8. Chapter Eight, References/Acronyms/Units/Links

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8.2. Acronyms

AC – Alternating Current

ACS – Access Control System

AGS – Alternating Gradient Synchrotron

AHJ – Authority Having Jurisdiction

AISC - American Institute of Steel Construction

ALARA – As Low As Reasonably Achievable

ANSI – American National Standards Institute

ASE – Accelerator Safety Envelope

ASME - American Society of Mechanical Engineers

ASSRC – Accelerator Systems Safety Review Committee

ASTM - American Society for Testing and Materials

ATR – AGS to RHIC Transfer Line

ATS – Assessment Tracking System

AVS – American Vacuum Society

AWS – American Welding Society

BAF – Booster Applications Facility

BIS – Beam Instrumentation System

BHSO – Brookhaven Site Office

BLIP – Brookhaven Linac Isotope Producer

BNC – Baby N Connector (slang)

BNL – Brookhaven National Laboratory

BPM – Beam Position Monitor

BtA – Booster to AGS

BRAHAMS - Broad Range Hadron Magnetic Spectrometer

BSA – Brookhaven Science Associates

BTMS – Brookhaven Training Management System

C-A – Collider-Accelerator

CA – Controlled Access

CAP88-PC - Clean Air Act Computer Code

CAS – Collider-Accelerator Systems Watch

CASIM – Cascade Simulation Computer Code

CEE – Chief Electrical Engineer

CFR – Code of Federal Regulations

CGA – Compressed Gas Association

CME – Chief Mechanical Engineer

CP – Charge – Parity

DC – Direct Current

DCG – Derived Concentration Guides

DNA – Deoxyribonucleic Acid

DOE – Department of Energy

DOT – Department of Transportation

DWS – Drinking Water Standard

EAGAL – Experimental Area Group Alarm

EBIS – Electron Beam Ion Source

ECR – Environmental Compliance Representative

EJMA - Expansion Joint Manufacturers' Association

EMS – Environmental Management System

EPA – Environmental Protection Agency

ES&F – Experimental Support and Facilities Division

ESH – Environment, Safety and Health

ESHQ – Environment, Safety, Health and Quality

ESRC – Experimental Safety Review Committee

FEB – Fast External Beam

FHA – Fire Hazards Analysis

FUA – Facility Use Agreement

HEBT – High Energy Beam Transport

HENP – High Energy and Nuclear Physics

HEPA – High Efficiency Particulate Air (filter)

HITL – Heavy Ion Transfer Line

HTB – HITL to Booster Line

HV – High Voltage

HVAC – Heating, Venting and Air Conditioning

HZE – High Energy High Z Particles

IACUC – Institutional Animal Care and Use Committee

IBC – Institutional Biosafety Committee

IR – Interaction Region in RHIC

IRB – Institutional Review Board

ISM – Integrated Safety Management

ISO – International Standards Organization

KOPIO - K Zero to Pi Zero

LE – Liaison Engineer

LEC – Local Emergency Coordinator

LET – Linear Energy Transfer

LP – Liaison Physicist

LOTO – Lock Out / Tag Out

LRM – Long Radiation Monitor

MCNPX – Monte Carlo Neutron Photon Transport Computer Codes

MCL – Maximum Contaminant Level

MCR – Main Control Room

MEBT – Medium Energy Beam Transport

MECO - Muon to Electron Conversion

MHV – Miniature High Voltage

MMPS – Main Magnet Power Supply

MPFL - Maximum Possible Fire Loss

MS – Management System

MSS – Manufacturers Standardization Society

NASA – National Aeronautics and Space Administration

NCRP – National Council on Radiation Protection and Measurements

NEG – Non-Evaporative Getters

NEPA – National Environmental Policy Act

NESHAP - National Air Emission Standards for Hazardous Air Pollutants

NFPA – National Fire Protection Association

NIH – National Institutes of Health

NMC – Nuclear Measurements Corporation

NSRL – NASA Space Radiation Laboratory

NYS – New York State

OPM – Operations Procedure Manual

ORPS – Occurrence Reporting and Processing System

OSHA – Occupational Safety and Health Administration

OSH – Occupational Safety and Health

P2 – Pollution Prevention

PASS – Personnel Access Safety System

PCB – Poly Chlorinated Biphenyl

PE – Plant Engineering

PHENEX - Pioneering High Energy Nuclear Interaction eXperiment

PHOBOS - not an acronym

PLC – Programmable Logic Controller

PMT – Photo-Multiplier Tube

PPE – Personal Protective Equipment

PVC – Poly Vinyl Chloride

QA – Quality Assurance

QA1 – Quality Assurance Category 1

QGP – Quark Gluon Plasma

R2A2 – Roles, Responsibilities, Accountabilities and Authorities

RadCon – Radiological Control

RBE – Relative Biological Effectiveness

RCRBSJ - Research Council on Riveted and Bolted Structural Joints

RCT – Radiological Control Technician

RF – Radio Frequency

RFQ – Radio Frequency Quadrupole

RHIC – Relativistic Heavy Ion Collider

RSC – Radiation Safety Committee

RSVP - Rare Symmetry Violating Processes

RWP – Radiation Work Permit

S&T – Science and Technology

SACR – Scientific Advisory Committee for Radiobiology

SAD – Safety Assessment Document

SAR – Safety Analysis Report

SBC – Standard Building Code

SBMS – Standards Based Management System

SCBA – Self-Contained Breathing Apparatus

SCDHS – Suffolk County Department of Health Services

SEB – Slow External Beam

SEC – Secondary Emission Chamber

SEU – Single Event Upset

SFPC – Standard Fire Prevention Code

SLC – Allen Bradley Trade Mark for a given series of logic controller

SMCS - Safety Monitor and Control System

SPDES – State Pollution Discharge Elimination System

SSPC – Society for Protective Coatings

STAR - Solenoidal Tracker at RHIC

STP – Sewage Treatment Plant

SUNY – State University of New York

SWIC – Segmented Wire Ionization Chamber

TLD – Thermo-Luminescent Dosimeter

TTB – Tandem to Booster Transfer Line (HITL plus HTB)

TRIUMF - Canada's National Laboratory for Particle and Nuclear Physics

TVDG – Tandem Van De Graaff

UL- Underwriters Laboratories

UPS – Uninterruptible Power Supply

USDA – United States Department of Agriculture

VME - Versa Module Europa

WOSH – Worker Occupational Safety and Health

8.3. Units

GeV – billion electron volts, a unit of energy (1 GeV = $1x10^9$ electron volts)

Hz – hertz, a unit of frequency (1 Hz = 1 cycle/second)

MGD – a unit of volumetric flow rate, million gallons per day

mb – milli-barn, a unit of cross-sectional area (1 mb = 10^{-27} cm^2)

mil – a unit of length (1 mil = 0.001 inch)

mT – a unit of magnetic field strength (1 mT = 10 gauss)

mrad – a unit of absorbed dose (1mrad = $6.242x10^4$ GeV/g)

mrem – a unit of dose equivalent (1 mrem = 1 mrad x modifying factors)

ppm – a ratio of mass of component to mass of solution, parts per million

radian – a unit of angle (1 radian = $180^o/\pi$)

TP – a unit of protons (1 TP = $1x10^{12}$ protons)

Torr – a unit of pressure (1 Torr = 1 mm Hg)

μCi – a unit of radioactivity (1 μCi = $3.7x10^4$ disintegrations per second)