## DRAFT

## FOR DISCUSSION ONLY

# TORT LAW RELATING TO DRONES ACT

# NATIONAL CONFERENCE OF COMMISSIONERS ON UNIFORM STATE LAWS

March 9-11, 2018 Drafting Committee Meeting

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#### TORT LAW RELATING TO DRONES ACT

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# TORT LAW RELATING TO DRONES ACT

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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) "Control station" means any device used by the remote pilot to control or
10	direct the flight path of the small unmanned aircraft.
11	(2) "Person" means an individual, firm, partnership, corporation, company,
12	association, joint-stock association, or governmental entity. It includes a trustee, receiver,
13	assignee, or similar representative of any of them.
14	(3) "Firmware" means software installed in or on a small unmanned aircraft
15	system at the time of the manufacture of the unmanned aircraft, and in use, whether actively or
16	as a passive operation, including updates to the firmware released by the manufacturer and
17	installed on an unmanned aircraft system.
18	(4) "Flight Control Software" means the software used as part of the control
19	station.
20	(5) "Immediate Reaches" means the airspace from ground level to at least [100]
21	feet above the surface, or where surface improvements are present, the airspace at least [100] feet
22	above those surface improvements.
23	(6) "Small unmanned aircraft" means an unmanned aircraft weighing less than 55

1	pounds on takeoff, including everything that is on board or otherwise attached to the aircraft. For
2	the purposes of this statute, the term drone is synonymous with small unmanned aircraft.
3	(7) "Small unmanned aircraft system (small UAS)" means a small unmanned
4	aircraft and its associated elements (including communication links and the components that
5	control the small unmanned aircraft) that are required for the safe and efficient operation of the
6	small unmanned aircraft.
7	(8) "Software" means the carefully-organized instructions and code written by
8	programmers in any of various special computer languages. Software includes code that controls
9	the functions of a small unmanned aircraft system. It also includes applications that handle
10	common or specialized tasks related to the control of a small unmanned aircraft system.
11	Software includes applications provided by the unmanned aircraft manufacturer that are
12	necessary for the operation of some or all of the functions of the unmanned aircraft system, and
13	third party applications capable of controlling the unmanned aircraft system.
14	(9) "Unmanned aircraft" means an aircraft operated without the possibility of
15	direct human intervention from within or on the aircraft.
16	Comment
17 18	(1) This definition is adapted from FAA policy documents.
19 20 21 22	(2) This definition is adapted from FAA regulations. It is broadly drafted to include persons who today include model aircraft and recreational operators, remote pilots, and entities operating unmanned aircraft. It is also sufficiently broad to account for future autonomous systems.
23 24 25 26	(3) This definition is necessary to establish the difference between software that may supplement the operation of an unmanned aircraft from that which is necessary for the operation of the unmanned aircraft.
27 28	(4) [blank]
29 30	(5) This definition is necessary to clarify the unresolved question regarding at what altitude private property rights end and the established yet undefined "public highway" in the sky begins.

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 clearly 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."

While owners likely do not physically occupy the airspace 100 feet above their land or structures, an intrusion into this area, per this definition, would constitute an entry into the immediate reaches of the land owner's airspace without the need for fact specific inquiries which have historically caused uncertainty and a lack of uniformity. In *Causby*, the Supreme Court on the facts of that case 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. 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 wrote, "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 does not end there, as 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

2 3	landowneras incident to his ownership has rights in the superadjacent airspace, providing clarity and uniformity.
4 5	(6) This definition is adapted from FAA regulations.
6	(7) This definition is adapted from FAA regulations.
7	(8) [blank]
8	(9) This definition is adapted from FAA regulations.
9	[SUBPART B. GENERAL SCOPE AND TERMS]
10	SECTION 201. SCOPE; EXCLUSIONS.
11	(a) [Scope in general.]. This [Act] applies to small unmanned aircraft systems.
12	SECTION 202. RELATION TO FEDERAL LAW.
13	(a) [Federal preemption.] A provision of this [Act] which is explicitly preempted by
14	federal law is unenforceable to the extent of the preemption.
15	Comment
16 17 18	The Uniform Law Commission has coordinated with the FAA on the scope and formation of this Uniform Act and has determined that tort law is not preempted. <insert and="" correspondence="" memo="" of="" record="">.</insert>
19 20	SECTION 203. RULES OF CONSTRUCTION.
21	(a) [Liberal construction and application.] This [Act] must be liberally construed and
22	applied to promote its underlying purpose and policies to:
23	(1) support and facilitate the realization of the full potential of unmanned aircraft
24	by creating clearly defined rules that protect unmanned aircraft operators and stakeholders;
25	(2) clarify the disparate tort laws related to unmanned aircraft in instances
26	involving aerial trespass, nuisance, privacy and associated harms; and
27	(3) promote uniformity of the law with respect to the subject matter of this [Act]

