
HOUSE CONCURRENT RESOLUTION

REQUESTING THE UNIVERSITY OF HAWAII TO ESTABLISH A RELIABLE,
INDEPENDENT, AND TRANSPARENT METHODOLOGY TO ASSESS EFFECTS
OF RADIO FREQUENCY EMISSIONS GENERATED BY WIRELESS ANTENNA
SITES.

1 WHEREAS, 5G refers to fifth-generation wireless technology,
2 which is intended to provide faster and higher-capacity
3 transmissions to carry the massive data load generated by smart
4 devices, the Internet of Things, robotics, artificial
5 intelligence, driverless cars, and other machine-to-machine
6 connections; and

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8 WHEREAS, on June 21, 2018, the Governor signed Act 49,
9 Session Laws of Hawaii 2018 (Act 49), which cleared the way for
10 widespread implementation of 5G in Hawaii; and

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12 WHEREAS, consumer demand and the passage of Act 49 have led
13 to an increase in wireless antenna sites in and around
14 neighborhoods, schools, and workplaces; and

15
16 WHEREAS, in the absence of credible data and information,
17 public perceptions concerning wireless technologies have too
18 often been shaped by speculation and misinformation rather than
19 verifiable scientific evidence; and

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21 WHEREAS, Hawaii has over four thousand wireless antenna
22 sites, many of which accommodate multiple wireless carriers, and
23 with the rapid deployment of 5G networks to deliver faster and
24 more reliable communications, additional wireless antenna sites
25 and radio frequency transmitting antennas will be deployed to
26 deliver better and expanded services to consumers and business
27 customers; and
28



1 WHEREAS, Hawaii needs to ensure that growth in new wireless
2 technologies, and corresponding growth in wireless transmitting
3 antennas, occurs in a responsible and managed manner, consistent
4 and compliant with Federal Communications Commission
5 regulations; and

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7 WHEREAS, the University of Hawaii is uniquely capable of
8 providing reliable, independent, transparent, credible,
9 verifiable, and scientific analysis concerning wireless
10 technologies; now, therefore,

11
12 BE IT RESOLVED by the House of Representatives of the
13 Thirty-first Legislature of the State of Hawaii, Regular Session
14 of 2022, the Senate concurring, that the University of Hawaii is
15 requested to establish a reliable, independent, and transparent
16 methodology to assess the effects of radio frequency emissions
17 generated by wireless antenna sites; and

18
19 BE IT FURTHER RESOLVED that as part its methodology, the
20 University of Hawaii is requested to establish a process to
21 determine the most appropriate means of providing the public,
22 workers, and others who may be in close proximity to a radio
23 frequency transmitting antenna with information that supports
24 compliance with the Federal Communications Commission's
25 regulations pursuant to title 47 C.F.R. section 1.1307(b), which
26 establishes requirements for applicants seeking authorizations
27 for radiofrequency sources, including compliance with limits on
28 human exposure to radiofrequency; and

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30 BE IT FURTHER RESOLVED that the University of Hawaii is
31 requested to thoroughly consider all of the following:

- 32
33 (1) A central data repository in which the information can
34 be stored and that can be accessed by authorized
35 users, including radio frequency emission information
36 for each transmitting facility;
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38 (2) The radio frequency information should include all
39 necessary radio frequency emission characteristics of
40 the facility (e.g., transmitter power, transmit
41 frequency, and antenna type) provided by each Federal
42 Communications Commission licensee to the State of



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1 Hawaii or a designated third party, together with any
2 updates, to ensure that the public, workers, or others
3 who may be exposed to radio frequency emission areas
4 that can exceed the Federal Communications
5 Commission's allowable radio frequency exposure limits
6 are not exposed to radio frequency emission limits
7 above the Federal Communications Commission's
8 allowable radio frequency exposure limits;
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10 (3) The information should include visual depictions of
11 the radio frequency emissions in relationship to the
12 physical improvements at the facility, such that any
13 or all visual depictions of the radio frequency
14 emissions can be attributed to a particular antenna or
15 sector at the facility with the latest information;
16

17 (4) A capability for exchanging information about
18 facilities and coordinating communications about the
19 facilities, with respect to a particular facility and
20 with respect to multiple facilities, persons who own
21 or control sites where the facilities are located,
22 contractors performing work on the facilities or at
23 such sites, persons who employ individuals performing
24 work on the facilities or at such sites or hire
25 individuals performing work on the facilities or at
26 such sites, and emergency-services agencies or
27 personnel;
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29 (5) The ability for authorized persons to access and use
30 the latest available radio frequency emission
31 information in the repository established under this
32 measure;
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34 (6) The ability to record by whom and the date on which
35 the information was accessed to ensure compliance with
36 any legal requirements;
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38 (7) A method to annually audit the site-specific safety
39 information to ensure the accuracy of critical safety
40 information;
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- 1 (8) A method that provides insurance to parties affected
2 by radio frequency exposure, including Federal
3 Communications Commission licensees, property owners,
4 employers, and state and local governments, for radio
5 frequency-related injury claims at all wireless
6 antenna sites to minimize exposure to an uninsured
7 risk and potential claims and litigation;
8
- 9 (9) An independent radio frequency compliance third party
10 to administer and provide services with regard to the
11 proper creation, distribution, access, updates, and
12 management of the information required in paragraphs
13 (1) through (8), and provide any other additional
14 related services as may be deemed necessary by the
15 University of Hawaii;
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- 17 (10) Whether to prequalify a prospective third-party radio
18 frequency compliance administrator and service
19 provider for the performance of the services in this
20 measure and limit a solicitation to those prequalified
21 administrators and service providers;
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- 23 (11) A method to secure funding to be used for the services
24 to be provided pursuant to this measure, including any
25 surcharges imposed upon wireless communications
26 service providers; and
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- 28 (12) Whether the amount of regulatory recovery costs being
29 paid per month by consumers to wireless carriers in
30 Hawaii, as outlined in the Federal Communications
31 Commission's Truth in Billing Act, are being
32 effectively and efficiently utilized by those carriers
33 for compliance with site radio frequency safety
34 regulations; and
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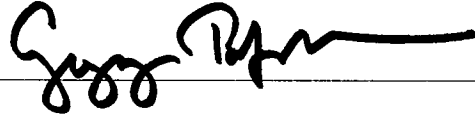
36 BE IT FURTHER RESOLVED that the University of Hawaii is
37 requested to submit a report of its findings and
38 recommendations, including any proposed legislation, to the
39 Legislature no later than twenty days before the convening of
40 the Regular Session of 2023; and
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1 BE IT FURTHER RESOLVED that certified copies of this
2 Concurrent Resolution be transmitted to the President of the
3 University of Hawaii System and Chairperson of the Board of
4 Regents of the University of Hawaii System.
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OFFERED BY:



MAR 07 2022

