MILITARY OCEAN TERMINAL SUNNY POINT JOINT LAND USE STUDY



POLICY COMMITTEE MEETING NOVEMBER 19, 2018

MEETING AGENDA

- JLUS Overview
- Stakeholder Interview Summary
- Background Research Overview
- Public Meeting Summary
- Compatibility Analysis
- Conflict Resolution Strategies
- General Discussion
- Upcoming Meetings
- Adjourn

WHAT IS A JOINT LAND USE STUDY?

A study funded by the DoD's Office of Economic Adjustment to help communities and military installations work together in achieving compatible growth and long-term sustainment of the military training mission.

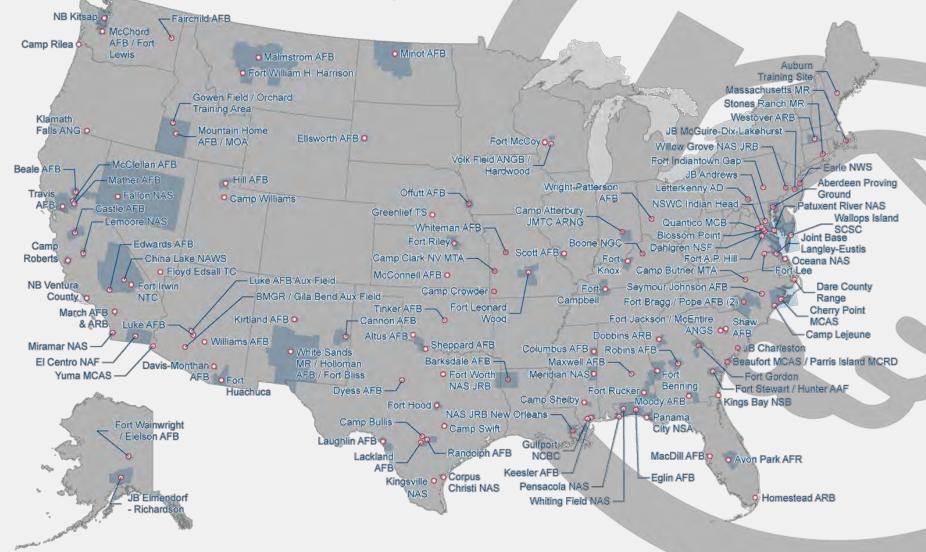


JLUS PURPOSE / GOALS

- Identify and mitigate barriers to the long term sustainability of the installation's mission.
- Promote compatibility between civilian land use and military operational requirements.
- Strengthen coordination and communication between local governments and the installation.
- Raise public awareness and understanding of compatible growth issues.

Completed Joint Land Use Studies 143 Completed as of December 2017

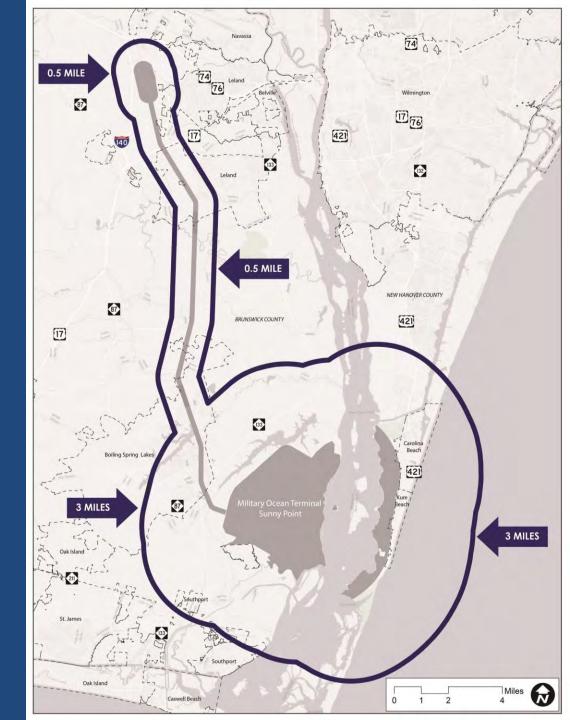
(1985 - 2017)



SUNNY POINT JLUS PARTNERS

- Military Ocean Terminal Sunny Point
- Cape Fear Council of Governments
- Brunswick County
- New Hanover County
- City of Boiling Spring Lakes
- Town of Carolina Beach
- City of Southport
- Town of Kure Beach
- Town of Leland

JLUS STUDY AREA



PROJECT SCHEDULE

Date	Meeting				
2018					
February 23	Project Team Meeting				
April 11	Project Kickoff, Installation Tour & Committee Meetings				
May 21-24	Stakeholder Interviews				
June 26	Advisory Committee Meeting – Review Background Research				
July 30	Public Meeting – Overview & Research - 1 Day (2 locations)				
August 28	Advisory Committee Meeting – Review Compatibility Analysis				
October 16	Advisory Committee Meeting - Review Conflict Resolution Strategies				
November 19	Policy Committee Meeting				
December 4	Public Meetings – Interim Findings - 1 Day (2 locations)				
December 4	Advisory Committee Meeting – Draft Recommendations				
2019					
January	Policy Committee Meeting				
February	Advisory Committee Meeting – Present Draft Study Documents				
March	Advisory & Policy Committee Meetings – Finalize Study Documents				
April/May	Public Meetings – Final Presentation - 1 Day (2 locations)				

STAKEHOLDER INTERVIEWS

- -MOTSU (x3)
- Brunswick County
- New Hanover County
- Carolina Beach
- Southport
- Kure Beach
- Leland
- Boiling Spring Lakes
- H2GO
- NCDNCR

- Cape Fear Regional Jetport
- Wilmington MPO
- NCDOT Division 3
- Orton Plantation
- NC State Port
- NCDEQ
- Corps of Engineers
- SDDC
- Atlantic Commercial Properties

INTERVIEW THEMES

- Local governments and state agencies are eager to be good partners with MOTSU.
- Desire to establish more formal relationships, particularly between elected officials / executive staff and key military / civilian leadership on the post.
- Numerous examples of partnerships already exist; primarily focused on public safety and infrastructure. These tend to be staff-driven.

INTERVIEW THEMES

- MOTSU has a reciprocal desire to be a good neighbor and partner with host communities.
- Need for ongoing / regular engagement opportunities with elected officials to build relationships and understand MOTSU's mission.
- Peer to peer staff relationships are generally good, and longstanding, but subject to personnel changes.

INTERVIEW THEMES

- Perception of a lack of a single point of contact on MOTSU to distribute communications to appropriate department.
- Inconsistent application of statutory requirement for land use notice + lack of acknowledgment of receipt – few comments.
- Confusion on process / authority for granting licenses + clear rules for use of MOTSU land – stemming from recent enforcement actions.

JULY 30 PUBLIC MEETINGS

- Meetings held in Southport and Carolina Beach
- CFCOG advertised in accordance with the Public Participation Plan
- Strong attendance at both meetings.
- Meetings focused on introducing MOTSU and the JLUS to the community

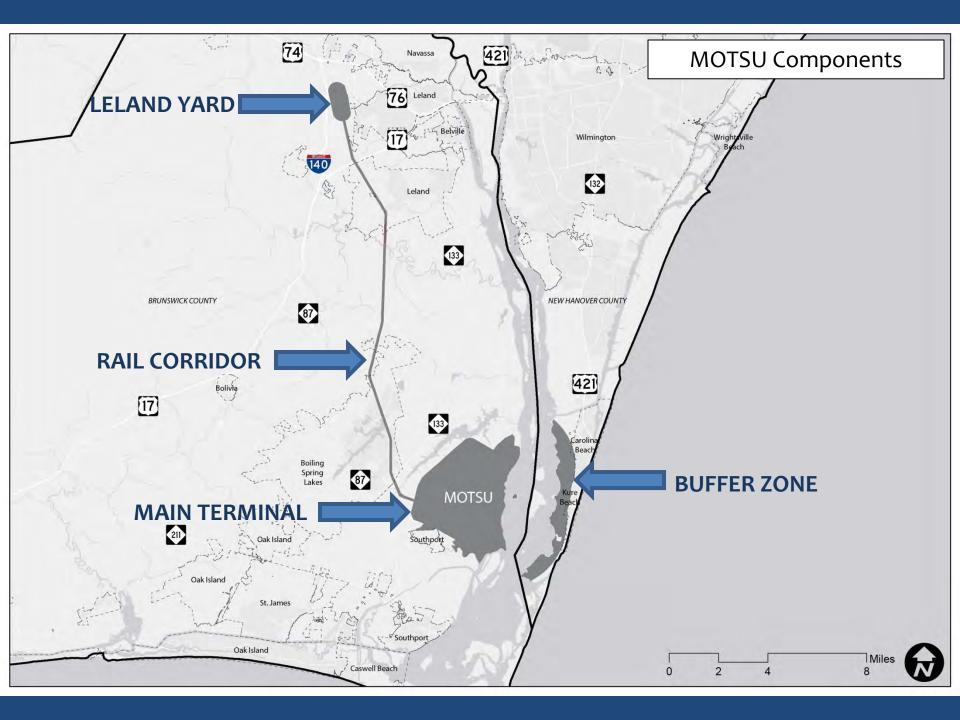




MOTSU MISSION FOOTPRINT

INSTALLATION CHARACTERISTICS

- Purpose-built ammunition transshipment terminal – **DESIGNED FOR SAFETY**
- Ammunition is staged <u>temporarily</u> at the terminal, while waiting to be shipped.
- Composed of three geographically separate areas:
 - Main Terminal: 8,600 acres
 - Pleasure Island Buffer Zone: 2,200 acres
 - Leland Interchange Yard: 650 acres
- Main Terminal linked to Leland Interchange by a 16 mile rail line (on easements vs. government property).



