Land Use Category ¹	Exterior Noise Exposure (dB CNEL)						
Note: Multiple land use categories and compatibility criteria may apply to a project	50–55	55–60	60–65	65–70	70–75	75-80	
Agricultural and Animal-Related							
nature preserves; wildlife preserves; horse stables; livestock breeding or farming		А	А	А	А		
zoos; animal shelters/kennels; interactive nature exhibits			Α	Α			
agriculture (except residences and livestock); greenhouses; fishing						Α	
Recreational	-		-	-	-		
children-oriented neighborhood parks; playgrounds			Α				
campgrounds; recreational vehicle/motor home parks							
community parks; regional parks; golf courses; tennis courts; athletic fields; outdoor spectator sports; fairgrounds; water recreation facilities				А			
recreation buildings; gymnasiums; club houses; athletic clubs; dance studios				50	50		
Public							
outdoor amphitheatres		Α	Α				
children's schools (K-12); day care centers (>14 children)			45				
libraries			45				
auditoriums; concert halls; indoor arenas; places of worship			45	45			
adult schools; colleges; universities ²			45	45			
prisons; reformatories				50			
public safety facilities (e.g., police, fire stations)				50	50		
cemeteries; cemetery chapels; mortuaries				45 A	45 A		
Residential, Lodging, and Care			-	-	_	-	
residential (including single-family, multi-family, and mobile homes); family day care homes (≤14 children)			45				
extended-stay hotels; retirement homes; assisted living; hospitals; nursing homes; intermediate care facilities			45				
hotels; motels; other transient lodging ³			45	45			
Commercial and Industrial							
office buildings; medical clinics; clinical laboratories; radio, television, recording studios				50	50		
retail sales; eating/drinking establishments; movie theaters; personal services				50	50 B		
wholesale sales; warehouses; mini/other indoor storage					50 C	50 C	
industrial; manufacturing; research & development; auto, marine, other sales & repair services; car washes; gas stations; trucking, transportation terminals					50 C	50 C	
extractive industry; utilities; road, rail rights-of-way; outdoor storage; public works yards; automobile parking; automobile dismantling; solid waste facilities						50 C	

Table MIR-1

Noise Compatibility Criteria

L	and Use	Acceptability	Interpretation/Comments
		Compatible	Indoor Uses: Standard construction methods will sufficiently attenuate exterior noise to an acceptable indoor community noise equivalent level (CNEL) Outdoor Uses: Activities associated with the land use may be carried out with essentially no interference from aircraft noise
	45 50	Conditional	Indoor Uses: Building must be capable of attenuating exterior noise to the indoor CNEL indicated by the number; standard construction methods will normally suffice Outdoor Uses: CNEL is acceptable for outdoor activities, although some noise interference may occur.
	A B C	Conditional	 Indoor or Outdoor Uses: A Caution should be exercised with regard to noise-sensitive outdoor uses; these uses are likely to be disrupted by aircraft noise events; acceptability is dependent upon characteristics of the specific use ⁴ B Outdoor dining or gathering places incompatible above CNEL 70 dB C Sound attenuation must be provided for associated office, retail, and other noise-sensitive indoor spaces sufficient to reduce exterior noise to an interior maximum of CNEL 50 dB
		Incompatible	Indoor Uses: Unacceptable noise interference if windows are open; at exposures above 65 dB CNEL, extensive mitigation techniques required to make the indoor environment acceptable for performance of activities Outdoor Uses: Severe noise interference makes outdoor activities unacceptable

Notes

- ¹ Land uses not specifically listed shall be evaluated using the criteria for similar uses.
- ² Applies only to classrooms, offices, and related indoor uses. Laboratory facilities, gymnasiums, outdoor athletic facilities, and other uses to be evaluated as indicated for those land use categories.
- ³ Hotels and motels are lodging intended for stays by an individual person of no more than 30 days consecutively and no more than 90 days total per year; facilities for longer stays are in extended-stay hotels category.
- Noise-sensitive land uses are ones for which the associated primary activities, whether indoor or outdoor, are susceptible to disruption by loud noise events. The most common types of noise-sensitive land uses include, but are not limited to, the following: residences, hospitals, nursing facilities, intermediate care facilities, educational facilities, libraries, museums, concert halls, places of worship, child-care facilities, and certain types of passive recreational parks and open space.

