



governmentattic.org

"Rummaging in the government's attic"

Description of document: **U.S. Biological Warfare Program Historical Preservation, BW Database Thesaurus, prepared for: Defense Nuclear Agency (DNA) Alexandria, VA, November 22, 1993**

Posted date: 04-June-2008

Title of Document As above

DTRA FOIA Contacts: FOIA/PA Office (DIR-COSM-F)
Defense Threat Reduction Agency
8725 John J. Kingman Road
MSC 6201 Fort Belvoir, VA 22060-6201

FOIA/Privacy Hotline: Voice: (703)767-1792
Fax Requests: (703)767-3623
E-Mail Requests: efoia@dtra.mil

Notes: Defense Nuclear Agency (DNA) was renamed the Defense Special Weapons Agency (DSWA) in 1996

Defense Special Weapons Agency was rolled into the Defense Threat Reduction Agency (DTRA) at its creation in 1998

The governmentattic.org web site ("the site") is noncommercial and free to the public. The site and materials made available on the site, such as this file, are for reference only. The governmentattic.org web site and its principals have made every effort to make this information as complete and as accurate as possible, however, there may be mistakes and omissions, both typographical and in content. The governmentattic.org web site and its principals shall have neither liability nor responsibility to any person or entity with respect to any loss or damage caused, or alleged to have been caused, directly or indirectly, by the information provided on the governmentattic.org web site or in this file.

Contract No. DLA 900-86-C-2045
Modification No P00345, Clin No. 0002MZ
DNA MIPR # 93-663

U.S. BIOLOGICAL WARFARE PROGRAM HISTORICAL PRESERVATION
BW DATABASE THESAURUS

Prepared For:

DEFENSE NUCLEAR AGENCY
ALEXANDRIA, VIRGINIA

NOVEMBER 22, 1993

BATTELLE
EDGEWOOD OPERATIONS
2001 EMMORTON ROAD, SUITE 200
EDGEWOOD, MARYLAND 21040

CRYSTAL CITY OPERATIONS
1725 JEFFERSON DAVIS HIGHWAY, SUITE 600
ARLINGTON, VIRGINIA 22202

40 pages

2-4-d herbicide*
4-acetylnivalenol
425 strain
a/a 45-y dispenser— a/a 45y-4— a/a 45y-3— a/a 45y-2— a/a 45y-1— a/b 45y*— a/a 45-y
dispenser— a/a45y-1 spray— aerial spray— a/b45y*— ab 45y*
~ ABO— agent* of biological origin— biological warfare agent*— ~ BW agent*— biological
agent*
abrin
abrus precatorius
abscission
absorption
accident*
acetic acid— 2-4-5-trichlorophenoxyacetic acid— 2,4,5-trichlorophenoxyacetic acid
2-4-dichlorophenoxy— 2,4-dichlorophenoxy
acetone extraction
acid mud
acridine*
actinobacillus mallei— actinomyces
actinomycete*
actinomycin*— actinomycin d
active site
acute toxicity
additive*— stabilizer*— sodium ascorbate— thiourea— hydrophobic silic*— hydrophilic silic*—
sucrose— raffinose— anti-oxidants— antioxidants— chelating agents— dipyriddy
adenine
adenosine phosphate*— adenosine triphosphate— ~ ATP— adenosine diphosphate— ~ ADP
adenosine
adenovir*
adenovirus*
aedes aegypti
aedes
aeration
aerial dissemination— aerial spray
aero 14b
aerobacter aerogenes
aerobic process*
aerobic fermentation
aerobic bacteria
aerobiology
aerogenic
aerogenic challenge
aerosol*— secondary aerosol*— biological aerosol
aerosol chamber test
aerosol collector*
aerosol dissemination
aerosol dose

aerosol facilit*---aerosol test chamber*
aerosol field test*
aerosol generator*
aerosol immunization
aerosol stability
aerosolization
aflatoxin*
agent*
agent antidote*
agent blue—blue defoliant*—blue defoliating agent—blue anticrop agent—blue anti-crop agent
agent characteristic*
agent detector*—detector*
agent development
agent fill
agent model*
agent orange—agent ~ LNX— ~ LNX*—orange defoliant*—orange defoliating agent—orange
anticrop agent—orange anti-crop agent
agent production
agent research
agent simulant*
agent stabilization
agent storage
agent symbol
agent toxicity
agent-to-burst* ratio—agent to burst* ratio
agglomeration
agglutination
agglutination column
agglutinin titer
~ AGI—all-glass impinger—all glass impinger—impinger*—liquid impinger—sampler*—
anderson sampler
airborne
air filter*
airflow—air flow
Air Force--- ~ AF--- ~ USAF
airlock*
air pollution
air sampling
alarm—toxic agent alarm
algae
algal toxin*—algae toxin
allergic disease*
alogen*
alphavirus*

alurochrome
amebiasis
american type culture collection--- ~ ATCC
amine*
amino acid sequenc*
amino acid sequence analysis
aminoacridine*
amphibian*
amphibian toxin*---amphibia toxin*
ampicillin
anabaena toxin
anaerobe
anaerobic bacteria
anaerobic digestion
anaerobic fermentation
anaerobic process*
anatoxin*
animal*
animal disease*
animal experimentation
animal migration*
animal model*
animal species
anorexia---anorexia nervosa
anthrax---anthrax toxin---bacillus anthracis---b. anthracis---bacillus anthrasis (N)---bacillus
anthrax---b. anthrax---agent ~ N--- ~ N
anthropod borne disease*
anti human immunodeficiency virus---anti-human immunodeficiency virus
anti-aerosol attack---antiaerosol attack
anti-animal---antianimal
anti-personnel---antipersonnel
anti-plant---antiplant
anti-toxin*---antitoxin*
antibacterial*---antibacterial agent*---anti-bacterial agent*
antibiotic*
antibiotic resistance
antibiotic therapy
antibod*
antibody affinity
antibody synthesis
antibody-antigen reaction*---antigen-antibody reaction*---antigen-antibody complex---antibody-
antigen complex