2 Comment 3 1. Purpose of the Section. This section brings together rules regarding construction of this Act. 4 5 **2. Purpose of the Act.** This Act must be construed in light of its purposes. As stated in paragraph 6 (1), these are not regulatory, but are intended to facilitate and support the use of unmanned 7 aircraft while protecting stakeholders from the negative consequences of these unmanned 8 aircraft. To construe an Act in light of its purposes does not mean that general purposes supplant 9 specific provisions. However, in cases of uncertainty, the meaning of this Act should be construed by reference to the stated purposes developed in the Act, as opposed to inconsistent or 10 extraneous policies that contradict those of this Act. 11 12 13 [TITLE 3 AND TITLE 4 RESERVED] 14 [SUBSTANTIVE PROVISIONS] 15 SECTION 501. AERIAL TRESPASS USING AN UNMANNED AIRCRAFT. 16 (a) A person operating an unmanned aircraft is liable to an individual for trespass, if, 17 without consent, the person causes the unmanned aircraft to enter into the immediate reaches of the airspace above the land of another. 18 19 (b) This section shall not apply to peace officers as defined [ or any federal, state, 20 or local government employees engaged in the performance of their duties, or to any firefighters, 21 emergency medical personnel, or public utility employees engaged in addressing an emergency 22 that presents an imminent danger to health, safety, or the environment in the performance of their 23 duties. The provisions of this section shall not prohibit railroad employees and emergency 24 equipment from entering such land to restore rail service following an accident, derailment or 25 natural disaster; nor the entrance of utility employees or contractors while acting in the scope of their employment; nor employees or contractors of valid easement or license holders while 26 27 acting in the scope of their employment.

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among states that enact it.

(c) Consent to enter the immediate reaches of the airspace above the land of another may

- be proven through express verbal, written or electronic consent. Such consent must be given by
- 2 the person authorized to grant entry to the immediate reaches of the airspace above land.
- 3 Consent must be freely given, specific, informed and must unambiguously indicate the wishes of
- 4 the party granting consent and the terms under which consent may be revoked. Electronic
- 5 consent must include a clear affirmative action that signifies specific agreement to the overflight.
- 6 The person causing an unmanned aircraft to enter the immediate reaches of the airspace has the
- 7 burden to produce evidence of consent.

8 Comment

This section is intended to promote clarity and uniformity by making clear that the low altitude intrusion of an unmanned aircraft into the superadjacent airspace above land is akin to a trespass upon the land. This section assumes a landowner may exclude a non-consensual entry by drone into the immediate reaches of the airspace above their land or surface improvements on the land. This ensures that the unmanned aircraft always remains (per the definition of immediate reaches) 100 feet above ground level or 100 feet above surface improvements, whichever is greater. Such a rule will protect rooftop pools, decks, patios and other uses in urban areas. The altitude ceiling for this exclusion is low enough that unmanned aircraft will still have a right to transit above property and surface improvements.

This section 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 502), however, a collateral benefit of a right to exclude nonconsensual entry of unmanned aircraft into the immediate reaches of airspace may be some incremental gains to privacy.

This section is a corrective to the existing aerial trespass doctrine which according to the Restatement (Second) of Torts § 159(2) states:

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 an automatic right to exclude non-consensual entries, aerial trespass as presently understood does not afford such an automatic exclusionary right. Thus while a trespasser walking upon land is liable for trespass "irrespective of whether he thereby causes harm to any legally protected interest of the other" (Restatement (Second) of Torts § 158 (1965)) an aerial trespass would trigger no such right of exclusion unless a plaintiff could show both that the unmanned aircraft entered the immediate reaches and that there was substantial interference with the use and enjoyment of the land.