Table MIR-1, continued

Land Use Types / Typical Uses			Safety	Zone**	Criteria for Conditional	
 Multiple land use categories and compatibility criteria may apply to a project (see Policy 3.4.7) See Policy 3.4.7(c) for limits on ancillary uses ¹ 	CBC Group*	CZ	APZ I	APZ II	TZ	(yellow) Uses • Maximum intensity limits apply to all Condition uses
Maximum Intensity Limits (People/Acre)	,	10	25	50	300	 Abbreviations below refer to zones in which condition specified is applicable Numbers in yellow cells are Floor Area Ratio
Applicable to nonresidential conditional land uses		10	20	50	300	(FAR) limitations (see Policy 3.4.6(c) and Endnote 4)
Residential Uses						
Residential, ≤0.2 d.u./acre (5+ acre lots)	R-3					
Residential, >0.2, ≤2.0 d.u./acre	R-3					APZ II: Buildings to be clustered to provide maximum open land; maximum intensity limit as indicated at top of page See Policies 3.4.5(c)(2) and 3.4.5(e)(2)
Residential, >2.0, ≤8.0 d.u./ acre	R-3					TZ: Buildings to be clustered to provide maximum open land See Policies 3.4.5(d)(2) and 3.4.5(e)(2)
Residential, >8.0, ≤20.0 d.u./acre	R-1					TZ: Buildings to be clustered to provide maximum open land See Policies 3.4.5(d)(2) and 3.4.5(e)(2)
Residential, >20.0 d.u/acre	R-1					
Assembly Facilities (≥50 people)						
Indoor Major Assembly Room (capacity ≥1,000 people): major sports arenas, concert halls [approx. 15 s.f./person]	A-1					
Outdoor Major Assembly Facility (capacity ≥1,000 people): amphitheaters, stadiums, race tracks, fair-grounds, zoos [approx. 15 s.f./person]	A-4					
Indoor Large Assembly Room (capacity 300 to 999 people): sports arenas, theaters, auditoriums, assembly halls [approx. 15 s.f./person]	A-2					TZ: No room with fixed seating capacity ≥650 people; maximum intensity limit as indicated at top of page See Policy 3.4.6(d)(3)
Outdoor Large Assembly Facility (capacity 300 to 999 people)	A-4					TZ: No room with fixed seating capacity ≥300 people; maximum intensity limit as indicated at top of page; See Policy 3.4.6(d)(4)
Indoor Small Assembly Room (capacity 50 to 299 people): meeting rooms, dining halls, dance studios, places of worship [approx. 60 s.f./person]	A-3			0.07	0.42	APZ II, TZ: FAR limit as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(d)(5)
Outdoor Small Assembly Facility (capacity 50 to 299 people): community swimming pools, group camps	A-4					APZ II: Maximum intensity limit as indicated at top of page TZ: No fixed seating with capacity ≥300 people; maximum intensity limit as indicated at top of page See Policy 3.4.6(d)(6)
Office, Commercial, Service, and Lodging Uses						
Large Eating/Drinking Establishments in free-	A2,					
standing building (capacity >300 people) [approx. 60 s.f./person]	A2, A-2.1					