anticrop—anti-crop—anticrop agent*—anti-crop agent*—antiplant agent*—anti-plant agent*—
anti-crop/plant agent*
antidote*
antifoam*
antigen*
antipersonnel agent*
antipersonnel weapon*
antioxidant*
antitoxin*
antiven*
antiviral agent*
antiviral drug*
~ APGC—air proving ground center
aphanizomenon toxin
apnea—asphyxia—asphyxiation
arbovirus*—group b arbovirus*—group a arbovirus*
area coverage
arena virus*—arenavirus*—arena viridae—arenaviridae
argentine hemorrhagic fever*—~ AHF
arms control
army*
army budget*
army medical development board—~ AMDB
army operation*
Arnold G. Wedum—Arnold Wedum—A. Wedum—A. G. Wedum
arthropod*
artificial intelligence
ascaris
aspergillus*—aspergillus parasiticus—aspergillus fumigatus—aspergillus flavu*—aspergillus
niger
ass01 mycoplasma pneumoniae
assassination
atmospheric diffusion
attenuat*
australia*
autoclave
autumn gold
azeotropic distillation
b cells
b lymphocyte*
b-47 a/c
baby hamster
bacillary dysentery
bacillus cereus—b. cereus

bacillus megaterium—b. megaterium
 bacillus thurengiensis—b. thurengiensis—~ BT
 bacillus subtilis*—b. subtilis*—bacillus globigii—b. globigii—~ BG agent—~ BG—anthrax
 simulant*
 bacitracin
 bacteremia
 bacteria*—microorganism*—micro-organism—biological organism*—bacterial organism
 bacterial aerosol*
 bacterial extract*
 bacterial penetration
 bacterial toxin*
 bacteriolog*
 bacteriological weapon*
 bacteriological research
 bacteriophage typing
 bacteriophage*—phage*—bacterial virus*—bacteria virus*
 bacteriorhodopsin
 bacterium tularence
 bacteroide*
 banzi virus
 batrachotoxin
 beta hemolytic streptococci
 beta particle*
 beta-propiolactone—~ BPL—beta propiolactone—b propiolactone—b-propiolactone
 ~ BHA—butylhydroxyanisole
 bicarbonate*
 big jack—~ DTCT test 63-4*
 big tom—~ DTCT test 65-6*
 bile duct*
 bile
 binder*
 binding site*
 bioaccumulation
 bioacoustic*
 bioassay
 bioavailability
 biochemistry—molecular biochemistry
 biochip*
 biocide*
 biodeterioration
 biodisposal—bio-disposal
 bioengineering
 biofilm*
 biofilter*

biogenetic*
bioinstrumentation—bio-instrumentation
biological absorption
biological aerosol*
biological aerosol detector*
biological aerosol test facility— ~ BATF
biological agent cloud
biological agent detector*—biodetector*—bio-detect*—biodetection
biological and chemical filt*—biochemical filt*
biological assay
biological bomb*
biological capability—biowarfare capability
biological coating*
biological contamination
biological control
biological countermeasure*
biological decay
biological decay constant
biological defense— ~ BD
biological defense research program—research, development, test and engineering— ~ R&D—
~ BDRP— ~ RDT & E— ~ RDT&E— ~ RDT and E
biological extract*
biological filter*
biological half life
biological hazard*
biological membrane*
biological oxygen demand
biological process
biological product*
biological propert*
biological receptor*
biological sensor technolog*
biological stain*
biological system*
biological warfare—germ warfare— ~ BW—biowarfare
biological warfare casualt*
biological warfare research— ~ BW research
biological weapon*—biological munition*—biological submunition*
bioluminescence
biomaterial*
biosensor*—biomicrosensor*
biosimulant*—biological simulant—biological agent simulant
biotechnology
biotin-saxitoxin conjugate

biotoxin*
 black death—plague
 blu-27/b bomb*
 ~BOD—biochemical oxygen demand
 body contamination
 body ache—bodyache
 bomb disposal
 bomb
 bomblet development
 bomblet—micro-bomblet—microbomblet—biological bomblet—four-pound bomblet—e-1*—e1*-
 —flettner rotor—~M114—~M-114
 bordetella pertussis
 botulinum toxin*—botulinum neurotoxin*—botulinum—botulinum toxin 1—clostridium
 botulinum—cl. botulinum—c. botulinum
 boundary layer transport
 BPL
 breathing rate*
 brevetoxin*
 british preimpinger*
 bromacil
 bromacil=uracil/5-bromo-3-butyl-6-methyl
 brucell* suis—b. suis—ab 1*—ab-1*—ab1*
 brucell* abortus—undulant fever—b. abortus
 brucell* melitensis—b. melitensis
 Brucella—B. brucella—bacillus brucella
 bubonic plague
 budget—funds obligated—obligation—program obligation*—fund obligat*—funding obligation
 bulk density
 bulk fill
 bungarotoxin—alpha-bungarotoxin—alphabungarotoxin—alpha bungarotoxin
 bunya virus*—bunyavirus*—bunya viridae—bunyaviridae
 ~BW laborator*—biological weapon laborator*—biological laborator*
 ~BW decontamination—biological weapon decontamination
 ~BW cloud transport—biological weapon cloud transport
 ~BW plant*—biological weapon plant*—biological weapons plant*
 ~BWC—biological weapons convention—biological convention—biological and toxin weapons
 convention—~BW convention—1972 biological and toxin weapons convention—biological and
 toxin weapons treaty of 1972—1972 biological and toxin weapons treaty—~BW treaty
 ~C-130 aircraft
 ~C-47 aircraft
 ~C-123 aircraft
 ~CABAPS—chemical and biological agents protection system—chemical and biological agent
 protection system
 cache valley virus—cache valley viridae

cacodylic acid
cadmium compound*
cadmium
cadmium sulfide*
calcium hypochlorite
campylobacter fetus jejuni
canada*
candida albicans
candida macedoniensis
canister*—protective mask canister*—filter canister*
canopy model
carrier
cascade impactor*
casein acid digest—~ CAD—cad culture media
~ CAD culture media
castor bean
casualt*
casualty predict*
~ CB—chemical biological—chemical and biological—chemical & biological—
chemical/biological
~ CB weapon*—chemical and biological weapon*—chemical/biological weapon
~ CBR—chemical, biological, and radiological—chemical, biological, & radiological—chemical,
biological and radiological—chemical, biological & radiological
~ CBR suit*—chemical, biological, and radiological suit*—chemical, biological, & radiological
suit—chemical, biological and radiological suit—chemical, biological & radiological suit
cell concentrate
cell fusion
cell division
cell mediated immunity
cell culture*
centrifug*—differential centrifugation
chamber test*
chamber
chemical oxygen demand
chemiluminescence
chemiluminescence detector*
chemoreceptor*
chicken*
chikungunya virus—chikungunya—chikungunya viridae
chills
china
chironex fleckeri
chlamydia—chlamydia psittaci
chloramine*

