



Draft

Environmental Impact Statement /
Overseas Environmental Impact Statement

GUAM AND CNMI MILITARY RELOCATION

Relocating Marines from Okinawa,
Visiting Aircraft Carrier Berthing, and
Army Air and Missile Defense Task Force

Reader's Guide

November 2009

Comments may be submitted to:

Joint Guam Program Office
c/o Naval Facilities Engineering Command, Pacific
Attn: Guam Program Management Office
258 Makalapa Drive, Suite 100
Pearl Harbor, HI 96860

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Guam and CNMI Military Relocation EIS/OEIS

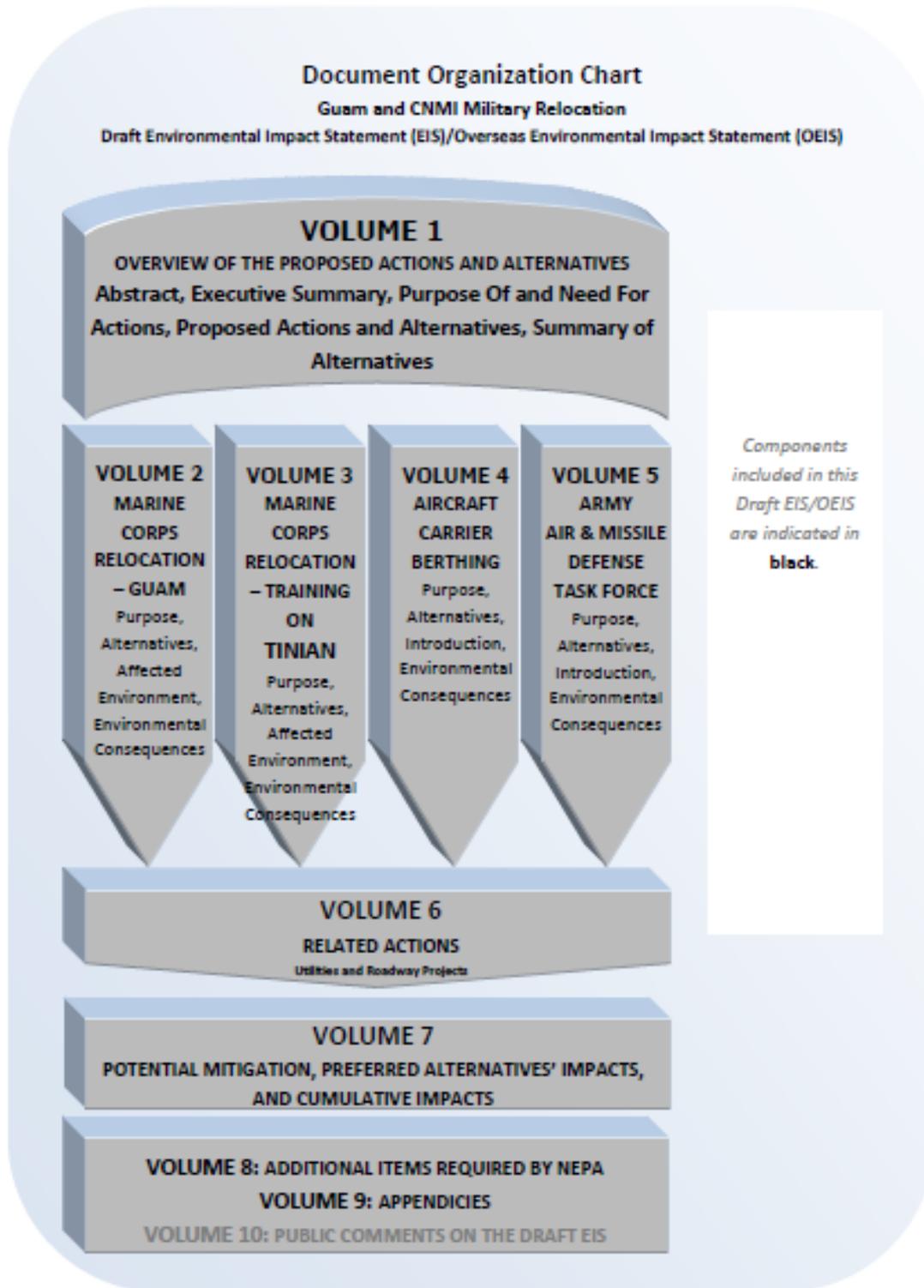
Reader's Guide

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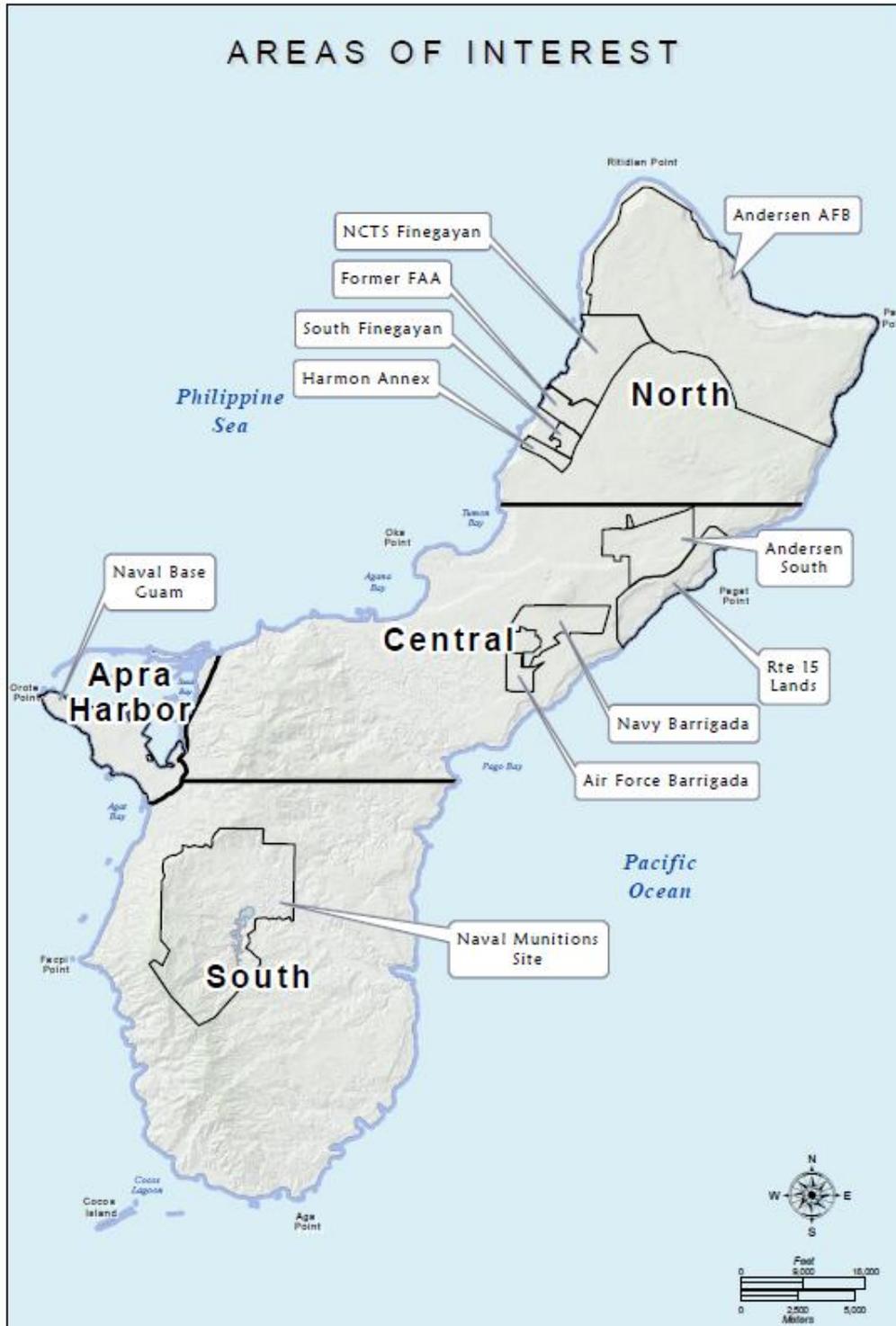
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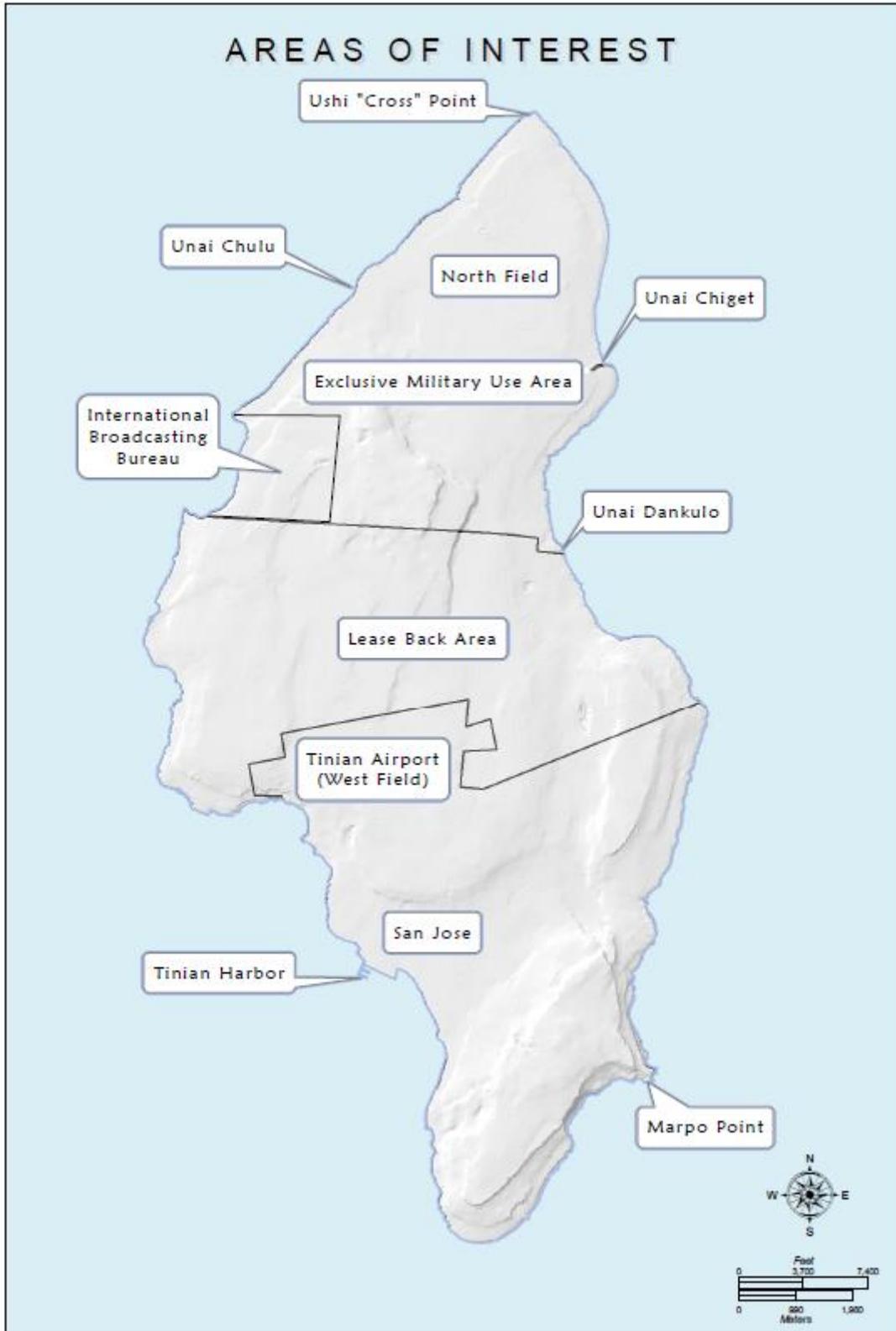
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GLOSSARY

Access—the right to transit to and from and to make use of an area.

Activity—an individual scheduled training function or action such as missile launching, bombardment, vehicle driving, or Field Carrier Landing Practice.

Air Traffic Control Assigned Airspace (ATCAA)—Federal Aviation Administration-defined airspace not over an Operating Area (OPAREA) within which specified activities, such as military flight training, are segregated from other Instrument Flight Rules air traffic.

Airfield—usually an active and/or inactive airfield, or infrequently used landing strip, with or without a hard surface, without Federal Aviation Administration-approved instrument approach procedures. An airfield has no control tower and is usually private.

Airport—usually an active airport with hard-surface runways of 3,000 feet or more, with Federal Aviation Administration-approved instrument approach procedures regardless of runway length or composition. An airport may or may not have a control tower. Airports may be public or private.

Airspace, Controlled—airspace of defined dimensions within which air traffic control service is provided to Instrument Flight Rules flights and to Visual Flight Rules flights in accordance with the airspace classification. Controlled airspace is divided into five classes, dependent upon location, use, and degree of control: Class A, B, C, D, and E.

Airspace, Special Use—airspace of defined dimensions identified as the space or portion thereof over an area on the surface of the earth wherein activities must be confined because of their nature and/or wherein limitations may be imposed upon non-participating aircraft.

Airspace, Uncontrolled—airspace, or Class G airspace, refers to airspace not otherwise designated and operations below 1,200 feet above ground level. No air traffic control service to either Instrument Flight Rules or Visual Flight Rules aircraft is provided other than possible traffic advisories when the air traffic control workload permits and radio communications can be established.

Airspace—the space lying above the earth or above a certain land or water area (such as the Pacific Ocean); more specifically, the space lying above a nation and coming under its jurisdiction.

Amphibious Craft Laydown—location for storing, maintaining and deploying amphibious vehicles.

