# $D\ R\ A\ F\ T$

## FOR DISCUSSION ONLY

TORT LAW RELATING TO DRONES ACT

NATIONAL CONFERENCE OF COMMISSIONERS

ON UNIFORM STATE LAWS

April 20, 2018 Drafting Committee Conference Call

Copyright © 2018

By

NATIONAL CONFERENCE OF COMMISSIONERS

ON UNIFORM STATE LAWS

The ideas and conclusions set forth in this draft, including the proposed statutory language and any comments or reporter's notes, have not been passed upon by the National Conference of Commissioners on Uniform State Laws or the drafting committee. They do not necessarily reflect the views of the Conference and its commissioners and the drafting committee and its members and reporter. Proposed statutory language may not be used to ascertain the intent or meaning of any promulgated final statutory proposal.

Style Definition: Normal: Font: (Default) Times New Roman, Widow/Orphan control, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers

Style Definition: Heading 1

Style Definition: Heading 2
Style Definition: Header

Style Definition: Footer

Style Definition: List Paragraph

Style Definition: Comment Text

Style Definition: Balloon Text

Style Definition: TOC 1

**Style Definition:** TOC 2: Indent: Left: 0", Hanging: 0.5", Tab stops: 6.49", Right, Leader: ...

Deleted: March 9-10

Deleted: Meeting

Formatted: Font: (Default) Times New Roman

Deleted: March 6, 2018

## TORT LAW RELATING TO DRONES ACT

The Committee appointed by and representing the National Conference of Commissioners on Uniform State Laws in preparing this Act consists of the following individuals:

PAUL M. KURTZ, 362 W. Cloverhurst Ave., Athens, GA 30606, Chair,

MARK F. GLASER, 54 State St., 6th Floor, Albany, NY 12207, Vice Chair

MARK BAKER, P.O. Box 947, Brandon, MS 39043

STEPHEN Y. CHOW, 125 Summer St., Boston, MA 02110-1624

ELLEN F. DYKE, 2125 Cabots Point Ln., Reston, VA 20191

LYLE W. HILLYARD, 595 S. Riverwoods Pkwy., Suite 100, Logan, UT 84321

PETER F. LANGROCK, P.O. Drawer 351, Middlebury, VT 05753-0351

LARRY METZ, P. O. Box 57, Yalaha, FL 34797-0057

LOWELL PEARSON, P.O. Box 1251, 235 E. High St., Jefferson City, MO 65203

D. JOE WILLIS, 360 SW Bond St., Suite 500, Bend, OR 97702

JOAN ZELDON, District of Columbia Superior Court, 515 5th St. NW, Room 219, Washington, DC 20001

GREGORY S. MCNEAL, Pepperdine University, 24255 Pacific Coast Hwy., Malibu, CA 90263-0001, *Reporter* 

#### **EX OFFICIO**

ANITA RAMASASTRY, University of Washington School of Law, William H. Gates Hall, Box 353020, Seattle, WA 98195-3020, *President* 

WILLIAM W. BARRETT, 600 N. Emerson Ave., P.O. Box 405, Greenwood, IN 46142, Division Chair

# AMERICAN BAR ASSOCIATION ADVISORS

JOHN P. RATNASWAMY, 350 W. Hubbard St., Suite 600, Chicago, IL 60654-6982, ABA

DANIEL R. MCGLYNN, 10420 Research Rd. SE, Albuquerque, NM 87123-3452, ABA Section Advisor

## EXECUTIVE DIRECTOR

LIZA KARSAI, 111 N. Wabash Ave., Suite 1010, Chicago, IL 60602

Copies of this act may be obtained from:

NATIONAL CONFERENCE OF COMMISSIONERS ON UNIFORM STATE LAWS 111 N. Wabash Ave., Suite 1010 Chicago, Illinois 60602 312/450-6600 www.uniformlaws.org Formatted: Font: Times New Roman

# TORT LAW RELATING TO DRONES ACT

## TABLE OF CONTENTS

<b>PART</b>	1
A	

# **GENERAL PROVISIONS**

# [SUBPART A. SHORT TITLE AND DEFINITIONS]

SECTION 101. SHORT TITLE	4
SECTION 102. DEFINITIONS.	
ν.	4
	-
[SUBPART B. GENERAL SCOPE AND TERMS]	
CECTION 201 CCORE, EVOLUCIONO	
SECTION 201. SCOPE; EXCLUSIONS.	
SECTION 202. RELATION TO FEDERAL LAW.	
V	
	*****
[SUBSTANTIVE PROVISIONS]	
SECTION 301. PER SE AERIAL TRESPASS	2
SECTION 302. TORTIOUS ACQUISITION OF IMAGES, RECORDINGS OR ELECTRONIC	•
IMPRESSIONS USING AN UNMANNED AIRCRAFT	3
SECTION 303. NUISANCE	)
SECTION 304. INTENTIONAL TORTS	
SECTION 305. TRESPASS TO CHATTELS. 10	//
SECTION 306. EXISTING PRODUCTS LIABILITY LAW UNDISTURBED	) <b>→</b> \\
1	

SECTION 307. LIMITATION OF LIABILITY. 10

SECTION 308. DEFENSES. \_\_\_\_\_\_11

SECTION 309. REMEDIES.