MISSION COMPATIBILITY

- Primary points of potential compatibility concern:
 - Maintaining use of the full extent of ESQD for the temporary staging, as well as loading and unloading vessels, during munitions transshipment operations.
 - Maintaining safe and efficient transportation access:
 - Highway
 - Rail
 - Marine

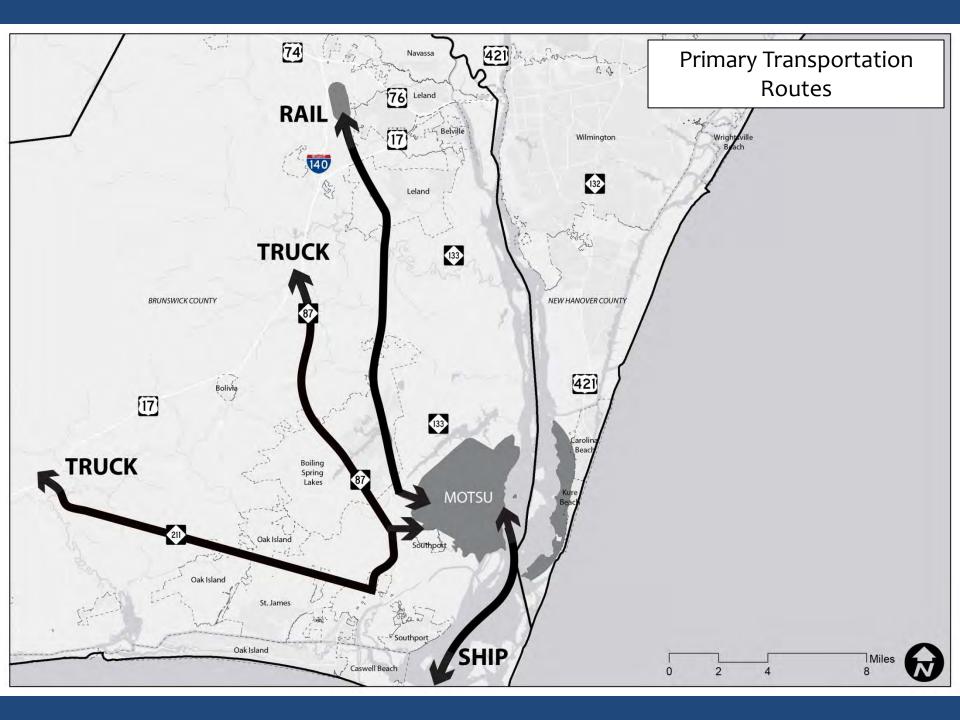
 Maintaining minimal levels of environmental constraint.

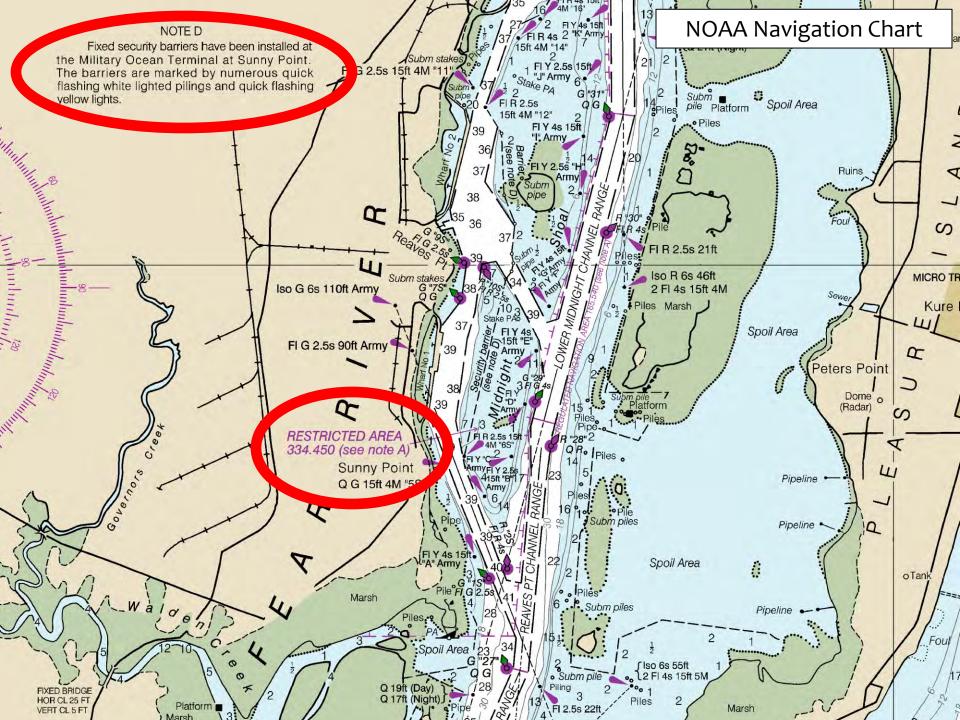
TRANSPORTATION

- Inbound shipments to the Terminal are typically:
 - 80% rail
 - 20% truck
- Inbound trains entering the Leland Yard are typically switched to Army locomotives and brought to the Terminal immediately.
- In the case of a rail outage, all shipments will come in by truck. Local highway infrastructure will have to support the traffic volume.

TRANSPORTATION

- The rail line currently has 10 road crossing points (9 at grade), primarily NCDOT highway and secondary routes – access is limited in places.
- The Cape Fear River, west of the main ship channel is a restricted area (334.450)
- There is no restriction on aircraft overflight –
 Cape Fear Jetport is 4th busiest airport in NC.





EXPLOSIVES SAFETY ZONES

- ESQD = Explosive Safety Quantity Distance
- K Factor = Assumed degree of risk used in calculating ESQD.
- Example ESQD Arcs:
 - Public Traffic Route (PTRD) (K24/30)
 - Inhabited Building (IBD) (K40/50)
 - K88 (Roughly 2x IBD)
 - Absolute Safe Distance = K328
- ESQD Formula: D=KW^{1/3}
 - -D = Distance (ft)
 - W = Net Explosive Weight (lbs)

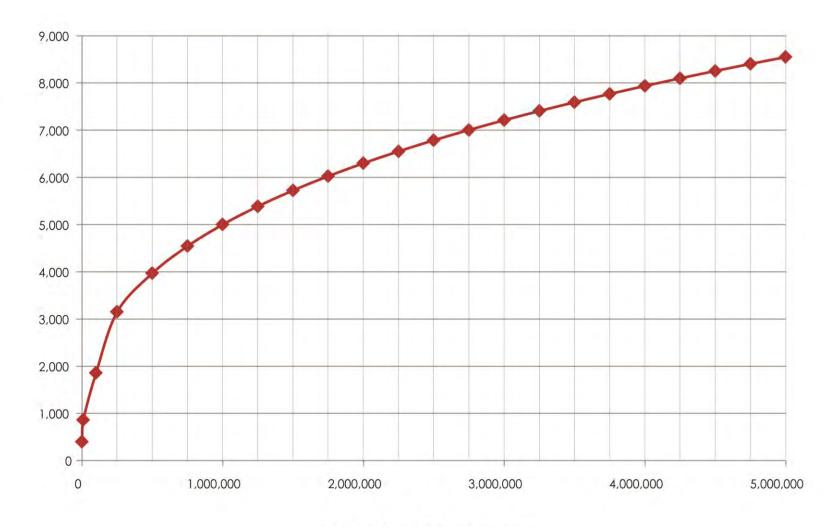
EXPLOSIVES SAFETY ZONES

- Example ESQD Calculations for IBD Arc:
 - Net Explosive Weight: 1,000,000 lbs.– Inhabited Building Distance K Factor: 50
 - Distance = $50*1,000,000^{1/3}$
 - Inhabited Building Distance Arc = 5,000 ft.