Army Air and Missile Defense Task Force (AMDTF)—a ground force that includes command and control, missile field teams, maintenance, and logistics/supplies support. They also include Weapons Emplacement Sites that would accommodate Terminal High-Altitude Area Defense (THAAD) and Patriot Missile operations.

Base load power—the minimum load over a given time period. The generation capacity needed to meet the continuous (24/7) demand for the system.

Battalion—in general, a battalion is a group of 5 companies, approximately 960 individuals.

Biosecurity Risk Assessment—a risk assessment to evaluate the proposed actions described in this EIS/OEIS to determine the potential for invasive species to cause harm to ecological or economic systems on Guam or at locations where they may be inadvertently exported.

Biosecurity Plan—a plan that includes an invasive species risk assessment (biosecurity risk assessment) and management of risks and damage from invasive plant and animal species.

Biosecurity—a multi-level, multi-disciplinary, collaborative program to prevent the introduction and

establishment of new invasive species.

Booster—an auxiliary or initial propulsion system that travels with a missile or aircraft and that may not separate from the parent craft when its impulse has been delivered; may consist of one or more units. Boosters contain high explosives sensitive enough to be detonated by a small initiator and powerful enough to set off a less sensitive main explosive charge.

Carrier Vessel Nuclear (CVN)—a nuclear powered aircraft carrier.

Coastal Zone—a region occupying the area near the coastline in depths of water less than 538.2 ft (164.0 m). The coastal zone typically extends from the high tide mark on the land to the gently sloping, relatively shallow edge of the continental shelf. The sharp increase in water depth at the edge of the continental shelf separates the coastal zone from the offshore zone. Although comprising less than 10% of the ocean's area, this zone contains 90% of all marine species and is the site of most large commercial marine fisheries. This differs from the way the term "coastal zone" is defined in the Federal Coastal Zone Management Act where "coastal zone" typically extends from the low tide mark to several hundred feet upland.

Continental United States (CONUS)—the United States and its territorial waters between Mexico and Canada, but excluding Alaska, Hawaii, U.S. territories, and possessions.

Company—in general, a company is a group of 4 platoons, approximately 192 individuals.

Controlled Access—area where public access is prohibited or limited due to periodic training operations or sensitive natural or cultural resources.

Controlled Airspace—airspace of defined dimensions within which air traffic control service is provided to Instrument Flight Rules flights and to Visual Flight Rules flights in accordance with the airspace classification. Controlled airspace is divided into five classes, dependent upon location, use, and degree of control: Class A, B, C, D, and E.

Controlled Firing Area—area where ordnance firing is conducted under controlled conditions so as to eliminate hazard to aircraft in flight.

Council on Environmental Quality (CEQ)—established by the National Environmental Policy Act, the CEQ consists of three members appointed by the President. A CEQ regulation (Title 40 Code of Federal Regulations 1500-1508, as of July 1, 1986) describes the process for implementing the National Environmental Policy Act, including preparation of environmental assessments and environmental impact statements, and the timing and extent of public participation.

Cumulative Impact—the impact on the environment which results from the incremental impact of the action when added to the other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Discarded Military Munitions—military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of consistent with applicable environmental laws and regulations.

Distance X—the maximum distance a projectile (including guided missiles and rockets) will travel when fired or launched at a given quadrant elevation with a given charge or propulsion system.

Explosive Ordnance Disposal (EOD)—the detection, identification, field evaluation, rendering-safe recovery, and final disposal of conventional, nuclear, and chemical/biological ordnance. EOD activities are performed by specially trained active duty military personnel.

Explosive Safety Quantity-Distance (ESQD)—for a given quantity of explosive material, the distance separation relationships providing defined types of protection based on levels of risk considered acceptable. The size of the ESQD arc is proportional to the net explosive weight present.

Facilities—physical elements that can include roads, buildings, structures, and utilities. These elements are generally permanent or, if temporary, have been placed in one location for an extended period of time.

Fleet Area Control and Surveillance Facility (FACSFAC)—Navy facility that provides air traffic control services and controls and manages Navy-controlled off-shore operating areas and instrumented ranges.

Hardfill—a disposal facility for demolition debris (e.g. reinforced and non-reinforced concrete, asphalt, brick, block, tile, stone, roofing material, drywall, wood, and metal) that is not contaminated with solid waste, infectious waste, or hazardous waste.

High Explosive (HE)—an explosive substance designed to function by detonation (e.g., main charge, booster, or primary explosive). High Explosives when initiated change from basic form at a velocity greater than that of sound throughout the material exploding. The reaction, which generates a large volume of gas at high temperature and results in intense shattering effect, is usually referred to as a detonation. Examples: RDX, TNT, dynamite, and HBX.

Impact Area—the identified area within a range intended to capture or contain ammunition, munitions, or explosives and resulting debris, fragments, and components from various weapons systems (e.g., the ground and associated airspace within the training complex) A weapon system impact area is the area within the surface danger zone used to contain fired, or launched ammunition and explosives, and the resulting fragments, debris, and components. Indirect fire weapon system impact areas include probable error for range and deflection. Direct fire weapon system impact areas encompass the total surface danger zone from the firing point or position downrange to distance X.

Instrument Flight Rules (IFR)—regulations and procedures for flying aircraft by referring only to the aircraft instrument panel for navigation.

Major Exercise—a significant operational employment of live, virtual, and/or constructive forces during which live training is accomplished. A Major Exercise includes multiple training objectives, usually occurring over an extended period of days or weeks. An exercise can have multiple training operations (sub-events each with its own mission, objective and time period. Examples include C2X, JTFEX, SACEX, and CAX. Events [JTFEX] are composed of specific operations [e.g., Air-to-Air Missile], which consist of individual activities [e.g., missile launch]).

Maneuver Element—basic element of a larger force independently capable of maneuver. Normally, a Marine Division recognizes its infantry battalions, tank battalion, and light armored reconnaissance (LAR) battalion as maneuver elements. A rifle (or tank/LAR) battalion would recognize its companies as maneuver elements. A rifle (or tank/LAR) company would recognize its platoons as maneuver elements. Maneuver below the platoon level is not normally possible since fire and movement can be combined only at the platoon level or higher. The Army and National Guard recognize a squad and platoon as maneuver elements.

Maneuver—employment of forces on the battlefield through movement in combination with fire, or fire potential, to achieve a position of advantage with respect to the enemy in order to accomplish the mission.

Marine Air-Ground Task Force (MAGTF)— This is how the Marine Corp is set up to perform all types of their military actions. It insures that ground forces and air forces are working together under single leadership and a clear goal.

Marine Expeditionary Force (MEF)—A MEF is the largest MAGTF group, and is comprised of a MEF Headquarters Group, Marine Division, Marine Air Wing and Marine Logistics Group.

