CW	cooling water
CY	cubic yard
CYGNUS	SANS / WANS
D	
DAC	Design Analysis Calculation
DAGMC	Direct Accelerated Geometry Monte

Carlo

DAQ DI DIWS DOE DOE-SC	data acquisition deionized Deionized Water System Department of Energy Department of Energy Office of Science			
DWV	Science drain waste vent			
E				
EB EL EOC EPICS ESAAB ESS ETC EVMS EWALD	electron beam event link element of cost Experimental Physics and Industrial Control System Energy Systems Acquisition Advisory Board European Spallation Source estimate to completion Earned Value Management System Enhanced Wide-Angle Laue			
F	Diffactometer			
FFTB FM FODO FPGA fpm fps FTE FTS FY	Final Focus Test Beam ferromagnetic focus-drift-defocus-drift field programmable gate array feet per minute feet per second or fast protection system Full Time Equivalent First Target Station fiscal year			
G				
GC GeV GFE gsf GUI	General Contractor giga-electron volt government furnished equipment gross square footage graphical user interface			
н				
H ₂ HA HAP He HEPA HFIR HMF HOG HPM	hydrogen Hazard Analysis hazardous air pollutant helium high-efficiency particulate air High Flux Isotope Reactor high magnetic field hot off gas high-power protection module			

ABBREVIATIONS & ACRONYMS

HPSS HUR HVAC Hz	high-performance storage system hydrogen utility room heating, ventilation, and air conditioning hertz
<u>I</u>	
I&C I/O IC ICS INEL ISIS IOC IPPS IPR IPT IR IRP IT	instrumentation and control input/output integrated controls Integrated Control Systems Idaho National Engineering Laboratory ISIS Neutron & Muon Source Input/Output controller Instrument Personnel Protection System Independent Project Review integrated project team infrared inner reflector plug information technology
J	
J-PARC	Japan Proton Accelerator Research Complex
К	
KPP kW	Key Performance Parameter kilowatt
L	
LCLS LED LENS LLC LLLW LLRF LOE LVDT	Linac Coherent Light Source-II light-emitting diode Low Energy Neutron Source limited liability company low-level liquid waste low-level radio frequency level of effort linear variable differential transformer fuzzy chart
Μ	
MCN MCNP MPS mrem MRA MRF	Machine Controls Network Monte Carlo N-Particle transport code Machine Protection System millirem moderator reflector assembly Micro-Research Finland

MUTS MW	Mock-up Test Stand megawatt		
N			
NCNR NeXus	NIST Center for Neutron Research neutron and x-ray scattering		
NNSS NScD nsf NSLS-II NTS	Nevada National Security Site Neutron Sciences Directorate net square footage National Synchrotron Light Source-II Nevada Test Site		
0			
OH OPC OPI ORNL OSO	overhead Other Project Costs Operator Interface Oak Ridge National Laboratory ORNL Site Office		
P			
PARS-IIe PBW PEP PF PHAR PIE PLC PPEP PPS PPU psf PSI PV	Project Assessment and Reporting System proton beam window Project Execution Plan Proton Facility Preliminary Hazard Analysis Report Post Irradiation Examination programmable logic controller Preliminary Project Execution Plan Personnel Protection System Proton Power Upgrade pounds per square foot Paul Scherrer Institute process variable		
Q			
QA QA&VP	quality assurance quality assurance and validation process		
QAP QIKR QSL	Quality Assurance Program Quite Intense Kinetics Reflectometer quantum spin liquid		
R			
RF RPS RSB	radio frequency run permit system Ring Service Building		

ABBREVIATIONS & ACRONYMS

RTBT RTDL	Ring to Beam Target real-time data link	X	
RTST	Ring to Second Target	XPS	x-ray photoelectron spectroscopy
S		7	
SANS SC	small-angle neutron scattering Office of Science	∠ Zr	Zirconium
SCL SE	superconducting linac Sample Environment	_	
SF SING SLAC	Square loot SNS Instrument – Next Generation SLAC National Accelerator Laboratory		
SLS SME	Swiss Light Source subject matter expert		
SNS SOW SS	Spallation Neutron Source statement of work stainless steel		
STPPS	Second Target Personnel Protection System		
STS	Second Target Station		
т			
Ta TEC TPC TPS	tantalum Total Estimated Cost total project cost Target Protection System		
TTOP TVP	Transition to Operation Parameters target viewing periscope		
U			
UL UPS UTC	Underwriters Laboratories uninterruptible power supply Coordinated Universal Time		
V			
VAV VE VERDI VFD VME	variable air volume value engineering or vendor estimate Versatile Diffractometer variable-frequency drive Versa Module Europa		
W			
W WANS	tungsten wide-angle neutron scattering		
WAXS WBS	wide-angle x-ray scattering Work Breakdown Structure		