Net Explosive Weight: **5,000,000 lbs.** – Inhabited Building Distance K Factor: 50

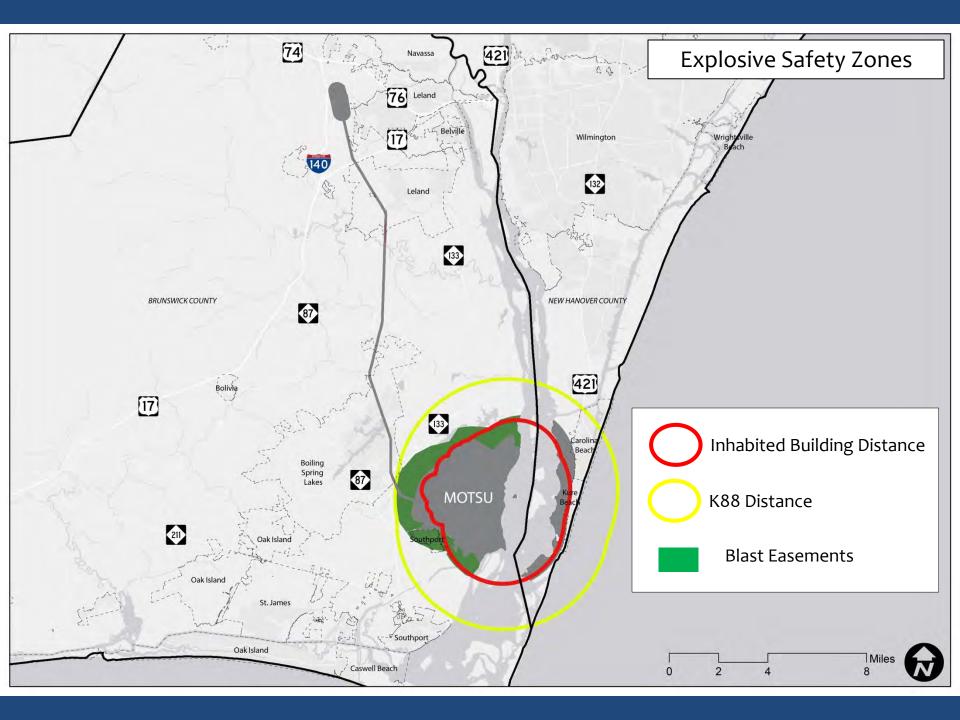
- Distance = $50*5,000,000^{1/3}$
- Inhabited Building Distance Arc = 8,550 ft.

IBD WEIGHT/DISTANCE CHART



Weight of HD 1.1 Explosive (lbs)

Required Separation Distance (Feet)



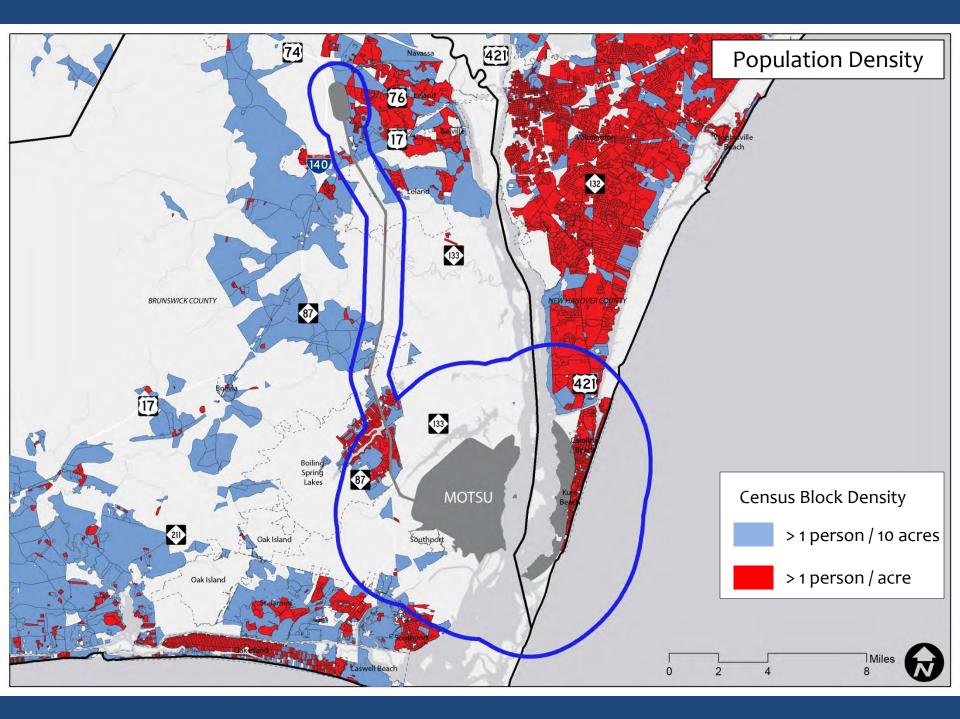
EXPLOSIVES SAFETY ZONES

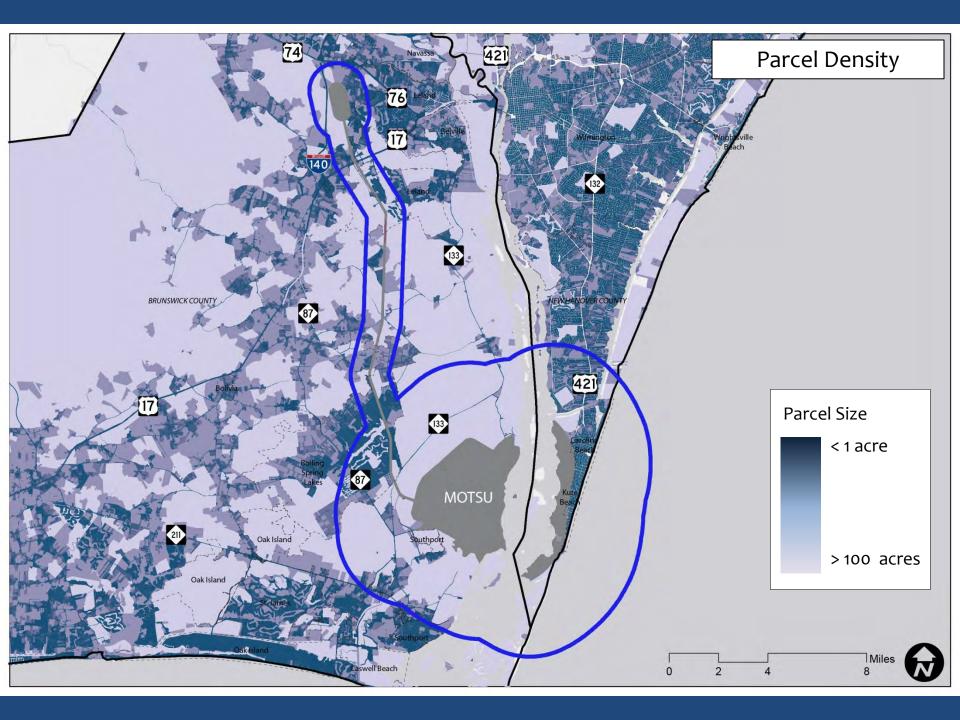
- ESQD Zones are not applicable to munitions during their transportation:
 - Truck traffic on local highways
 - Rail traffic, including in the Leland Yard and on the Army railroad
 - Ship traffic in the Cape Fear River
- Once on the Terminal, ammunition is temporarily staged per the license and applicable ESQD arcs for each holding area.
- ESQD zones expand and contract as munitions are temporarily staged and then shipped out.