Formatted: Font: Not Bold

Formatted: Tab stops: Not at 6.49"

Field Code Changed

Deleted: 1

Formatted: TOC 1

Formatted: Tab stops: Not at 6.49"

Field Code Changed

Field Code Changed

**Deleted:** SECTION 203. RULES OF CONSTRUCTION. - 6¶

[TITLE 3 AND TITLE 4 RESERVED]

Deleted: 501.

Formatted: Tab stops: Not at 6.49"

Field Code Changed

Deleted: SECTION 502. PHYSICAL INVASION OF

PRIVACY.- 7¶ Deleted: 503. CONSTRUCTIVE INVASION OF

PRIVACY. - 9¶ SECTION 504

Field Code Changed

Deleted: 505

Field Code Changed Formatted: Indent: Left: 0", First line: 0", Tab stops: Not at

6.49"

Deleted: 506. STRICT

Deleted: , UNMANNED AIRCRAFT GOODS, AND

UNMANNED AIRCRAFT SERVICES

**Field Code Changed** 

Deleted: 507

Deleted: 10

Formatted: Tab stops: Not at 6.49"

1	TORT LAW RELATING TO DRONES ACT
2	PART 1
3	GENERAL PROVISIONS
4	[SUBPART A. SHORT TITLE AND DEFINITIONS]
5	SECTION 101. SHORT TITLE. This [Act] may be cited as the Tort Law Relating to
6	Drones Act.
7	SECTION 102. DEFINITIONS.
8	(a) [General definitions.]. In this [Act]:
9	(1) "Person" means an individual, firm, partnership, corporation, company,
10	association, joint-stock association, or governmental entity. It includes a trustee, receiver,
11	assignee, or similar representative of any of them. (NOTE: FAA DEFINITION)
12	<u>or</u>
13	(1*) "Person" means an individual, estate, business or nonprofit entity, or other
14	legal entity. The term does not include a public corporation, government or governmental
15	subdivision, agency, or instrumentality." (NOTE: ULC DEFINITION)
16	(2) "Unmanned aircraft" means an aircraft operated without the possibility of
17	direct human intervention from within or on the aircraft.
18	JSUBPART B. GENERAL SCOPE AND TERMS!
19	SECTION 201. SCOPE; EXCLUSIONS.
20	[Scope in general.]. This [Act] applies to unmanned aircraft systems.
21	SECTION 202. RELATION TO FEDERAL LAW.
22	[Federal preemption.] A provision of this [Act] which is expressly preempted by federal
23	law is unenforceable to the extent of the preemption

Formatted: Font: Not Bold

**Deleted:** — (1) "Control station" means any device used by the remote pilot to control or direct the flight path of the small unmanned aircraft.¶

· - (2

**Deleted:** — (3) "Firmware" means software installed in or on a small unmanned aircraft system at the time of the manufacture of the unmanned aircraft, and in use, whether actively or as a passive operation, including updates to the firmware released by the manufacturer and installed on an unmanned aircraft system. ¶

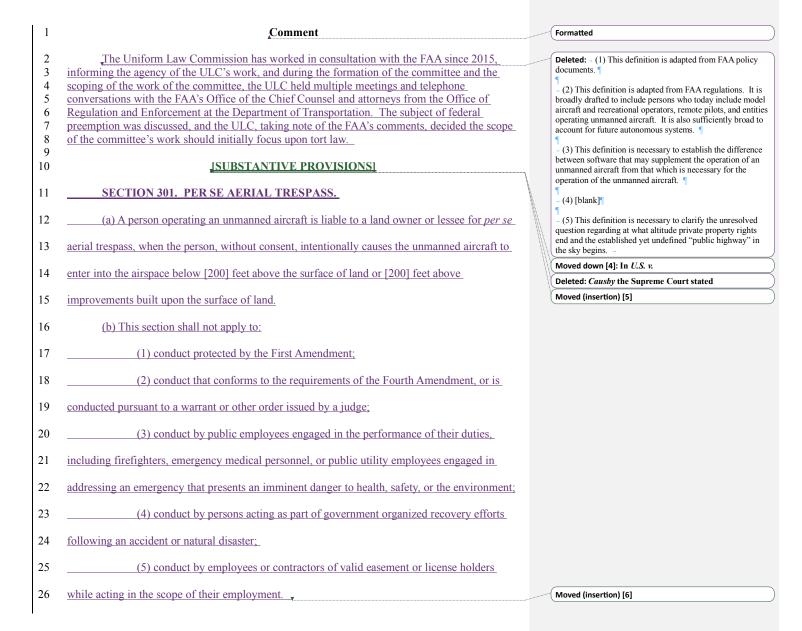
- -- (4) "Flight Control Software" means the software used as part of the control station. ¶
- (5) "Immediate Reaches" means the airspace from ground level to at least [100] feet above the surface, or where surface improvements are present, the airspace at least [100] feet above those surface improvements.
- (6) "Small unmanned aircraft" means an unmanned aircraft weighing less than 55 pounds on takeoff, including everything that is on board or otherwise attached to the aircraft. For the purposes of this statute, the term drone is synonymous with small unmanned aircraft.
- —— (7) "Small unmanned aircraft system (small UAS)" means a small unmanned aircraft and its associated elements (including communication links and the components that control the small unmanned aircraft) that are required for the safe and efficient operation of the small unmanned aircraft.
- -- (8) "Software" means the carefully-organized instructions and code written by programmers in any of various special computer languages. Software includes code that controls the functions of a small unmanned aircraft system. It also includes applications that handle common or specialized tasks related to the control of a small unmanned aircraft system. Software includes applications provided by the unmanned aircraft manufacturer that are necessary for the operation of some or all of the functions of the unmanned aircraft system, and third party applications capable of controlling the unmanned aircraft system.