Marine Expeditionary Brigade (MEB)—A MEB is larger than a Marine Expeditionary Unit (MEU) but smaller than a Marine Expeditionary Force (MEF). It is comprised of a reinforced infantry regiment, a composite Marine aircraft group, and a brigade service support group. It can function as part of a joint task force, as the lead echelon of the MEF, or alone.

Marine Expeditionary Unit (MEU)—A MEU is the smallest MAGTF group, and is comprised of an air and ground combat team, and combat service support. The specific makeup of the MEU can be customized with additional artillery, armor, or air units.

Marine Corps Ground Unit—Marine Expeditionary Unit Ground Combat Element, or Battalion Landing Team, composed of an infantry battalion of about 1,200 personnel reinforced with artillery, amphibious assault vehicles, light armored reconnaissance assets and other units as the mission and circumstances require.

Material Potentially Presenting an Explosive Hazard (MPPEH)— material owned or controlled by the Department of Defense that, prior to determination of its explosives safety status, potentially contains explosives or munitions (e.g., munitions containers and packaging material; munitions debris remaining after munitions use, demilitarization, or disposal; and range-related debris) or potentially contains a high enough concentration of explosives that the material presents an explosive hazard (e.g., equipment, drainage systems, holding tanks, piping, or ventilation ducts that were associated with munitions production, demilitarization, or disposal operations). Excluded from MPPEH are munitions within the DoD-established munitions management system and other items that may present explosion hazards (e.g., gasoline cans and compressed gas cylinders) that are not munitions and are not intended for use as munitions.

Munitions and Explosives of Concern (MEC)—this term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks means: (A) Unexploded Ordnance (UXO), as defined in 10 U.S.C. 101(e)(5)(A) through (C); (B) Discarded military munitions (DMM), as defined in 10 U.S.C. 2710(e)(2); or (C) munitions constituents (e.g., TNT, RDX) present in high enough concentrations to pose an explosive hazard.

National Environmental Policy Act (NEPA)—42 U.S.C. 4321, et seq passed by Congress in 1969. The Act established a national policy designed to encourage consideration of the influences of human activities, such as population growth, high-density urbanization, or industrial development, on the natural environment. The National Environmental Policy Act procedures require that environmental information be made available to the public and the decision-makers before decisions are made. Information contained in the NEPA documents must focus on the relevant issues in order to facilitate the decision-making process.

Outside the Continental United States (OCONUS)—the areas of Alaska, Hawaii, U.S. territories, and possessions and their territorial waters excluding the United States and its territorial waters between Mexico and Canada.

Operation—A combination of activities accomplished together for a scheduled period of time for an intended military mission or task. An operation can range in size from a single unit exercise to a Joint or Combined event with many participants (e.g., aircraft, ships, submarines, troops).

Operational Range—a range that is under the jurisdiction, custody, or control of the Secretary of Defense and is used for range activities; or although not currently being used for range activities, that is still considered by the Secretary to be a range and has not been put to a new use that is incompatible with range activities per 10 U.S.C. 101(e)(3)..

Ordnance—broadly encompasses all weapons, ammunition, missiles, shells, and expendables (e.g., chaff and flares).

Peak load—the maximum load consumed or produced by a unit or group of units in a stated time period. It may be the maximum instantaneous load or the maximum average load over a designated period of time. The peak system demand during a period of time (peak demand for a day, hour, month).

Platoon—in general, a platoon is a group of 42 individuals.

Range—a land or sea area designated and equipped for firing lines and positions, maneuver areas, firing lanes, test pads, detonation pads, impact areas, electronic scoring sites, buffer zones with restricted access, exclusionary areas. Also includes airspace areas designated for military use in accordance with regulations and procedures prescribed by the Administrator of the Federal Aviation Administration [10 U.S.C. 101 (e)(3)].

Range Activity—an individual training or test function performed on a range or in an Operating Area. Examples include missile launching, bombardment, and vehicle driving. Individual RDT&E functions are also included in this category.

Range Complex—a geographically integrated set of ranges, operational areas, and associated special use airspace, designated and equipped with a command and control system and supporting infrastructure for freedom of maneuver and practice in munitions firing and live ordnance use against scored and/or tactical targets and/or Electronic Warfare tactical combat training environment.

Range Operation—a live training exercise, a research, development test and evaluation (RDT&E) test, or a field maneuver conducted for a specific strategic, operational or tactical military mission, or task. A military action. Operations may occur independently, or multiple operations may be accomplished as part of a larger event. One operation consists of a combination of activities accomplished together. The type of operation can include air, land, sea, and undersea warfare training or testing. Participants can include a specific number and type of aircraft, ships, submarines, amphibious or other vehicles and personnel.

Range Safety Zone—area around air-to-ground ranges designed to provide safety of flight and personnel safety relative to dropped ordnance and crash sites. Land use restrictions can vary depending on the degree of safety hazard, usually decreasing in magnitude from the weapons impact area (including potential ricochet) to the area of armed overflight and aircraft maneuvering.

Readiness—the ability of forces, units, weapon systems, or equipment to deliver the outputs for which they were designed (includes the ability to deploy and employ without unacceptable delays).

Regiment—a Regiment is a unit of three Battalions, approximately 2,880 individuals.

Restricted Area—a designated airspace in which flights are prohibited during published periods of use unless permission is obtained from the controlling authority.

Safety Zone—administratively designated/implied areas designated to limit hazards to personnel and the public, and resolve conflicts between operations. Can include range safety zones, ESQDS, surface danger zones, special use airspace, Hazards of electromagnetic radiation to ordnance/hazards of electromagnetic radiation to personnel areas, etc.

Scoping—a process initiated early during preparation of an Environmental Impact Statement to identify the scope of issues to be addressed, including the significant issues related to the Proposed Action. During scoping, input is solicited from affected agencies as well as the interested public.

Sortie—a single operational training or RDT&E event conducted by one aircraft in a range or operating area. A single aircraft sortie is one complete flight (i.e., one take-off and one final landing).

Special Use Airspace—consists of several types of airspace used by the military to meet its particular needs. Special use airspace consists of that airspace wherein activities must be confined because of their nature, or wherein limitations are imposed upon aircraft operations that are not a part of these activities, or both. Special use airspace, except for Control Firing Areas, are charted on instrument flight rules or

visual flight rules charts and include hours of operation, altitudes, and the controlling agency.

Stakeholder—those people or organizations that are affected by or have the ability to influence the outcome of an issue. In general, this includes regulators, the regulated entity, and the public. It also includes those individuals who meet the above criteria and do not have a formal or statutorily defined decision-making role.

Submerged Lands—the areas in coastal waters extending from the Guam coastline into the ocean 3 nautical miles (nm) (5.6 kilometers) [km].

Surface Danger Zone (SDZ)—the area surrounding a range that allows for the probability of a munition not landing within the designated target or impact area within which access is controlled for safety during firing.

Sustainable Range Management—management of an operational range in a manner that supports national security objectives, maintains the operational readiness of the Armed Forces, and ensures the long-term viability of operational ranges while protecting human health and the environment.

