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ACRONYMS AND GLOSSARY

Acronyms

AHU	Air Handling Unit
AIDS	Acquired Immune Deficiency Syndrome
BAA	Broad Agency Announcement
BAS	Building Automation System
B-LAG	Biosafety Laboratory Advisory Group
BMBL	Biosafety in Microbiological and Biomedical Laboratories
BMC	Boston Medical Center
Boston-NBL	National Emerging Infectious Diseases Laboratory (Proposed Action)
BPHC	Boston Public Health Commission
BRA	Boston Redevelopment Authority
BSC	Biological Safety Cabinet
BPHC	Boston Public Health Commission
BSL	Biological Safety Level
BTD	Boston Transportation Department
BUMC	Boston University Medical Center
BWSC	Boston Water and Sewer Commission
CA/T	Central Artery/Tunnel
CDC	Centers for Disease Control and Prevention
CEQ	Council on Environmental Quality
cfh	cubic feet per hour
CFR	Code of Federal Regulations
CLC	Community Liaison Committee
CMP	Construction Management Plan
CMR	Code of Massachusetts Regulations
dba	decibels
DEP	Department of Environmental Protection (MA)
DHHS	Department of Health and Human Services (U.S.)
DIR	Division of Intramural Research (NIAID)
DOT	Department of Transportation (U.S.)
DPH	Department of Public Health (MA)
ED	Emergency Department
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EJ	Environmental Justice
EMS	Emergency Medical Services
EOEA	Executive Office of Environmental Affairs
EPA	Environmental Protection Agency (U.S.)
F	Fahrenheit

FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
gpd	gallons per day
HEPA	High Efficiency Particulate Air
HHMM	High Hazard Material Management
HIV	Human Immunodeficiency Virus
HVAC	Heating Ventilating and Air Conditioning
IATA	International Air Transport Association
IBC	Institutional Biosafety Committee
ICAO	International Civil Aviation Organization
ICP	Integrated Contingency Plan
ICS	Incident Command System
KV	Kilovolt
KW	Kilowatt
LEPC	Local Emergency Planning Committee
LOS	Level of Service
MAC	Massachusetts Avenue Connector
MBTA	Massachusetts Bay Transportation Authority
MEPA	Massachusetts Environmental Policy Act
MHD	Massachusetts Highway Department
mgd	million gallons per day
MMRS	Metropolitan Medical Response System
MPR	Maximum Possible Risk
MRI	Magnetic Resonance Imaging
MWRA	Massachusetts Water Resource Authority
NAAQS	National Ambient Air Quality Standards
NBL	National Biocontainment Laboratory
NEPA	National Environmental Policy Act
NIAID	National Institute of Allergy and Infectious Diseases
NIH	National Institutes of Health
NPDES	National Pollutant Discharge Elimination System
NRC	Nuclear Regulatory Commission
NSF	National Sanitation Foundation
NSF	National Science Foundation
OEHS	Office of Environmental Health and Safety
OGS	Office of General Services
OSHA	Occupational Safety and Health Administration
PAC	Project Advisory Committee
PARP	Power Air Purifying Respirators
PI	Principal Investigator
PILOT	Payment In Lieu of Taxes
PIR	Project Impact Report
RCE	Regional Center of Excellence

rDNA	recombinant DNA
RAM	Release Abatement Measure
RBL	Regional Biocontainment Laboratories
RPO	Radiation Protection Office
sf	square feet
SPCC	Spill Prevention Controls and Countermeasures
TDM	Transportation Demand Management
TMA	Transportation Management Association
TransComm	Transportation Solutions for Commuters
TSS	Total Suspended Solids
USAMRIID	United States Army Medical Research Institute for Infectious Diseases
USDA	United States Department of Agriculture
USPS	United States Postal Service
VOC	Volatile Organic Compound
WOE	Weight of Evidence

Glossary

Aerosol – a suspension of fine solid or liquid particles in gas (smoke, fog, and mist).

Affected Environment – the conditions of the area to be affected or created by the alternatives under consideration.

Alkaline Hydrolysis Process Tissue Digester - a process where strong chemical solutions and high temperatures are used to dissolve and sterilize animal tissue.

Antigenic – ability to be recognized by antibodies.

Autoclave - an apparatus using superheated steam under high pressure for sterilization.

Bacteriology – the study of bacteria.

Biodefense – measures taken or planned to provide safety and security against biohazards.

Biohazard – containing material that may cause illness or disease.

Biological Safety Cabinet (Class II, type A or type B) – Equipment designed as a primary means of containment developed to provide personnel, product and environmental protection while working with infectious microorganisms.

Biological weapon – any material that can be deliberately distributed to cause illness or death by disease.

Bioterrorism – the use of microorganisms that cause human disease, or of toxins derived from them, to harm people or to elicit widespread fear or intimidation of society for political or ideological goals.

Chemical Shower – a sealed shower stall in which biological decontamination of a positive pressure personnel suit is performed, using a chemical decontaminant.

Communicable Period – The time during which an infectious agent may be transferred directly from an infected person to another uninfected person.

Community Stakeholders – people in the community who are able to influence public opinion or who may be impacted by the proposed activities.

Connected Actions - are closely related and 1) automatically trigger other actions, 2) could not or would not proceed unless other actions are taken previously or simultaneously, and 3) are interdependent parts of a larger action and depend on the larger action for their justification.