Table MIR-2

Safety Compatibility Criteria

Land Use Types / Typical Uses			Safety	Zone**	Criteria for Conditional	
 Multiple land use categories and compatibility criteria may apply to a project (see Policy 3.4.7) See Policy 3.4.7(c) for limits on ancillary uses ¹ 	CBC Group*	CZ	APZ I	APZ II	TZ	(yellow) Uses • Maximum intensity limits apply to all Conditiona uses
Maximum Intensity Limits (People/Acre) • Applicable to nonresidential conditional land uses		10	25	50	300	 Abbreviations below refer to zones in which condition specified is applicable Numbers in yellow cells are Floor Area Ratio (FAR) limitations (see Policy 3.4.6(c) and Endnote 4)
Mid-Size Eating/Drinking Establishments in free- standing bldg (capacity 50 to 299 people) [approx. 60 s.f./person]	A-3					
Small Eating/Drinking Establishments in free-standing building (capacity <50 people)	В					
Retail Shopping Centers [approx. 110 s.f./person]	M			0.13		APZ II: No eating/drinking establishments; FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(e)(2)
Retail Stores, no Restaurants [approx. 170 s.f./person]	M			0.20		APZ II: FAR limit as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(e)(2)
Low-Intensity or Outdoor-Oriented Retail or Whole- sale Trade: furniture, automobiles, heavy eqpt, nur- series, lumber yards, boat yards [approx. 250 s.f./person]	B, M		0.14	0.29		APZ I, APZ II: FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(e)(3)
Low-Hazard Storage: mini-storage, greenhouses [approx. 1,000 s.f./person]	S-2		0.57	1.15		APZ I, APZ II: FAR limits as indicated; maximum intensity limit as indicated at top of page APZ I: 40% lot coverage See Policy 3.4.6(e)(3)
Office Buildings: professional services, doctors, financial, civic [approx. 215 s.f./ person]	В			0.25		APZ II: FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(e)(4)
Misc. Service Uses: car washes, barbers, animal kennels, print shops [approx. 200 s.f./person]	В			0.23		APZ II: FAR limit as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(e)(4)
Hotels, Motels (except conference/ assembly facilities) [approx. 200 s.f./person] ²	R-1					
Residential Hotels ²	R-1				1.38	TZ: FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(e)(5)
Bed & Breakfast Establishments	R-3					
Industrial, Manufacturing, and Warehouse Uses						
Processing, Manufacturing, or Storage of Bulk Quantities of Hazardous Materials (tank capacity >10,000 gallons): oil refineries, chemical plants	_					

Safety Compatibility Criteria

Land Use Types / Typical Uses	Safety Zone**					Criteria for Conditional	
 Multiple land use categories and compatibility criteria may apply to a project (see Policy 3.4.7) See Policy 3.4.7(c) for limits on ancillary uses ¹ 	CBC Group*	CZ	APZ I	APZ II	TZ	(yellow) Uses • Maximum intensity limits apply to all Conditional uses	
Maximum Intensity Limits (People/Acre) • Applicable to nonresidential conditional land uses		10	25	50	300	 Abbreviations below refer to zones in which condition specified is applicable Numbers in yellow cells are Floor Area Ratio (FAR) limitations (see Policy 3.4.6(c) and Endnote 4) 	
Manufacturing, High Intensity or Risk (flammable, explosive, corrosive, or toxic): apparel, fabric, leather products; rubber, plastic products; professional scientific & control instruments; photographic, optical goods; watches, clocks; chemical products [approx. 215 s.f./person]	H-1, 3, 6, 7				1.50	TZ: Permitting agencies must comply with all federal, state, and local standards and shall evaluate need for special measures to minimize hazards to nearby people and property if facility struck by aircraft; not allowed if accident could escalate to significant loss of air crew or civilian life; FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(f)(2)	
Manufacturing, Medium Intensity or Risk (flammable, explosive, corrosive, or toxic): food products; textile mill products; stone, clay, glass products; metal products [approx. 300 s.f./person]	F-1, 2 H-2			0.34		APZ II: FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(f)(3)	
Manufacturing, Low Intensity or Risk (flammable, explosive, corrosive, or toxic): lumber, wood products; furniture, fixtures; paper products; printing, publishing [approx. 490 s.f./person]	F-1, 2		0.28	0.56		APZ I, APZ II: FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(f)(4)	
Research and Development [approx. 300 s.f./person]	F-1, 2 H-2			0.34		APZ II: FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(f)(5)	
Auto, Aircraft, Marine Repair Services [approx. 300 s.f./person]	H-4		0.17	0.34		APZ I, APZ II: FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(f)(6)	
Industrial Outdoor Storage; public works yards, auto wrecking yards	I					APZ I, APZ II: No processing or storage of hazardous materials; maximum intensity limit as indicated at top of page See Policy 3.4.6(f)(6)	
Warehouses, Distribution Facilities [approx. 1,000 s.f./person]	S-1, 2		0.57	1.15		APZ I, APZ II: No processing or storage of hazardous materials; FAR limits as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(f)(6) APZ I: 40% lot coverage	
Gas Stations, Repair Garages [approx. 300 s.f./person]	S-3		0.17	0.34		APZ I, APZ II: FAR limits as indicated; maximum intensity limit as indicated at top of page; fuel storage must be underground See Policy 3.4.6(f)(6)	
Educational and Institutional Uses							
Colleges and Universities	В					TZ: Maximum intensity limit as indicated at top of page See Policy 3.4.7(b)	