Targets—earthwork, materials, actual or simulated weapons platforms (tanks, aircraft, EW systems, vehicles, ships, etc.) comprising tactical target scenarios within the range/range complex impact areas.

Uncontrolled Airspace—airspace of defined dimensions in which no air traffic control services to either instrument flight rules or visual flight rules aircraft will be provided, other than possible traffic advisories when the air traffic control workload permits and radio communications can be established.

Unexploded Ordnance (UXO)—military munitions that (A) have been primed, fused, armed, or otherwise prepared for action; (B) have been fired, dropped, launched, projected or placed in such a manner as to constitute a hazard to operations, property, installations, personnel or material; and (C) remained unexploded either by malfunction, design or any other cause [10 U.S.C. 101 (e)(5)(A) through (C)].

Ungulate—any animal having hoofs such as deer, pigs, cattle, etc.

Upland—an area of land of higher elevation.

U.S. Territorial Waters—sea areas within 12 nm of the U.S. coastline, normally measured from the low water mark on the shoreline.

Visual Flight Rules (VFR)—regulations which allow a pilot to operate an aircraft in weather conditions generally clear enough to allow the pilot to see where the aircraft is going.

Wholly Inert—ordnance with no explosive, propellant, or pyrotechnic component (non-reactive); example: BDU-50, BDU-56 (both are non-reactive heavy-weights with no explosive charges).

CHAPTER 5.

ACRONYM AND ABBREVIATION LIST

36 WG	36 th Wing	BCD	Base Command Officer
III MEF	Third Marine Expeditionary Force	BCDC	Bureau of Communicable Disease Control
AAV	Amphibious Assault Vehicle	BEQ	Bachelor Enlisted Quarters
AADT	Average Annual Daily Traffic	BFHNS	Bureau of Family Health and Nursing Services
AASHTO	American Association of State Highway and Transportation Officials	BFR	Basic Facility Requirements
ac	acre(s)	BI	Beneficial Impact
ACE	Air Combat Element	BMD	Ballistic Missile Defense
ACHP	Advisory Council for Historic Preservation	BMDTF	Ballistic Missile Defense Task Force
ACM	asbestos-containing material	BMPs	Best Management Practices
ADA	Americans with Disabilities Act	BMUS	Bottomfish Management Unit Species
ADAAG	Americans with Disabilities Act Accessibility Guidelines	BO	Biological Opinion
ADT	Average Daily Traffic	BOMBEX	Bombing Exercise
AFB	Air Force Base	BOQ	Bachelor Officer Quarters
AFI	Air Force Instruction	BOW	Bilge Oily Waste
A-G	air-to-ground	BOWTS	Bilge Oily Waste Treatment System
AGL	above ground level	BPC	Bureau of Primary Care
AIDS	Acquired Immune Deficiency Syndrome	BRAC	Base Realignment and Closure
AIP	Agreed Implementation Plan	BS 0	Battle Site Zero
ALPCD	Alien Labor Processing and Certification Division	BFR	Basic Facility Requirements
AMC	Air Mobility Command	BQ	Bachelors Quarters
AMDTF	Air and Missile Defense Task Force	BRS	Biennial Reporting System
AMVOC	Advanced Motor Vehicle Operators Course	BRSA	Biological Resource Study Area
AOC	Area of Concern	BSP	Bureau of Statistics and Plans
AOR	Area of Responsibility	BSTS	Battle Staff Training and Simulation
APC	Areas of Particular Concern	BTS	brown tree snake
APCSR	Air Pollution Control Standards and Regulations	Btu	British Thermal Units
APE	Area of Potential Effect	BUMED	Bureau of Medicine and Surgery
APZ	Accident Potential Zone	C&D	Construction and Demolition
ARG	Amphibious Readiness Group	CAA	Clean Air Act
ARPA	Archaeological Resource Protection Act	CAAA	Clean Air Act Amendments
A-S	air-to-surface	CAL	Confined Area Landings
ASHRAE	American Society of Heating Refrigeration and Air Conditioning Engineers	CATEX	Categorical Exclusion
ASN	Assistant Secretary of the Navy	CBOD ₅	Chemical Biological Oxygen Demand – Five Day
AST	Aboveground Storage Tank	CDC	Communicable Disease Control
ATARA	Alliance Transformation and Realignment Agreement	CDF	Confined Disposal Facility
ATC	Air Traffic Control	CDL	Clandestine Drug Labs
ATCAA	Air Traffic Control Assigned Airspace	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
AT/FP	Antiterrorism/Force Protection	CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Act Information Systems
AUPM	Above and Underground Storage Tank and Pesticide Management	CESQG	Conditionally Exempts Small Quantity Generators
B	billion	CEQ	Council on Environmental Quality
BA	Biological Assessment	CFA	Controlled Firing Area
BACT	Best Available Control Technology	CFR	Code of Federal Regulations
BASH	Bird Airstrike Hazard Plan	cfs	cubic feet per second
		CG	Guided Missile Cruiser
		CHC	Community Health Clinic

CHCRT	Currently Harvested Coral Reef Taxa	DELISTED NPL	National Priority List Deletions
CIP	Capital Improvements Program	DEIS	Draft Environmental Impact Statement
CLOMR	Conditional Letter of Map Revision	DEQ	Division of Environmental Quality
cm	centimeter(s)	DERP	Defense Environmental Restoration Program
cm/s	centimeters per second	DISID	Department of Integrated Services for Individuals with Disabilities
CMP	Coastal Management Program	DLM	Department of Land Management
CMUS	Crustacean Management Unit Species	DLNR	Department of Lands and Natural Resources
CNM	Commander Navy Region Marianas	DMHSA	Department of Mental Health and Substance Abuse
CNMI	Commonwealth of the Northern Mariana Islands	DMM	Discarded Military Munitions
CNO	Chief of Naval Operations	DMR	Discharge Monitoring Report
CO	carbon monoxide	DNL	Day-Night Sound Level
CO ₂	carbon dioxide	DO	dissolved oxygen
COMNAV	Commander Navy Region	DoC	Department of Corrections
COMPACFLT	Commander, U.S. Pacific Fleet	DoD	Department of Defense
COMSCINST	Commander, Military Sealift Command Instruction	DoDEA	Department of Defense Education Activity
CONOPS	Concept of Operations	DOE	Department of Energy
CONSENT	Superfund Consent Decrees	DOI	Department of the Interior
CONUS	Continental United States	DOPAA	Description of Proposed Action and Alternatives
CORRACTS	Corrective Action Sites	DOT	Department of Transportation
CPA	Commonwealth Ports Authority	DOT OPS	Department of Transportation Office of Pipeline Safety Incident and Accident Data
CPF	Commander U.S. Pacific Fleet	DPHSS	Department of Public Health and Social Services
CPI	Consumer Price Index	DPL	Department of Public Lands
CQC	Close Quarters Combat	DPRI	Defense Policy Review Initiative
CREMUS	Coral Reef Ecosystem Management Unit Species	DPS	Department of Public Safety
CRM	Coastal Resources Management	DPW	Department of Public Works
CRMO	Coastal Resources Management Office	DRMO	Defense Reuse and Marketing Office
CRMP	Coastal Resources Management Program	DRS	Demand Response Service
CSA	Customer Service Agreement	DSAY	Discount Service Acre Year
CSAR	Combat Search and Rescue	DSMOA	DoD & State/Territorial Memorandum of Agreement
CSG	Carrier Strike Group	DU	dwelling unit
CSS	Commander Submarine Squadron	DU/ac	dwelling units per acre
CT	Combustion Turbine	DYA	Department of Youth Affairs
CUC	Commonwealth Utilities Corporation	EA	Environmental Assessment
CVN	Carrier Vessel Nuclear	EC	Electronic Combat
CVW	Carrier Air Wing	ECM	earth-covered magazine
CWA	Clean Water Act	ECO	Environmental Compliance Officer
CWCS	Comprehensive Wildlife Conservation Strategy	EC-OPS	Electronic Combat Operations
CY	cubic yard(s)	ECHO	Enforcement and Compliance History Online
CZ	Clear Zone	ECP	Entry control point
CZMA	Coastal Zone Management Act	EDR	Environmental Data Resources
DAMOS	Disposal Area Monitoring System	EEZ	Exclusive Economic Zone
DAR	Defense Access Road	EFH	Essential Fish Habitat
dB	decibel(s)	EIS	Environmental Impact Statement
dBA	A-weighted decibel(s)	EJ	Environmental Justice
dBC	C-weighted decibel(s)	EMI	Electromagnetic Interference
DD	Destroyer	EMR	Electromagnetic Radiation
DDESB	Department of Defense Explosive Safety Board	EMUA	Exclusive Military Use Area
DDESS	Dependent Elementary and Secondary Schools	EO	Executive Order
DDG	Guided Missile Destroyer		
DEH	Division of Environmental Health		