 Requiring proof of both of these elements for unmanned aircraft will likely result in the inability of landowners to exclude most unmanned aircraft flights from even very low altitudes adjacent to land and buildings and will force courts to adjudicate whether flights actually interfered with a landowner's use and enjoyment of their land. The traditional rule's requirement that there exist an interference with use and enjoyment of land is drawn from nuisance law and has a harm element associated with it, which distinguishes it from the trespass to land jurisprudence. Stated simply, unlike the automatic right that exists in trespass to land --- the ability to exclude a person from walking upon one's land --- there is no existing right to exclude aircraft from flying above one's land without showing interference with use and enjoyment of the land. For unmanned aircraft, this will likely prove problematic as it will require a fact-specific showing related to each overflight before an unmanned aircraft could be excludable, leading to uncertainty and lack of uniformity.

Complicating matters further, existing precedents from manned aviation require <u>substantial</u> interferences 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, 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 this to unmanned aircraft will raise questions about whether drones are permitted to fly at low altitudes in close proximity to homes, so long as the unmanned aircraft is very quiet, or the residents are not home, or these precedents may 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).

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

1	without permission;
2	(b) commits a trespass;
3	(c) in order to capture any type of visual image, sound recording, or other physical
4	impression of a person that violates the person's reasonable expectation of privacy; or
5	(d) captures the person engaging in a private, personal, or familial activity; and the
6	capturing of the visual image, sound recording, or physical impression occurs in a manner that is
7	(1) offensive to a reasonable person or
8	(2) violates the person's reasonable expectation of privacy.
9	(e) For purposes of this section, a person is presumed to have a reasonable expectation of
10	privacy on his or her privately owned real property if he or she is not observable by persons
11	located at ground level in a place where they have a legal right to be, regardless of whether the
12	observed person is otherwise observable from the air.
13	Comment
14 15 16 17 18 19 20	Note there is no altitude limit on this provision as it is designed to protect against privacy invasions, this is distinguishable from aerial trespass using an unmanned aircraft (Section 501) which is intended to protect property interests. While there is no altitude limit, the provision limiting the impression to "private, personal, or familial activity" and the proof requirement that the invasion be "offensive to a reasonable person" limits the potential for overbreadth. This section is adapted from California law and Florida law.
14 15 16 17 18 19 20 21	Note there is no altitude limit on this provision as it is designed to protect against privacy invasions, this is distinguishable from aerial trespass using an unmanned aircraft (Section 501) which is intended to protect property interests. While there is no altitude limit, the provision limiting the impression to "private, personal, or familial activity" and the proof requirement that the invasion be "offensive to a reasonable person" limits the potential for overbreadth. This section is adapted from California law and Florida law.  SECTION 503. CONSTRUCTIVE INVASION OF PRIVACY. A person is liable for
14 15 16 17 18 19 20 21	Note there is no altitude limit on this provision as it is designed to protect against privacy invasions, this is distinguishable from aerial trespass using an unmanned aircraft (Section 501) which is intended to protect property interests. While there is no altitude limit, the provision limiting the impression to "private, personal, or familial activity" and the proof requirement that the invasion be "offensive to a reasonable person" limits the potential for overbreadth. This section is adapted from California law and Florida law.  SECTION 503. CONSTRUCTIVE INVASION OF PRIVACY. A person is liable for constructive invasion of privacy when the person
14 15 16 17 18 19 20 21 22 23	Note there is no altitude limit on this provision as it is designed to protect against privacy invasions, this is distinguishable from aerial trespass using an unmanned aircraft (Section 501) which is intended to protect property interests. While there is no altitude limit, the provision limiting the impression to "private, personal, or familial activity" and the proof requirement that the invasion be "offensive to a reasonable person" limits the potential for overbreadth. This section is adapted from California law and Florida law.  SECTION 503. CONSTRUCTIVE INVASION OF PRIVACY. A person is liable for constructive invasion of privacy when the person  (a) attempts to capture, in a manner that is offensive to a reasonable person, any type of
14 15 16 17 18 19 20 21 22 23	Note there is no altitude limit on this provision as it is designed to protect against privacy invasions, this is distinguishable from aerial trespass using an unmanned aircraft (Section 501) which is intended to protect property interests. While there is no altitude limit, the provision limiting the impression to "private, personal, or familial activity" and the proof requirement that the invasion be "offensive to a reasonable person" limits the potential for overbreadth. This section is adapted from California law and Florida law.  SECTION 503. CONSTRUCTIVE INVASION OF PRIVACY. A person is liable for constructive invasion of privacy when the person  (a) attempts to capture, in a manner that is offensive to a reasonable person, any type of (1) visual image,
14 15 16 17 18 19 20 21 22 23	Note there is no altitude limit on this provision as it is designed to protect against privacy invasions, this is distinguishable from aerial trespass using an unmanned aircraft (Section 501) which is intended to protect property interests. While there is no altitude limit, the provision limiting the impression to "private, personal, or familial activity" and the proof requirement that the invasion be "offensive to a reasonable person" limits the potential for overbreadth. This section is adapted from California law and Florida law.  SECTION 503. CONSTRUCTIVE INVASION OF PRIVACY. A person is liable for constructive invasion of privacy when the person  (a) attempts to capture, in a manner that is offensive to a reasonable person, any type of