chloramphenicol
chlorofluorocarbon*
cholera—cholera vibrio—vibrio cholera
cholera antitoxin*
cholera toxin*
choriomeningitis virus
chromatography
chromosome*
~ CIA—central intelligence agency
circular error of probability
civil defense
~ CL-246 antiviral agent*
clam*
classification
clinical laborator*
cloning neurotoxin*
cloning—clones—clone
clostridium perfringens—gas gangrene—cl. perfringens—c. perfringens
Clostridium sporogenes luminol—cl. sporogenes—c. sporogenes
clostridium tetani—cl. tetani—c. tetani
cloud dosage
cloud growth rate*
clouds—cloud
cluster—cluster munitions—cluster bomb
cobra toxin—naja naja atra—naja naja toxin—cobrotoxin—hooded cobra toxin
coccidioides immitis
coccidioidomycosis
coccidium
code name
cold weather test*
coli
coliphage—coli virus
collecting fluid*
collecting method*—collection method*
collective protection—collective protection system*—~ CPS—collective protection equipment—
collective protection shelters—collective equipment
colony
columbian frog
combat lady
combat effectiveness
communicable disease*
communication
compaction

concentration*—concentration per ml—concentration per gm—concentration per milliliter—
concentration per gram
confidence-building measure*— ~ CBM—confidence building measure*
confidence limit*
congo crimean haemorrhagic fever
conotoxin*—alpha-conotoxin—kenotoxin
containment—biological containment
contaminant*
contaminated clothing
contaminated skin
contaminated surface*
contaminated terrain
contamination
contamination of aircraft—contaminated aircraft
contamination of food—contaminated food
contamination of vehicle*—contaminated vehicle*
contamination of water*—contaminated water*
continuous flow fermentor*
continuous point source
control animal*
control laboratory
controlled release
conus
convention
corn steep liquor
corynebacterium diphtheria—diphtheria—corynebacterium diphtheriae
cost analysis
cost estimate*
coulter counter*
coverage
coverage parameter*
covert action
coxiella burnetti—c. burnetti—coxiella burnetii—c. burnetii—coxiella— ~ Q fever— ~ Q
coxsackie—coxsackie virus—coxsackie viridae
crimean congo hemorrhagic*—crimean congo hemmorrhagic*
crotoxin
culex tarsalis
culex pipiens
culicidae
culture media
culture cell*
culture*—seed stock*—master stock*—primary stock*—working stock*—secondary stock*
~ CWID—crosswind integrated dose

cyanobacteria—cyanobacterium—cynobact*—blue-green algae—blue green algae—bluegreen
algae
cysteine—cys
cystine
cytokines
cytology—cell biology
cytoplasm
cytotoxicity
cytotoxin*
czechoslovakia*
~ D049 program
dalapon
data bases—databases
data acquisition
~ DBH—diameter at burst height—diameter-at-burst-height
~ DDT
deae sephadex fractionation
decay rate*
decontamination—decontamination of personnel—decontamination materials
defense planning—military planning
defense system*
defensive "casualty assessment"—defense casualty assessment—defensive casualty assessment
defensive requirement*
defoliant*—defoliant agent*—defoliating agent
defoliation
degradation
dehydration
delivery—delivery system*—delivery tactic*
dengue virus*—dengue—dengue hemorrhagic fever—dengue 4 virus—dengue 2 virus
deoxyribonucleic acid—~ DNA
deposition
dermacentor andersoni
deseret test center—~ DTC—desert test center
destruction
detection—biological agent detection—biological detection
deterrence
detoxification
detrick—fort detrick—camp detrick—Ft. Detrick
diarrhea
diatomaceous earth
diffusion
diisopropyl fluorophosphate—DIFP—DFP—diisopropylfluorophosphate
dimethyl sulfoxide
dinoflagellata gyrodinium dorsum

dinoflagellate*
 dioxin*
 diplococcus—diplococcus pneumoniae
 diphtheria toxin
 diquat—diquat defoliant
 disarmament
 disease characteristic*
 disease*
 disinfection
 disposal
 dissemination—explosive dissemin*—open air field test*—open air fieldtest*
 dissemination efficiency
 dissolved oxygen
 disulfide link*—disulfide bridge*—disulfide bond*
 ~ DNA-complexing compound*—DNA complexing compound*
 ~ DNA sequencing
 ~ DNA virus*—DNA phage
 doctrine
 dorynebacterium diphtheriae
 dosage model
 dose—dose rate—dosage rate—dosage*—oral dosage—oral dose
 downwind dosage estimate*
 downwind travel
 ~ DPG field trial*—Dugway Proving Ground field trial*
 ~ DPG test grid*—Dugway Proving Ground test grid*
 droplet deposition
 droplet size*
 drosophila melanogaster—fruit fl*
 drug development
 drug delivery system*
 drum drying
 dry agent
 dry agent disseminator
 dry heat
 dry nitrogen
 dry oven
 drying/freezing/spray
 dtc test 64-4 (shady grove)
 dtc test 67-7
 dtct test 65-1—copperhead
 dtct test 66-7—red cloud
 dtct test 65-3—west side i
 Dugway Proving Ground*—~ DPG
 dwell time

dysentery

~E-105 bomblet*—~E105 bomblet*

~E-61r4 bomb*—~E61r4 bomb*

~E-11*—~E11*

~E-10*—~E10*

~E-19r2 warhead*4 bomblet*—~E-19r2*—~E19r2*

~E-130r2 bomb*—~E130r2*

~E2r2*—~E-2r2*

~E32r1*—~E-32r1*

eager belle

eastern equine encephalomyelitis virus—~EEEV

echinoderm*

echinoderm toxin*

echovirus 6

economic impact

ect50—median effective concentration x time—effective concentration 50

ed50—effective dose—median effective dose—effective dose 50

edema factor—oedema factor—oedema factor

~EDTA—ethylenediamine tetraacetate—ethylene diamine tetraacetate

Edwin B. Fred—E. B. Fred—Edwin Fred

effectiveness (culture media)

efficiency

egg*

egg albumin

egg candler*

Eglin Air Force Base—Eglin AFB

electromagnetic radiation

electron microscop*

electron paramagnetic resonance

electron scattering

electron spin resonance

electrophoresis—~SDS electrophoresis—Sodium Dodecyl Sulfate electrophoresis—gel

electrophoresis—~SDS gel electrophoresis—Sodium Dodecyl Sulfate gel electrophoresis

electoplax membrane*

electrostatic charge

elevated

~ELISA—Enzyme Linked Immuno Sorbent Assay*—Enzyme Linked Immunosorbent Assay*—

Enzyme Linked Immunoassay*—Enzyme-linked immune sorbent assay*—Enzyme-linked

Immunosorbent Assay—Enzyme linked immunoassay—Enzyme-linked immune sorbent assay—