· → (9

Moved (insertion) [1]

Moved (insertion) [2]

Moved (insertion) [3]



1	(c) Consent to enter the immediate reaches of the airspace above the land of another may	
2	be proven through express verbal, written or electronic consent. Such consent must be given by	
3	the person authorized to grant entry to the airspace above the land, Consent must be freely	Moved (insertion) [7]
4	given, specific, informed and must unambiguously indicate the wishes of the party granting	
5	consent and the terms under which consent may be revoked. Electronic consent must also	
6	include a clear affirmative action that signifies specific agreement to an overflight or overflights.	Moved (insertion) [8]
7	The person causing an unmanned aircraft to enter the immediate reaches of the airspace has the	
8	burden to produce evidence of consent.	
9	(c*) "Agreement" means the bargain of the parties in fact, as found in their language or	
10	inferred from other circumstances and from rules, regulations, and procedures given the effect of	
11	agreements under laws otherwise applicable to a particular transaction	
12 13 14 15	(*UETA language included per the request of the committee: At the committee's last meeting it was suggested that Agreement, under UETA might be a better substitute for consent, it is provided here as an alternative (c) for consideration and discussion by the committee).	
17	(d) Above the altitude set forth in (a), any existing aerial trespass law of this state applies.	
18	(e) Remedies and damages for violations of this section are identical to those for trespass	
19	to land [under the law of this state].	
20	Comment	Moved (insertion) [9]
21 22 23 24	Paragraph b, subparagraph 2 is drafted in this manner to allow for conduct that satisfies not only the Fourth Amendment to the U.S. Constitution, but also provisions of state constitutions, or statutes to qualify as exempted activity.	
25 26 27 28 29	This section is intended to promote clarity and uniformity by establishing that the low altitude intrusion of an unmanned aircraft into the "superadjacent airspace" or "immediate reaches" above land, defined here by an altitude of 200 feet above ground level or 200 feet above structures, is akin to a trespass upon the land, and is therefore a <i>per se</i> trespass.	
30 31	This section assumes a landowner may exclude a non-consensual entry by drone into the airspace below 200 feet above their land and surface improvements on the land. This ensures that	

the unmanned aircraft always remains 200 feet above ground level or 200 feet above surface improvements unless consent is given, or an exception applies. Such a rule will protect rooftop pools, decks, patios and other uses in urban areas, it will also protect commercial facilities, hotels and resorts, and other areas where persons desire a right to exclude low altitude overflights. The altitude ceiling for this exclusion is low enough that unmanned aircraft will still have a right to transit above property and surface improvements.

The altitude limit of 200 feet was selected because the FAA has historically not been concerned with obstacles and other structures below 200 feet, whereas obstacles extending above that altitude have been charted and lighted. In 2017, the White House issued an Executive Order specifying that state, local and tribal officials, operating under the auspices of the Drone Integration Pilot Program could make reasonable time, manner, and place restrictions regarding the use of unmanned aircraft. That executive order mirrored the language of bi-partisan pieces of legislation introduced in the House and Senate. Other practical reasons include that at least three states have adopted altitude limits higher than that adopted in this Act. Finally, the altitude selected divides the airspace in half between unmanned aircraft which need a right to transit over private property, and landowners who may have rights in the airspace.

Section 301 primarily protects property interests, a right of quiet solitude, and a right to be left alone. Privacy interests are not directly addressed by this Section (see Section 302). However, a collateral benefit of a right to exclude nonconsensual entry of unmanned aircraft into the immediate reaches of airspace is an incremental gain to privacy.

# **Background**

In U.S. v. Causby the Supreme Court stated:

"We have said that the airspace is a public highway. Yet it is obvious that, if the landowner is to have full enjoyment of the land, he must have exclusive control of the **immediate** reaches of the enveloping atmosphere. Otherwise buildings could not be erected, trees could not be planted, and even fences could not be run."