1	(c) violates the person's reasonable expectation of privacy.
2	(d) through the use of any device, regardless of whether there is a physical trespass, if this
3	image, sound recording, or other physical impression could not have been achieved without a
4	trespass unless the device was used.
5	(e) For purposes of this section, a person is presumed to have a reasonable expectation of
6	privacy on his or her privately owned real property if he or she is not observable by persons
7	located at ground level in a place where they have a legal right to be, regardless of whether the
8	observed person is otherwise observable from the air.
9	Comment
10 11 12 13 14 15 16	This section seeks to protect against non-trespassory privacy invasions from adjacent airspace (for example an observation into a private area from airspace above a public street or above neighboring private property). The section has similar language to Section 502 protecting from overbreadth by ensuring that the capturing is offensive, and violates a reasonable expectation of privacy or is otherwise of private, personal, or familial activity. This section is adapted from California law and Florida law.
17	<b>SECTION 504. NUISANCE.</b> An unmanned aircraft may be an instrumentality of a
18	Public or Private Nuisance as defined in [section of state code]
19	SECTION 505. INTENTIONAL TORTS. An unmanned aircraft may be an
20	instrumentality of an Intentional Tort as defined in [section of state code]
21	SECTION 506. STRICT LIABILITY, UNMANNED AIRCRAFT GOODS, AND
22	UNMANNED AIRCRAFT SERVICES.
23	(a) A manufacturer of an unmanned aircraft system is strictly liable for damages arising
24	from defects in the unmanned aircraft system, and the unmanned aircraft system will be treated
25	as a good for purposes of the UCC, except for (c) below.
26	(b) For the purposes of this section, software produced by the unmanned aircraft
27	manufacturer intended for use with the unmanned aircraft, to include manufacturer produced

1	flight control software, firmware, and software necessary to enable the use of the unmanned
2	aircraft's functions, are considered part of the unmanned aircraft system and will be treated as a
3	good for purposes of the UCC, except pursuant to (c) below.
4	(c) Unmanned aircraft software that is not necessary for the operation of the unmanned
5	aircraft system, but is capable of controlling the unmanned aircraft system, will be treated as a
6	service for purposes of the UCC.
7	Comment
8 9 10	The committee briefly discussed a framework like that set forth above, however more discussion is required.
11	SECTION 507. LIMITATION OF LIABILITY.
12	(a) An owner, lessee, or occupant of land:
13	(1) does not owe a duty of care to a trespasser in the immediate reaches of the
14	airspace above the land; and
15	(2) is not liable for any injury to a trespasser in the immediate reaches of the
16	airspace above the land, except for willful or wanton acts or gross negligence by the owner,
17	lessee, or other occupant of land.
18	(b) Subsection (a) shall not limit the liability of an owner, lessee, or occupant of real
19	property who has been grossly negligent or has acted with malicious intent or in bad faith.