EOD	Explosive Ordnance Disposal	GCWCS	Guam Comprehensive Wildlife Conservation Strategy
EPA	Environmental Protection Agency	GDAWR	Guam Division of Aquatic and Wildlife Resources
EPCRA	Emergency Planning & Community Right-To-Know Act	GDISID	Guam Department of Integrated Services for Individuals with Disabilities
EPP	Environmental Protection Plan	GDLM	Guam Department of Land Management
ERA	Ecological Reserve Area	GDMHSA	Guam Department of Mental Health and Substance Abuse
ERNS	Emergency Response Notification System	GDoC	Guam Department of Corrections
ER-L	Effects Range-Low	GDoL	Guam Department of Labor
ER-M	Effects Range-Median	GDPHSS	Guam Department of Public Health and Social Services
ESA	Endangered Species Act	GDPW	Guam Department of Parks and Recreation
ESAL	Equivalent Single Axle Loading	GDYA	Guam Department of Youth Affairs
ESQD	Explosive Safety Quantity-Distance	GEDCA	Guam Economic Development and Commerce Authority
FAA	Federal Aviation Administration	GEPA	Guam Environmental Protection Agency
FACSFAC	Fleet Area Control and Surveillance Facility	GFD	Guam Fire Department
FAM	Familiarization/Instrument Training	GHG	green house gasses
FARP	Forward Arming and Refueling Point	GHMP	Guam Hazard Mitigation Plan
FAS	Freely Associated States of Micronesia	GHPO	Guam Historic Preservation Office
FCLP	Field Carrier Landing Practice	GHRA	Guam Hotel and Restaurant Association
FDM	Farallon de Medinilla	GIAA	Guam International Airport Authority
FEIS	Final Environmental Impact Statement	GIMDP	Guam Integrated Military Development Plan
FEMA	Federal Emergency Management Agency	GIP	Gross Island Product
FEP	Fishery Ecosystem Plan	GIS	Geographic Information System
FEPCA	Federal Pesticide Control Act	GJMMP	Guam Joint Military Master Plan
FFCA	Federal Facilities Compliance Act	GLUC	Guam Land Use Commission
FHWA	Federal Highway Administration	GLUP	Guam Land Use Plan
FINDS	Facility Index System	GMH	Guam Memorial Hospital
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act	GMHA	Guam Memorial Hospital Authority
FIREX	Firing Exercise	GNWR	Guam National Wildlife Refuge
FIRM	Flood Insurance Rate Map	GoJ	Government of Japan
FMP	Fishery Management Plan	GovGuam	Government of Guam
FONSI	Finding of No Significant Impact	GPA	Guam Power Authority
FOC	Full Operational Capability	gpd	gallons per day
FPPA	Farmland Protection Policy Act	GPD	Guam Police Department
FR	Federal Register	GPLS	Guam Public Library System
FSM	Federated States of Micronesia	gpm	gallons per minute
ft	foot/feet	GPSS	Guam Public School System
ft ²	square foot/feet	GRHP	Guam Register of Historic Places
FTA	Federal Transit Administration	GRN	Guam Road Network
FTE	full time equivalent	GRT	Gross Receipts Tax
FTTS	FIFRA/TSCA Tracking System	GSCSCR	Government of Guam Soil Erosion And Sediment Control Regulations
FTX	Field Training Exercise	GSF	gross square feet
FUDS	Formerly Used Defense Sites	GSM	gross square meters
FWCA	Fish and Wildlife Coordination Act	GTP	2030 Guam Transportation Plan
FY	Fiscal Year	GUNEX	Gunnery Exercise
GAIN	Guam Animals in Need	GVB	Guam Visitors Bureau
GALC	Guam Ancestral Lands Commission	GWA	Guam Waterworks Authority
GAR	Guam Administrative Regulations	GWMPZ	ground water management protection zone
GBB	Gershman, Brickner, & Bratton, Inc.		
GBSP	Guam Bureau of Statistics and Plans		
GCA	Guam Code Annotated		
GCC	Guam Community College		
GCE	Ground Combat Element		
GCMP	Guam Coastal Management Plan		
GCR	General Conformity Rule		