Immunosorbent Assay

embryo

embryonated egg technique

encapsulation

encephalitis—encephali*—tick-borne encephali*—russian spring-summer encephali*
 encephalo*—equine encephalo*—encephalitis— ~ VEE— ~ EEE— ~ NU
 encephalomyelitis—st louis encephalo*—japanese encephalo*—tick encephalomyelitis—eastern
 encephalomyelitis— ~ WEE—venezuelanequine—venezuelanencephalo*—st. louisencephalo*—
 -encephalomyelitis—Nk—eastern equine—western equine—western encephalo*—
 encephalomyocarditis virus*
 endotoxin*
 endotoxin pactamycin
 energy source*
 entamoeba histolytica
 enteric bacteria
 enteric disease*
 enterobacteria clocae
 enterobacteria—enterobacteriaceae
 enteropathogen*
 enterotoxin*—enterotoxin b—staph aureus—alpha toxin—staphylococcus enterotoxin b—
 staphylococcal enterotoxin*—aureus toxin— staphylococcus haemolytic toxin*
 —staphylococcal-alpha-toxin—staphylococcus aureus enterotoxin— ~ SEB— ~ SEB-2—
 staphylococcus aureus—staphylococcus aureus—staphylococcal enterotoxin b—alphatoxin—
 staphylococcus assessment
 enterovirus*
 entomology
 environmental assessment
 environmental impact
 environmental impact statement*— ~ EIS—final environmental impact*— ~ FEIS
 environmental test*
 enzootic virus*
 enzyme immunosay
 ~ EOD—explosive ordnance disposal
 epidemiology
 epizootic
 epizootic virus*
 equatorial region*—equator region*
 escherichia coli—e. coli
 escherichia coli j5 strain
 escherichia coli 334-a strain
 ethnic weapon*
 ethylene glycol
 ethylene oxide
 etiology
 eucaryotic cell*
 evap ii
 evaporation model
 exotoxin*

experimental animal*
 experimental data
 explosion effect*
 explosive
 explosive dissemination
 exponential relationship
 eye exotoxin*
 ~ F-100d aircraft*—~ F100d aircraft*
 ~ F-5 aircraft*—~ F5 aircraft*
 ~ F-4 aircraft*—~ F4 aircraft*
 ~ F-111 aircraft*—~ F111 aircraft*
 ~ F-4c aircraft*—~ F4c aircraft*
 ~ F-100 aircraft*—~ F100 aircraft*
 ~ F-105 aircraft*—~ F105 aircraft*
 ~ F test
 false negative
 false positive
 false alarm*
 ~ FAST—Fluorescent Antibody Staining Technique—Fluorescent Antibody Stain Technique
 feasibility stud*
 fermentation—ferment
 fermentation engineering
 fermentation tank
 fermented product
 fever*—hemorrhagic virus—haemorrhagia virus—korean hemo*—korean haemo*—argentine
 hemo*—argentine haemo*—bolivian hemo*—bolivian haemo*—ebola hemo*—crimean congo—
 congo crimean hemo*—ebola haemo*—ebola fever—marburg hemo*—marburg haemo* hemo*—
 —marburg fever—ebola-marburg—crimean-congo—congo-crimean
 fiber optic waveguide—~ FOW
 field activit*
 field condition*
 field equipment
 field manual*
 field stud*
 field test*
 field test data
 filariae
 filariasis
 file
 filling—filling procedure*
 film-forming polymer*—film forming polymer*
 filter*
 filtration system*—air filt*—water filt*—fluid filt*—filter media
 firing table*

fisher 344 strain
flavivirus*—flavovirus*
flight crew*
flow cytometry
fluorescence
fluorescent antibody technique*—~ FAT
fluorescent dye*
fluorimetry—fluorometry
foam
folding fin*
fomite*
food poisoning—botulism
foot and mouth disease*
foreign technology
formaldehyde
formaldehyde gas sterilization
fouling
fouling organism*
FP—Fluorescent particle*
France
francisella tularensis—F. tularensis
freeze drying
freon pe65702a
fugutoxin
fungi—fungus
fungicide*
fungus diseases*—fungi diseases*
fungus toxin*—fungal toxin*
fusarium species—fusari*—fusarium viride—fusarium virile—fusarium tricinctum—fusarium—
fusarium trichothecenes—trichothecenes—tricothecenes—tricocethenes—fusarium solani*—
fusarium roseum—fusarium ridiusculum
fuze*
fuzing
gamma globulin
gapcap model
gas chromatography—~ GC
gas chromatography/mass spectrometry—~ GC/MS
gas exchange
gaseous disinfectant*
gelatin milk phosphate culture
gene*
gene cloning
gene encoding
gene expression

gene mapping
gene probe*
gene sequenc*
generator*
genetic*
genetic alteration
genetic engineering
genetic expression
genetic manipulation
genetic mapping
genetic recombination
geneva protocol—geneva convention
geometric mean*
geometric standard deviation
George W. Merck—George Merck—Merck—G. W. Merck
germ free animal*
German*
~ GFP—Green ~ FP
glanders
glandular
glutamine synthetase
gonyaulax catanella—red tide*
gorodomlia
gpipid 50—guinea pig intraperitoneal median
graded dose
graft*
gram negative—gram negative stain—gramm negative*
gram positive—gram positive stain—gramm positive*
gram stain
gram negative bacteria
gram positive bacteria
Great Britain—United Kingdom—UK
green glow
group b meningococci
growth media—substrate—nza amine—casein acid digest*—embryonated chicken egg*—chick
embryo
gruinard island
gymnodinium brevi—clam toxin
haemolytic toxin*
half life—halflife—half-life
handbook*
hantaan virus—hantaan vi*—hantavirus
harvest*
~ HCPE—Hybrid Collective Protection Equipment