While the Supreme Court established the principle that landowners must have control of the "immediate reaches" the Court left the term undefined, and subsequent courts have failed to set a clear line related to the minimum altitude at which a landowner's rights begin. This is true despite the fact that the Court noted "the flight of airplanes, which skim the surface but do not touch it, is as much an appropriation of the use of the land as a more conventional entry upon it."

To understand the limits of the aerial trespass doctrine, it is necessary to understand traditional trespass to land doctrine, and how special categories of devices in the air have been treated in tort.

# **I.** Traditional Trespass to Land Doctrine

According to the Restatement (Second) of Torts § 158 (1965):

"One is subject to liability to another for trespass, irrespective of whether he thereby causes harm to any legally protected interest of the other, if he intentionally

Moved (insertion) [10]

Moved (insertion) [4]

Formatted: Font: Bold

Formatted: Indent: First line: 0.5"

Deleted: clearly

(a) enters land in the possession of the other, or causes a thing or a third person to do so, or (b) remains on the land, or

(c) fails to remove from the land a thing which he is under a duty to remove."

Thus, trespass to land is *per se* actionable. A plaintiff must only prove the intentional entry into land in the possession of another, or the intentional causing of a thing to so enter or remain. While trespass to land is *per se* actionable, common experience has shown that there are very few lawsuits for minimal intrusions like an accidental step upon a lawn, or the brief running of a child through a backyard. In crafting a *per se* rule for aerial trespass as set forth in Section 301, the goal is to ensure that the new doctrine follows as closely as possible the existing precedents which have traditionally governed trespass to land.

# II. Kites, balloons, and projectiles

Some devices are also subject to a *per se* rule like that advanced in Section 501. Specifically, the Restatement (Second) of Torts notes in a comment that it is a trespass to "fire projectiles or to fly an advertising kite or balloon through the air above [another's land], even though no harm is done to the land or the possessor's enjoyment of it." RESTATEMENT (SECOND) OF TORTS § 158 cmt. i (1965). While this might suggest that unmanned aircraft could fit into this *per se* rule, a special rule for aircraft exists that may prove problematic as unmanned aircraft grow in popularity, specifically the aerial trespass doctrine.

#### III. Aerial Trespass

According to the Restatement (Second) of Torts § 159(2):

Flight by an aircraft in the air space above the land of another is trespass if (1) "[the aircraft] enters into the immediate reaches of the air space next to the land, and (2) [it] interferes substantially with the other's use and enjoyment of the land.":

Notably, unlike trespass to land which allows for a *per se* right to exclude non-consensual entries, aerial trespass as presently understood does not afford such an automatic exclusionary right. Aerial trespasses are wrongful only when they 1) enter the largely undefined "immediate reaches" and 2) substantially interfere with a plaintiff's use and enjoyment of land.

# **Immediate reaches**

Landowners and lessees likely do not physically occupy the airspace 200 feet above their land or structures, and it is presently unclear whether an intrusion into this area would constitute an entry into the immediate reaches of the land owner's airspace. Under existing aerial trespass doctrine, determining whether an aerial intrusion is an entry into the immediate reaches requires a fact specific inquiry which has historically caused uncertainty and a lack of uniformity.

As an example, in *Causby*, the Supreme Court on the facts of that case (adjudicating a takings claim) found that the flight of a government operated aircraft at an altitude of 83 feet interfered with the landowner's property rights and the landowner was entitled to compensation.

Moved (insertion) [11]

Formatted

Formatted: Left, Indent: First line: 0"

Deleted: owners

Deleted: 100

Deleted: , per this definition,

Deleted: without the need for

Deleted: inquiries

Deleted: have

Deleted: In

46

On those facts the court explained the importance of the immediate reaches concept and the property interest in the superadjacent airspace noting that intrusions into this area are "in the same category as invasions of the surface" the court went on to state:

""We would not doubt that, if the United States erected an elevated railway over respondents' land at the precise altitude where its planes now fly, there would be a partial taking, even though none of the supports of the structure rested on the land. The reason is that there would be an intrusion so immediate and direct as to subtract from the owner's full enjoyment of the property and to limit his exploitation of it. While the owner does not in any physical manner occupy that stratum of airspace or make use of it in the conventional sense, he does use it in somewhat the same sense that space left between buildings for the purpose of light and air is used. The superadjacent airspace at this low altitude is so close to the land that continuous invasions of it affect the use of the surface of the land itself. We think that the landowner, as an incident to his ownership, has a claim to it, and that invasions of it are in the same category as invasions of the surface."

The "low altitude" that was seen as akin to the surface by the *Causby* Court was an altitude of 83\* feet.

However, the *Causby* case <u>did</u> not end there <u>because</u> the Supreme Court remanded the case to the Court of Federal Claims for further fact finding. Setting up the procedural history, the Court of Federal Claims wrote

"[w]e held that the United States had taken an easement of flight over plaintiffs' property, resulting in the destruction of some of plaintiffs' property and damage to the rest. We awarded judgment. The Supreme Court agreed there had been a taking but remanded the case for findings describing the precise nature of the easement taken..." (Causby v. U.S., 75 F. Supp. 262, 263 (Ct. Cl. 1948) (internal citations omitted).