GWQS	Guam Water Quality Standards	JGPO	Joint Guam Program Office
GWUDI	groundwater under the direct influence of surface water	JSDF	Japanese Self-Defense Force
ha	hectare(s)	JRC	Joint Region Commander
HACCP	Hazard Analysis and Critical Control Points	JRM	Joint Region Marianas
HAP	Hazardous Air Pollutant(s)	KD	known distance
HAPC	Habitat Area of Particular Concern	kg	kilogram
HC	hydrocarbon	kg/day	kilograms per day
HCM	Highway Capacity Manual	km	kilometer(s)
HDPE	high-density polyethylene	km ²	square kilometer(s)
HDD	Horizontal Directional Drilling	knots	nautical miles per hour
HE	high explosive	kph	kilometers per hour
HEA	Habitat Equivalency Analysis	kV	kilovolts
HERO	Hazards of Electromagnetic Radiation to Ordnance	kW	kilowatt(s)
HERP	Hazards of Electromagnetic Radiation to Personnel	kW/hr	kilowatts per hour
HIV	Human Immunodeficiency Virus	L	liter(s)
HMIRS	Hazardous Materials Information Reporting System	LAER	Lowest Achievable Emission Rate
HMMP	Hazardous Materials Management Plan	LAV	Light Armored Vehicle
HMMWV	High Mobility Multi Wheeled Vehicle	lb	pound(s)
HMU	Habitat Management Unit	LBA	Leaseback Area
HPO	Historic Preservation Officer	LBP	lead-based paint
HPV	high-priority violation	LCAC	Landing Craft Air Cushion
HQ	Headquarters	LCE	Logistic Combat Element
hr	hour(s)	LCU	Landing Craft Utility
HSC	Helicopter Sea Combat Squadron	LEDPA	Least Environmentally Damaging Practicable Alternative
HSIP	Highway Safety Improvement Program	LEED	Leadership in Energy and Environmental Design
HSV	High Speed Vessel	L _{eq}	equivalent sound level
HSWA	Hazardous and Solid Waste Amendments	LF	linear feet
HUBZone	Historically Underutilized Business Zone	LFG	Landfill Gas
HVAC	heating, ventilation, and air conditioning	LHA/LHD	Amphibious Assault Ship
HWMP	Hazardous Waste Management Program	LID	Low Impact Development
IAP	International Airport	LIDAR	Light Detection and Ranging
IBB	International Broadcasting Bureau	LLDP	linear low-density polyethylene
ICIS	Integrated Compliance Information System	L _{max}	Maximum Sound Level
ICRMP	Integrated Cultural Resources Management Plan	LNG	Liquefied Natural Gas
IGBS	Integrated Global Presence and Basing Strategy	LOS	Level of Service
IFR	Instrument Flight Rules	LPD	Amphibious Transport Dock
IMPs	Integrated Management Practices	lpm	liters per minute
in	inch(es)	LQG	large quantity generator
INRMP	Integrated Natural Resources Management Plan	LSD	Dock Landing Ship
INST CONTROLS	Sites with Institutional Controls	LSI	Less than significant impact
IOC	Initial Operational Capability	LUCIS	Land Use Control Information Systems
IPP	Independent Power Producers	LZ	Landing Zone
IRIS	Integrated Risk Information System	m	meter(s)
IRP	Installation Restoration Program	m ²	square meter(s)
ISA	Inter-Service Agreement	m ³	cubic meters(s)
ISR	Intelligence, Surveillance, and Reconnaissance	M	million
ISWMP	Integrated Solid Waste Management Plan	MAGTF	Marine Air Ground Task Force
ITC	International Trade Center	MAP	Military Access Point
IWPS	Island-Wide Power System	Marine Corps	United States Marine Corps
		MARFORPAC	Marine Forces Pacific
		MAW	Marine Aircraft Wing
		MBTA	Migratory Bird Treaty Act
		MCMEX	Mine Counter Measures Exercise
		MC	Munitions Constituents

MCCS	Marine Corps Community Service	MUTCD	Manual on Uniform Traffic Control Devices
MCL	Maximum Concentration Level	MVA	mega volt ampere
MCMEX	Mine Counter Measures Exercise	MW	megawatts
MCO	Marine Corps Order	MWDK	Military Working Dog Kennel
MCP	Mariana Islands Concept Plan	MWR	Morale, Welfare, and Recreation
MCTL	Marine Corps Task List	NAA	Non-Attainment Area
MDA	Missile Defense Agency	NAAQS	National Ambient Air Quality Standards
MEB	Marine Expeditionary Brigade	NAC	Noise Abatement Criteria
MEC	Munitions and Explosives of Concern	NATA	National Air Toxics Assessment
MEF	Marine Expeditionary Force	NAV	Navy Ashore Vision
MEU	Marine Expeditionary Unit	NAVCAMS	Naval Communication Area Master Station
MFP/CPF	Marine Forces Pacific/Commander Pacific Fleet	NAVFAC	Naval Facilities Engineering Command
MFR	multi-family residential	NCP	National Contingency Plan
MG	million gallons	NCTMS	Naval Computer and Telecommunications Main Station
mg/cm ²	milligrams per square centimeter	NCTS	Naval Computer and Telecommunications Station
MGd	million gallons per day	NDAA	National Defense Authorization Act
mg/L	milligrams per liter	NDWWTP	Northern District Wastewater Treatment Plant
mi	mile(s)	NELHA	National Energy Laboratory of Hawaii Authority
mi ²	square miles	NEO	Noncombatant Evacuation Operations
ml	million liters	NEPA	National Environmental Policy Act
MILCON	Military Construction	NEW	net explosive weight
MIP	Medically Indigent Program	NEXRAD	Next Generation Weather Radar
MIRC	Mariana Islands Range Complex	NFIP	National Flood Insurance Program
MISSILEX	Missile Exercise	NFRAP	No Further Remedial Action Planned List
MLA	Military Lease Area	NGL	Northern Guam Lens
mld	million liters per day	NGLA	Northern Guam Lens Aquifer
MLG	Marine Logistic Group	NGO	Non-Governmental Organization
MLLW	mean lower low water	NHL	National Historic Landmark
MLTS	Material Licensing Tracking System	NHPA	National Historic Preservation Act
mm	millimeter(s)	NHP	National Historic Park
MMPA	Marine Mammal Protection Act	NI	No Impact
MMR	Military Munitions Rule	NIOSH	National Institute for Occupational Safety and Health
MMRP	Military Munitions Response Program	NLNA	northern land navigation area
MOA	Memorandum of Agreement	nm	nautical mile(s)
MOS	Military Occupational Specialty	nm ²	square nautical mile(s)
MOU	Memorandum of Understanding	NMC-DET	Navy Munitions Command Detachment
MOUT	Military Operations in Urban Terrain	NMFS	National Marine Fisheries Service
mph	miles per hour	NMS	Naval Munitions Site
MPLA	Marianas Public Land Authority	NNPP	Naval Nuclear Propulsion Program
MPPEH	material potentially presenting an explosive hazard	NO _x	nitrogen oxides
MPRSA	Marine Protection, Research, and Sanctuaries Act	NOA	Notice of Availability
MRA	Munitions Response Area	NOAA	National Oceanic and Atmospheric Administration
MRC	Marine Research Consultants	NOI	Notice of Intent
MRS	Munitions Response Sites	NOTAM	Notice to Airmen
MSA	Munitions Storage Area	NOTMAR	Notice to Mariners
MSAT	Mobile Source Air Toxics	NPDES	National Pollutant Discharge Elimination System
M-SA	Magnuson-Stevens Act	NPL	National Priorities List
MSC	Military Sealift Command		
msl	mean sea level		
MSM	modular storage magazine		
MSWLF	Municipal Solid Waste Landfill Facility		
MUS	Management Unit Species		
MUSE	Mobile Utilities Support Equipment		