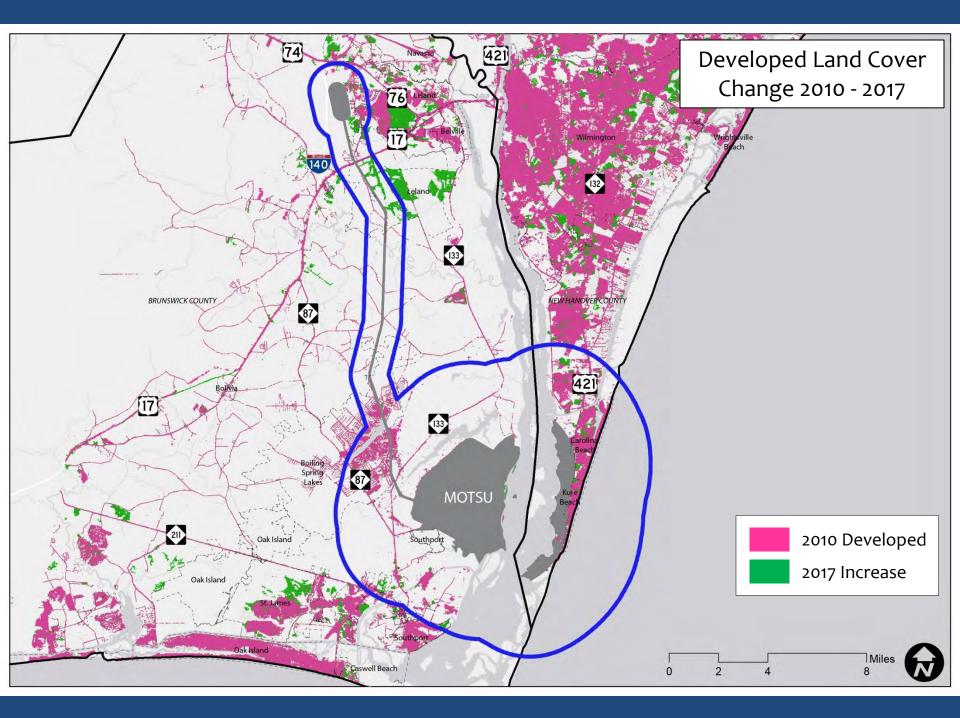
LAND USE AND GROWTH TRENDS

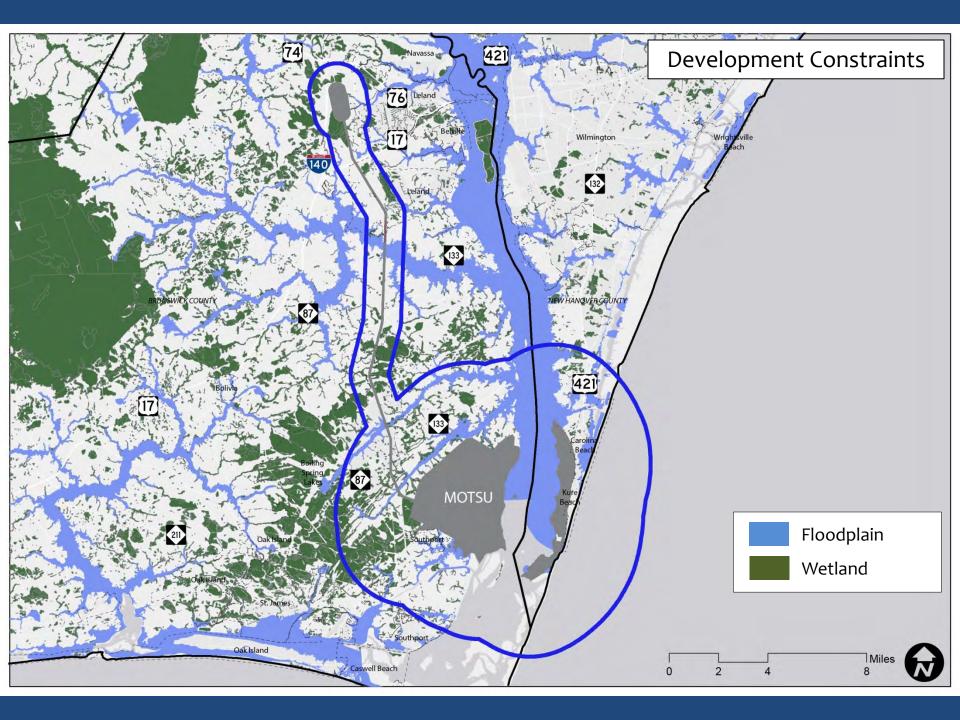
POPULATION GROWTH

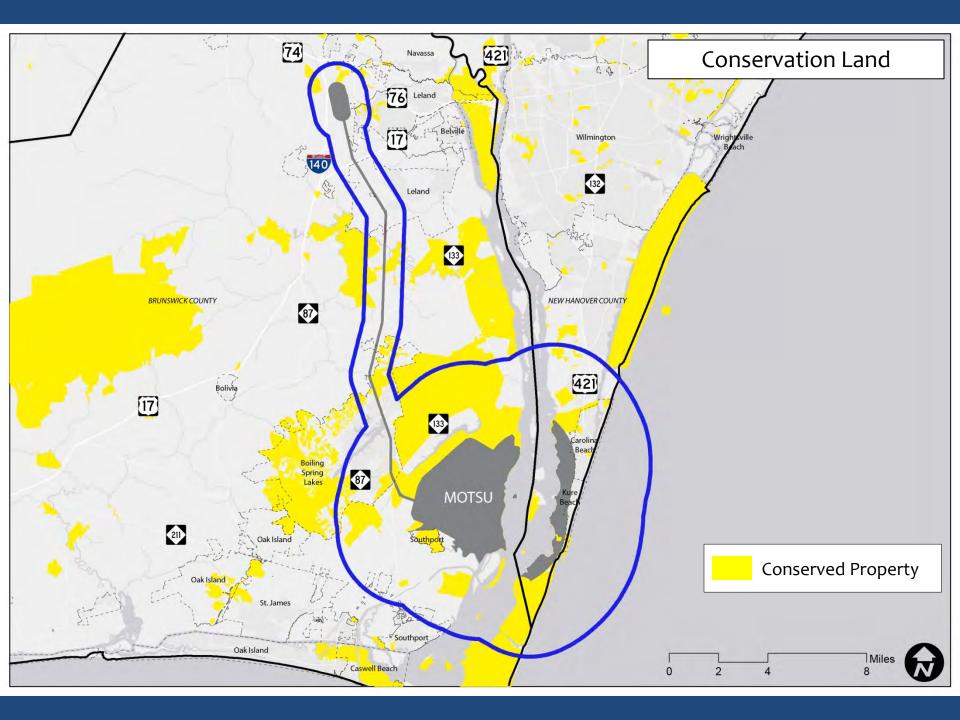
Jurisdiction	% Change 1990-2000	% Change 2000-10	% Change 2010-17	% Change 1990-2017
Brunswick County	43.5%	46.9%	21.8%	156.7%
Boiling Spring Lakes	80.1%	80.8%	12.2%	265.3%
Leland	7.6%	598.0%	47.7%	1,009.2%
Southport	(0.8%)	20.5%	31.5%	57.2%
New Hanover County	33.3%	26.4%	12.1%	88.9%
Carolina Beach	29.5%	21.4%	9.9%	72.7%
Kure Beach	143.5%	33.5%	4.6%	240.1%











ENVIRONMENTAL CONSIDERATIONS

ENVIRONMENTAL CONSIDERATIONS

Overall opinion that MOTSU is a good neighbor and land steward:

- Water resources
- Protected species
- Controlled burns/ land management
- Wildlife management
- NEPA documentation for proposed actions
- Environmental compliance

ENVIRONMENTAL CONSIDERATIONS

Relationship with Corps of Engineers

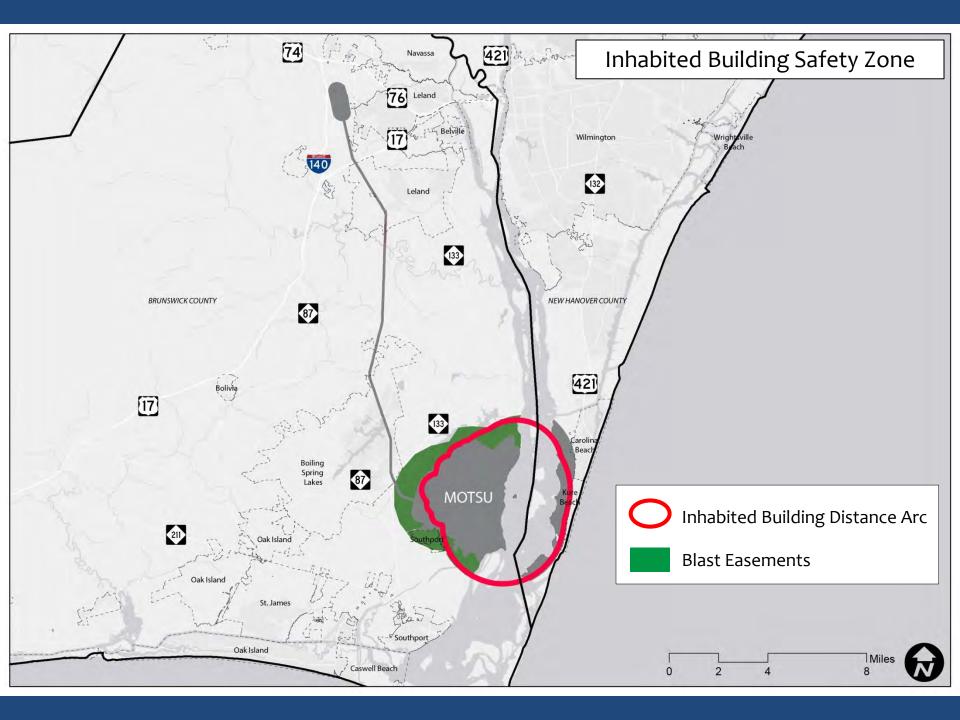
- Positive and close relationship with MOTSU
- Provides environmental, planning, AE design, real estate and construction support
- Provides and maintains navigable depths at berths
- Compliant with federal permits and regulations

ENVIRONMENTAL CONSIDERATIONS

Relationship with NCDEQ - Division of Coastal Management (CAMA)

- In full compliance with existing permits and regulations
- Work actively with MOTSU on permits and CZM consistency reviews
- Primary nursery areas and coastal reserve within buffer zone
- Land management and stormwater management activities in compliance

COMPATIBILITY ANALYSIS



IBD COMPATIBILITY

- DoD Manual 6055.09 / DA Pamphlet 385-64 establish siting criteria for certain uses within the Inhabited Building Distance (as well as other safety zones).
- Primarily focused on uses typically found on a military installation / ammunition facility.
- Best guidance available, and can be translated to apply to civilian uses.