The Court of Federal Claims found "the United States took an easement over plaintiffs' property...for the flight of its airplanes ... at an altitude varying from 83 feet above the surface of the land to an altitude of 365 feet." and the court decreed that the landowners were entitled to compensation for their loss of property and the decrease in rental value of their property. Thus in Causby, the immediate reaches ranged from 83 feet to 365 feet. Other cases have come out differently, but most subsequent aerial trespass cases involving manned aircraft have relied on Causby.

# Substantial interference.

The <u>aerial trespass doctrine</u> does not <u>end with a mere analysis of where</u> the immediate reaches <u>are</u>, another <u>complication is that existing precedents from manned aviation require substantial interference with one's use and enjoyment of land. These precedents look for interference of a type that when applied to unmanned aircraft will likely not allow for a right of exclusion. For example, Courts have found that noise alone is not an interference with use of land,</u>

Deleted: ." Formatted: Font: Italic Deleted: The court wrote, Formatted: Indent: First line: 0" Deleted: does...id not end there, as [1] Formatted: Font: Italic Formatted: Indent: Left: 1", First line: 0" Formatted: Indent: First line: 0' Formatted .. [2] Deleted: other cases have come out differently. The definition provided here removes ambiguity related to the altitude at which the landowner -- as incident to his Formatted Formatted: Underline color: Auto. Font color: Auto Formatted: Justified. Indent: First line: 0' Deleted: (6) This definition is adapted from FAA .. [5] Moved up [1]: [SUBPART B. GENERAL SCOPE AND Deleted: (a) Moved up [2]: [Scope in general.]. Deleted: This [Act] applies to small unmanned aircraft ... [6] Moved up [3]: → SECTION 202. RELATION TO Deleted: - (a) [Federal preemption.] A provision of this. [7] Moved up [9]: Comment Deleted: Uniform Law Commission has coordinated with [8] Moved down [12]: Comment Deleted: 1. Purpose of the Section. This section brings ... [9] Moved up [5]: [SUBSTANTIVE PROVISIONS] Deleted: → SECTION 501. AERIAL TRESPASS USING Moved up [6]: Deleted: Such consent must be given by the person Moved up [7]: Consent must be freely given, specific, Deleted: Electronic consent must include a clear affirmative Moved up [8]: The person causing an unmanned aircraft[13] **Deleted:** This section is intended to promote clarity and. [14] Moved up [10]: The altitude ceiling for this exclusion is Deleted: This section primarily protects property interests 18] Moved up [11]: Formatted Deleted: - Notably, unlike trespass to land which allows for] Moved down [14]:

Deleted: of these elements for unmanned aircraft will likelys]

8

17

18

19

27

28

36

37

44

45

overflight of uninhabited land is not an interference, and overflights of inhabited land when the land was not being used at the time of the overflight was not interference.

Applying these precedents to unmanned aircraft would raise the question of whether it will-be acceptable for drones, fly at low altitudes in close proximity to homes, so long as the unmanned aircraft is very quiet, or the residents are not home. These precedents would also raise questions about whether an unmanned aircraft take-off and landing facility may be built adjacent to uninhabited land, using the airspace above that land at any altitude until such time as the landowner chooses to make use of the land. Consider an unmanned aircraft hovering at 55 feet above a landowner's property (note that the average two story home is 35 feet tall). This aircraft would be visible to the landowner, perhaps audible to the land owner, and likely troubling to the land owner, but based on existing precedents would not necessarily constitute interference with the use of land, and therefore would likely not be actionable (or excludable from that airspace).

Thus while a trespasser walking upon land is liable for trespass "irrespective of whether hethereby causes harm to any legally protected interest of the other" (Restatement (Second) of Torts § 158 (1965)) an aerial trespass by a drone under traditional law would trigger no such liability absent proof of harm. In this respect, aerial trespass operates more like a nuisance suit than a right to exclude. The original aerial trespass doctrine made sense in an era when aircraft were rarely operating close to the ground, people, and structures. This act is premised upon a conclusion that the doctrine no longer make sense in an era in which drones already number in the millions and operate closer to the ground than manned aircraft have traditionally operated.

Requiring proof of both the immediate reaches concept and substantial interference in the context of unmanned aircraft would result in the inability of landowners to exclude most unmanned aircraft flights from even very low altitudes adjacent to land and buildings. It would also force plaintiffs and defendants to enter litigation to determine whether flights actually interfered with a landowner's use and enjoyment of their land. Stated simply, unlike the *per se* right that exists in trespass to land, which establishes an easily understandable bright line rule prohibiting certain intrusions, there is no existing right to exclude aircraft from flying above one's land without showing the flight took place within the immediate reaches and that it substantially interfered with the use and enjoyment of the land.