Safety Compatibility Criteria

Land Use Types / Typical Uses			Safety	Zone**		Criteria for Conditional		
 Multiple land use categories and compatibility criteria may apply to a project (see Policy 3.4.7) See Policy 3.4.7(c) for limits on ancillary uses ¹ 	CBC Group*	CZ	APZ I	APZ II	TZ	(yellow) Uses • Maximum intensity limits apply to all Conditiona uses		
Maximum Intensity Limits (People/Acre) • Applicable to nonresidential conditional land uses		10	25	50	300	 Abbreviations below refer to zones in which condition specified is applicable Numbers in yellow cells are Floor Area Ratio (FAR) limitations (see Policy 3.4.6(c) and Endnote 4) 		
Children Schools, K – 12	E-1, E-2					TZ: No new sites or land acquisition; building replacement/expansion/retrofit allowed for existing schools; expansion limited to ≤50 students See Policy 3.4.6(g)(1)		
Day Care Centers (>14 children)	I-1.1, E-3					TZ: No new sites or land acquisition; building replacement/expansion/retrofit allowed for existing centers; expansion limited to ≤50 students See Policy 3.4.6(g)(1)		
Family Day Care Homes (≤14 children)	I-1.1, E-3					TZ: Allowed in conjunction with compatible residential land uses; maximum intensity limit as indicated at top of page See Policy 3.4.6(g)(2)		
Hospitals, Mental Hospitals, Other Medical Facilities with overnight patients [approx. 240 s.f./ person]	I-1.1, I-1.2				1.65	TZ: No new sites or land acquisition; FAR limit as indicated for expansion of existing facilities; maximum intensity limit as indicated at top of page See Policy 3.4.6(g)(3)		
Health Care Centers, Other Medical Facilities (except doctors offices) without overnight patients [approx. 240 s.f./ person]	I-1.1, I-1.2				1.65	TZ: FAR limit as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(g)(4)		
Congregate Care Facilities (>5 clients): nursing homes, assisted living facilities [approx. 100 s.f./ person]	I-1.1, I-2				0.69	TZ: FAR limit as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(g)(4)		
Public Emergency Services Facilities: police stations (except jails), fire stations	В							
Public Inmate Facilities: prisons, reformatories	I-3					TZ: No new sites or land acquisition; building replacement/expansion allowed for existing facilities; must also meet applicable assembly facility criteria; maximum intensity limit as indicated at top of page See Policy 3.4.6(g)(6)		
Transportation, Communications, and Utilities								
Airport Terminals	A-2.1							
Transportation Terminals: rail, bus, marine	A-2.1							
Truck Terminals	A-3					APZ I, APZ II: Fuel storage must be underground; maximum intensity limit as indicated at top of page		
Small Transportation Hubs: bus stops								
Aircraft Storage	S-5							
Automobile Parking Structures	U-1							
Automobile Parking Surface Lots	_							
Street, Highway Rights-of-Way	_							