Containment - describing safe methods for handling, managing, and maintaining infectious materials in the laboratory environment. The purpose of containment is to reduce or eliminate exposure of laboratory workers, other persons, and the outside environment to potentially hazardous agents.

Council on Environmental Quality – Established by Congress under the Executive Office of the President to oversee the National Environmental Policy Act (NEPA) to ensure that federal agencies meet their obligations under NEPA.

Cumulative Effects – impacts which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Decontamination – the process of removing harmful substances (biological, chemical or nuclear).

Direct Effect – effects which are caused by the action and occur at the same time and place.

Drug-Resistant – microbes that are able to survive medication normally used to fight them.

Emerging infectious disease – A previously unknown infectious disease, or an infectious disease new to a particular location.

Endemic – A disease that occurs continuously in a particular population.

Environmental Justice - Avoiding disproportionately high and adverse human health or environmental impacts on minority and low-income populations.

Epidemiology - branch of medical science that deals with the incidence, distribution, and control of disease in a population.

Etiologic Agent – the cause or origin of an infectious disease.

Exotic agent – Pathogens or microbes not naturally occurring in a given location.

Host - a living insect, animal or plant providing subsistence to a parasite.

Immune Response – a natural response within the human body that occurs when a foreign molecule is detected and rendered harmless.

Immunization – a process by which medical therapy creates natural resistance within the human body.

Immunologic – pertaining to the immune system.

Immunology – study of the immune system and its responses to foreign molecules.

Incubation Period – The time interval between infection and the appearance of the first sign or symptom of the disease.

Indigenous Agent – naturally occurring in a given location.

Indirect Effects – impacts caused by an action that are not directly attributable, but instead, evolve over time.

Infectious – A microbe or pathogen able to cause disease.

Infectious Agent – Pathogens or microbes able to cause disease.

Infectious Disease – and illness caused by microorganisms that can be spread from one person to another.

Ingestion – entry into body through swallowing.

Irreversible Commitment of Resources – those that cannot be reversed, except perhaps in the extreme long term. Examples included species extinction, permanent removal of minerals.

Irretrievable Commitment of Resources – those that are lost for a period.

Labor income - income from work or earnings.

Life-Threatening Disease – illness that may cause one to die.

Low-income population - refers to a community in which 25% or more of the population is characterized as living in poverty, as determined by statistical poverty thresholds used by the U.S.

Microbe – microorganism.

Microorganism – a microscopic organism. Those of medical concern and interest include bacteria, viruses, fungi, and protozoa.

Minority Population - refers to an area where minority individuals comprise 25% or more of the population.

Minorities are people who classified themselves as African Americans, Asian or Pacific Islanders, American Indians, Hispanics of any race or origin, or other non-White races.

Mitigation – measures taken or planned to reduce or avoid impacts.

Monitoring – repeated measurement taken to ascertain effects, document compliance or effectiveness of protection measures.

Negative Pressure – a term used when describing controlled, interior air flow that identifies a space that has lower air pressure from adjacent spaces.

Nucleic Acids - any of various acids (as DNA or RNA) that are composed of nucleotide chains.

Pathogen – a microscopic organism that causes infection and/or disease.

Pathogenesis – the mechanism by which an infectious agent leads to disease or clinical illness.

Per Capita Income - all personal income divided by total population.

Percutaneous Injury – cut or puncture of the skin.

Personal Income - all income received by individuals from all sources.

Positive Pressure – a term used when describing controlled, interior air flow from a higher air pressure space to an adjacent lower air pressure space.

Positive Pressure Personnel Suit – A containment suit worn for protection in a Biological Safety Level 4 environment that maintains positive pressure throughout air line supplied breathing air.

Poverty - having an income below what is necessary for basic necessities – adequate housing, food, transportation, energy, health care, etc.

Preferred Alternative – the alternative that the agency is currently considering selecting.

Primary Containment -protection measures from exposure to infectious agents for personnel within the immediate laboratory environment.

Prions - a protein particle that lacks nucleic acid and is believed to be the cause of various infectious diseases of the nervous system (as bovine spongiform encephalopathy and Creutzfeldt-Jakob disease).

Proposed Action – the activities initially described to meet the purpose and need.

Proximity Reader System – a security device that reads a card held near it to verify if access is authorized.

Reasonably Foreseeable Action – activities that are planned, which will occur in the near future, yet are not part of the Proposed Action.

Reemerging Infectious Diseases – illnesses that have been previously identified and largely controlled that have recently become more active in the human population.

Salmonid – from the family Salmonidae (such as salmon and trout).

Sanitary Sewer – system to remove and convey waste and wastewater to a treatment facility.

Scope – the range of topics considered within the environmental impact statement.

Secondary Barriers - separation between primary containment areas and non-containment areas within a laboratory facility.

Secondary Containment - provides protection of the environment external to the laboratory from exposure to infectious materials, and is provided by a combination of facility design and operational practices.

Sharps – objects capable of causing punctures or cuts, which may be contaminated.

Tissue Culture – the process of growing live cells outside the body for study purposes.

Transmission – mechanism by which an infectious agent is spread from source a person.

Unavoidable Adverse Effects – adverse effect that can not be avoided if the proposed action is implemented.

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