

Acronyms

AFM	Atomic Force Microscope
ALS EPU	Advanced Light Source Elliptically Polarized Undulator
ANL	Argonne National Laboratory
APD	Avalanche Photodiode
APS	Advanced Photon Source
APS RES	Advanced Photon Source - Research Initiative
APSUO	Advanced Photon Source Users Organization
ASD	Accelerator Systems Division
BCM	Bent-Crystal Monochromator
BCTF	Beamline Component Test Facility
BESSY	Berliner Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung
BM	Bending Magnet
BNL	Brookhaven National Laboratory
BPM	Beam Position Monitor
CAT	Collaborative Access Team
CBT	Computer-Based Training
CCD	Charge Coupled Device
CCST	Coordination Council for Science and Technology
CHES	Cornell High Energy Synchrotron Source
CM	Configuration Management
CMS	Chemical Management System
CMB	Center for Mechanistic Biology and Biotechnology at ANL
CPU	Circularly Polarized Undulator
CT	Compact Tension
CVD	Chemical Vapor Deposition
DCM	Double-Crystal Monochromator
DEC	Digital Equipment Corporation
DESY	Deutsches Elektronen-Synchrotron
DI	Deionized Water
DMM	Double-Multilayer Monochromator
DOE	Department of Energy
DOT	Department of Transportation
DX	Design Exchange
DXRL	Deep X-ray Lithography
EMW	Elliptical Multipole Wiggler
EPICS	Experimental Physics and Industrial Control System
EPS	Equipment Protection System
EQO	ESH/QA Oversight Group
ER	Environmental Research
ESAF	Experiment Safety Approval Form
ES&H (or ESH)	Environmental, Safety and Health
ESH-TR	ESH Division's Training Section
ESRF	European Synchrotron Radiation Facility
ETS	Equipment Tracking System

FDR	Final Design Report
FE	Front End
FEA	Finite Element Analysis
FEEPS	Front-End Equipment Protection System
FEL	Free-Electron Laser
FOE	First Optics Enclosure
FV	Fast Valve
FWHM	Full Width Half Maximum
GERT	General Employee Radiation Training
HazMats	Hazardous Materials
HDF	Hierarchical Data Format
ID	Insertion Device
II	Independent Investigator
IIP	Individual Investigator Program
IOC	Input/Output Controller
IR	Infra-Red
ISI	Interlock Systems and Instrumentation
ISM	Integrated Safety Management
JHQ	Job Hazard Questionnaire
LDAE	Laser Doppler Angular Encoder
LDDM	Laser Doppler Displacement Meter
LDRD	Laboratory Directed Research & Development
LN ₂	Liquid Nitrogen
LOM	Laboratory/Office Module
LTP	Long Trace Profiler
LSO	Laser Safety Officer
MCD	Magnetic Circular Dichroism
MCS	Magnetic Compton Scattering
MEMS	Micro-Electromechanical Systems
MIT	Massachusetts Institute of Technology
MSD	Materials Science Division at ANL
OUI	Operator/User Interface
PDR	Preliminary Design Report
PEB	Program Evaluation Board
PHOENIX	Phonon Excitation by Nuclear Inelastic Absorption of X-rays
PLC	Programmable Logic Controller
PMMA	Polymethylmethacrylate
PS1	Photon Shutter 1
PS2	Photon Shutter 2
PSD	Power Spectral Density Function
PSS	Personnel Safety System
PZT	Piezoelectric Transducer
QA	Quality Assurance

RBC	Red Blood Cells
R&D	Research & Development
RE	Rare Earth
RF	Radio Frequency
RGA	Residual Gas Analyzer
rms	Root Mean Square
SASE	Self-Amplified Spontaneous Emission
SGM	Spherical Grating Monochromator
SI	Strategic Initiative
SPring	Super Photon Ring – 8 GeV (Japan)
SRI	Synchrotron Radiation Instrumentation
SXM	Scanning X-ray Microscope
TEY	Total Electron Yield
TLD	Thermoluminescent Dosimeter
TMS	Training Management System
TTL	Transistor-Transistor Logic
TTU	Topo Test Unit
UA2	Undulator A (sector 8)
UHV	Ultrahigh Vacuum
UTIG	User Technical Interface Group
VDOS	Vibrational Density of States
VUV	Vacuum Ultraviolet
XBPM	X-ray Beam Position Monitor
XFCS	X-ray Fluorescence Correlation Spectroscopy
XFD	Experimental Facilities Division
XFT	X-ray Fluorescence Tomography
XFM	X-ray Fluorescence Microscopy
XIFS	X-ray Intensity Fluctuation Spectroscopy
XMD	X-ray Microdiffraction
XMDC	X-ray Magnetic Circular Dichroism
XMSAS	X-ray Microbeam Small-Angle Scattering
XPS	X-ray Polarization and Spectroscopy