Safety Compatibility Criteria

Land Use Types / Typical Uses			Safety	Zone**		Criteria for Conditional
 Multiple land use categories and compatibility criteria may apply to a project (see Policy 3.4.7) See Policy 3.4.7(c) for limits on ancillary uses ¹ 	CBC Group*	CZ	APZ I	APZ II	TZ	(yellow) Uses • Maximum intensity limits apply to all Conditional uses
Maximum Intensity Limits (People/Acre) • Applicable to nonresidential conditional land uses	·	10	25	50	300	 Abbreviations below refer to zones in which condition specified is applicable Numbers in yellow cells are Floor Area Ratio (FAR) limitations (see Policy 3.4.6(c) and Endnote 4)
Railroads, Public Transit Lines	_					
Primary Power Plants	ı					APZ I, APZ II, TZ: No new sites or land acquisition/expansion of facilities on existing sites allowed if, after consultation with airport operator, ALUC determines that facility includes petrochemical storage or any uses that generate smoke, heat, or visibility hazards that could interfere with the safety of flight ³ APZ I: Major power lines must be underground ³ See Policy 3.4.6(h)(3)
Peaker Power Plants	ı					APZ I, APZ II: No new sites or land acquisition/expansion of facilities on existing sites allowed if, after consultation with airport operator, ALUC determines that facility includes petrochemical storage or any uses that generate smoke, heat, or visibility hazards that could interfere with the safety of flight ³ APZ I: Major power lines must be underground ³ See Policy 3.4.6(h)(3)
Electrical Substations	I					APZ I: No new sites or land acquisition; replacement/expansion of facilities on existing sites allowed. Major power lines must be underground ³ APZ II: New substations must not cause electronic interference with aircraft. See Policy 3.4.6(h)(4)
Public Emergency Communications Facilities						APZ I, APZ II: No new sites or land acquisition; modification, replacement, expansion of facilities on existing sites allowed See Policy 3.4.6(h)(5)
Cell Phone Towers, Wind Turbines	U-2					APZ I, APZ II: No use of frequencies that can interfere with military communications or navigation frequencies; no airspace protection surface penetrations ³ See Policy 3.4.6(h)(6)
Agricultural and Other Uses						
Agricultural Lands: pasture, rangelands, field crops, grain crops, dry farming, vineyards	_					CZ: Subject to DOD standards (as specified in OPNAV Instruction 11010.36b and NAVFAC P-80.3) See Policy 3.4.6(i)(1)
Agricultural Buildings: barns, feed lots, stockyards, riding stables [approx. 1,000 s.f./person]	U-1		0.57			APZ I: FAR limit as indicated; maximum intensity limit as indicated at top of page See Policy 3.4.6(i)(2)
Wooded Areas: forests, tree farms, orchards	_					