#### IV. A New Bright Line Per Se Doctrine Is Needed

The existing aerial trespass laws fail to adequately protect both landowners/lessees and unmanned aircraft pilots. It is likely to engender significant public backlash against unmanned aircraft technology as most landowners and lessees understand their right to exclude traditional trespassers and likely assume the rules in the very low altitude airspace similarly allow them to exclude unmanned aircraft without any need to litigate the substantiality of interference with their use and enjoyment of land.

On the other hand, unmanned aircraft pilots will likely believe themselves to be protected by the fact specific inquiry of the traditional aerial trespass doctrine and may find themselves the subject of a lawsuit in which they must mount a defense that will rely on ambiguous definitions of Deleted: this

Formatted: Indent: First line: 0.5"

Deleted: will

**Deleted:** questions about

Deleted: are permitted to

Deleted: , or these

Deleted: may

Deleted:

Formatted: Highlight

Formatted: Indent: First line: 0.5"

#### Moved (insertion) [14]

**Deleted:** Existing aerial trespass doctrine does not serve the interests of persons operating unmanned aircraft or land owners. For persons operating unmanned aircraft, an unclear line as to what constitutes a trespass will lead to uncertainty and threats of litigation in instances where the person may believe they have not "substantially interfered" with the use and enjoyment of one's land. For land owners, they too will face uncertainty as to what rights of exclusion they have against drones, forcing courts to make case by case determinations about whether and at what altitude a landowner may exclude an overflight. Moreover, existing case law, despite nearly a half century of development, has not clarified where a landowner's rights in airspace cease. A bright-line approach defining an entry into the immediate reaches as a trespass was deemed the best resolution to this lack of uniformity.

# SECTION 502. PHYSICAL INVASION OF PRIVACY. A person is liable for physical invasion of privacy when the person:

- (a) knowingly enters onto the land or into the airspace above the land of another person without permission; ¶
- (b) commits a trespass; ¶

(c)

immediate reaches and substantial interference. Both potential plaintiffs and defendants would be well served by bright line rules.

In fact, the success of the unmanned aircraft industry likely rests upon resolving issues related to public acceptance of this new technology. For example, a poll conducted by Pew indicates that most Americans want the ability to exclude unmanned aircraft from operating in certain areas. Similarly, a Danish study found that the ability to have spatial separation from unmanned aircraft was a key determinant of people's willingness to accept the technology.

Despite over 100 years of aviation history, the number of traditional aircraft operating in the very low altitude airspace has remained both minimal and steady. This is attributable to two factors. First, for manned aircraft other than helicopters the FAA has established minimum safe altitudes below which manned aircraft may not fly. FAA Regulations require that manned aircraft, with the exception of take-off landing, not operate below 500 feet in unpopulated areas, 1000 feet in populated areas and must stay 500 feet laterally from people and structures in unpopulated areas and 2,000 feet in populated areas. Second, while helicopters are exempt from the rule for minimum safe altitudes there are presently only 10,577 general aviation helicopters registered in the entire United States. Compare this to unmanned aircraft for which there are over 878,000 registered hobbyists (who may have multiple drones) and over 122,000 commercial drones. The ease of access to unmanned aircraft technology, the scale at which they are already operating, and the low altitude airspace in which these aircraft will be operating all suggest that creating a uniform law for *per se* aerial trespass is a necessity.

SECTION 302. TORTIOUS ACQUISITION OF IMAGES, RECORDINGS OR

# ELECTRONIC IMPRESSIONS USING AN UNMANNED AIRCRAFT. A person commits

tortious acquisition of images, recordings or electronic impressions using an unmanned aircraft

when the person:

(a) operates an unmanned aircraft, in order to intentionally acquire:

(1) a visual image, sound recording, or electronic impression;

(2) of another person or a trade secret;

(3) in a manner that is highly offensive to a reasonable person; and

(4) such acquisition is not otherwise protected by the First Amendment or does

not conform to the requirements of the Fourth Amendment, a warrant, or other order issued by a

judge.

**Deleted:** capture any type of

Formatted

**Deleted:** other physical impression of a person that violates the person's reasonable expectation of privacy; or

Formatted: Indent: Left: 0.5", First line: 0.5"