headache
height of burst—height-of-burst—burst height
height spray tank*
helminthic diseas*
helminthosporium*—oryzae van brede de haan
hemagglutinin
hemophilus influenza
hemorrhagic fever—marburg disease—junin-machupo virus—junin—hantaan—haemorrhagia
hemorrhagic fever virus—hemorrhagic fever*
~ HEPA filter*—high efficiency particulate aerosol filter*
hepatic virus*—liver virus
hepatitis
hepatotoxin
herbicide*
herbicide 2,4-d
herpes simplex virus—herpes virus
high altitude
high volume
hirsch
histolog*
histoplasmosis—histoplasma capsulatum
holotoxin*
hood*—fume hood
horn island
hospital*
host
host-vector system—host/vector system
ht-2 toxin*
~ HTH—high test halide
human*
human test*
hvar
hybridoma*
~ HYFED—Hydrogen Flame Emission Detector
hygroscopicity
hypoxia—oxygen deficien*
hyvar
id50—infected dose—infected dose 50
identification*
identification method*
immune serum*
immune system resistance—immune deficiency
immunity
immunization

immunoassay*
immunochemistry
immunogen*
immunoglobulin*
immunoglobulin a
immunoglobulin m
immunoglobulin m e-1
immunolog*
immunological specificity
immunological technique*
immunosuppression
immunotoxic*
in-vitro*—in vitro*
in vitro analysis—in-vitro analysis
in-vivo*—in vivo*
in vivo analysis—in-vivo analysis
in wind release*
incapacitating agent*—incapacitating toxin*
incubation time
individual protection*—personal protection—~ NBC protection
individual protective equipment—personnel protection—physical protection—protective
equipment
industrial microbiology
infected dust
infection*
infectious diseases*
infectious diseases diagnosis
infectious disease transmission
infectious dose
infective dose
infectivity
infectivity decay
influenza virus—influenza—influenza virus a*—influenza a—influenza b—influenza virus b*
infrared—~ IR
infrared spectroscopy—~ IR spectroscopy
ingestion
inhalation
inhibitor*
injection—s.c.—subcutaneous—inoculation—intravenous—intraperitoneal—intramuscular—
intracranial—intracerebral—i.v.—i.p.—i.m.—i.c.
inoculum
insect*
insect trap*
Insect venom*

instrumentation
interferometry
interferon—alpha interferon—gamma interferon
intestine*
intoxication
invasiveness
inversion
inversion gradient
ion exchange chromatography
ion exchange resin*
ionophore*
iran*
iraq*
iron compound*
japanese encephalitis virus*—japanese encephalitis—japanese b encephalitis virus
—JEDS—jet exhaust decontamination system
jet engine*
joint military activities civil defense
joint technical warfare committee—JTWC
junin virus*
kanamycin
Kenneth L. Calder—Ken L. Calder—Ken Calder—K. Calder—K. L. Calder
kidney
kidney malfunction—renal syndrome
kidney tissue
klebsiella
klebsiella aerogenes berberine
klebsiella pneumoniae
knowledge gap*
Korea*
Korea salmonella—Korean salmonella
korean hemorrhagic fever
kromekote card*
kupffer cell*
l-cysteine—left cysteine—left cys
laboratory animal*—lab animal*
laboratory procedure*—lab procedure*
laboratory test*—lab test*
lac
lacrosse virus
lactose
lapse
larvae
lassa fever—lassa virus—lassa fever virus

law*—public law
ld 50—median lethal dose—lethal dose 50
leak detector*
lectin*
legionella pneumophila
legionella wunr204020
legionnaires disease—legionnaire's disease
leishmania braziliensis panamensis
leishmaniasis
~LEM—leukocytic endogenous mediator
leptospirosis
lethal dosage—lethal dose
lethality
Libya*
~LIDAR—differential adsorption ~LIDAR—Differential Scatter ~LIDAR System—DISC
System—Laser Induced Active Radar—Light Detection and Ranging
line
line source release—crosswind releases—line-source dissemination—line source dissemination
line/grid
linear air flow
linear decay constant
lipid*
lipolysis
lipopolysaccharide*
lipoprotein*
liposome*
liquefied gases
liquid agent—liquid biological agent
liquid chromatography—~ LC
liquid disinfectant*
listeria
listeria monocytogenes
literature search*
live vaccine*
live vaccine strain—~ LVS
liver
local immunization
log normal distribution—log normal
logistic*
low virulence
luciferase
luminescence
luminol*
lung*

lyme disease
 lymphatic system
 lymphocyte*
 lymphocyte receptor*
 lymphocytic choriomeningitis virus
 lymphokine*
 lymphomas
 lyophilization
 lyophilize
 lysis
 lysosome*
 ~ M-33 disperser*—~ M33 disperser*
 ~ M-25A1 mask*—~ M25A1 mask*—~ M25A1 protective mask*—~ M-25A1 protective mask*
 ~ M-28 collective protection equipment—~ M28 collective protection equipment—~ M-28 CPE—~ M28 CPE
 ~ M-20 collective protection equipment—~ M20 collective protection equipment—~ M-20 CPE—~ M20 CPE
 ~ M-2 sampler*—~ M2 sampler*
 ~ M-9 protective mask*—~ M9 mask*—~ M-9 mask*—~ M9 Protective mask*—~ M9 gas mask*—~ M-9 gas mask*
 ~ M-19 detector*—~ M-19 agent detector*—~ M19 detector*—~ M19 agent detector*
 ~ M-17 mask*—~ M17 mask*—~ M-17 protective mask*—~ M17 protective mask*—~ M-17 gas mask*—~ M17 gas mask*
 ~ M143 bomblet*—~ M-143 bomblet*
 ~ M152—~ M-152
 ~ M30—~ M-30
 ~ M32 generator*—~ M-32 generator*
 ~ M4 generator*—~ M-4 generator*
 macaca mulatta
 machupo virus
 macro-organism*—macroorganism*
 macrophage*
 magnesium—~ Mg
 maintenance management cell*
 maitotoxin*
 malaise
 malfunction*
 mammal*
 mammalian cell culture
 manganese—~ Mn
 manufacturing plant—manufacturing facility*
 marburg virus—marburg fever virus—green monkey virus
 Marine Corp*