Safety Compatibility Criteria

Land Use Types / Typical Uses • Multiple land use categories and compatibility criteria			Safety	Zone**		Criteria for Conditional (yellow) Uses		
 Multiple land use categories and compatibility criteria may apply to a project (see Policy 3.4.7) See Policy 3.4.7(c) for limits on ancillary uses ¹ 	CBC Group*	CZ	APZ I	APZ II	TZ	Maximum intensity limits apply to all Conditional uses		
(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)						Abbreviations below refer to zones in which condition specified is applicable.		
Maximum Intensity Limits (People/Acre) • Applicable to nonresidential conditional land uses		10	25	50	300	 condition specified is applicable Numbers in yellow cells are Floor Area Ratio (FAR) limitations (see Policy 3.4.6(c) and Endnote 4) 		
Lands with Low or No Vegetation: brush lands, deserts, beaches, flood hazard areas	_					CZ: Subject to DOD standards (as specified in OPNAV Instruction 11010.36b and NAVFAC P-80.3) See Policy 3.4.6(i)(1)		
Mining & Extraction	_					APZ I, APZ II: No use of explosives; maximum intensity limit as indicated at top of page See Policy 3.4.6(i)(3)		
Water: rivers, creeks, canals, wetlands, bays, lakes, reservoirs	_					CZ, APZ I, APZ II: Only if naturally occurring See Policy 3.4.6(i)(4)		
Marinas	_					APZ I, APZ II: No group activities; maximum intensity limit as indicated at top of page See Policy 3.4.6(i)(5)		
Large Group Recreation: team athletic fields, picnic areas	_					APZ II: Maximum intensity limit as indicated at top of page See Policy 3.4.6(i)(6)		
Non-Group Recreation: golf courses, tennis courts, parks, camp grounds	_					APZ I, APZ II: Maximum intensity limits as indicated at top of page See Policy 3.4.6(i)(3)		
Shooting Ranges	_					APZ II: Maximum intensity limit as indicated at top of page See Policy 3.4.6(i)(6)		
Memorial Parks, Cemeteries	_					APZ I, APZ II: No places of assembly; maximum intensity limit as indicated at top of page See Policy 3.4.6(i)(7)		
Wastewater Treatment and Disposal Facilities	_					APZ I, APZ II: No processing or utilization of hazardous materials; fuel storage must be underground; facilities must be designed and operated to avoid attracting birds ³ See Policy 3.4.6(i)(8)		
Solid Waste Transfer Facilities, Recycle Centers						APZ I, APZ II: Facilities must be designed and operated to avoid attracting birds ³ See Policy 3.4.6(i)(8)		
Solid Waste Disposal Facilities: landfills, incineration	-							
Legend								
Incompatible: Use should not be permit	ted under a	any circums	stances					
Conditional: Use is acceptable if indicate				Coverage, a	and other I	isted conditions are met		
· · · · · · · · · · · · · · · · · · ·						and/or overflight limitations may apply)		
						<u> </u>		
	** Safety Zone: CZ (Clear Zone) APZ I (Accident Potential Zone I) APZ II (Accident Potential Zone II)							

Safety Compatibility Criteria

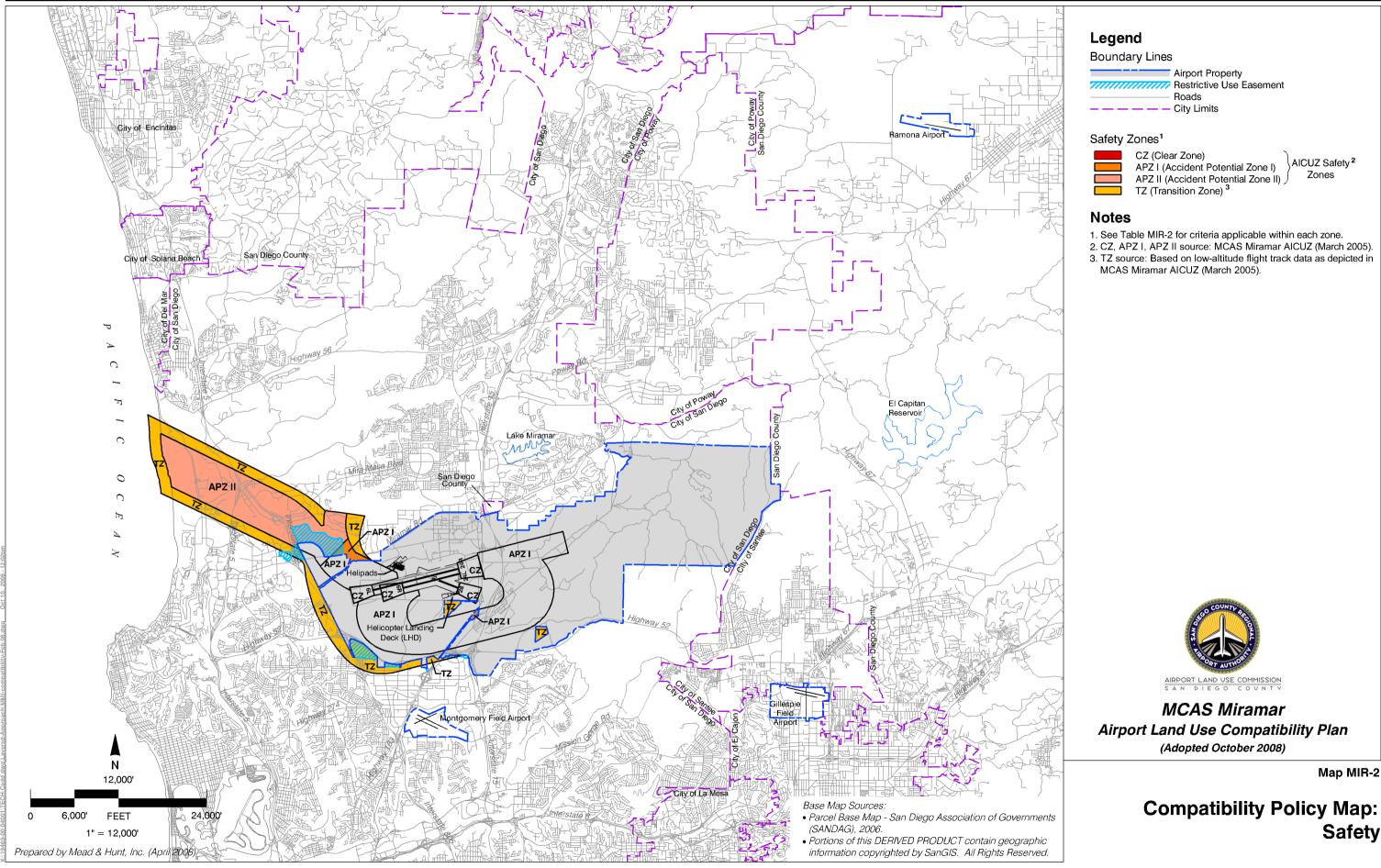
Land Use Types / Typical Uses			Safety	Zone**		Criteria for Conditional
 Multiple land use categories and compatibility criteria may apply to a project (see Policy 3.4.7) See Policy 3.4.7(c) for limits on ancillary uses ¹ 	CBC Group*	CZ	APZ I	APZ II	TZ	(yellow) Uses • Maximum intensity limits apply to all Conditional uses
Maximum Intensity Limits (People/Acre) • Applicable to nonresidential conditional land uses		10	25	50	300	 Abbreviations below refer to zones in which condition specified is applicable Numbers in yellow cells are Floor Area Ratio (FAR) limitations (see Policy 3.4.6(c) and Endnote 4)