DA PAM 385-64 USE TABLES

Type of structure/activity	Safe separation distance re- quired	Notes	
Loading docks serving operating buildings	ILD	Separate loading docks will be sited on the basis of use.	
POV Parking Lots for adminis- trative areas	PTRD	Minimum fragment distances apply.	
POV Parking Lots serving multi- ple PESs	ILD	Access for emergency vehicles must be provided.	
POV Parking Lots serving a sin- gle potential explosion site	ILD	 May be separated at less than ILD only from its associated facilit but no less than 100 feet is required to the associated facility to pro- tect it from vehicle fires. Access for emergency vehicles must be provided. 	
Rail holding yards	Aboveground magazine	Rail holding yards will be laid out on a unit car-group basis with eac car-group separated by the applicable aboveground magazine dis- tance. Separate from other facilities by applicable QD criteria.	
Rail holding yards -Christmas tree	Aboveground magazine	 Separated by the applicable aboveground magazine distance for the net quantify of HE in the cars on the spurs. Will be separated from other facilities by the applicable QD criteria 3. Arrangement consisting of a ladder track with diagonal dead-end spurs projecting from each side at alternate intervals. 	
Rail yards two parallel ladder tracks connected by diagonal spurs	Aboveground magazine	 Separated by applicable aboveground magazine distance for the unit-group quantities of HE. Will be separated from other facilities by the applicable QD criteria 	
Railcar holding yards	QD separations are not re- quired	May be used to interchange truck trailers or railcars between t commercial carrier and the Army activity and to conduct visual spections.	
Railcar inspection stations	QD separations are not ra- quired	1. They should be as remote as practical from hazardous or populated areas. 2. Activities that may be performed at the inspection station after rai cars containing ammunition and explosives are received from the delivering carrier and before further routing within the garrison or in stallation are as follows: External visual inspection of the railcars. 3. Visual inspection of the external condition of the craition activity of the external visual inspection of the railcars. 3. Visual inspection of the external condition of the craition are inspection indicated above. 4. Interchange of railcars or MILVANS between the common carrie and the Army activity.	
Railcar Interchange yards	Applicable QD tables apply un- less meets remarks.	 Railcar interchange yards are not subject to QD regulations when they are used exclusively— as For the interchange of railcars containing ammunition and explo- sives between the commercial carrier and Army activities. Is To conduct external inspection of the railcars, or MILVANs contain ing ammunition and explosives. To conduct visual inspection of the external condition of the carg. 	
Recreational facilities - open air - no structures	Sited at not less than PTRD and preferably as near IBD as practical.		
Recreational facilities - struc- tures, including bleachers	Sited at not less than IBD.	Open areas between explosive storage and handling sites and be tween these sites and non-explosive buildings and structures shall controlled carefully regarding use for recreation or training facilitie. As a general rule, the fragment hazard will be severe from the exp sion site out to approximately the PTRD. For an exception, see tat 8-16 and paragraph 8-15b.	

Type of structure/activity	Safe separation distance re-	Notes	
Roll-on or roll-off operations (not involving lifting)	quíred QD criteria apply to all roll-on or roll-off operations.	Sile plans will be submitted in accordance with DA Pam 385–65. When QD requirements cannot be met the following mitigation factors should be considered. 1. Total NEVDD present shall not exceed 50,000 lbs. 2. Conducted on garrisons or installations under U.S. control, when possible, to limit exposures to the public. 3. All ammunition and explosives present (such as, in trailers, rail- cars, barges, ships) must be associated only with the RORO opera- tion being conducted. 4. Roll-on or roll-off operations shall not exceed 24 hours following ar- rival of ammunition and explosives, including ammunition and explo- sives staged at a transshipment point.	
		5. Roll-on or roll-off operations shall be located as remote as practica- ble from populated areas, in order to minimize exposure of unrelated personnel. 6. Off-installation military vans/international Standardization Organi- zation (MILVAN/SO) container inter- or intra-modal transfers (involv- ing highway and rail modes only) where containers are not stored or other operations performed.	
Secure explosives holding area.	Aboveground magazine	1. Will be laid out on a unit truck-group basis with each group so rated by the applicable aboveground magazine distances. 2. Will be separated from other facilities by the applicable QD crit 3. An area designated for the temporary parking of commercial co- rer' motor vehicles transporting DOD-owned Arms, Ammunition, Explosives (AAE), classified (SECRET or CONFIDENTIAL) mater and controlled cryptographic item (CCI). There are two types of or uter holding areas. (Note: Although the intent of such areas is to vide a secure storage location for commercial carters while in-tra- or during emergencies or other circumstances that are beyond a ner's control, this Standard imposes no requirement for gartisom- installations to have such areas. The term Secure Holding Area is plicable to areas (CONUS, Haivail, Alaska, and Puerto Rico) go ned by Part 205 of Defense Transportation Regulation (DTR) 45 9–R, Part II Cargo Movement. No siting required if located outside all QD arcs. If located within QD arc, provide appropriate safe separation distance.	
Secure Non-explosives Holding Area	The holding of HD 1.4S materials, without regard to QD, is permitted at this loca- tion		
Security posts and similar loca- tions	Prudent fire protection	May be at explosives operations servicing only one building or op- tion.	
Service tanks - Unprotected	May be sited in accordance with table 8–7 provided the conditions in the notes are met-	 Unprotected service tanks which support aboveground explosi storage or operating complexes, but not inhabited buildings (such those in administrative, supply, industrial, and housing areas). The Command must accept the possible loss of the tanks and collateral damage that a fire might cause if the tanks were punctu- by fragments. A dike system must be installed meeting the requirements of NFPA, part 30 to provide spill containment. If the tank is suppled by a pipe system as copposed to a tank tri then the supply pipe must be context for the tank. If the supply is underground, it will be located from PESs in accordance with 	
Storage tanks for water	-OD does not apply if the loss of the water tank is acceptable -IBD applies if the loss of the water tank is unacceptable -Buried tanks and associated components of like value shall meet the sting requirements below for underground tanks	able. If a water tank is used for firefighting and no adequate altern water supplies exist, the tank is essential and its loss is unacceptat If adequate alternate water supplies do exist, loss of the tank may acceptable. However, consider other factors, such as the replace	

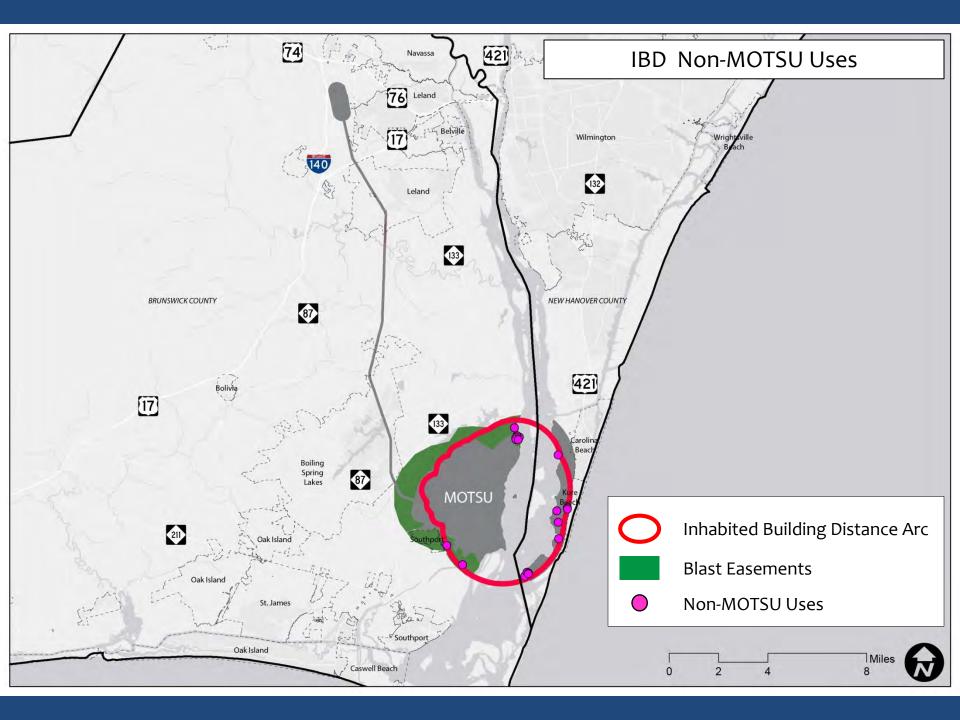
DA PAM 385-64 USE TABLE EXAMPLES

RECREATION USES

Recreational facilities - open air - no structures	Open areas between explosive storage and handling sites and be- tween these sites and non-explosive buildings and structures shall be controlled carefully regarding use for recreation or training facilities. As a general rule, the fragment hazard will be severe from the explo sion site out to approximately the PTRD. For an exception, see table 8–16 and paragraph 8–15b.
Recreational facilities - struc- tures, <i>including bleacher</i> s	Open areas between explosive storage and handling sites and be- tween these sites and non-explosive buildings and structures shall be controlled carefully regarding use for recreation or training facilities. As a general rule, the fragment hazard will be severe from the explo- sion site out to approximately the PTRD. For an exception, see table 8–16 and paragraph 8–15b.

WATER STORAGE TANKS

Storage tanks for water	of the water tank is acceptable -IBD applies if the loss of the water tank is unacceptable -Buried tanks and associated components of like value shall meet the siting requirements	 A key QD consideration is whether loss of the water tank is accept able. If a water tank is used for firefighting and no adequate alternate water supplies exist, the tank is essential and its loss is unacceptable. If adequate alternate water supplies do exist, loss of the tank may be acceptable. However, consider other factors, such as the replace- ment cost of the tank and the effect of its loss on the garrison or in stallation mission, before making a final determination. The Command shall designate the approval authority level for the siting of aboveground water tanks within IBD of PESs, and for burie tanks or pipelines sited at less than the distances required see "Un derground pipelines".