marine toxin*
maritime aerosol*
mask*—protective mask*—CB protective mask*—(CB) protective mask*—breathing mask*—
chemical and biological protective mask—facepiece—respirator
mask evaluation
mask/v
mass defense planning
mass destruction weapon*—weapons of mass destruction—weapon of mass destruction
mass median diameter—~ MMD
mass spectrometer*
mass spectrometry—ms-ms—ms—mass spectroscopy
matagorda island
mate
mathematical model*
maturation
mayaro virus—mayaro
measles virus*—German measles virus
mechanism of action—mechanism-of-action—mode of action—mode-of-action
media
median casualty onset time
medical countermeasure*
medical equipment
medical research
medical service*
medical therapy
medical treatment*
melioidosis
membrane*
membrane model*
meningitis
meningococcus
mercaptoethanol
messenger ribonucleic acid*—messenger ~ RNA—m ~ RNA
metabolism
metal complex*
meteorological data—meteorological condition*
meteorological effect*
meteorological network
meteorological phenomena
meteorology
meters per second—mps—m/s—meters per sec
methanotrophic bacteria
Mexico*
mice*

microflora
micro-spira method
microbiolog*
microbiological test*
microcapsule*
microcystin—microcystin-lr
microcystis—microcystis aerogineosa
microcystis aeruginosa
microencapsulation—micro-encapsulation—encapsulated particle*—encapsulated hybridoma*
microfilament
microflora bacteria
micronizer mill*
microscope
microscopy
military
military application*
military characteristic*
military equipment
military facilities toxicology—military facility toxicology
military intelligence—army intelligence
military medicine
military personnel
military requirement*
military research
milling
million liter chamber—one million liters chamber—1 million liter*—8-ball chamber—eight-ball
millipore filter*
Mississippi*
mitogen*
mitogenicity
mitogens clone*—mitogen clone*
mitomycin c—mitomycin*
mixing equipment
mixing layer height*
mixture*
model*
moisture content
molecular structure*
molecular weight— ~ MW
moniliaceae—moniliasis—monilales
monkey pox
monoclonal antibod*—monoclonal—monoclonal antibod*
monolayer tissue culture
morbidity

morphology
 mortality rate*—mortality
 mosquito*
 mosquito borne disease*
 moth collector
 munition*
 mussel*
 mutagen*
 mutagenic substance
 mutation*
 mycelia—mycelium
 mycobacterium tuberculosis
 mycocytosis
 mycoplasma
 mycoplasma pneumoniae
 mycotoxin*—ht-2 toxin—ht-2—ht2—t2 toxin—t-2 toxin—yellow rain—t-2 mycotoxin—t2 toxin—
 -t2 mycotoxin—trichothecene mycotoxin*
 myotoxin ii
 myxovirus*
 n-z- amine a
 nairobi sheep disease*
 nalidixic acid—nalidixic-acid
 natural killer cell*
 naval aircraft
 naval operation*
 naval operations defense planning—naval operation defense planning
 naval research*
 naval research weapons effect*—naval research weapon effect*
 Navy
 ~NBC—Nuclear, Biological & Chemical—Nuclear, Biological and Chemical—Nuclear,
 Biological, & Chemical—Nuclear, Biological, and Chemical
 ~NBC warfare—Nuclear, Biological & Chemical warfare—Nuclear, Biological and Chemical
 warfare—Nuclear, Biological, and Chemical warfare—Nuclear, Biological, & Chemical Warfare
 negative air pressure
 negotiation*
 neostigmine
 nepuyo virus
 Netherlands*—The Netherlands
 neurotoxin*—nerve toxin*
 neurotransmitter*
 neutral condition
 newcastle disease—newcastle disease virus
 night train
 nivalenol

~NMD—number median diameter
 nocardia farcinica
 nonimmune
 nonmotile—non-motile
 nonsporulating—non-sporulating
 Norway*
 nozzle*—p2-12—sonic nozzle*—two fluid nozzle*—slit nozzle*—single fluid nozzle*—round
 nozzle*
 nozzle assembly
 nozzle geometry
 nucleic acid*
 nucleic acid hybridization probe*
 nucleic acid probe*
 nucleic acid synthesis
 nucleic acid synthesis inhibition
 nucleoid*
 nucleoside*
 nucleotide*
 NUSSE2 model—NUSSE 2—NUSSE2—Non-Uniform Simple Surface Evaporation Model 2
 nutrient*
 nutrition
 nx
 nympheae odorata
 o'nyong-nyong virus—o'nyong-nyong
 ~ OCONUS—Outside the Continental U.S.—Outside the Continental United States
 offensive program—offensive ~ BW program
 offshore dissemination*
 ogliomeric toxin*
 ~ OJCS 1837 series—office of the joint chiefs of staff 1837 series
 open-air dissemination—open-air test*—open-air field test*—open air test*—open air operation--
 -open air dissemination—open air field test—open air fieldtest—open-air operation—open-air
 fieldtest
 operation dust mote
 operational effectiveness
 operational readiness
 ornithosis
 oronasal sampler—nose collector—nose sampler—ornasal inhalation sampler
 orthomyxovirus*
 osmosis
 oxidoreductase*
 oxygen requirement*
 oxygen tension
 oxysporum—fusarium lateritium—fusarium epishaeria--t-2 toxin--t2 fusarium skin p
 pactamycin—pactamycin toxin

Pakistan*
palyotoxin
palythoa
panama*
parainfluenza virus—para-influenza virus
parameter*
parent stock culture
partichrome
particle counter*—particle size*—particle size of secondary aerosol*—secondary aerosol particle size
particle release*
particle size distribution
particulate cloud*
particulate filter*
pasquill categor*
passive immunization
pasteurella pestis—pestis—plague—lo
pasteurella tularensis—rabbit fever—tularemia—tularense—ul—sr
patent*
pathogenic effect*—pathogenicity
pathogenic microorganism*
pathological effect*
pathology
peptic digest starch culture media
peracetic acid
persian gulf*
personnel hood*
pertussis
pertussis toxin plasmid*
Peru*
petri dish*
phagocyte*
phenol*
Philippines*
phosphoribosylpyrophosphate
physical decay*
physical decay constant
physical propert*
physiological counter measure*—physiological counter-measure*
physiological effect*
phytophthora
pico ~ RNA virus*
pilot plant*
pilot stud*