Notes

- Ancillary Uses: Land use types for which a FAR limit is listed in Table MIR-2 as a condition for acceptability in a particular safety zone may have up to 10% of the floor space devoted to an ancillary use of another type, even a use with a higher occupancy load factor, provided that the ancillary use is neither:
 - (a) An assembly room having more than 750 square feet of floor area (this criterion is intended to parallel CBC standards); nor
 - (b) A school, day care center, or other risk-sensitive use that is "incompatible" within the safety zone where the primary use is to be located.
- 2 Hotels and motels are lodging types intended for stays by an individual person of no more than 25 days consecutively and no more than 90 days total per year; facilities for longer stays are in residential hotels category.
- For clarity as well as consistency with AICUZ criteria, the evaluation of land uses herein includes factors that the military considers germane to safe operation of their facilities including, but not limited to, airspace obstructions, bird attractants, and other hazards to flight (land uses that generate smoke, heat, or visibility hazards that can cause an accident) and factors that put more people at risk should an accident occur.
- ⁴ FAR limitations may be exceeded provided that the project meets the applicable maximum intensity limits (people / acre) and that, as a condition of project approval: (i) the project provides a deed restriction regarding the maximum intensity limits for the project; and (ii) the project meets the applicable parking requirements consistent with the maximum intensity limits for the project.

Table MIR-2, continued

Safety Compatibility Criteria



Airport Property Restrictive Use Easement

City Limits

CZ (Clear Zone)
APZ I (Accident Potential Zone I)
APZ II (Accident Potential Zone II)
TZ (Transition Zone) 3 AICUZ Safety²



MCAS Miramar Airport Land Use Compatibility Plan (Adopted October 2008)

Map MIR-2

Compatibility Policy Map: Safety