IBD USE CHARACTERISTICS

- Identified 19 sites / uses / structures within the Inhabited Building Distance ESQD arc.
 - 17 public / 2 private
 - -9 on MOTSU land (excludes USAF Rec. Area)
 - USAF recreation area is on US Government (not MOTSU land) and is subject to a separate compatible use agreement
 - -9 within compatible use easements
 - Uses on MOTSU land subject to licenses granted by the Department of the Army

IBD USE CHARACTERISTICS

- Public works facilities (water / wastewater)
- Public park in Kure Beach
- USAF Recreation Area not part of MOTSU
- FAA Joint Surveillance System Radar Facility
- Fort Fisher Ferry landing, admin building, parking area, etc.
- NCWRC Boat Ramp
- Brunswick Town / Fort Anderson historic sites and structures, visitors center, support bldgs.
- Duke Energy firing range

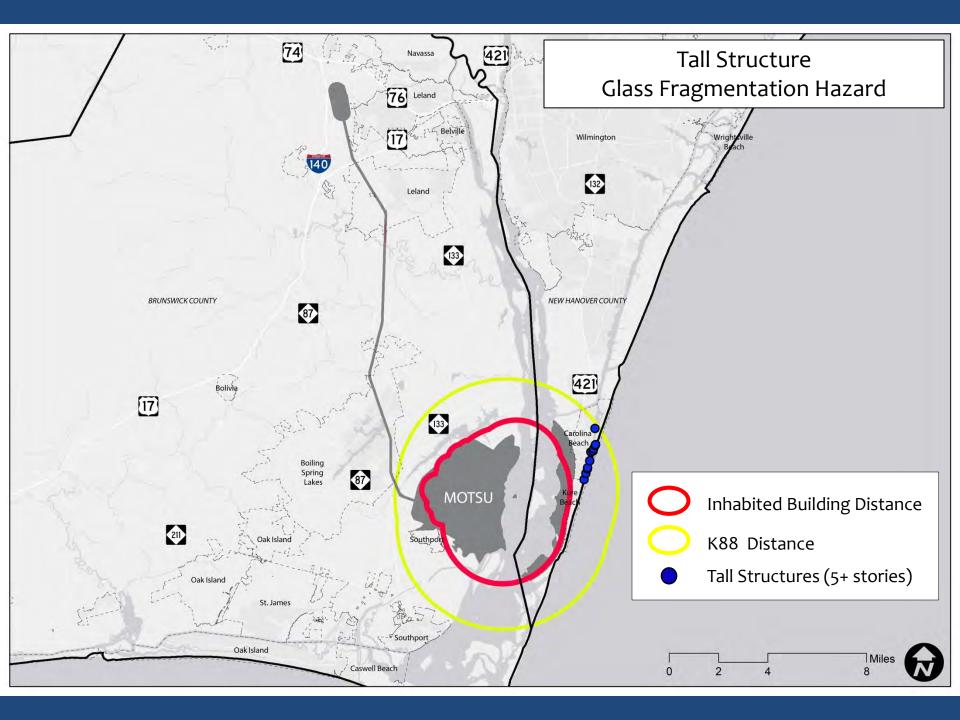
IBD COMPATIBILITY

- Compliance with DoD / DA use guidance
- Frequency of use / time of occupation
- Density of occupation
- Can it be relocated?
- Is it critical to public safety?
- Public vs. private
- Existing mitigation measures / agreements
- Ability to improve compatibility through design or operational considerations.

GLASS FRAGMENTATION HAZARDS DoD Manual 6055.09 Extract

Table V1.E8.T3. Probability of Window Breakage from Incident Pressure

K-Factor (ft/lb ^{1/3})	Incident Pressure (psi)		oility of Breaka /indows Facing	
K _m -Factor [m/kg ^{1/3}]	Incident Pressure [kPa]	Window 1 ^a	Window 2 ^b	Window 36
40	1.2	85	100	100
15.87	8.3	85		
50	0.9	60	100	100
19.84	6.2	00		
60	0.7	41	100	100
23.80	4.8	41	100	100
70	0.6	26	100	100
27.77	4.1	26		
80	0.5	16	94	100
31.74	3.4	16		
90	0.4	10	76	100
35.70	2.8	10	70	100
100	0.3	6	55	100
39.67	2.1			
150	0.2	1	8	49
59.51	1.4	1	0	49
328	0.0655	0	0.1	0.8
130.12	0.45	0		
30.5 centimeters (b 24 inches x 24 inc 61 cm x 61 cm x 0	hes x 0.088 inches float anneale cm) x 61 cm x 0.223 cm float an hes x 0.088 inches float anneale 0.223 cm float annealed (area = hes x 0.12 inches float annealed	nnealed (area = 0.1 ed (area = 4 ft^2) 0.372 m^2)	86 square meter	s (m²))



EMERGENCY EVACUATION CRITERIA

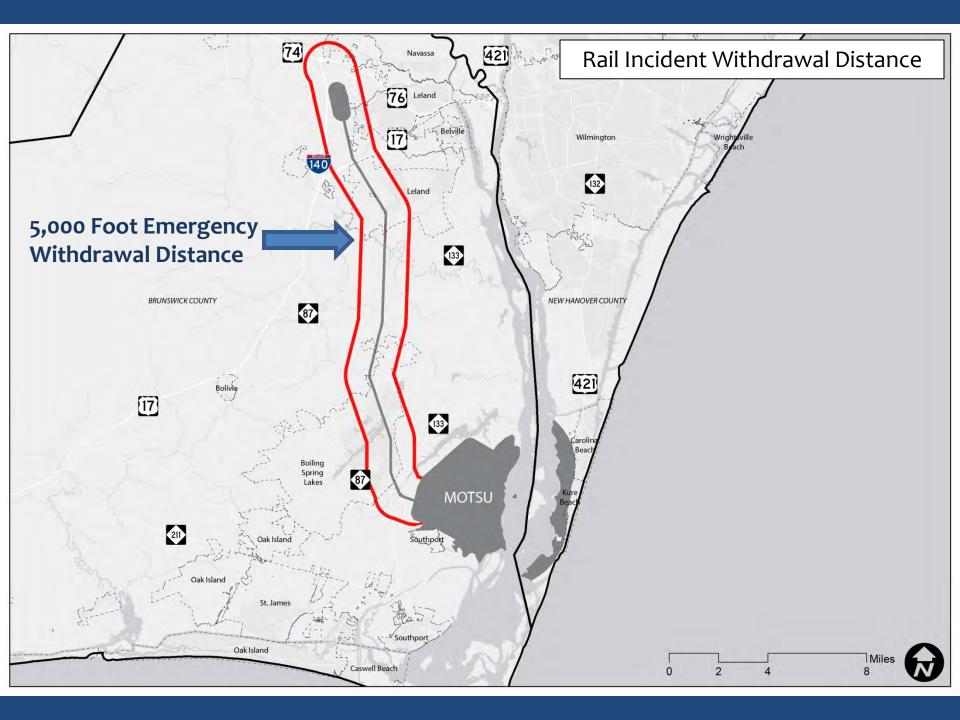
- DoD Manual 6055.09 / DA Pamphlet 385-64 establish identical "Emergency Withdrawal Distances for Nonessential Personnel"
- Distances are intended for initial response to an incident involving ammunition/explosives.
- Substitute guidance in the absence of ESQD arcs for the rail line.
- Applies to both transportation and facilities

EVACUATION DISTANCES

- Railcar incident evacuation distance when over 500 lbs: 5,000 ft.
- Facility incident evacuation distance when over 55,285 lbs: D=105W^{1/3}

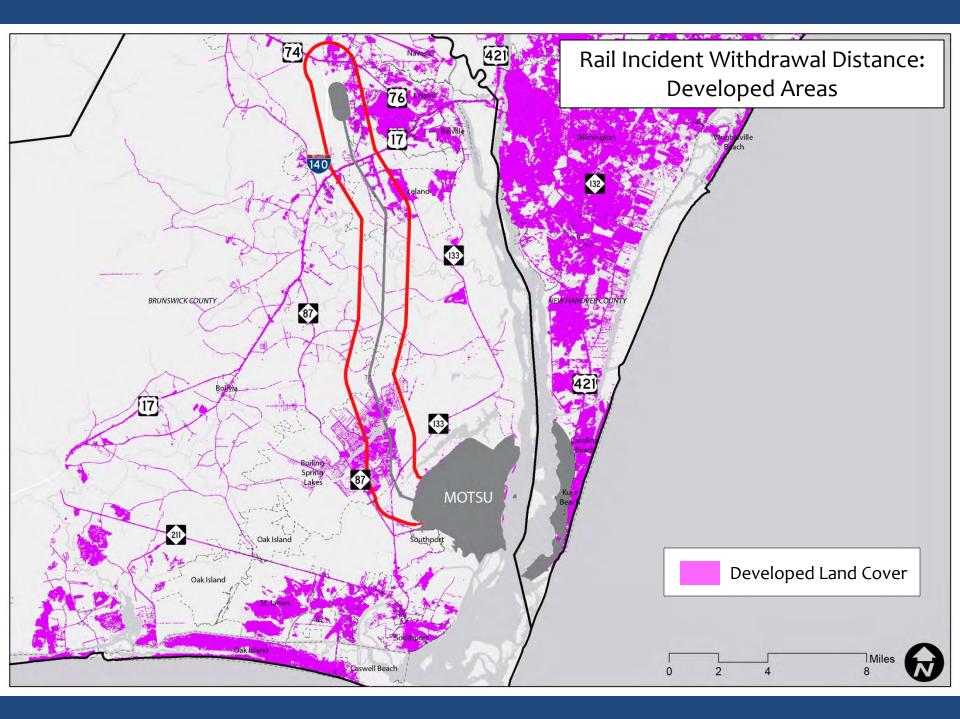
Table V1.E10.T10. Emergency Withdrawal Distances for Nonessential Personnel^a