NPS	National Park Service	RAB	Restoration Advisory Board
NRC	Nuclear Regulatory Commission	RADINFO	Radiation Information Database
NRCHC	Northern Region Community Health Center	RCRA	Resource Conservation and Recovery Act
NRHP	National Register of Historic Places	RCRIS	Resource Conservation and Recovery Act Information System
NRMC	Navy Regional Medical Center	REC	Regional Environmental Coordinator
NSR	New Source Review	REDHORSE	Rapid Engineer Deployable Heavy Operations
NSV	North San Vitoris	Req'd	required
NWF	Northwest Field	RHA	Rivers and Harbors Act
NWR	National Wildlife Refuge	RO	reverse osmosis
O&M	Operations and Maintenance	ROD	Record of Decision
ODMDS	Ocean Dredged Material Disposal Site	ROI	Region of Influence
OEA	Overseas Environmental Assessment	ROW	right-of-way
OEIS	Overseas Environmental Impact Statement	RPM	revolutions per minute
OHA	Overseas Housing Allowance	RSE	Repair Squadron Engineer
OIA	Office of Insular Affairs	RTA	Range Training Area
OPA	Oil Pollution Act	SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act – A Legacy for Users
OPNAVINST	Office of the Chief of Naval Operations Instruction	SAIA	Sikes Act Improvement Act
OSD	Office of the Secretary of Defense	SARA	Superfund Amendments and Reauthorization Act
OSHA	Occupational Safety and Health Administration	SAT	Stationary Armor Target
OTEC	Ocean Thermal Energy Conversion	SBHSR	Ship-Borne Hazardous Substance Regulations
P2	Pollution Prevention	SCC	Security Consultative Committee
PA	Programmatic Agreement	SCH	school
PAC-3	Patriot Advanced Capability-3	SCR	Selective Catalytic Reduction
PACAF	Pacific Air Forces	SCS	Soil Conservation Service
PACOM	U.S. Pacific Command	SDWA	Safe Drinking Water Act
PAG	Port Authority of Guam	SDZ	Surface Danger Zone
PCBs	polychlorinated biphenyls	SEABEE	Construction Battalion
PHCRT	potentially harvested coral reef taxa	SECNAV	Secretary of the Navy
PL	Public Law	SEI	Sea Engineering Inc.
PLS	Public Library System	SEL	Sound Exposure Level
PM	particulate matter	SFR	single-family residential
PM _{2.5}	particulate matter less than 2.5 microns in diameter	SHSP	Strategic Highway Safety Plan
PM ₁₀	particulate matter less than 10 microns in diameter	SI	Significant Impact
PMO	Personnel Management Office	SI-M	Significant impact mitigable to less than significant
PMUS	Pelagic Management Unit Species	SINKEX	Sink Exercise
POL	petroleum, oil, and lubricants	SIP	State Implementation Plan
POV	privately-owned vehicle	SIT	Stationary Infantry Target
PPA	Pollution Prevention Act	SLAMRAAM	Surface-Launched Advanced Medium-Range Air-to-Air Missile
PPE	personal protective equipment	SLC	Submarine Learning Center
ppm	parts per million	SMMP	Site Management and Monitoring Plan
ppt	parts per thousand	SNC	Significant Non-Compliance
PSD	Prevention of Significant Deterioration	SNU	Skilled Nursing Unit
psi	pounds per square inch	SPAWAR	Space and Naval Warfare Systems Command
pv	photovoltaic	SO ₂	sulfur dioxide
PYE	person years of employment	SOFA	Status of Forces Agreement
PWC	Public Works Center	SOGCN	Species of Greatest Conservation Need
QDR	Quadrennial Defense Review	SOP	Standard Operating Procedure
QOL	Quality of Life		
RA	Restricted Area		
RAATS	RCRA Administrative Action Tracking System		

SPCC	Spill Prevention, Control and Countermeasure	µg/L	micrograms per liter
SPE	Special Purpose Entity	UoG	University of Guam
SPS	Sewage Pump Station	U.S.	United States
SQG	small quantity generator	USACE	U.S. Army Corps of Engineers
SRBM	Short-range Ballistic Missile	USC	U.S. Code
SRCHC	Southern Region Community Health Center	USCG	U.S. Coast Guard
SRF	Ship Repair Facility	USCRTF	U.S. Coral Reef Task Force
S-S	surface-to-surface	USDA	U.S. Department of Agriculture
SSTS	Section Seven Tracking System	USDA-WIS	U.S. Department of Agriculture-Wildlife Services
STD	sexually transmitted disease	US ENG CONTROLS	Engineering Controls Site List
STOM	Ship-to-Objective Maneuver	USEPA	U.S. Environmental Protection Agency
SUA	Special Use Airspace	USFS	U.S. Forest Service
SWMD	Solid Waste Management Division	USFWS	U.S. Fish and Wildlife Service
SWMP	Stormwater Management Plan	USGS	U.S. Geological Service
SWMU	solid waste management unit	USLE	Universal Soil Loss Equation
SWPPP	Stormwater Pollution Prevention Plan	UST	underground storage tank
T&D	Transmission and Distribution	UXO	unexploded ordnance
T-AKE	Auxiliary Dry Cargo/Ammunition Ship	v	volt(s)
T-AKR	Sealift Ship	VA	Veterans Affairs
TB	tuberculosis	v/c	volume to capacity
TBD	To Be Determined	VCO	Volunteer Conservation Officer
TBP	To Be Provided	VFR	Visual Flight Rules
TCP	Training Concept Plan	VHF	very high frequency
TEC JV	TEC Inc. Joint Venture	VHT	vehicle hours traveled
THAAD	Terminal High Altitude Area Defense	VIF	Vehicle Inspection Facility
TJS	Tactical Jamming System	VMT	vehicle miles traveled
TMP	Traffic Management Plan	VOC	volatile organic compound
TNAP	Traffic Noise Abatement Policy	vpd	vehicles per day
TNM	Traffic Noise Model	VQCF	Vehicle Queuing Control Facility
TOC	total organic carbon	VWP	Visa Waiver Program
TORPEX	Torpedo Exercise	WA	Warning Area
TPFD	Time-Phased Force Deployment	WPC	Watershed Planning Committee
TPY	tons per year	WPCP	Water Pollution Control Program
TRIS	Toxic Release Inventory System List	WPRFMC	Western Pacific Regional Fisheries Management Council
TSCA	Toxic Substance Control Act	WQC	Water Quality Certification
TSS	total suspended solids	WRDA	Water Resource Development Acts
TTIP	Territorial Transportation Improvement Plan	WTE	Waste-to-Energy
TTLC	total threshold limit concentration	WTP	Water Treatment Plant
UAV	Unmanned Aerial Vehicle	WWII	World War II
UD	unknown distance	WWTP	Wastewater Treatment Plant
UF	usage factor	yd	yard
UFC	Unified Facility Code		
UFW	Unaccounted for Water		