**Deleted:** – (d) captures the

Deleted: engaging

Deleted: private, personal, or familial activity

Deleted: capturing

i			
1	(b) for purposes of (a), there exists a rebuttable presumption that a person acted "in order	1	<b>Deleted:</b> physicallectronic impression occurs in a manner that is ¶
2	to intentionally acquire" if they commit a "per se aerial trespass," [as defined in Section 301] or		(1)sing an unmanned aircraft is subject to a rebuttable presumption that it is highly offensive to a reasonable person
3	if they commit an aerial trespass [as defined elsewhere in the existing law of this state].		or (2) violates the person's reasonable expectation of
	in the following with the country in	/	privacy.
4	(c) for purposes of (a)(3) a visual image, sound recording, or <u>electronic</u> impression <u>using</u>		(e) For purposes of this section, a person is presumed to have a reasonable expectation of privacy on his or her
5	an unmanned aircraft is subject to a rebuttable presumption that it is highly offensive to a		privately owned real property if hef that visual image, sound recording, or other physical or she is not observable by persons located atlectronic impression would not be[19]
6	reasonable person if that visual image, sound recording, or other physical or electronic		Moved down [15]: Comment¶
		[ / <sub>i</sub>	Deleted: - Note there is no altitude limit on this provision 20
7	impression would not be capable of being acquired from ground level or from structures where	\	Formatted
		- ///,	Formatted: Indent: First line: 0.5"
8	an observer has a legal right to be,	M/	Moved down [16]: . ¶
		W/.	
9	(d) A visual image, sound recording, or electronic impression acquired solely for		Deleted: 503. CONSTRUCTIVE INVASION OF [22] Formatted
1.0			
10	navigational purposes is exempt from this section, so long as such visual image, sound recording,		Deleted: ¶ [23]
11		M	Deleted: ¶ [24]
11	or electronic impression is not used for purposes other than navigation and aviation safety and is		Deleted: of a person \( \text{ [25]} \)
12	not disclosed to other persons other than for the purpose of navigation and aviation safety.		Formatted [21]
12	not discressed to other persons piner than for the purpose of navigation and aviation safety.		Formatted
13	(e) It shall be a defense to a cause of action under subsection (a) or (b) that upon		Formatted
10	(e) It shall be a determe to a ended of devicer and of succession (a) or (e) that apon		Formatted
14	discovering the acquisition of information protected by this section the acquiring person		Deleted: other physical
			Formatted
15	immediately deleted and rendered inaccessible the information and any copies of the		Deleted: could
16	information.		Formatted
10	information.		Deleted: have been achieved without a trespass unless the 261
17	Comment		Formatted
			Deleted: .¶ [27]
18	<u>Subsection (a)</u> seeks to protect against <u>intentional</u> non-trespassory privacy invasions from		Formatted
19	adjacent airspace (for example an observation into a private area from airspace above a public	\	Deleted: observable by
20	street or above neighboring private property) and (b) trespassory privacy invasions. The	$\setminus \setminus \parallel$	· · · · · · · · · · · · · · · · · · ·
21	subsection protects from overbreadth by mandating proof that the acquisition was intentional and	$\mathbb{N}$	Formatted
22	highly offensive to a reasonable person.		Deleted: located at ground level in a place where they haves
23			Formatted
24 25	Subsection (c) presumes a key determinant of offensiveness is whether the acquisition of information could not otherwise be accomplished from the ground. It thus reflects the approach		Moved (insertion) [12]
25 26	followed by Fla. Stat. \$934.50(3)(b) which defined a reasonable expectation of privacy by		Deleted: Comment [29]
27	reference to what could be observed from the ground. The subsection is intended to allow		Formatted: Indent: First line: 0.5"
28	individuals to protect their privacy interests by taking measures to protect themselves from ground		Deleted: ) and (b) trespassory privacy invasions. The [30]
29	observations and observations from structures built upon the ground and ensures that they need	1	Formatted [31]
•		,	Deleted: → SECTION 504.