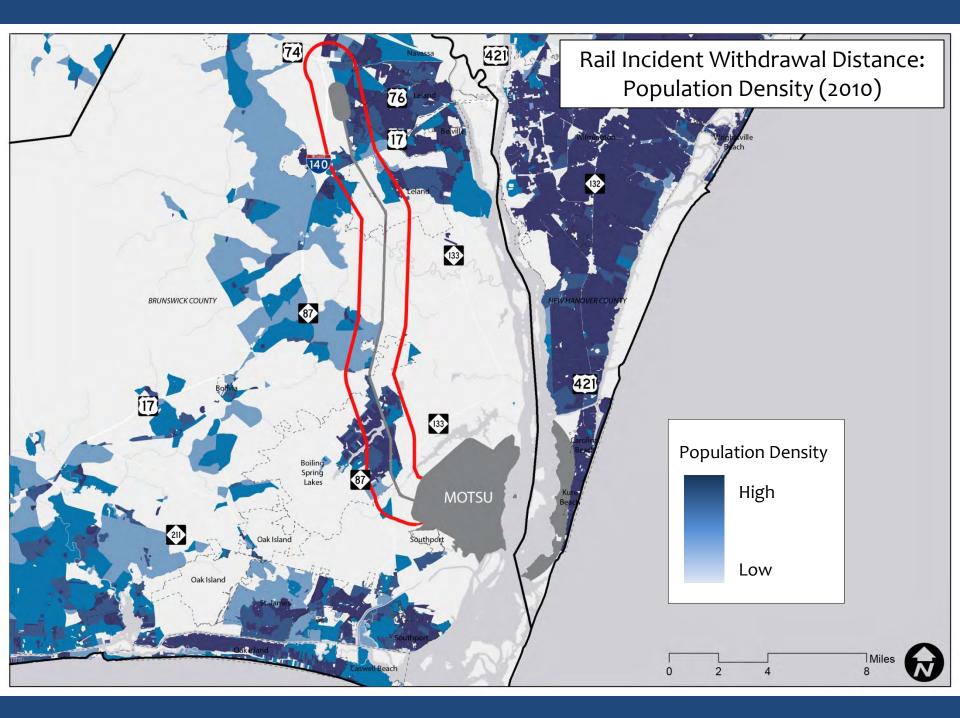
HD	Unknown Quantity (ft)	Known Quantity (ft)	
HD			
11.1	[m] 4,000	[m] 4,000	
Unknown, located in facility,		and the second se	
truck, or tractor trailer	[1,219]	[1,219]	
Unknown, located in railcar	5,000	5,000	
	[1,524]	[1,524]	
		For Transportation: NEWQD ≤ 500 lbs: D = 2,500 ft	
		NEWQD \leq 226.8 kg; D = 762 m	
		NEWQD > 500 lbs: D = 5,000 ft for railcars D = 4,000 ft for other modes	
1.1 ^b and 1.5		NEWQD > 226.8 kg: D = 1,524 m for railcars D = 1,219 m for other modes	
	Same as unknown facility, truck, trailer, or railcar as appropriate	For bombs and projectiles with calibe 5 inch [127 mm] or greater: D = 4,000 ft	
		D = 1,219 m	
		For Facilities: NEWQD $\leq 15,000$ lbs: D = 2,500 ft	
		NEWQD \leq 6,804 kg: D = 762 m	
		$15,000 \text{ lbs} < \text{NEWQD} \le 55,285 \text{ lbs}:$ D = 4,000 ft	
		$6,804 \text{ kg} \le \text{NEWQD} \le 25,077 \text{ kg}$: D = 1,219 m	
		NEWQD > 55,285 lbs: $D = 105W^{1/3}$	
		NEWQD > 25,077 kg: $D = 41.65Q^{1}$	
1.06 1.1.6	2,500	2,500	
1.2^{b} and 1.6	[762]	[762]	
	600	Twice IBD with a 600 ft [183 m]	
1.3	[183]	minimum (V3.E3.T13)	
	300	300	
1.4	[91.5]	[91.5]	
a Emergency withdrawal distan	ces do not consider the n	otential flight range of propulsion units.	
		ange that fragments and debris will be thrown	



RAIL INCIDENT WITHDRAWAL AREA

- Distance applies to any given point on the line where an incident occurs, not the entire line.
- Withdrawal distance may be increased based on the specific situation.
- Area Characteristics:
 - 2010 Population: +/- 11,200
 - 2010 Dwelling Units: +/- 5,200
- Concerns:
 - South Brunswick School Campus
 - Northwest District Park
 - US 17 Commercial Area
 - US 74/76 Industrial Area

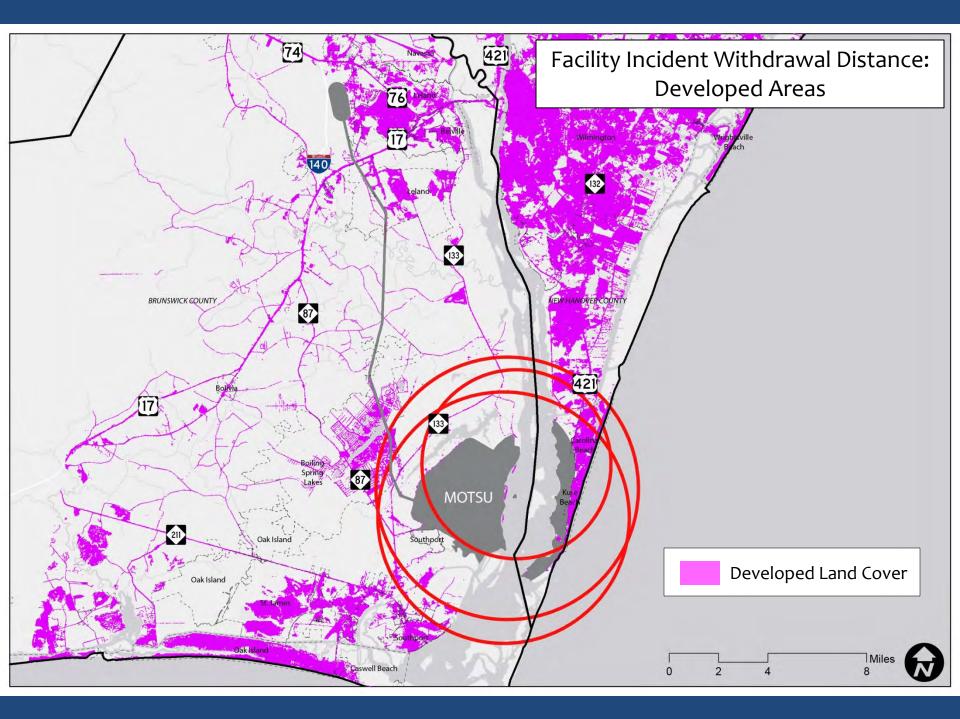


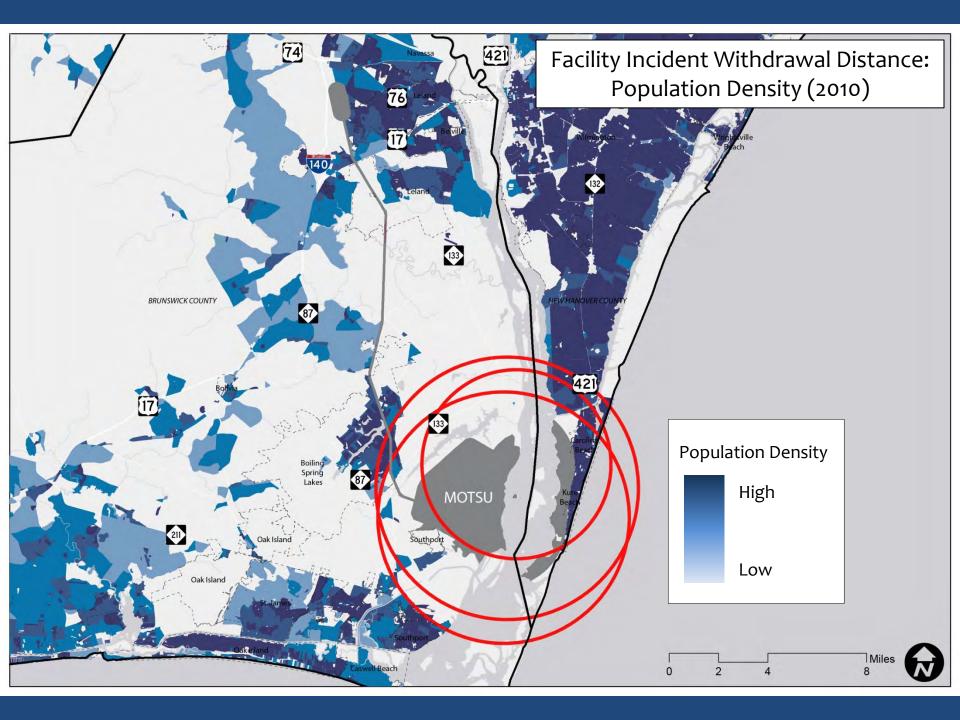




FACILITY INCIDENT WITHDRAWAL AREA

- Distance applies to any given facility docks were used as an example.
- Withdrawal distance may be increased based on the specific situation.
- Area Characteristics:
 - 2010 Population: +/- 14,300 (excludes seasonal)
 2010 Dwelling Units: +/- 10,850
- Concerns
 - Brunswick Nuclear Station
 - Pleasure Island Evacuation Route
 - South Brunswick School Campus