Pine Bluff Arsenal—directorate of biological operations— ~ DBO—Pine Bluff Arsenal ~ DBO

piricularia

piricularia oryzae

plague*

plague vaccine

plant*

plant agent*

plant design

plant growth regulator*

plant sciences laborator*—plant science laborator*

plaques

plasmid*

plasmodium berghei

pneumonia—bronchopneumonia—bronchial pneumonia

pneumonic

pneumophila

point

point alarm*

point source dissemination

polic*

polyclonal antibody

polyethylene glycol—PEG—PEG 200—polyethylene glycol 200

polymer*

polymerase

polymerase plasmid*

polymerization

polypropylene glycol

polysaccharide*

polyvalent antivenin

polyvinyl alcohol

porton down

potato fungi—potato fungus

powder*

poxvirus*

precipitate*

precipitation

precipitator*

precursor*

prediction*

preservation

preventive medicine*

primary lesion*

primate*

probit: curve: slope

procaryotic
procurement
product development
production
program plan*
proliferation
prophylactic
prophylaxis
prophylaxis/therapy—prophylaxis therapy
protection
protective antigen gene*
protective clothing—rubber gloves—rubber boots—rubber aprons—glove*—boot*—apron*
protein fluorescence
prototype development
proximity fuze*
pseudomona*
pseudomonas aeruginosa—pseudomonas aeruginosa
pseudomonas exoenzyme
pseudomonas pseudomallei—pseudomonas mallei
psiiik strain
psittacosis—parrot fever
psychological effect*
pufferfish toxin*
punta toro virus
purification*
purple anticrop agent—agent purple
puumala virus
quick reaction
rabies virus—rabies
radiation effect*
radio-immuno assay*—radioimmunoassay*—radio immunoassay*
radiolabel*—radioactive isotope label*
radiolabelled toxin
raffinose
ramjet air
rapid diagnosis
rapid field bacteriology test kit
rattle snake neurotoxin—rattle snake toxin
reaerosoliz*—re-aerosoliz*
receptor*
receptor site*
recombinant ~ DNA—recombinant deoxyribonucleic acid
recombinant virus*
recovery

relative humidity— ~ RH—humidity
 release condition*—release height
 reproduction
 research*
 research management
 reserpine
 resistance
 resistant tickborne viruses—tickborne virus*
 respiration
 respiratory diseases*
 respiratory sampler*
 respiratory system
 response time
 resuspension factor
 retaliation
 retrovirus*
 reverse osmosis
 reverse transcriptase
 reynier chamber
 reynier sampler*
 reynolds number
 rheology
 rhesus monkey*
 rheumatic diseases*
 rhinovirus*
 ribavirin resistant virus
 ribavirin—ribovarin
 ribonuclease
 ribonucleic acid*
 ribosome*
 rice
 ricin*—ricin a—ricin b—ricinus—beta-chain of ricin—chain of ricin—alpha-chain of ricin—
 rice blast—beta chain of ricin—alpha chain of ricin
 rickettsia—rickettsiaceae
 rickettsia mooseri—r. mooseri—mosseri—mooseri
 rickettsia prowazeki—rickettsia prowazekii—r. prowazeki
 rickettsia quintana—r. quintana
 rickettsia rickettsii—Rocky mountain spotted fever— ~ RMSF—r. rickettsii
 rickettsia tsutsugamushi—r. tsutsugamushi
 Rickettsia typhi—r. typhi
 rickettsial antibody*
 rift valley fever—rift valley fever virus
 riot control agent*
 risk analyses

~ RNA—ribonucleic acid
 ~ RNA virus*—exotic ~ RNA virus*—ribo-nucleic acid virus—exotic ribonucleic acid virus
 road test*
 ~ ROC—required operational capability
 roccal—quaternary ammonia
 rocket*
 rocket warhead*
 rocky mountain facility
 ross river virus—ross river
 rotating biological contactor*
 route of exposure—route of entry—route of challenge—route-of-exposure—route-of-entry—
 route-of-challenge
 rumania toxin* and antitoxin*
 rupture diaphragm
 rust*
 sabotage
 saccharomycetes
 ~ SAEB—staphylococcus antienterotoxin b
 safety
 safety board
 safety cabinet*
 safety program
 saint louis encephalitis virus
 salmonella*
 salmonella abony—s. abony
 salmonella antigen*
 Salmonella enteritidis—s. enteritidis
 salmonella immunoassay
 salmonella mutagen*
 salmonella paratyphi—s. paratyphi
 salmonella typhi—typhoid fever—salmonella typhosa—s. typhi
 salmonella typhimurium—s. typhimurium
 salmonella typhosa
 salmonellosis
 salt flat*
 sample collection
 sampler efficiency
 sampling*
 san francisco bay
 sand storm
 sandfly fever virus
 sanitation
 saprophytic fungi
 saxitoxin

scarlet sage
schistosoma mansonii
schistosoma japonicum
schistosomiasis
schu-5 strain—schu-5
Scotland*
scrub typhus
sea snake*
sea wasp toxin*—seawasp toxin*
semliki forest virus—semliki virus
semliki forest virus antibody*
sendai virus
sensor*
separation
sephadex gel
serodiagnosis—serum diagnosis
serratia indica
serratia marcescens—serratia marcescens—s. marcescens—s. marcescens
serum albumin
serum protein*
ses
severity
shelf life
shellfish poison
shiga toxin
shigella*—shigella dysenteriae—shigella dysenteriae toxin—shigella toxin
shigella flexneri
shigella newcastle plasmid*
shigella sonnei
shigella sonnei bacteriophage*
shigellosis
ship citadel*
shipping container*
simulant*—serratia marcescens—sm—bg—bacillus subtilis var niger—~ BW simulant
simulant pilot plant
simulation*
simulation decontamination
simulation defense planning
simulator*
sindbus virus
single shot
site directed mutagen—site directed mutagenesis
sizing/distribution
sizing—particle size

skin contamination
skin disease*—integument disease*—integumentary disease*
skin test*
slow release herbicide*
slow release repellent*
slurries—slurry
smallpox virus—smallpox—zl
smart receptor*
snail*
snake*
snake venom*
sodium channel*—sodium ion channel*
sodium hypochlorite
solvent extraction
songo
source
source book
source geometry
source model*
source parameter*
source strength—aerosol recovery
South Africa*
South Africa endotoxin*—South African endotoxin*
soviet threat
space biology
special operation*
special medical procedure*
spectrometer*
spectrometry
spectrophotometer*
spectrophotometry
spectroscopy
spill*—leak*
spore*
sporozoite*
sporulation
sprague dawley rat*
spray*
spray device*
spray drying
spray mission*
spray tank*
sprayer*
squirrel*