1	not go to extreme measures to shield their activity from aerial observations. These provisions protect not only persons, but also trade secrets which are not presently protected from overflights	Moved down [17]: NUISANCE.
2	as trade secrets law requires measures taken to render areas inaccessible which is not possible in	Deleted: An
4	the context of drones overflying certain research and development facilities.	Formatted: Font:
5 6	(d) Because many unmanned aircraft operations will use cameras and other sensors for	Deleted: may be an instrumentality of a Public or Private Nuisance as defined in [section of state code] ¶  SECTION 505
7 8	navigational purposes, this exemption is necessary to ensure aviation safety.	Moved down [18]: . INTENTIONAL TORTS.
9 10 11 12 13 14	(e) This provision is intended to act as a safe harbor type defense. It reflects parts of the U.S. Department of Commerce, National Telecommunications and Information  Administration's, consensus Privacy Best Practices document which received widespread industry support. That document's best practices call for unmanned aircraft operators to create procedures by which information that may violate a person's expectations of privacy would be deleted.	Deleted: An unmanned aircraft may be an instrumentality of an Intentional Tort as defined in [section of state code] \[ \] - SECTION 506. STRICT LIABILITY, UNMANNED AIRCRAFT GOODS, AND UNMANNED AIRCRAFT SERVICES. \[ \] - (a) A manufacturer of an unmanned aircraft system is strictly liable for damages arising from defects in the unmanned aircraft system, and the unmanned aircraft system
15		Formatted: Font:
16	SECTION 303, NUISANCE. A drone, a group of drones acting in concert, or a group	Deleted: be treated as a good for
17	of drones operated by the same person over a continuous period of time may be instrumentalities	Formatted: Line spacing: single
1 /	of drones operated by the same person over a continuous period of time may be instrumentanties.	Formatted: Font:
18	of a public or private nuisance as defined by [law of this state].	Deleted: of the UCC, except for (c) below.  (b) For the purposes of
19	SECTION 304. INTENTIONAL TORTS. A drone may be the instrumentality of an	Formatted: Font:
20	intentional tort as defined by [law of this state].	Deleted: section, software produced by the unmanned aircraft manufacturer intended for use with the unmanned aircraft, to include manufacturer produced flight control software, firmware, and software
21	SECTION 305. TRESPASS TO CHATTELS. A drone may be the instrumentality of	Formatted: Font:
22 23	a trespass to chattels as defined by [law of this state].  Comment	Deleted: enable the use of the unmanned aircraft's functions, are considered part of the unmanned aircraft system and will be treated as a good for purposes of the UCC, except pursuant to (c) below.
24		Formatted: Font:
25	A comment will be added here to outline possible hypos where a drone would be	Moved (insertion) [16]
26	understood as committing a trespass to chattel.	Formatted: Font:
27 28	SECTION 306. EXISTING PRODUCTS LIABILITY LAW UNDISTURBED.	Formatted: Font: Not Bold
28	SECTION 200. EXISTING PRODUCTS LIABILITY LAW UNDISTURBED.	Formatted: Indent: First line: 0.5"
29	Nothing in this Act is intended to alter the scope or applicability of products liability law under	Formatted: Heading 2 Char, Font: Not Bold
30	[law of this state].	Deleted: - (c) Unmanned aircraft software that is not necessary for the operation of the unmanned aircraft systqpu]
		Moved (insertion) [17]
31	SECTION 307. LIMITATION OF LIABILITY.	Moved (insertion) [18]
22	A	Moved (insertion) [13]
32	An owner, lessee, or occupant of land:	Formattad Line spacing, single

Formatted: Heading 2 Char

Deleted: 507 Deleted: (a)

1	(a) does not owe a duty of care to a per se aerial trespasser [as defined in Section
2	<u>301];</u> and
3	(b) is not liable for any injury to a per se aerial trespasser [as defined in Section
4	301] except for willful or wanton acts of gross negligence, or acts committed by the owner,
5	lessee, or other occupant of land with malicious intent or in bad faith.
6	<b>QUESTION FOR COMMITTEE:</b> We have not come to a decision on what to do with
7	licensees and invitees, where the licensee or invitee here will be the unmanned aircraft
8	and/or the unmanned aircraft operator.
9	SECTION 308. DEFENSES. Should there be a right to retrieve the chattels in an
10	emergency landing situation? [Question for Committee]
11	SECTION 309. REMEDIES.
12	[New section for discussion, per the request of the committee]
13	(a) In an action for per se trespass under Section 301, a plaintiff may be entitled to
14	recover damages, although such damages may be nominal if no harm to a landowner/lessee is
15	shown. A plaintiff may also be entitled to injunctive relief, at the discretion of the court, to
16	prevent further acts of trespass.
17	(b) In an action for tortious acquisition of images, recordings or electronic impressions
18	using an unmanned aircraft under Section 302, a plaintiff may be entitled to recover
19	(1) general damages and special damages (collectively known as actual damages),
20	as well as punitive damages capped at three times the combined amount of the general and
21	special damages.
22	(2) "disgorgement" of any payment or benefit received as a result of conduct
23	forbidden by the law if (1) committed for a commercial purpose and (2) intended to be or

**Deleted:** the immediate reaches of the airspace above the land;

# Deleted: 2

**Deleted:** the immediate reaches of the airspace above the land,

# **Deleted:** or

Deleted: ¶
— (b) Subsection (a) shall not limit the liability of an owner, lessee, or occupant of real property who has been grossly negligent or has acted

## Formatted

1	actually sold, published, or transmitted.		
2	(3) Third party liability. Any third parties that used an image, recording, or		
3	impression made in violation of Section 302 are subject to the damage provisions outlined here,		
4	but only if that third party had		
5	(A) actual knowledge that the image or recording was made in violation of		
6	the law and		
7	(B) provided compensation for the image or recording.		
8	<u>Comment</u>	(	Moved (insertion) [15]
		1	Formatted
9	(b)(2) This disgorgement provision is drawn from a proposed Tennessee law, which	Y	Formatted: None
10	requires the person who gains from the prohibited conduct to pay the subject of the image,	(	
11	recording, or impression whatever they gained, would likely benefit only those whose image,		
12	recording, or impression could be published or sold for monetary gain.		
13			
14	(b)(3) Third party liability provisions are oftentimes drafted to prevent those in receipt of ←		Formatted: Indent: First line: 0.5", Line spacing: single, No
15	information gathered in violation of another's privacy rights from further disseminating the		widow/orphan control, Don't adjust space between Latin
16	improperly gathered information, these provisions though oftentimes raise Constitutional issues.		and Asian text, Don't adjust space between Asian text and numbers