EXAMPLES OF OTHER AREAS OF POTENTIAL COMPATIBILITY CONCERN

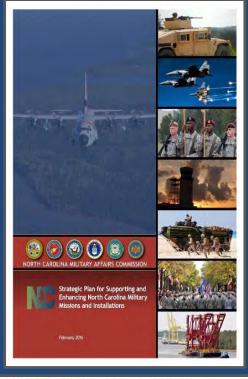
- Cape Fear main shipping channel and ICWW channel from Snows Cut (pass-by traffic) within safety zones.
- Regional traffic congestion concerns
- Flooding maintaining road and rail access
- Grade crossings on the rail line to Leland
- Brunswick Nuclear Station

PLANNING AND DEVELOPMENT REGULATION REVIEW

PLANNING AND DEVELOPMENT REGULATION REVIEW

- Summary of relevant NC land use and military-related statutes
- Overview of existing plans and ordinances for local governments within the JLUS Study Area
 - Two (2) counties
 - Five (5) municipalities

- Planning & Regulation of Development
 - Counties: N.C.G.S. §§ 153A-320 thru -390
 - Cities: N.C.G.S. §§ 160A-360 thru 459.1
 - CAMA: N.C.G.S. §§ 113A-106 thru -112
- Military Affairs Commission
 - N.C.G.S. §§ 143B-1310 thru -1314
 - Strategic Plan updated every 4 years (next is 2020)
 - Annual Report made to General Assembly



NC Military Affairs Commission Subcommittees



Military Coordination & Notice

- N.C.G.S. § 153A-323 [counties]
- N.C.G.S. § 160A-364 [cities]
- Within five (5) miles of boundary of military base, jurisdictions must notify commander of proposed changes:
 - To the zoning map;
 - Affecting permitted uses of land;
 - Related to telecom towers or windmills; or
 - To proposed new major subdivision preliminary plats;
 - Or >50% increases in approved subdivision size.



Wireless Communications Infrastructure Siting

- §160A-400.54
- Classifies "small wireless facilities" as permitted uses and



Image Source: National League of Cities

 preempts cities from regulating them when collocated in a city ROW, or outside a city ROW on any property other than that zoned exclusively for singlefamily residential use

Military Lands Protection Act of 2013

- N.C.G.S. §§ 143-151.70 to -151.77
- Prohibits construction of a "tall building or structure" (200' or greater) within 5 miles without approval of State Construction Office
- Exempts wind energy facilities (due to extensive siting requirements per N.C.G.S. § 215.115 et seq.)





Military Presence Stabilization Fund

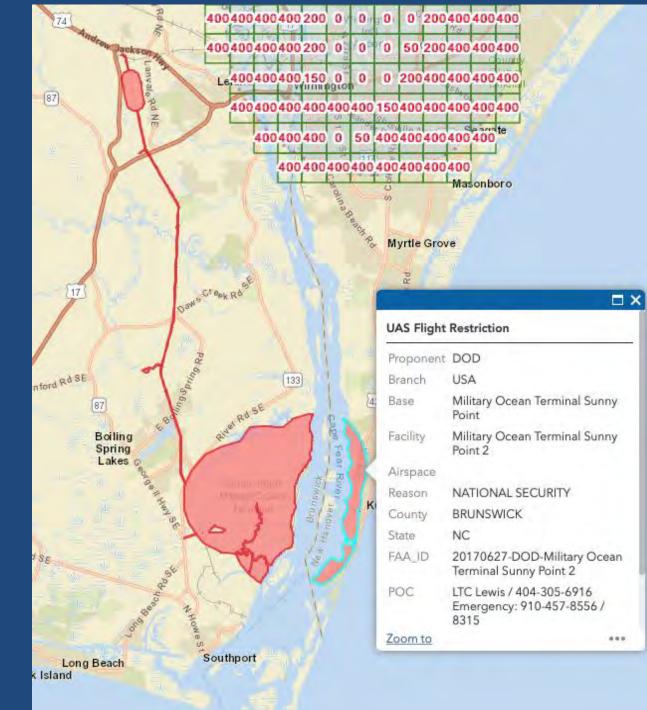
- N.C.G.S. §§ 143B-1217
- NC Military Affairs Commission approves use of Fund for actions designed to make the State less vulnerable to BRAC and related initiatives
- The Fund can be used for:
 - Grants to local communities or military installations
 - Public-public/public-private initiatives
 - Identification and implementation of innovative measures to increase the military value of installations

- Permitting of Wind Energy Facilities
 - N.C.G.S. §§ 143-215.115 thru -215.126
 - Requires impact analysis on military resources early in permitting process
 - Coordination with military continues throughout application process, including written notice of public hearing
 - Annual reporting requirement re: impact on military and natural resources
 - 2017 Legislative:
 - Moratorium through 12/31/2018 for new facilities
 - In order to Study impact on the military, due 5/31/18

FAA RULES FOR UAS

- FAA, under 14 CFR § 99.7 Special Security Instructions (SSI), prohibit all UAS flight operations within the lateral boundaries of sensitive facilities
 - Specific locations depicted on an interactive online map
- Restrictions:
 - Extend from ground up to 400 feet AGL;
 - Apply to all types & purposes of UAS flight; and
 - Remain in effect 24/7

FAA ONLINE MAPS FOR UAS



STUDY AREA JURISDICTIONS

Brunswick County

- Unincorporated
- Boiling Springs Lakes
- Leland
- Southport

New Hanover County – Unincorporated – Carolina Beach – Kure Beach

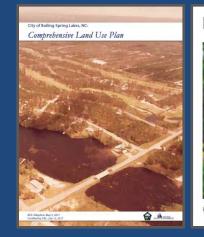
STUDY AREA JURISDICTIONS

- 3 municipalities exercise ETJ
- No military overlay zoning districts, land use limitations, or subdivision regulations
 - Brunswick County has a "Military Installation" special base zoning district
- Most jurisdictions require plat notices re: certain property characteristics

STUDY AREA JURISDICTIONS

- All jurisdictions have a comprehensive land use plan
- Most provide at least background information on MOTSU
- 1 jurisdiction (Kure Beach) provides specific land use limitation policies to address compatibility with military operations







ELAND



STUDY AREA JURISDICTIONS

Kure Beach Land Use Plan 2006

 Explicitly expresses desire of the Town for the MOTSU buffer zone to remain in a natural state with the Town Public Works activities (including water, sewer, or stormwater) being the only allowable use.

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STUDY AREA JURISDICTIONS

• Military Notice Requirements per N.C.G.S.

- Some jurisdictions are informally coordinating
- 2 have incorporated the statutory requirement into their Codes, to one degree or another (Brunswick County and Carolina Beach)
- Tall Structure Notice Requirements per N.C.G.S.
 - No jurisdictions have adopted
- Wind Energy Facility Requirements per N.C.G.S.
 - No jurisdictions have adopted





CONFLICT RESOLUTION STRATEGIES

CONFLICT RESOLUTION STRATEGIES

MANDATORY

BLENDED

Zoning Ordinances Legal Agreements Land Acquisition State / Fed. Statutes

Comprehensive / Land Use Plans

Interagency Coordination

> Easement Purchases

Joint Planning

Development Guidelines MOUs Advocacy Groups Promotional Activities

VOLUNTARY

- **Issue:** Local governments do not currently restrict use, density, or intensity of development based on proximity to the MOTSU rail corridor.
- **Strategy:** Zoning regulations could be implemented that exclude certain uses (schools, daycares, multi-family, etc.) and limit development density for potentially compatible uses (e.g. large lot single family residential).

- **Issue:** The federally restricted portion of the Cape Fear River related to MOTSU does not extend the entire width of the river, creating safety / security concerns.
- **Strategy:** Local governments could lend support to MOTSU seeking modification to the Code of Federal Regulations that govern the extent of the restricted maritime area in the river.

- Issue: Plantation Road (NCDOT maintained) provides public access to MOTSU's back gate, Brunswick Town, and Orton Plantation property.
- **Strategy:** NCDOT, MOTSU and NCDNCR could work together with Orton to identify access control / road ownership changes that would enhance security and access concerns for each entity.

- Issue: Windows in tall structures may be more susceptible to glass breakage from blast overpressure.
- **Strategy:** While the NC Building Code does not allow for local modification, additional standards could be developed and made available for implementation on a voluntary basis. Alternatively, such standards could be made part of a Special Use Permit process.

GENERAL DISCUSSION

UPCOMING MEETING DATES

- December 4: Advisory Committee Meeting
 - Discuss Draft Recommendations
- December 4: Public Meetings
 - Boiling Spring Lakes (Afternoon)
 - Carolina Beach (Evening)
- January (TBD): Policy Committee

– Discuss Draft Recommendations

MILITARY OCEAN TERMINAL SUNNY POINT JOINT LAND USE STUDY



POLICY COMMITTEE MEETING NOVEMBER 19, 2018