st
stability—survival time— ~ ST50
stabilization
stabilized tt
stable
standard deviation
standard operating procedure*— ~ SOP*
standardization
staphylococcus*—hemolyticaureus toxin
static chamber
~ STB—super tropical bleach
sterilization
sterilization of air—air sterilization
stockpil*
storage decay parameter*
storage facilit*
storage stability
strain*
strain development
strain selection
strategic warfare
streptococcus*—streptococcus pyogenes—streptococcus sanguis—streptococcal pneumonia
streptomycetes
streptomycin
stretomycin resistan*
sublimation
sucrose
sugar*
sulfamates
sulfanilamide*
surety
surface
surface acoustic wave--- ~ SAW
surface active substance* plague vaccine
surface growth
surfaces toxins and antitoxins—surface toxins and antitoxins
surveillance
survivability*
susceptibility
suu-24/a
suu-24/a dispenser
sverdlovsk
swath width
sweating

swine vesicular disease virus—swine vesicular disease—~SVD
symptom*
system performance table*
tactical
tactical warfare
target*—target population—target area
targeting
tarichatoxin
tc-83
temperature control
tent*
tentacle extract*
teratogen
terrain—topography—airfall
terror*
test and evaluation
test chamber*
test equipment
test facilit*
test grid—grid array
test kit*
test method*
test program—human test*—field test*-trial*—~ OCONUS trial*—field trial*
testing
tetanus
tetanus toxin*
tetracyline*
tetracycline prophylaxis
tetracycline therapy
tetradotoxin
thermal stress*
thermophilic bacteria
thin layer chromatography—~ TLC
thogoto virus
threat—terrorist threat—tactical threat—strategic threat—threat agent*
threat evaluation
tickborne diseases*
tickborne encephalitis virus* receptor*
ticks—tick-borne—tick
time biotechnology
tissue culture cell*—tissue culture
tmu-28/b spray tank*
toga virus—togavirus
toroid chamber--rotating drum chamber

total decay
total decay rate
toxemia—preclampsia—eclampsia
toxicity
toxicological warfare
toxicology
toxin*
toxin production
toxin weapon*
toxin 2
toxins of marine origin
tracer
training—train
training device*—training film*
transcription—gene transcription
transducer*
translation
transmission
transmutation
transport & diffusion
transportation
treaty—treaties
triphosphatase
tritiated t-2 toxin
tropical diseases*
tropical medicine
tropical test*
trypanosoma
trypanosoma cruzi
trypsin
tryptophan*—trp
tt
tuberculosis— ~ TB
tularemia
tularensis
turbulence—cramer's—lapse—inversion
type a
typhoid
typhoid endotoxin*
typhoidal form*
typhus
typhus rickettsiae—typhus rickettsia
tyrosine
ud/uranine dye

ul-1 agent
ultracentrifug*
una virus
unconventional warfare
unstable
uridine
~ US army medical research and development com*—~ USAMRDC
~ US army medical research institute of infectious dis*—~ USAMRIID
user manual*
user need*
~ USSR biological aerosol*
vaccination*
vaccine*
vaccine development
vaccinia virus—vaccinia—polyvalent vaccinia
vapor deposition
vapor pressure
vaporization
variola
variola virus
vector*—flea vector*—fleas—insect vector*—viral vector*—disease vector*
venom*
verification
verotoxin
vertical grid
vesicular stomatitis
vesicular stomatitis virus
veterinary medicine
vetting source*
viability
viability decay
viability decay constant
vibrio cholerae—cholera—vibrio comma
vibrio cholerae 569b strain
vicia faba
victoria
vigo
viral disease*
virology
virulence
virus*
virus diseas*
viscosity
villum 1b

vollum strain
volsh polygor
volunteer*—human subject*—human test subject*—human testing program
vozrozhdeniya
vulnerability*
vulnerability analysis
vulnerability assessment
Walter Reed army institute of research— ~ WRAIR
war game*
warhead*
warning system*—detection and warning*—detection & warning
waste treatment
water vapor
waste water
weakness
weapon*
weapon delivery
weapon mix*
weapon potential
weapon system effectiveness
weaponization
weapons development---weapon development
weapons system*---weapon system*
weather
weather forecasting
weather station*
weed control
weight loss
weil-felix reaction
west nile virus
west side
westfalia centrifuge
wet agent
white defoliant agent---agent white
white pox
wide area biological system
wind direction
wind soc
wind speed—wind velocity
wind stability
world health organization— ~ WHO
xanthine oxidase
xenobiotic compound*

~ XM-552 cartridges (30-mm)---~ XM552 cartridges (30-mm)---~ XM552 cartridge*---~ XM-552 cartridge*
~ XM-24 protection equipment lha filter
~ XM-40 mask*---~ X-M40 (cb) protective mask*---~ XM40 CB protective mask*---~ XM-40*---~ XM40*
~ XM-42b mask*---~ X-M42b (cb)protective mask*---~ XM42b CB protective mask*---~ XM42 protective mask*---~ XM42b mask*---XM42 mask*---~ XM-42 protective mask*---~ XM-42b CB protective mask*---~ XM-42bprotective mask*---~ XM-42 mask*---~ XM42*---~ XM-42*
xxcc₃ chloramide decontaminant
yeast*
yeast autolysate
yellow fever---yellow fever virus
yersinia enterocolitica
yersinia pestis
yersinia pseudotuberculosis
~ YFP---yellow ~ FP
yolk sac harvesters cryoscopy---yolk sac harvester cryoscopy
zectran cibachrome film
zinc cadmium sulfide---zinc-cadmium sulfide
zinc sulfide*
zooplankton
zootoxin*
ZZ

November 22, 1993

Catherine Montie
Defense Nuclear Agency
OPAC/ACCW
6801 Telegraph Road
Alexandria, VA 22310

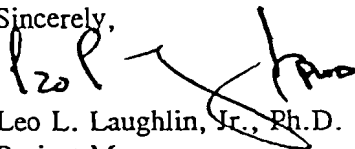
REFERENCE: Contract No. DLA 900-86-C-2045, Task 435,
MODIFICATION NO. P000345 CLIN NO. 0002MZ

Dear Ms. Montie,

Battelle is pleased to submit the enclosed "BW Database Thesaurus" as a Phase I deliverable under the US Biological Warfare (BW) Program Historical Preservation task (CBIAC Task 435). This report is submitted in accordance with DNA/OPAC letter dated 18 June 1993.

If you have any questions regarding this submission, please contact me at your convenience at (703) 413 8866.

Sincerely,


Leo L. Laughlin, Jr., Ph.D.
Project Manager

LLL/III
Enclosure

cc: Ms Lisa Bronson
Mr. Ben Moberley
Leon Sulton (letter only)
Steve Lawhorne

ENCLOSURE (5)

Document released under the
Freedom of Information Act
DNA Case No. 93-204